GW - 028

C-141s

Chavez, Carl J, EMNRD

From: Combs, Robert [Robert.Combs@hollyfrontier.com]
Sent: Friday, October 07, 2011 3:26 PM
To: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Dade, Randy, EMNRD; Gonzales, Elidio L, EMNRD; Horowitz, Ruth, NMENV
Cc: Moore, Darrell; Lackey, Johnny; Strange, Aaron; Rhodes, Glen
Subject: C-141 T-401 leak
Attachments: C-141 T-401 leak.pdf; IMAG0112.jpg; IMAG0110.jpg

Carl, Dave, Randy, E.L, and Ruth,

Please see the attached C-141 for leak located near T-401. A final C-141 will follow and will include sample analyses (bottom hole, background, and excavated soil) and photos.

If there are any questions, please contact me at 575-746-5382.

Thanks,
Robert

Robert Combs
Environmental Specialist
The HollyFrontier Companies
P.O. Box 159
Artesia, NM 88211-0159
office: 575-746-5382
cell: 575-308-2718
fax: 575-746-5451
Robert.Combs@hollyfrontier.com

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811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Navajo Refining Co.	Contact Robert Combs
Address 501 E. Main St., Artesia, NM 88210	Telephone No. 575-746-5382
Facility Name	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	API 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 Isomerate (naphtha range)	Volume of Release Unknown	Volume Recovered N/A
Source of Release T-401	Date and Hour of Occurrence Unknown	Date and Hour of Discovery ~08:00 3 October, 2011
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.*
On 24 September, 2011, the Blender operators noticed a stain on the ground near T-401 during rounds. The operators used a four-gas monitor to determine if the spill was water or the finished product and found no LEL was detected, so the spill was presumed to be water. On 29 September, 2011, a four-gas analyzer was again used to check the stain and found that <20% LEL was detected. At that time, the product rundown was switched to another tank (T-412) and Praxair was called to determine if there was a leak in the tank floor. They found that their tracer chemical was detected outside of the tank, which was reported 3 October, 2011. From the time the stain was noticed until present, the stain has been damp with no liquid present. Please see the attached photos.

Describe Area Affected and Cleanup Action Taken.*
T-401 is elevated above grade by approximately 4 feet. The stain originates at the ring wall and runs down the earthen foundation to a broadened area. The overall length of the stain is ~27 feet and the average width of the run-off path is ~2.5 feet and the widest portion of the stain is 13 feet. A 'tramp' pump has been placed in the area and piped to T-412 in order to empty the contents as soon as possible so that entry and inspection can be made. Once the tank is empty, the area will be excavated and sampled for analyses. A final report will be submitted with clean-up details and the analytical 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:	OIL CONSERVATION DIVISION	
Printed Name: Robert Combs	Approved by Environmental Specialist:	
Title: Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: Robert.Combs@hollyfrontier.com	Conditions of Approval:	Attached ☐
Date: 7 October, 2011 Phone: 575-746-5382		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Combs, Robert [Robert.Combs@hollyfrontier.com]
Sent: Wednesday, September 21, 2011 4:28 PM
To: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Hill, Larry, EMNRD; Dade, Randy, EMNRD
Cc: Moore, Darrell; Lackey, Johnny; Strange, Aaron
Subject: C-141 Spill--NRC effluent pipeline leak near Chukka Federal injection well
Attachments: 2011-09-16 Spill-Effluent pipeline leak at Chukka junction box--initial report.pdf; Chukka Leak

Carl, Dave, Randy, and Larry,

Please see the attached C-141 for the treated waste water spill located near the Chukka injection well that occurred 9/16/11. A final C-141 will follow and will include sample analyses (bottom hole, background, and excavated soil) and photos.

If there are any questions, please contact me at 575-746-5382.

Thanks,
Robert

Robert Combs

Environmental Specialist

The HollyFrontier Companies

P.O. Box 159

Artesia, NM 88211-0159

office: 575-746-5382

cell: 575-308-2718

fax: 575-746-5451

Robert.Combs@HollyFrontier.com

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Navajo Refining Company, L.L.C.	Contact Robert Combs
Address 501 E. Main St, Artesia, NM 88210	Telephone No. 575-746-5382
Facility Name Artesia Refinery	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	API No.

LOCATION OF RELEASE

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

Latitude 32° 45' 50.46" N **Longitude** 104° 14' 17.57" W

NATURE OF RELEASE

Type of Release Treated Waste Water	Volume of Release >25 bbl	Volume Recovered >25 bbl
Source of Release Effluent pipeline junction	Date and Hour of Occurrence 9/17/11 ~19:30	Date and Hour of Discovery 9/17/11 ~ 23:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMED (505-476-6000); left voicemail message OCD—Artesia (575-748-1283); left voicemail message OCD—Santa Fe (505-476-3490); left voicemail message	
By Whom? Estefani Hammond	Date and Hour 9/17/11 ~ 23:50	
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 ~19:30 on 09/16/2011 the FCC Division Control Room Boardman noticed that the pipeline discharge pressure (80PI011) dropped from ~1021 psig to ~415 psig and the flow (80FIC011) increased from ~500 gpm to ~647 gpm. At ~19:33, the operator contacted the shift foreman and was instructed to shut down the pipeline pumps (P-849/854). A contract employee was dispatched to inspect the pipeline and determined that there was a breach in the treated waste water pipeline line inside a junction box located near the Chukka Federal injection well (see attachment for exact location). Once the location was known, the spill was reported to the agencies listed above.

Describe Area Affected and Cleanup Action Taken.*
The spill was contained within the junction box, but when the contractors began to excavate outside the box, the water ran along side the pipeline and into the excavated area. A vacuum truck was used to remove the liquid volume from both inside and outside the junction box. The recovered liquid volume was >25 bbl, which includes material from inside the pipeline that emptied into the junction box when the flange was opened. The total volume recovered will be included in the final report once the investigation is complete.

Several soil samples were submitted for analysis; please see the attachment for locations. The excavated dirt was transferred to roll-off bins awaiting analytical results.

It was found that a threaded fiberglass pipe fitting failed and caused the leak. The root cause of the fitting failure is still under investigation. The excavation will be partially filled with sand temporarily to prevent filling with rainwater and eliminate the safety hazard of an open hole (cattle in area).

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Robert Combs	Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: / Expiration Date:

E-mail Address: robert.combs@hollyfrontier.com	Conditions of Approval:	Attached ☐
Date: 9/20/11 Phone: 575-308-2718		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [Aaron.Strange@hollyfrontier.com]
Sent: Monday, September 19, 2011 3:27 PM
To: Combs, Robert
Cc: Price, Doug; Lackey, Johnny; Moore, Darrell; Rhodes, Glen
Subject: Chukka Leak
Attachments: Chukka Leak (Google Earth).mdi

Robert,

Please see the attachment. Also, below are the coordinates for the leak and samples that are shown on the attachment.

Junction Box (Leak/Spill): 32°45'50.46"N 104°14'17.57"W.

Bottom Hole Sample: 32°45'50.53"N 104°14'17.58"W.

Background Sample: 32°45'50.68"N 104°14'16.67"W.

Excavated Soil Sample: No Coordinates.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

Chavez, Carl J, EMNRD

From: Strange, Aaron [Aaron.Strange@hollyfrontier.com]
Sent: Tuesday, July 12, 2011 4:26 PM
To: Cobrain, Dave, NMENV
Cc: Tsinnajinnie, Leona, NMENV; Chavez, Carl J, EMNRD; Moore, Darrell; Lackey, Johnny
Subject: RE: additoinal info_spills
Attachments: 2009-12-17 Diesel Spill Final.pdf

Dave,

Attached is the first of the three C-141 Final Reports in response to the additional information that Hope had requested. I will be submitting the other two as I complete them over the next few days.

Thank you,
Aaron Strange

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Cobrain, Dave, NMENV [mailto:dave.cobrain@state.nm.us]
Sent: Friday, July 08, 2011 4:00 PM
To: Strange, Aaron
Cc: Tsinnajinnie, Leona, NMENV; Chavez, Carl J, EMNRD; Moore, Darrell; Lackey, Johnny
Subject: RE: additoinal info_spills

Aaron,

Thanks. We'll look for it next week.

Dave

Main HWB Phone: 505-476-6000
Direct Office Phone: 505-476-6055
Fax: 505-476-6030 or 505-476-6060
Please note, due toDOIT email service filters, unless you receive a response from me by email, I may not have received your message and am therefore unaware that you have attempted to contact me. I will respond to all emails that I receive

---

From: Strange, Aaron [mailto:Aaron.Strange@hollyfrontier.com]
Sent: Friday, July 08, 2011 3:18 PM
To: Cobrain, Dave, NMENV
Cc: Tsinnajinnie, Leona, NMENV; Chavez, Carl J, EMNRD; Moore, Darrell; Lackey, Johnny
Subject: RE: additoinal info_spills

Dave,

I have been collecting the information requested by Hope in the email below. I will be compiling it and plan to send it out early next week.

Thank you,
Aaron Strange

Aaron Strange

Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Friday, June 03, 2011 11:31 AM
To: Moore, Darrell; Strange, Aaron
Cc: Cobrain, Dave, NMENV; Tsinnajinnie, Leona, NMENV; Lackey, Johnny; Chavez, Carl J, EMNRD
Subject: additoinal info_spills

Darrell and Aaron

NMED is awaiting additional information for past spills. I have included the information below. Please let me know the status on these items and when the additional information will be sent.

1-C-141 form dated 12/17/09 (diesel spill near Tank 834 sump. See item 1 PDF – submit additional information (analytical results, soil volume removed etc).

2- C-141 -1-10-10 Fire at API Lift Station (see item 2 PDF and provide the required information in the fifth paragraph).
2-C-141 form 1-10-10 T-863 ABT (see item 2 PDF and provide the required information in the last paragraph).

Let me know if you have any questions.

Hope

Hope Monzeglio Petrie
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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State of New Mexico
Energy Minerals and Natural Resources

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

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°51'04.38" **Longitude** 104°23'49.61"

NATURE OF RELEASE

Type of Release: Diesel	Volume of Release: 45 barrels	Volume Recovered. 40 barrels
Source of Release: South Diesel Salt Filter (D-127) drain at Tank T-834 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

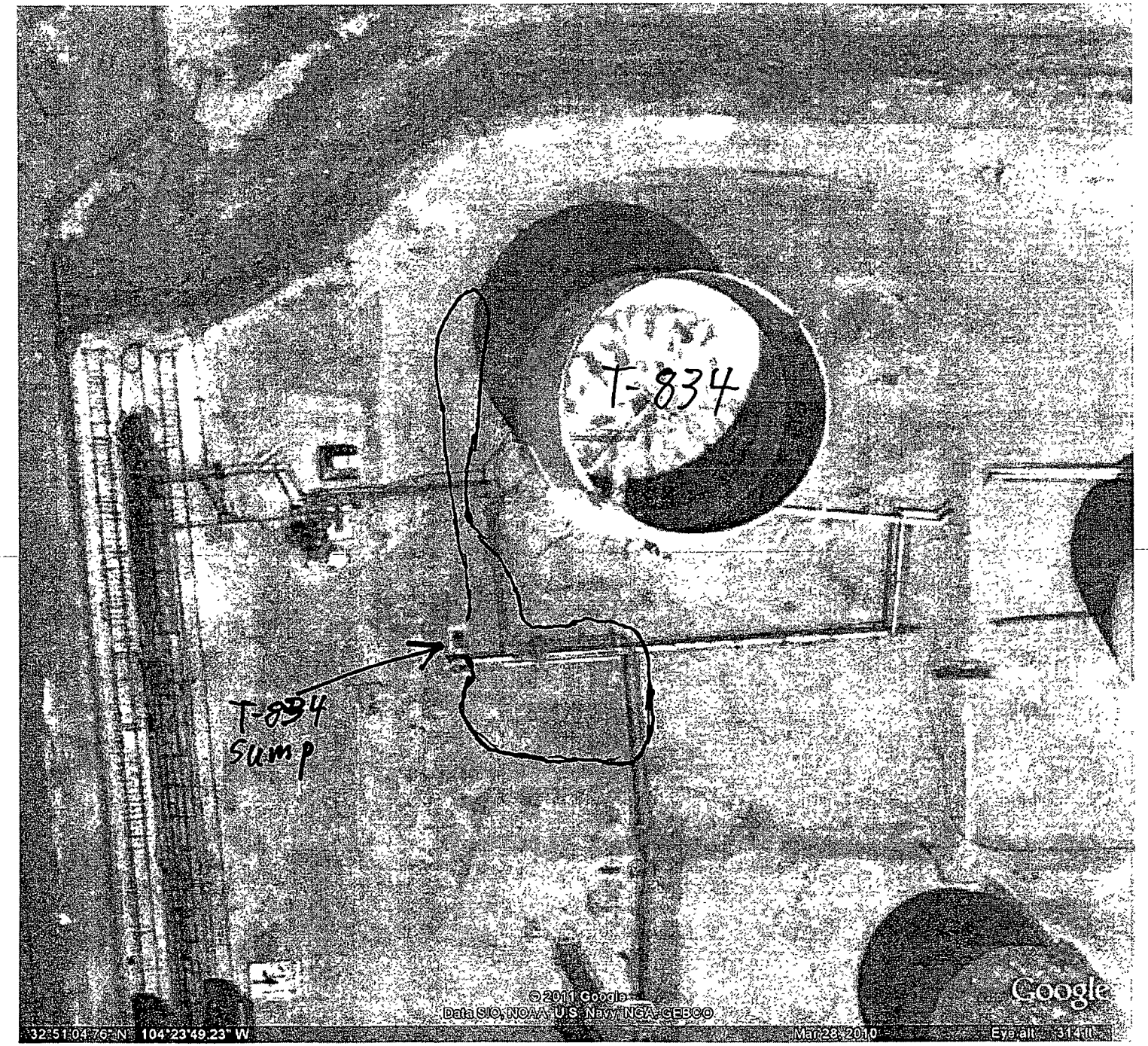
Describe Cause of Problem and Remedial Action Taken.*
On 12/17/09 at ~ 23:42 operators discovered a diesel spill near the Tank 834 sump. The spill was caused by a drain valve that was left open on the South Diesel Salt Filter (D-127) which drains to the sump located within the Tank 834 berm. The sump overflowed due to the open drain valve. The drain valve was closed in and a vacuum truck was called in to remove the standing liquid. The Water Draw Procedure for the Salt Filters was reiterated to personnel to ensure open valves are not left unattended during draining operations.

Describe Area Affected and Cleanup Action Taken.*
The area affected by the spill was at the Tank T-834 sump and extended north and southeast of the sump. The sump is within the berm around T-834 and the spill remained within the tank berm. A vacuum truck was called and recovered ~ 40 barrels of standing liquid. Nine roll-off bins (~ 108 yards) of soil was excavated. The excavation uncovered historical contamination which prevented a clean bottom hole sample from being collected. The nine roll-off bins of diesel contaminated soil were disposed of as Non-Hazardous Waste to Controlled Recovery, Inc. Attached you will find a drawing of the spill and copies of the non-hazardous waste manifests.

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: 7/12/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary


T-834
T-834
Sump
N
© 2011 Google
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Google
32°51'04.76" N 104°23'49.23" W
Mar 28, 2010
Eye alt 314 ft

36631

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 831 Clean Up
(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					
D	—	Cont. Soil	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.

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 517 W Texas
City/State Artesia NM

Telephone No.

5
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

1-22-10
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

1-22-10
Date and Time Received

36928

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

~~20 Yds~~ Cont. Soil ~~Roll Off Dump~~

12yds D. Cont Soil Tank 834

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 _____ Telephone No.
City/State _____ 5 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

1-22-10 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

1/21/10 9:50am Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST 44444

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. NMT048918817

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					
Cont Soil 12 Yds					
Tank 834					

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.

5
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

1-22-10
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

1/22/10 7:20am
Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST 44445

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

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name 834 TK
(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
Cont Soil 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
City/State Artesia NM
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 — 12-20-10 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc. (575) 393-1079
Address P.O. Box 388 Telephone No.
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 — 1-13-10 Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST 44446

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

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name 834 TK
(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					
Cont Soil 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
City/State Artesia N. M. — Telephone No.
3 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 — 1-23-10 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 — 1-23-10 Date and Time Received

TCP - #7520-A

36632

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 831 Clean Up
(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					
D — Cont. Soil 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 W. Texas
City/State Artesia, NM
Telephone No.
Truck No. 5

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

Signature of Transporter's Agent

1-25-10
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

1-25-10
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST 44447

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					
Cont Soil 12 Yds Tank 834					

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

Carol 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.
5
Truck No.

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

Gary Van Winkle
Signature of Transporter's Agent

1-25-10
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

1-25-10
Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST 44448

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. NM0048918817

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					
Cont Soil 12 Yds					
Tank 834					

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.
5
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

1-25-10
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

1/5 [illegible]
Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST 44449

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					
Cont Soil 12 Yds					
Tank 934					

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 Hormachea
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.
5
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

1-26-10
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

1/27/10
Date and Time Received

TCP - #7520-A

Chavez, Carl J, EMNRD

From: Strange, Aaron [Aaron.Strange@hollyfrontier.com]
Sent: Friday, July 08, 2011 3:18 PM
To: Cobrain, Dave, NMENV
Cc: Tsinnajinnie, Leona, NMENV; Chavez, Carl J, EMNRD; Moore, Darrell; Lackey, Johnny
Subject: RE: additoinal info_spills

Dave,

I have been collecting the information requested by Hope in the email below. I will be compiling it and plan to send it out early next week.

Thank you,
Aaron Strange

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Friday, June 03, 2011 11:31 AM
To: Moore, Darrell; Strange, Aaron
Cc: Cobrain, Dave, NMENV; Tsinnajinnie, Leona, NMENV; Lackey, Johnny; Chavez, Carl J, EMNRD
Subject: additoinal info_spills

Darrell and Aaron

NMED is awaiting additional information for past spills. I have included the information below. Please let me know the status on these items and when the additional information will be sent.

1-C-141 form dated 12/17/09 (diesel spill near Tank 834 sump. See item 1 PDF – submit additional information (analytical results, soil volume removed etc).

2- C-141 -1-10-10 Fire at API Lift Station (see item 2 PDF and provide the required information in the fifth paragraph).
2-C-141 form 1-10-10 T-863 ABT (see item 2 PDF and provide the required information in the last paragraph).

Let me know if you have any questions.

Hope

Hope Monzeglio Petrie
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department

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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 (Electric Motor)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Bearing on Electric Motor	Date and Hour of Occurrence: 06/18/2011 ~ 02:40	Date and Hour of Discovery: 06/18/2011 ~ 02:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Emailed Carl Chaves with the OCD Santa Fe Office, and emailed Dave Cobrain with the NMED Haz Waste Bureau.	
By Whom? Darrell Moore	Date and Hour. 06/18/2011 at ~08 31 to Santa Fe OCD, 06/18/2011 at ~08:31 to NMED Haz Waste Bureau.	
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 06/18/2011 at ~ 02:40 there was a fire at the Electric Lift Air Blower Motor on Compressor C-945 on the east side of the FCC Unit. The rear bearing on the motor failed, causing the motor to heat up causing a fire in the electric motor. Operations personnel extinguished the fire within a few minutes with steam.

Describe Area Affected and Cleanup Action Taken.*
The area affected was at the Electric Lift Air Blower Motor on Compressor C-945 on the east side of the FCC Unit (Unit 10). No hydrocarbon was released to the ground and no cleanup was needed. There were no injuries. The motor was all that was damaged by 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: 06/21/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Saturday, June 18, 2011 8:31 AM
To: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV
Cc: Strange, Aaron; Lackey, Johnny
Subject: Blower Fire

Gentlemen

At approximately 3:15 am on Saturday June 18 we had a fire in a blower motor on the east side of the FCC Unit. The fire was put out with steam and only lasted a few minutes. The motor was damaged by the fire but that is the extent of damages. No one was injured.

Aaron Strange will submit the C-141 for this incident on Monday. If you have any questions you can reach me at 575-703-5058

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Friday, June 03, 2011 11:31 AM
To: Moore, Darrell; Strange, Aaron
Cc: Cobrain, Dave, NMENV; Tsinnajinnie, Leona, NMENV; Lackey, Johnny; Chavez, Carl J, EMNRD
Subject: additoinal info_spills
Attachments: Item 1 NRC resp 12-21-09.pdf; Item 2-January releases_Fires 1-19-10.pdf

Darrell and Aaron

NMED is awaiting additional information for past spills. I have included the information below. Please let me know the status on these items and when the additional information will be sent.

1-C-141 form dated 12/17/09 (diesel spill near Tank 834 sump. See item 1 PDF – submit additional information (analytical results, soil volume removed etc).

2- C-141 -1-10-10 Fire at API Lift Station (see item 2 PDF and provide the required information in the fifth paragraph).
2-C-141 form 1-10-10 T-863 ABT (see item 2 PDF and provide the required information in the last paragraph).

Let me know if you have any questions.

Hope

Hope Monzeglio Petrie
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

emailsignature_html

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, December 21, 2009 10:48 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo
Hope,

The release that occurred on 12/17/09 at the Tank 834 sump was caused by a drain valve that was left open. The drain valve is off of the Diesel Coalescer and drains to the sump located within the Tank 834 berm. The sump overflowed due to the open drain valve. We are still cleaning up the contaminated soil and do not yet know how much contaminated soil we will have. I will collect bottom hole/confirmation samples from within the tank berm once the contaminated soil is removed. I will let you know how much soil we remove and also send test results to you.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, December 21, 2009 9:37 AM
To: Strange, Aaron
Subject: FW: Navajo

Aaron

My response below is for the 12-17-09 diesel spill and not the 10-8-09 spill at the S. Bundle Cleaning Pad. I included this response on the wrong email.

Hope

From: Monzeglio, Hope, NMENV
Sent: Monday, December 21, 2009 8:25 AM
To: 'Strange, Aaron'; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo

Aaron

Please clarify the cause of the release, the C-141 form and Darrell's email on 12/18/09 indicate the Shift Foreman thought the problem was associated with the diesel coalescer; was this the case or was it something else? How much soil was removed and put in the roll-off bin and were any soil confirmation samples collected from within the tank berm?

Thanks
Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 5:02 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: RE: Navajo

Hope and Carl,

In response to the letter below, I have attached the Bottom Hole sample results. So fare we have shipped 49,000 pound of contaminated soil (F037) as hazardous waste to RINCO. However, there is still some more soil per the Bottom Hole samples that

must be removed. More Bottom Hole samples will be taken and submitted to you along with the amount of the other soil that we ship out.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

Regardless of how the contaminated soil is disposed, the Permittee must collect a representative number of discrete confirmation samples from the locations where the contaminated soil was removed. The discrete confirmation soil samples must be analyzed for GRO, diesel range organics (DRO), and RCRA metals. If GRO is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060

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hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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Monzeglio, Hope, NMENV

From: Monzeglio, Hope, NMENV
Sent: Tuesday, January 19, 2010 3:42 PM
To: 'Strange, Aaron'
Cc: Cobrain, Dave, NMENV; Moore, Darrell; Lackey, Johnny; Chavez, Carl J, EMNRD
Subject: January releases/fires

Aaron

I just want to clarify some information about the various fires and spill at the refinery over the past week. I have received through e-mail four C-141 forms pertaining to three fires and one spill. I also received a voice message from you pertaining to another fire at pump 178 west of the crude unit. You have not submitted the C-141 form yet for the fire at pump 178, correct?

As I have mentioned before, please refer to the Post-Closure Care Permit (Permit) for the oral and written reporting requirements found in Section 1.5.13 (Twenty-four Hour Reporting); the Permit can be found using the following link: http://www.nmenv.state.nm.us/hwb/nrc/Final_NRC_PCC_Permit.pdf.

The C-141 forms need to be more detailed or additional information must be included in the email to NMED to provide more details for the release (e.g., include a figure, if appropriate, to show the location of the release and the areas covered by the release/spill, explain how was the spill contained and cleaned up, identify how much soil was removed if any, and where is the soil is being stored, indicate if the 90-day storage requirements apply, explain how Navajo determined the volume of the release and how much was recovered etc).

I have the following comments relating to these spills:

C-141 form - 1-10-10 Fire at the API lift station. Was there any disruption to the API separator? Prior to the fire, were there any fluids in the API Sump that the dry chemicals and foam blanket would have mixed with? Please provide me a figure showing the location of the Waste Water Treater Unit #80.

C-141 form 1-10-10 T-863 ABT - please demonstrate to NMED that the wastewater that overflowed was not hazardous and had completed treatment; did treatment meet the required retention time? The C-141 states that the "Tank had been sparged and the benzene level was zero;" please explain what you mean by the statement the benzene level was zero and how was this determined? Provide a figure that shows the area that the release covered. Explain how Navajo determined the volume of the release and the amount recovered. Please keep NMED informed of any sampling and analytical testing that may result.

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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 (gas-oil)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Base of pump P-2111 in the Vacuum Unit.	Date and Hour of Occurrence: 05/26/2011 ~ 21:45	Date and Hour of Discovery: 05/26/2011 ~ 21:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chaves with the OCD Santa Fe Office 505-476-3490, spoke to Richard Inge with the OCD Artesia Office (575-748-1283 ext. 104), left voicemail for Hope Monzeglio with the NMED Haz Waste Bureau (505-476-6000)	
By Whom? Doug Price	Date and Hour: 05/27/2011 at ~06:27 to Santa Fe OCD, 05/27/2011 at ~06:30 to Artesia OCD, and, 05/27/2011 at ~06:33 to NMED Haz Waste Bureau.	
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 05/26/2011 at ~ 21:45 a small fire was on the top of P-3405 case. The fire was caused by the failure of the case gasket (during the pump warm-up mode) which leaked gas-oil. Operations personnel extinguished the fire in less than a minute with steam and isolated the pump. The pump has been sent out for disassembly to investigate why it leaked.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the case gasket at P-3405 in the Mild Hydrocracker (Unit 34). The gas-oil that leaked from the case gasket was contained on the concrete pad of the Mild Hydrocracker Unit. Nothing spilled onto the ground. There were no injuries and no damages 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:	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: 05/31/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, May 19, 2011 1:50 PM
To: Monzeglio, Hope, NMENV
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: RE: Product in MW-34

NCL-34.....which is just east of Tk 815

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, May 19, 2011 1:48 PM
To: Moore, Darrell
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: RE: Product in MW-34

Darrell

Thank you for the update. One other question, was the product found in MW-34 or NCL-34?

Thank you.

Hope

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Thursday, May 19, 2011 1:35 PM
To: Monzeglio, Hope, NMENV
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: RE: Product in MW-34

Hope,

We're going to install 3 borings between RW-7 and Tanks 834 and 838 to try to see if there's something going on there that could be pushing product from RW-7 toward the north. We are going to use the sampling intervals and laboratory plans that we've used for investigations in the area to use as the sampling/analysis protocol. That way the data should be consistent and acceptable to NMED.

My scanner is down right now but I am trying to get a map of the area to you. Hopefully in the next few minutes.

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, May 19, 2011 9:49 AM
To: Moore, Darrell
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Product in MW-34

Darrell

I have attached an email you sent May 13 indicating product was discovered in MW-34 and that Navajo was going to do some drilling to delineate the area. I am not sure if Navajo has conducted this work yet? Please email us a map of the

area in which you plan on delineating, indicate if you plan on collecting soil samples, if so, what analytical methods will be utilized. If you want, give us a call to discuss this. NMED wants to make sure that you do not have to go back out and collect additional information.

Let me know if you have any questions.

Thanks

Hope

Hope Monzeglio Petrie
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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attachments. Unless expressly stated, nothing contained in this message should be construed as a digital or electronic signature or a commitment to a binding agreement.

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Tuesday, May 03, 2011 9:35 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Lackey, Johnny; Strange, Aaron
Subject: Tank 410 Leak
Attachments: C-141 Form.pdf

Carl and Hope

We recently discovered an asphalt leak from TK 410 here at the refinery. During routine inspection of the tank, holes were discovered in the floor. We have no way of knowing how much asphalt escaped but asphalt will harden and seal once it gets outside the heated tank. Because of this property of asphalt, we feel that very little product could have escaped and the impact from this spill would be negligible.

Ive attached a C-141 for this spill. To actually clean up the spill at this time would require removing the tank which we feel would be overkill for an asphalt release. The material will not migrate once it hardens.

For your information, Tank 410 is in the South Plant just east of the South Plant ROSE Unit.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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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

x Initial Report ☐ Final Report

Name of Company Navajo Refining Company	Contact Darrell Moore
Address 501 E Main Artesia, NM	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 Asphalt	Volume of Release Unknown	Volume Recovered None
Source of Release Tank 410	Date and Hour of Occurrence Unknown	Date and Hour of Discovery April 29, 2011
Was Immediate Notice Given? ☐ Yes x No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes x No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
During routine inspection of Tank 410, holes were discovered in the floor of the tank. The floor will be replaced by adding gravel over the current floor and then welding a new steel floor into place. The old floor will be left in place.

Describe Area Affected and Cleanup Action Taken.*
Area affected is under Tank 410. We have no idea how much asphalt has leaked but once it leaks out and hardens it should have sealed the area. There is no way to dig up the spill without destroying the tank. There were no outward indications of the leak (ie product surfacing around the tank).

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	Approval Date:	Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: May 3, 2011 Phone: 575-748-3311		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, May 02, 2011 3:29 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 for the 2011-01-11 Frac Tank Diesel Spill
Attachments: 2011-01-11 Spill Frac Tank West of D-81 Final Report.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached Final C-141 and analytical results for the 2011-01-11 Frac Tank Diesel Spill.

Thank you,
Aaron Strange

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Energy Minerals and Natural Resources

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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: ~ 124 barrels	Volume Recovered: 120 barrels
Source of Release: Frac tank west of D-81.	Date and Hour of Occurrence: 01/11/2011 ~ 23:50	Date and Hour of Discovery: 01/11/2011 ~ 23:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom?, Left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with Randy Dade at the OCD Artesia Office (575-748-1283), and left a voicemail with the NMED Haz Waste Bureau (505-476-6000).	
By Whom? Johnny Lackey	Date and Hour: 01/12/2011 at ~01:21 to OCD Santa Fe, 01/12/2011 at ~01:25 to the OCD Artesia office, and 01/12/2011 at ~01:29 to NMED Haz Waste Bureau.	
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 01/11/2010 at ~ 23:50 the Relief Valve off of D-81 opened and released (Diesel) into the Frac tank west of D-81. The Frac tank filled up and overflowed into the bermed area around the Frac tank. The bermed area then filled up and a small volume (~1barrel) overflowed to the south of the Frac tank. When the spill was noticed operations started Pump P-15/16 to lower the pressure on D-81. It is suspected that the Relief Valve opened while swapping Tanks T-838 and T-835.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the bermed area around and under the Frac tank west of D-81 and a small area outside the bermed to the south. A vacuum truck was used to remove the standing liquid and the contaminated soil has been removed for disposal as non-hazardous waste. A bottom hole sample was collected and tested for DRO. The attached analytical show the DRO to be ND (Not Detected at the Reporting Limit).

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: 05/02/2011 Phone: 575-703-5057		

ALS Environmental

18-Apr-2011

Aaron Strange
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-3311
Fax: (575) 746-5421

Re: BH Sample

Work Order: **1104315**

Dear Aaron,

ALS Environmental received 2 samples on 09-Apr-2011 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 8.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jay Lynn F Thibault

Electronically approved by: Makenzie L. Henderson

JayLynn F Thibault
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-09A-TX

Client: Navajo Refining Company
Project: BH Sample
Work Order: 1104315

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104315-01	Frac Tank Diesel Spill	Soil		4/8/2011 13:41	4/9/2011 09:15	☐
1104315-02	Trip Blank	Water		4/8/2011	4/9/2011 09:15	☑

ALS Environmental

Date: *18-Apr-11*

Client:	Navajo Refining Company		
Project:	BH Sample	**Work Order:**	1104315
Sample ID:	Frac Tank Diesel Spill	**Lab ID:**	1104315-01
Collection Date:	4/8/2011 01:41 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **4/11/2011**	Analyst: **KMB**
TPH (Diesel Range)	ND		1.7	mg/Kg	1	4/15/2011 04:36 PM
Surr: 2-Fluorobiphenyl	*90.9*		*70-130*	*%REC*	1	4/15/2011 04:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Apr-11

Client: Navajo Refining Company

Work Order: 1104315

Project: BH Sample

QC BATCH REPORT

Batch ID: **51460** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-110411-51460** Units: **mg/Kg** Analysis Date: **4/15/2011 01:22 PM**

Client ID: Run ID: **FID-8_110415A** SeqNo: **2351037** Prep Date: **4/11/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
Surr: 2-Fluorobiphenyl	*3.355*	0.10	*3.33*	0	*101*	*70-130*	0			

LCS Sample ID: **FLCSS1-110411-51460** Units: **mg/Kg** Analysis Date: **4/15/2011 01:41 PM**

Client ID: Run ID: **FID-8_110415A** SeqNo: **2351038** Prep Date: **4/11/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.54	1.7	33.33	0	116	70-130	0			
Surr: 2-Fluorobiphenyl	*3.645*	0.10	*3.33*	0	*109*	*70-130*	0			

MS Sample ID: **1104220-01CMS** Units: **mg/Kg** Analysis Date: **4/15/2011 02:20 PM**

Client ID: Run ID: **FID-8_110415A** SeqNo: **2351040** Prep Date: **4/11/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	41.25	1.7	33.25	2.179	117	70-130	0			
Surr: 2-Fluorobiphenyl	*3.558*	0.10	*3.322*	0	*107*	*70-130*	0			

MSD Sample ID: **1104220-01CMSD** Units: **mg/Kg** Analysis Date: **4/15/2011 02:39 PM**

Client ID: Run ID: **FID-8_110415A** SeqNo: **2351041** Prep Date: **4/11/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.18	1.7	33.27	2.179	90.2	70-130	41.25	24.7	30	
Surr: 2-Fluorobiphenyl	*2.715*	0.10	*3.324*	0	*81.7*	*70-130*	3.558	*26.9*	*30*	

The following samples were analyzed in this batch: 1104315-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:	Navajo Refining Company
Project:	BH Sample
WorkOrder:	**1104315**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/Kg	Milligrams per Kilogram

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

1104315

NAVAJO REFINING: Holly Energy Partners

Project: BH Sample

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	BH Sample	A	TPH with VOC
Work Order		Project Number		B	
Company Name	Navajo Refining Co.	Bill To Company		C	
Send Report To	Aaron Strange	Invoice Attn		D	
Address	501 E Main	Address		E	
				F	
City/State/Zip	Artesia NM 88210	City/State/Zip		G	
Phone	(575) 748-3311	Phone		H	
Fax	(575) 746-5451	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	Frac Tank Diesel Spill	4-8-11	1341	S	NO	1	X										
2	Trip Blank																
3	Temp Blank																
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ Other _____
☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: Aaron Strange	Date: 4-8-11	Time: 1615	Received by:	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory): 4/9/11 0915	Cooler ID / Cooler Temp
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	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.

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ALS Environmental

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 09-Apr-11 09:15

Work Order: 1104315

Received by: RDH

Checklist completed by Rebecca D. Harris (eSignature) 09-Apr-11 (Date)

Reviewed by: Jay Lynn F Thibault (eSignature) 12-Apr-11 (Date)

Matrices: soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.8c	002	
Cooler(s)/Kit(s):	3379		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

1104315

ORIGIN ID: ROWA
NAVAJO ARTESIA
501 E MAIN
ARTESIA , NM 882109440
UNITED STATES US

Ship Date: 08APR11
ActWgt: 30.0 LB MAN
CAD: 634483/CAFE2472

TO (281) 530-5656
ALS LABORATORY GROUP
10450 STANCLIFF RD., SUITE 210
HOUSTON, TX 77099 (US)

FedEx Express

Trk# 4347 1019 1739

PRIORITY OVERNIGHT

10450 STANCLIFF RD., SUITE 210

Part # 156149-434 RIT2 05/10

PLACE THIS LABEL ON PACKAGE
NEXT TO THE SHIPPING LABEL

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ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 4-
Name: A
Company:

CUSTODY SEAL
8-11 Time: 1615
Seal Broken By:
Date: 4/8/11

Chavez, Carl J, EMNRD

From: Jones, Brad A., EMNRD
Sent: Tuesday, April 26, 2011 10:02 AM
To: Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD
Subject: Emailing: AP News Fire Put Navajo Refinery at Risk.htm

AP Associated Press

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Fire Put Navajo Refinery at Risk

ALBUQUERQUE JOURNAL

Published: Yesterday

LOVINGTON -- A fast-moving grass fire burning in southeastern New Mexico came close enough to threaten part of the Navajo Refinery near Lovington.

A spokesman for Dallas-based Holly Corp., which owns the refiner and another by the same name in Artesia, said the Lovington location was "clear of hazard" by midafternoon.

Authorities say the wind-driven fire broke out Monday morning near Lovington. It has jumped two state highways and has charred an estimated 25,000 acres of private and state land.

State Forestry spokesman Dan Ware said firefighters are trying to the stop the blaze at N.M. 18. If the flames jump that road, several more structures could be threatened.

Ware said N.M. 238, 483 and 18 were closed.

The fire was about 17 miles long and 3 miles wide Monday.

Firefighting efforts were being hampered by low humidity and gusting winds.

Elsewhere, near Queen, about 40 miles southwest of Carlsbad, authorities evacuated two structures near where a wind-driven fire had burned 10,000 acres.

The fire broke out Sunday near a forest road five miles west of Queen in an area of grass, brush and piñon trees.

Fire officials said the blaze was threatening three structures, and two were evacuated. The cause is under investigation.

The fire was burning in steep, rocky and inaccessible terrain in the Guadalupe Mountains of the Lincoln National Forest and had burned onto Bureau of Land Management land as well as state and private land.

Firefighters also attacked the blaze from the air most of Sunday, but officials said extremely gusty conditions made their efforts unsuccessful.

Winds gusted up to 55 mph.

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, April 20, 2011 12:57 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141
Attachments: 2011-04-13 Fire South Plant.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141.

Thank you,
Aaron Strange

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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 (asphalt bottoms)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Base of pump P-2111 in the Vacuum Unit.	Date and Hour of Occurrence: 04/13/2011 ~ 11:30	Date and Hour of Discovery: 04/13/2011 ~ 11:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chaves with the OCD Santa Fe Office 505-476-3490, left voicemail with the OCD Artesia Office (575-748-1283 ext. 104), left voicemail with the NMED Haz Waste Bureau (505-476-6000)	
By Whom? Doug Price	Date and Hour: 04/13/2011 at ~11:35 to Santa Fe OCD, 04/13/2011 at ~11:37 to Artesia OCD, and, 04/13/2011 at ~11:39 to NMED Haz Waste Bureau.	
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 04/13/2011 at ~ 11:30 a small fire was found on the pump base of P-2111. The fire was caused by the failure of the pump seal which leaked asphalt bottoms onto the pump base. An internal failure of pump components caused the seal to fail. Operations personnel extinguished the fire with dry chemicals and isolated the pump.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the base of the pump P-2111 in the Vacuum Unit (unit 21). The asphalt bottoms that leaked from the pump seal were contained within the base of the pump. Nothing spilled onto the ground. There were no injuries and no damages 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: 04/20/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Friday, April 01, 2011 8:14 AM
To: Chavez, Carl J, EMNRD
Subject: FW: Frac Tank Spill form 1/11/2011
Attachments: Frac Tank Spill 005.jpg; Frac Tank Spill 006.jpg; Frac Tank Spill 007.jpg; Frac Tank Spill 001.jpg; Frac Tank Spill 002.jpg; Frac Tank Spill 003.jpg; Frac Tank Spill 004.jpg; 2011-03-31 Spill Letter to Hope.pdf

FYI

NMED had requested additional information.

Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Thursday, March 31, 2011 5:00 PM
To: Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: Frac Tank Spill form 1/11/2011

Hello Hope,

Please see the attached letter and photos regarding the Frac tank spill form 1/11/2011. Please let me know if you need a hard copy mailed to you.

Sincerely,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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attachments. Unless expressly stated, nothing contained in this message should be construed as a digital or electronic signature or a commitment to a binding agreement.

March 31, 2011

Hope Monzeglio Petrie
New Mexico Environment Dept.
Hazardous Waste Bureau
2905 Rodeo Park Drive E., BLDG 1
Santa Fe, NM 87505

RE: Frac Tank Spill on 1/11/2011

Dear Hope Monzeglio Petrie,

This letter is written in response to your email on 1/18/2011 where you requested a copy of the analytical data sampled from the cleanup of the Frac tank that overflowed and spilled diesel onto the ground. The clean up has been delayed several times due to uncontrolled events. Navajo experienced a power outage, and extremely low temperatures that adversely affected the Navajo refinery. Also, the Frac tank has been in active service making it difficult to remove the tank so that the contaminated soil could be removed. Navajo ended up bringing in another frac tank and piping it to the process so that the other tank could be removed. On 3/31/11 we removed enough soil that we think we can get a clean bottom hole sample. However, we will not have the analytical results by the April 1, 2011 deadline stated in your email. We will keep you informed on the cleanup and send you the analytical results as soon as we can.

I have also enclosed the latest photos of the cleanup.

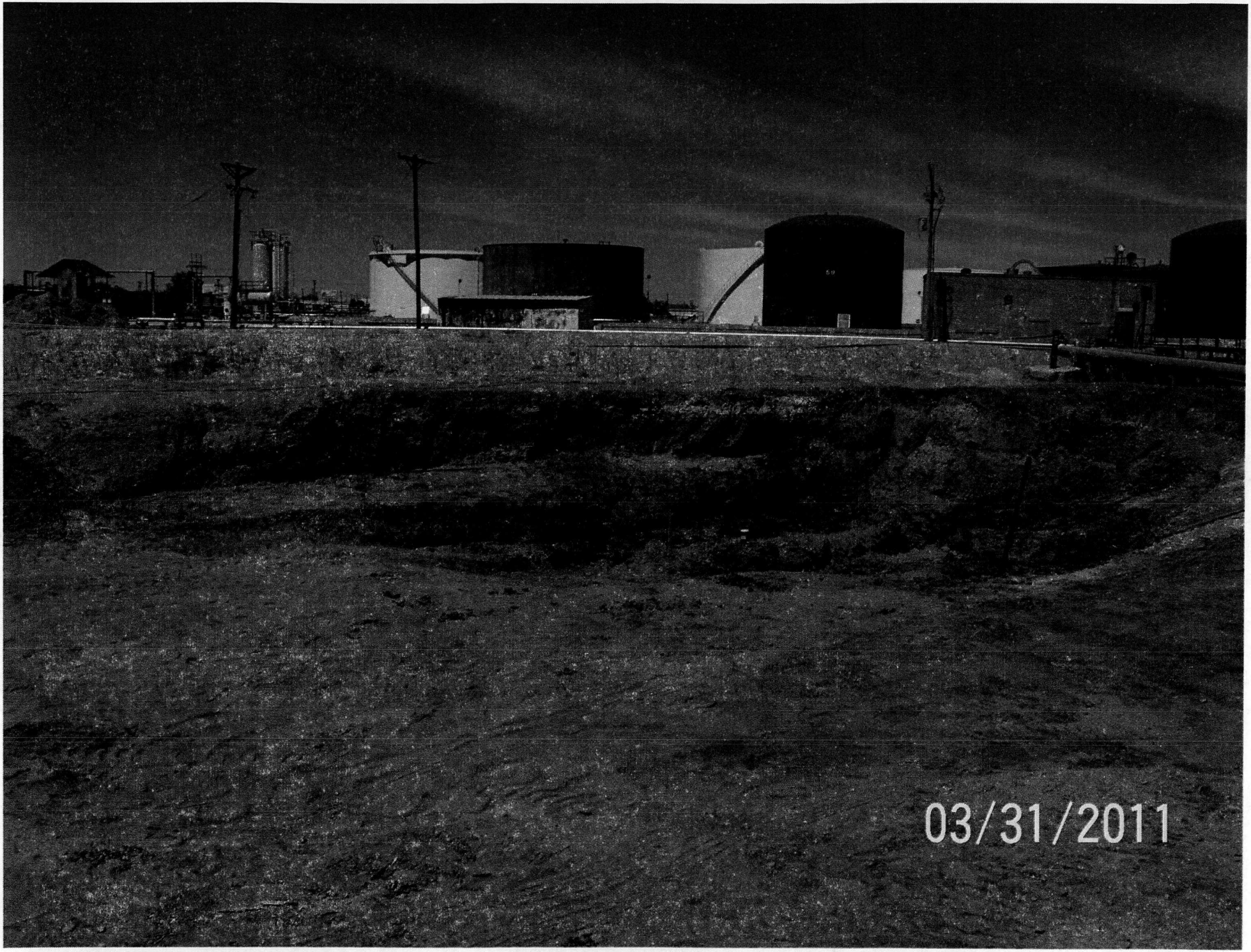
If there are any questions concerning this submittal, please call me at 575-748-3311or by email at aaron.strange@hollycorp.com.

Sincerely,
NAVAJO REFINING COMPANY, LLC

Aaron Strange
Sr. Environmental Technician

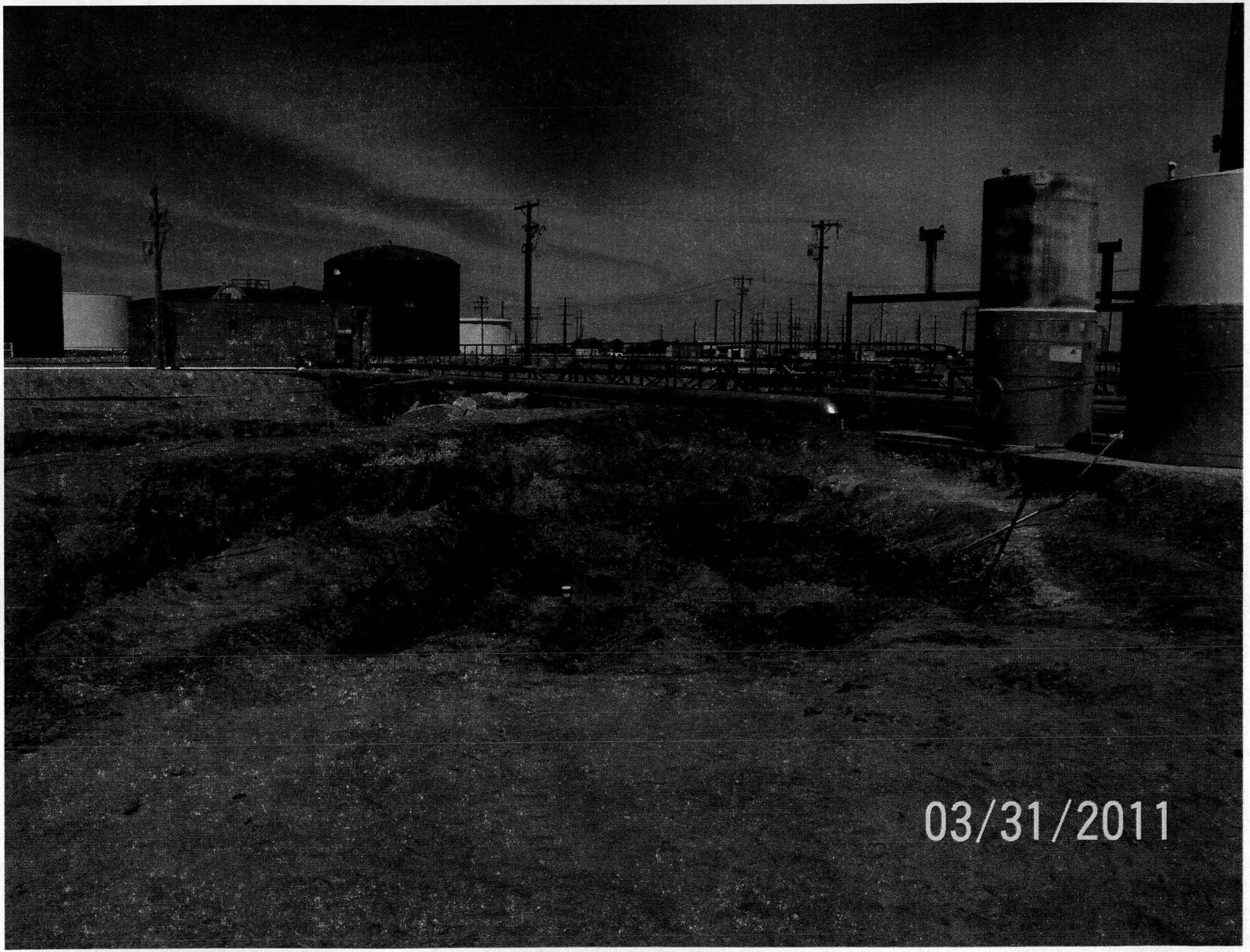
Encl.

03/31/2011


03/31/2011

03/31/2011

03/31/2011


03/31/2011

03/31/2011

03/31/2011

03/31/2011

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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

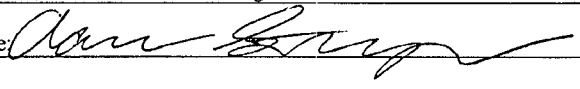
Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: ~25 barrels	Volume Recovered: ~20 barrels
Source of Release: 1-1/2" X 2" swedge	Date and Hour of Occurrence: 03/17/2011 ~16:45	Date and Hour of Discovery: 03/17/2011 ~ 16:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD Artesia Office (575-748-1283 ext. 104), and left a voicemail with the NMED Haz Waste Bureau (505-476-6000).	
By Whom? Gabriela Combs	Date and Hour: 03/17/2011 at ~17:45 to the OCD Santa Fe office, 03/17/2011 at ~17:47 to OCD Artesia office, and 03/17/2011 at ~17:51 to NMED Haz Waste Bureau.	
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 03/17/2011 at ~16:45 treated waste water that was being pumped from frac tanks into Gaines well with a reverse unit started to spray form a 1-1/2" X 2" swedge. The S & B operator (operating the reverse unit) called the control room and the well pumps in the plant were shut down. The S & B Operator then shut down the reverse unit then isolated the 1-1/2" valve to pipeline to stop the leak. The swedge broke due to the weight of the hoses, connections, and vibration. The swedge was replaced with an extra heavy swedge and the line was hard piped to the ground to remove the weight from the nipple. The pipe was braced to prevent the vibrations from breaking the sewdge.

Describe Area Affected and Cleanup Action Taken.*
The area affected was an area ~100' by 30'. Approximately 20 barrels of standing water recovered with a vacuum truck. The remaining water evaporated and soaked into the soil. Samples of the affected area will be collected and tested for BTEX, Metals (totals), and Anions (Chlorides and Sulfates).

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: 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: 03/22/2011 Phone: 575-703-5057		

C-141 Notification (3/17/2011)

Navajo Refining Company- Artesia Refinery (GW-028):

Gabriela Combs of Navajo Refining Company called on 3/17/2011 17:45 to report treated waste water release from effluent line (line) to Gaines Disposal Well. The release was greater than 5 bbls. The line leaked along reducer where pipeline size decreased. The spill was contained and a vacuum truck had been contacted to remove fluids. A C-141 Form with more details will be submitted soon.

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, March 04, 2011 3:54 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141
Attachments: 2011-03-01 Fire Sulfur South Bundle Pad.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: Sulfur in D-292 Dip Leg on the South Bundle Cleaning Pad.	Date and Hour of Occurrence: 03/1/2011 ~ 16:35	Date and Hour of Discovery: 03/1/2011 ~ 16:35
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with the NMED Haz Waste Bureau (505-476-6000), left voicemail with the OCD Artesia Office (575-748-1283 ext. 104). Left a voicemail for Carl Chaves with the OCD Santa Fe Office 505-476-3490.	
By Whom? Doug Price	Date and Hour: 03/01/2011 at ~17:36 to NMED Haz Waste Bureau, 03/01/2011 at ~17:38 to Artesia OCD, and 03/01/2011 at ~17:41 to Santa Fe OCD.	
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 03/1/2011 at ~ 16:35 a small fire occurred in the Dip Leg of D-292 on the South Bundle Cleaning Pad. The Dip Leg was being steamed out overnight on the bundle cleaning pad when sulfur in it ignited and was burning from out of the dip leg. The small fire truck was used to put out the fire and the steam was turned off.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the South Bundle Cleaning Pad. There were no damages from the fire. There were no injuries and nothing spilled onto the ground. No cleanup was needed.

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: 03/04/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, February 23, 2011 9:58 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141
Attachments: 2011-02-13 Fire X-3031.JPG

Hope, Carl, Randy, and Buddy

Please see the attached C-141

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: Liquid Sulfur leak on Exchanger X-3101.	Date and Hour of Occurrence: 02/18/2011 ~ 00:45	Date and Hour of Discovery: 02/18/2011 ~ 00:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke to Randy Dade with the OCD Artesia Office 575-748-1283 ext. 102. Left a voicemail for Carl Chaves with the OCD Santa Fe Office 505-476-3490. Left voicemail for Hope Monzeglio with the NMED Haz Waste Bureau at 505-476-6000.	
By Whom? Aaron Strange	Date and Hour: 02/18/2011 at ~09:34 to Artesia OCD, 02/18/2011 at ~09:38 to Santa Fe OCD, and 02/18/2011 at ~09:41 to NMED Haz Waste Bureau.	
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 02/18/2011 at ~ 00:45 a small fire occurred on the insulating blanket on exchanger X-3101. A very small leak form the bottom of the plate on the exchanger leaked liquid sulfur onto the blanket where it then ignited. An operator put out the fire with water then placed steam on it to keep it form reigniting. The blanket was removed and the plate was tightened to stop the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the insulating blanket on exchanger X-3101. There were no damages except to the insulating blanket. There were no injuries and nothing spilled onto the ground. No cleanup was needed.

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: 02/23/2011 Phone: 575-703-5057	

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, February 18, 2011 4:51 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141
Attachments: 2011-02-13 Spill Waste Water Effluent.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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 ~N32°45'54.5" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells (~50 yards south of the leak from 01/28/2011).	Date and Hour of Occurrence: 02/13/2011 Unknown	Date and Hour of Discovery: 02/13/2011 ~ 09:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD Artesia Office (575-748-1283 ext. 104), and left a voicemail with the NMED Haz Waste Bureau (505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 02/13/2011 at ~09:32 to the OCD Santa Fe office, 02/13/2011 at ~09:33 to OCD Artesia office, and 02/13/2011 at ~09:36 to NMED Haz Waste Bureau.	
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 02/13/2011 at ~ 09:00 a leak was found between the Chukka and Gaines Injection Wells (approximately 50 yards south of the leak from 01/28/2011). The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells (approximately 50 yards south of the leak from 01/28/2011). The leak was excavated and the contaminated soil will be disposed of. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions.

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: 02/18/2011 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, February 15, 2011 4:38 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 report
Attachments: 2011-02-09 Fire From The Flare.pdf

Hope, Carl, Randy and Buddy,

Please see the attached C-141.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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District IV
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State of New Mexico
Energy Minerals and Natural Resources

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

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: North Plant flare (FL-400 from vent off of D-44).	Date and Hour of Occurrence: 02/09/2011 ~ 21:55	Date and Hour of Discovery: 02/09/2011 ~ 21:55
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chaves with the OCD Santa Fe Office 505-476-3490. Left voicemail with Hope Monzeglio of the NMED Haz Waste Bureau at 505-476-6000.	
By Whom? Aaron Strange	Date and Hour: 02/09/2011 at ~23:23 to Santa Fe OCD, and 02/09/2011 at ~23:26 to NMED Haz Waste Bureau.	
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 02/09/2011 at ~ 21:55 the North Plant flare carried over and caught the grass on fire around the base of the flare. D-44 filled with Isom feed and released to the flare. The high level alarm in the flare drum malfunctioned resulting in the carryover. Operations cut heater (H-9) fuel and opened up 106% on the Isom feed and reflux valves to bring the level down on D-44. The remaining liquid was then pumped out of the flare drum.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the grass around the base of the flare where the flare carried over and lit the grass on fire. The fire was put out with a handheld fire extinguisher and a shovel. There were no injuries or material damages. No cleanup was needed.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: 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: 02/15/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, February 14, 2011 3:45 PM
To: Chavez, Carl J, EMNRD; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 report
Attachments: 2011-01-29 Gas Oil Spill.pdf

Carl, Randy, and Buddy,

Please see the attached C-141

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Form C-141
Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 7406 South Main Lovington, N.M.	Telephone No. 575-748-3311
Facility Name: Lovington 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: Gas Oil	Volume of Release: ~ 37 barrels	Volume Recovered: ~ 35 barrels
Source of Release: HEP pump station at Lovington Refinery	Date and Hour of Occurrence: 01/29/2011 ~ 09:00	Date and Hour of Discovery: 01/29/2011 ~ 09:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), spoke to EL Gonzalez with the OCD Lovington Office (575-393-6161), and sent an email to City of Lovington.	
By Whom? Estefani Banuelos reported it to the OCD. Darrell Moore reported it to the City of Lovington.	Date and Hour: 01/29/2011 at ~09:50 to OCD Santa Fe office, 01/29/2011 at ~09:57 to the OCD Artesia office, and 01/29/2011 at ~10:18 to the City of Lovington.	
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 01/29/2010 at ~ 09:00 the Lovington HEP (Holly Energy Partners) pump station RV (Relief Valve) lifted and went into a sump. The sump filled and overflowed, spilling Gas Oil to the ground. The spill was caused by both a malfunctioning RV and a stuck float in the sump that triggers a high level alarm. The pipeline was shut down to stop the spill and make the necessary repairs.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the Lovington HEP pump station at the Lovington Refinery. A vacuum truck recovered ~ 37 barrels off the ground and placed it into the Light Slop Tank. The contaminated soil was removed and placed on plastic 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: 02/14/2011 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, February 11, 2011 5:01 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 report
Attachments: 2011-02-07 CCR Flange Fire.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Oil Conservation Division
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Form C-141
Revised October 10, 2003

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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: Inlet flange to D-352 in the CCR (Unit 70).	Date and Hour of Occurrence: 02/07/2011 ~ 13:30	Date and Hour of Discovery: 02/07/2011 ~ 13:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail for Carl Chaves with the OCD Santa Fe Office 505-476-3490. Left voicemail for Hope Monzeglio with the NMED Haz Waste Bureau at 505-476-6000.	
By Whom? Darrell Moore	Date and Hour: 02/07/2011 at ~15:20 to Santa Fe OCD, and 02/07/2011 at ~15:22 to NMED Haz Waste Bureau.	
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 02/07/2010 at ~ 13:30 a small fire occurred on the inlet flange to D-352. This is the inlet to the Reactor #1 in the CCR. The fire was extinguished by snuffing it with steam at ~13:40. The flange was clamped and steam was left on the leaking area. The unit pressure was lowered so that the clamp could be re-pumped with sealant which stopped the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the inlet flange to the Reactor #1 (D-352) in the CCR (Unit 70). There were no injuries or material damages and nothing spilled onto the ground. No cleanup was needed.

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: 02/11/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, February 04, 2011 2:06 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Strange, Aaron; Lackey, Johnny
Subject: Fire of 2/2/11
Attachments: C-141.pdf

Carl and Hope

Attached, please find the C-141 from the fire we reported on February 2, 2011

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Oil Conservation Division
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Form C-141
Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company Navajo Refining Company, LLC	Contact Darrell Moore
Address 501 E Main Artesia, NM 88210	Telephone No. 575-748-3311
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 Fire	Volume of Release N/A	Volume Recovered N/A
Source of Release Gasket Release on Heat Exchanger	Date and Hour of Occurrence 2/2/11 12:00 pm	Date and Hour of Discovery 2/2/11 12:00 pm
Was Immediate Notice Given? x☐ Yes ☐ No ☐ Not Required	If YES, To Whom? At 14:48 on 2/2/11 a voice message was left for Carl Chaves at OCD At 14:50 on 2/2/11 Bruce Horowitz was notified at NMED	
By Whom? Gabriela Combs	Date and Hour see above	
Was a Watercourse Reached? ☐ Yes x☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
At 12:00 on 2/3/11 D-8805 shift converter (a process drum) ruptured due to high pressure. Extremely cold weather outside coupled with high temperatures in the drum are believed to have caused the rupture. A fire briefly erupted but was put out by 12:04 pm.

Describe Area Affected and Cleanup Action Taken.*
Area affected was the D-8805 shift converter that that ruptured. There were no injuries to personnel and no other damage to equipment.

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: 2/4/11 Phone:		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, January 31, 2011 2:23 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD
Cc: Strange, Aaron; Lackey, Johnny
Subject: Effluent Line Leak 1/28/11
Attachments: 2010-12-03 Effluent Line Leak.doc; CIMG0077.jpg; CIMG0078.jpg; CIMG0079.jpg

Attached, please find the C-141 and associated photos for the effluent line leak we reported on 1/28/11.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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 ~N32°46'05.3" **Longitude** ~W104°13'42.9"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010).	Date and Hour of Occurrence: 12/03/2010 Unknown	Date and Hour of Discovery: 12/03/2010 ~ 14:10
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sent email to Carl Chavez from OCD in Santa Fe, and sent and email to Hope Monzeglio from the NMED Haz Waste Bureau.	
By Whom? Darrell Moore	Date and Hour: 12/03/2010 at ~14:26 to Carl Chavez (OCD Santa Fe), and 12/03/2010 at ~14:26 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

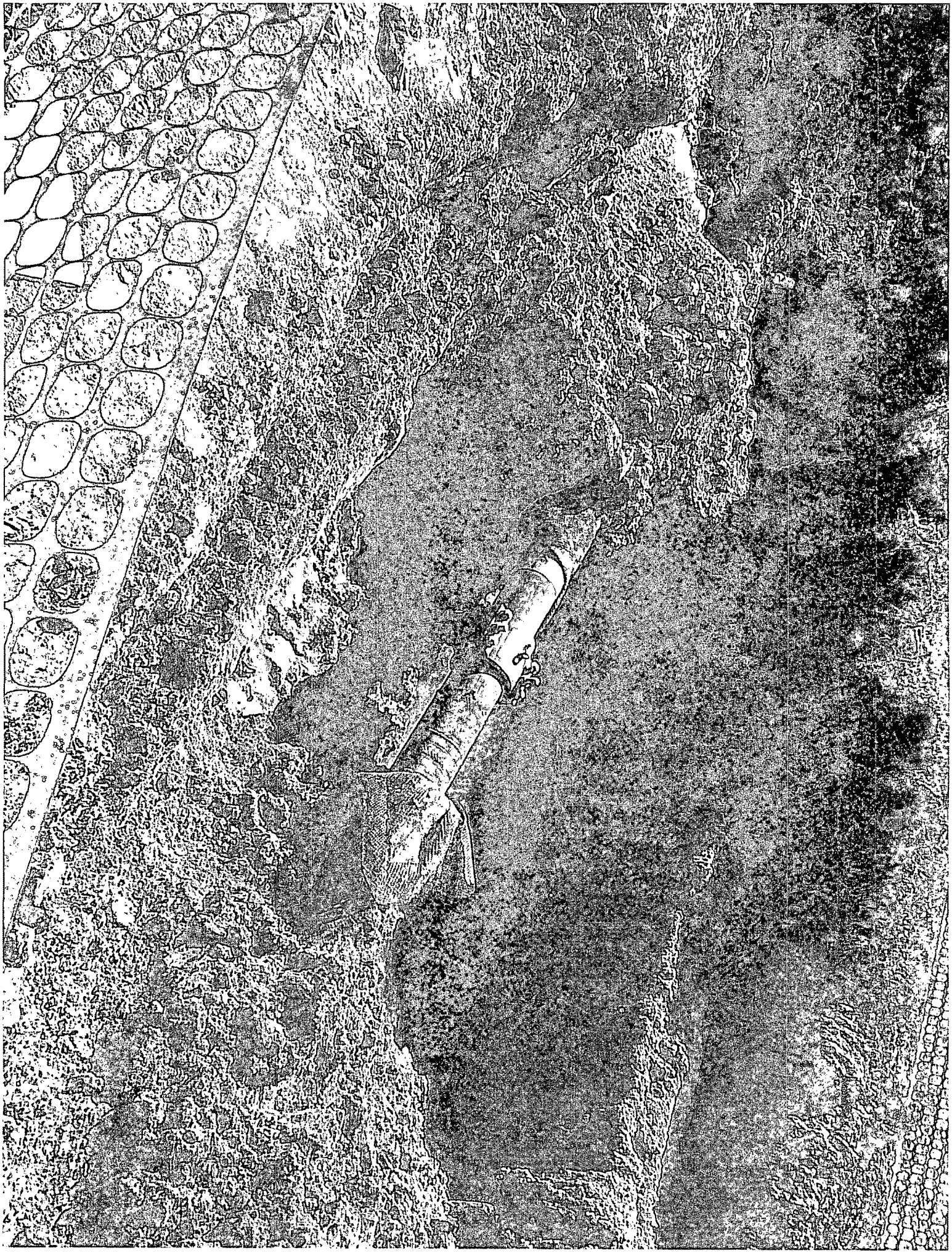
If a Watercourse was Impacted, Describe Fully.* NA

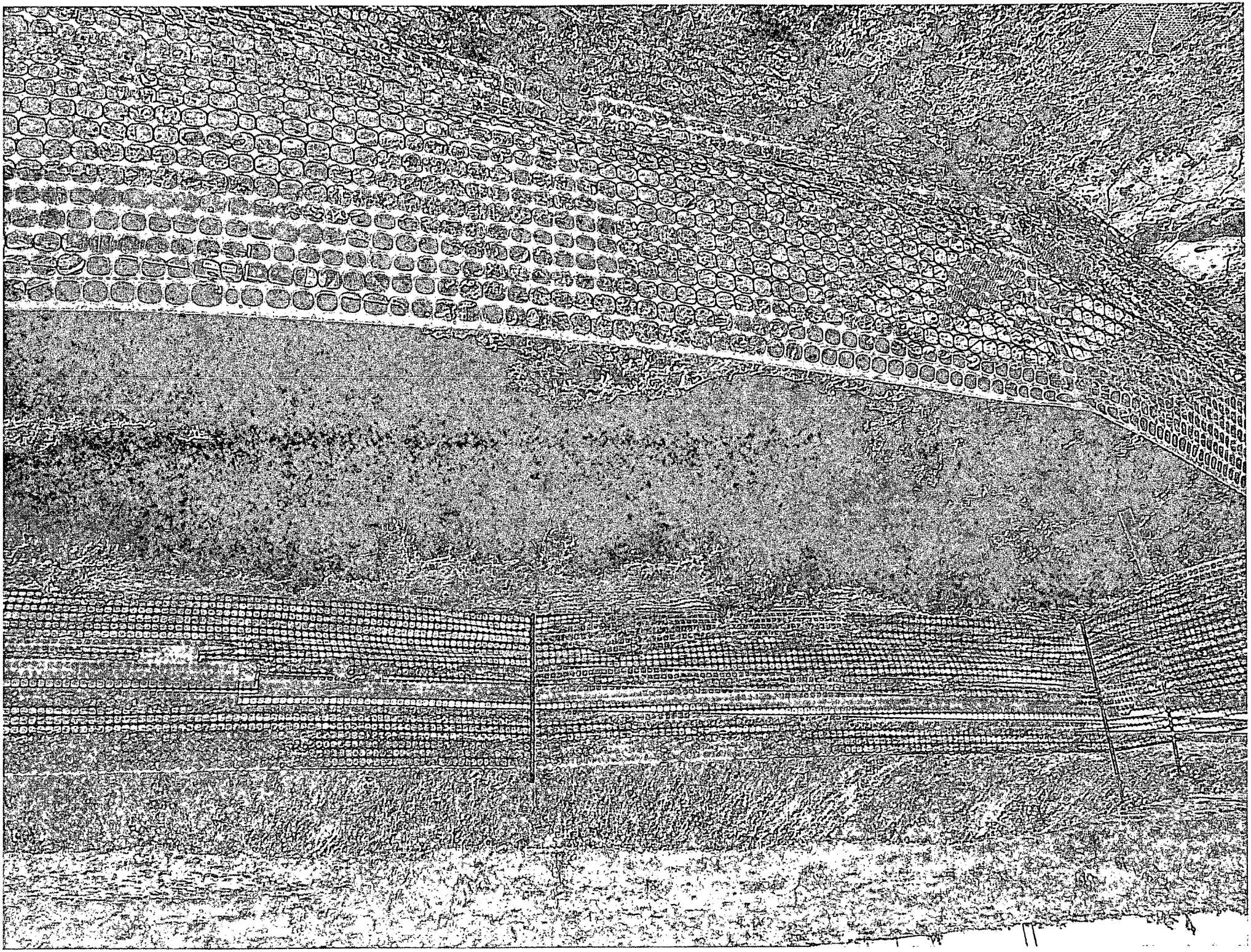
Describe Cause of Problem and Remedial Action Taken.*
On 12/03/2010 at ~ 14:26 a leak was found between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010). The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

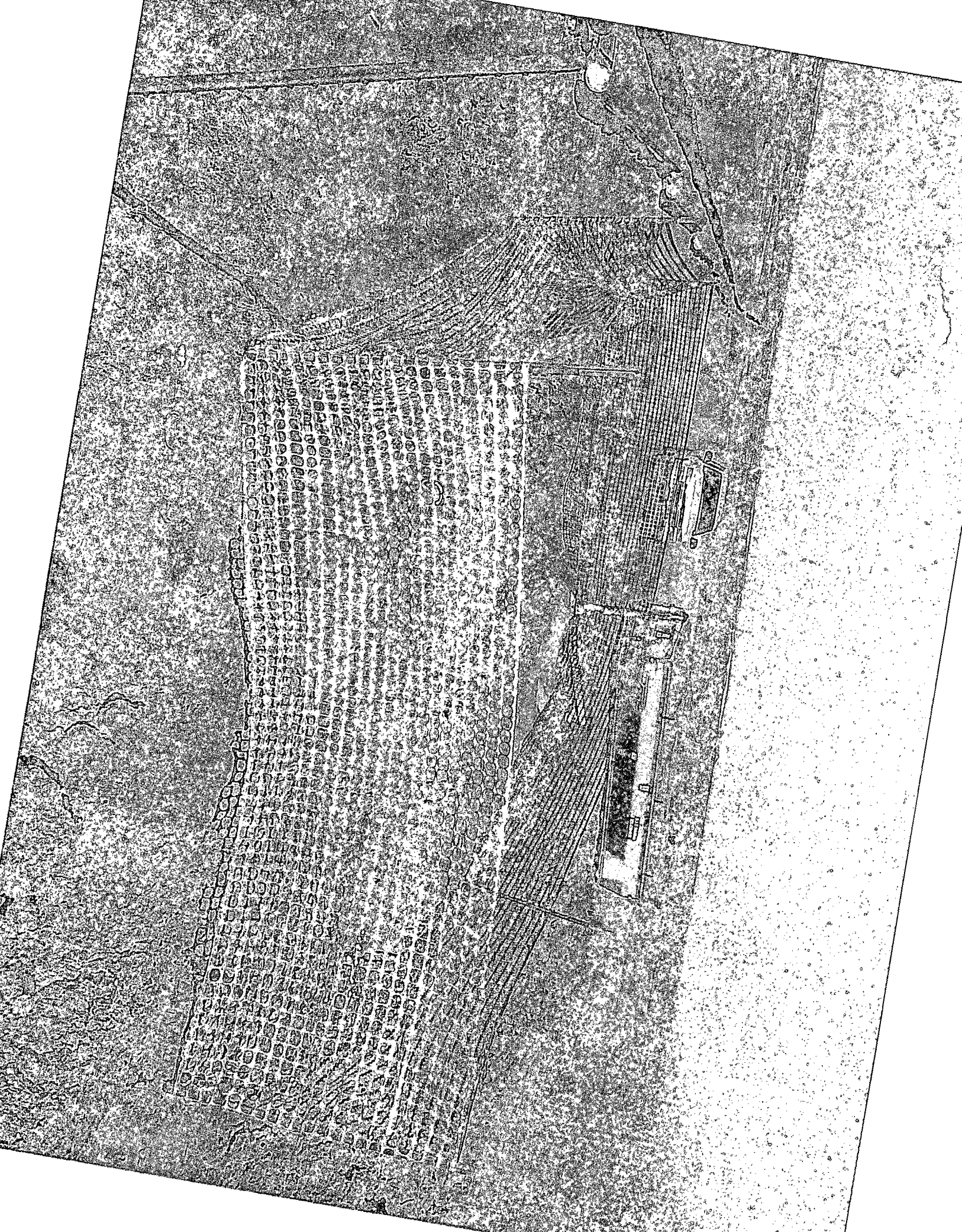
Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010) at ~ N32°46'05.3", W104°13'42.9". The leak was excavated to make repairs. The leak did not stain the soil; however Navajo will dispose of the excavated soil as non-hazardous waste. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: 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: 12/07/2010 Phone: 575-703-5057		







Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, January 28, 2011 6:04 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 report
Attachments: 2011-01-20 Fire Electrical Panel.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Revised October 10, 2003

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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 (electrical panel)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Electrical panel to Y-12 chemical pumps.	Date and Hour of Occurrence: 01/20/2011 ~ 14:00	Date and Hour of Discovery: 01/20/2011 ~ 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke to Carl Chaves with the OCD Santa Fe Office 505-476-3490. Left voicemail with OCD Artesia Office 575-748-1283. Left voicemail with Hope Monzeglio of the NMED Haz Waste Bureau at 505-476-6000.	
By Whom? Aaron Strange	Date and Hour: 01/20/2011 at ~16:17 to Santa Fe OCD, 01/20/2011 at ~16:30 to Artesia OCD, and 01/21/2011 at ~09:37 to NMED Haz Waste Bureau.	
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 01/20/2010 at ~ 14:00 a fire occurred at the electrical panel to the Cooling Tower Y-12 water treatment chemical pumps. Water from a steam condensate (water) leak above the panes had collected inside the electrical panel and had tripped the breaker. The panel was opened and water ran out. ID Red was sprayed on the panel to dry it out and displace the water. A spark from a breaker in the panel ignited the spray. The electrician backed away and a nearby hand held extinguisher was used to put out the fire. No one was injured and nothing spilled onto the ground except for water. Only the breakers and wiring inside the panel were damaged.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the electrical panel that goes to the Cooling Tower Y-12 water treatment chemical pumps. No one was injured and there was nothing spilled onto the ground except for water. No cleanup was needed other than the burnt electrical panel.

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: 01/28/2011 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, January 26, 2011 4:43 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 report
Attachments: 2011-01-19 Spill CBO.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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: CBO (Carbon Black Oil) Non-Hazardous	Volume of Release: ~ 272 barrels	Volume Recovered: 2 barrels
Source of Release: CBO Loading Rack (Railcar Loading Rack).	Date and Hour of Occurrence: 01/19/2011 ~ 20:15	Date and Hour of Discovery: 01/19/2011 ~ 20:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with the OCD Artesia Office (575-748-1283), left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), and left a voicemail with the NMED Haz Waste Bureau (505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 01/20/2011 at ~10:15 to OCD Artesia office, 01/20/2011 at ~10:19 to the OCD Santa Fe office, and 01/20/2011 at ~10:23 to NMED Haz Waste Bureau.	
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 01/19/2010 at ~ 21:00 CBO (Carbon Black Oil) overflowed a railcar and spilled onto the ground under the number 6 loading spout. At the end of filling a car, the operator stopped the pump to drain the loading spout but did not close the valve to the loading spout. The rail car was over filled and spilled CBO between two of the tracks. When the operator saw the car overflowing and the pump still running he shut down the pump and closed the loading spout valve.

Describe Area Affected and Cleanup Action Taken.*
The area affected was on, between, and to the sides of the two sets of tracks for the railcars below the CBO Loading Rack. The CBO cooled and thickened very quickly. Navajo tried to heat up the CBO with a steam coil, but only recovered 2 barrels with a vacuum truck. Navajo has been cleaning up the spill with backhoes and shovels. The CBO and the contaminated gravel and soil are being placed into roll-off bins and being disposed of as non-hazardous waste. This spill will be very difficult to clean since it is between the rails and we don't want to destabilize the rail.

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: 01/26/2011 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, January 17, 2011 3:40 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 report
Attachments: 2011-01-11 Spill Frac tank west of D-81.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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: ~ 124 barrels	Volume Recovered: 120 barrels
Source of Release: Frac tank west of D-81.	Date and Hour of Occurrence: 01/11/2011 ~ 23:50	Date and Hour of Discovery: 01/11/2011 ~ 23:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom?, Left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with Randy Dade at the OCD Artesia Office (575-748-1283), and left a voicemail with the NMED Haz Waste Bureau (505-476-6000).	
By Whom? Johnny Lackey	Date and Hour: 01/12/2011 at ~01:21 to OCD Santa Fe, 01/12/2011 at ~01:25 to the OCD Artesia office, and 01/12/2011 at ~01:29 to NMED Haz Waste Bureau.	
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 01/11/2010 at ~ 23:50 the Relief Valve off of D-81 opened and released (Diesel) into the Frac tank west of D-81. The Frac tank filled up and overflowed into the bermed area around the Frac tank. The bermed area then filled up and a small volume (~1barrel) overflowed to the south of the Frac tank. When the spill was noticed operations started Pump P-15/16 to lower the pressure on D-81. It is suspected that the Relief Valve opened while swapping Tanks T-838 and T-835.

Describe Area Affected and Cleanup Action Taken.*
The area affected is the bermed area around and under the Frac tank west of D-81 and a small area outside the bermed area to the south. Navajo used a vacuum truck to remove the standing liquid and is placing the contaminated soil into roll off bins as non-hazardous waste. After the soil is removed Navajo will collect bottom hole samples.

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: 01/17/2011 Phone: 575-703-5057		

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State of New Mexico
Energy Minerals and Natural Resources

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

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 (insulation)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Insulation on Tank T-410	Date and Hour of Occurrence: 12/10/2010 ~ 11:00	Date and Hour of Discovery: 12/10/2010 ~ 11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Artesia OCD 575-748-1283. Spoke with Carl Chavez (Santa Fe OCD at 505-476-3490). Left voicemail with Hope Monzeglio of the NMED Haz Waste Bureau at 505-476-6000.	
By Whom? Doug Price	Date and Hour: 12/10/2010 at ~11:50 to Artesia OCD, 12/10/2010 at ~11:53 to Santa Fe OCD, and 12/10/2010 at ~11:58 to NMED Haz Waste Bureau.	
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 12/10/2010 at ~ 14:50 the insulation on Tank T-410 began smoldering while cutting bolts of the clean-out hatch with a cutting torch. Water and a hand-held extinguisher were used to put out the fire. The job was finished using a saw instead of the cutting torch.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the insulation at the clean-out hatch on Tank T-410. There was no damage to anything other than the insulation. No one was injured. No cleanup was needed other than the insulation.

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: 12/22/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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State of New Mexico
Energy Minerals and Natural Resources

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

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 (insulation)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Insulation on piping going to T-814 (pitch tank).	Date and Hour of Occurrence: 12/14/2010 ~ 16:00	Date and Hour of Discovery: 12/14/2010 ~ 16:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD Santa Fe Office 505-476-3490. Left voicemail with OCD Artesia Office 575-748-1283. Left voicemail with Hope Monzeglio of the NMED Haz Waste Bureau at 505-476-6000.	
By Whom? Estefani Banuelos-Hammond	Date and Hour: 12/14/2010 at ~16:50 to Santa Fe OCD, 12/14/2010 at ~16:52 to Artesia OCD, and 12/14/2010 at ~16:58 to NMED Haz Waste Bureau.	
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 12/14/2010 at ~ 16:00 the insulation blanket on the piping going to Tank T-814 (pitch tank) ignited. Previous packing leaks on valves soaked the insulation on the fuel oil blend line. It is presumed that the heat form the rundown (pitch) combined with the hot oil heat tracing (500°F) caused the hydrocarbon in the insulation to ignite. The fire was extinguished with a hand-held extinguisher and steam. The surrounding insulation was removed. Navajo has replaced all the hydrocarbon soaked insulation in the area.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the insulation blanket, valves, and pipe on the piping going to Tank T-814 (pitch tank). This was approximately eight feet west of T-814 where the pipe leaves the pipe rack and goes to the tank. There was no damage to anything other than the insulation. No one was injured and nothing spilled onto the ground. No cleanup was needed other than the insulation.

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: 12/29/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, December 14, 2010 5:57 AM
To: 'Lackey, Johnny'; Moore, Darrell
Cc: Dade, Randy, EMNRD; VonGonten, Glenn, EMNRD; Strange, Aaron; Whatley, Michael; Sanchez, George; Cunningham, Mark; Monzeglio, Hope, NMENV
Subject: RE: Effluent Line Design Work Plan Submittal Date Request

Johnny, et al.:

OCD will consider this a "Minor Modification" to the discharge permit for the process line review process.

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")

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Monday, December 13, 2010 2:32 PM
To: Chavez, Carl J, EMNRD; Moore, Darrell
Cc: Dade, Randy, EMNRD; VonGonten, Glenn, EMNRD; Strange, Aaron; Whatley, Michael; Sanchez, George; Cunningham, Mark
Subject: RE: Effluent Line Design Work Plan Submittal Date Request

Carl:

Holly Energy Partners (HEP) is taking over project management for the effluent line replacement. I have asked for their project schedule, pipe design specifications and all drawings associated with the pipeline replacement. As soon as HEP provides the requested documentation, we will forward copies to you for OCD approval. I don't have a firm date that these will be available but would expect these no later than the end of January 2011.

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, December 07, 2010 6:27 AM

To: Moore, Darrell; Lackey, Johnny
Cc: Dade, Randy, EMNRD; VonGonten, Glenn, EMNRD; Strange, Aaron
Subject: Effluent Line Design Work Plan Submittal Date Request

Darrell and Johnny:

Good morning. The OCD continues to notice problems with leakage at various locations along the effluent line to the UIC Class I (NH) Wells. Navajo Refining Company (NRC) should provide GPS coordinates for all releases on the C-141 form.

OCD hereby requests the official submittal date to the OCD for the effluent line design work plan that NRC has indicated it wants to replace my March of 2011.

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")

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, December 08, 2010 8:04 AM
To: 'Strange, Aaron'; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny; VonGonten, Glenn, EMNRD
Subject: RE: C-141 Initial Report

Aaron:

Good morning.

OCD is in receipt of the e-mail with documentation of clamp emplacement and work associated with the effluent line releases.

OCD has requested the engineering design plan submittal date from NRC for the complete replacement of the effluent lines to the 3 UIC Class I (NH) Disposal Wells, which OCD has been informed NRC would like to replace by 3/2011. As we discussed early on in the initial effluent line leaks where we reviewed the quarterly monitoring reports (OCD Online GW-028) for effluent flowing through the line to identify the environmental magnitude of the releases to the environment and where they occur along the line transect, the effluent water is freshwater with the most immediate concern being elevated sulfate and of course monitoring shows that it is not characteristically hazardous. Navajo should continue to drive the lines 2x per day until the line is replace and continue documentation of cleanup and waste manifests until OCD can approve the engineering design work plan and the line is replaced. Any leakage near the Pecos, OCD and NMED shall be notified immediately!

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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Tuesday, December 07, 2010 4:40 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Initial Report

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 and photos for spill on 12/03/2010.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, December 07, 2010 5:03 PM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 initial report
Attachments: effluent leaks 035.jpg; effluent leaks 037.jpg; effluent leaks 038.jpg; effluent leaks 039.jpg

Attached is the other half of the photos for the event below.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Tuesday, December 07, 2010 4:59 PM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; randy.dade@state.nm.us; larry.hill@state.nm.us
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 initial report

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 and photos for spill on 12/02/2010. I will send a reply to this email with the other half of the photos.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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attachments. Unless expressly stated, nothing contained in this message should be construed as a digital or electronic signature or a commitment to a binding agreement.

LEGEND
GARMIN

12/02/2010

12/02/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, December 07, 2010 4:59 PM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 initial report
Attachments: 2010-12-02 Effluent Line Lead.pdf; effluent leaks 040.jpg; effluent leaks 041.jpg; effluent leaks 042.jpg; effluent leaks 036.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 and photos for spill on 12/02/2010. I will send a reply to this email with the other half of the photos.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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received this message in error, please advise the sender immediately by reply e-mail and do not retain any paper or electronic copies of this message or any
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1625 N. French Dr., Hobbs, NM 88240
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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 ~N32°46'48.8" **Longitude** ~W104°13'02.6"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak near the Mewbourne injection well (~ 40 yards East of CR204).	Date and Hour of Occurrence: 12/02/2010 Unknown	Date and Hour of Discovery: 12/02/2010 ~ 09:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sent email to Carl Chavez from OCD in Santa Fe, and sent and email to Hope Monzeglio from the NMED Haz Waste Bureau.	
By Whom? Darrell Moore	Date and Hour: 12/02/2010 at ~09:14 to Carl Chavez (OCD Santa Fe), and 12/02/2010 at ~09:14 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

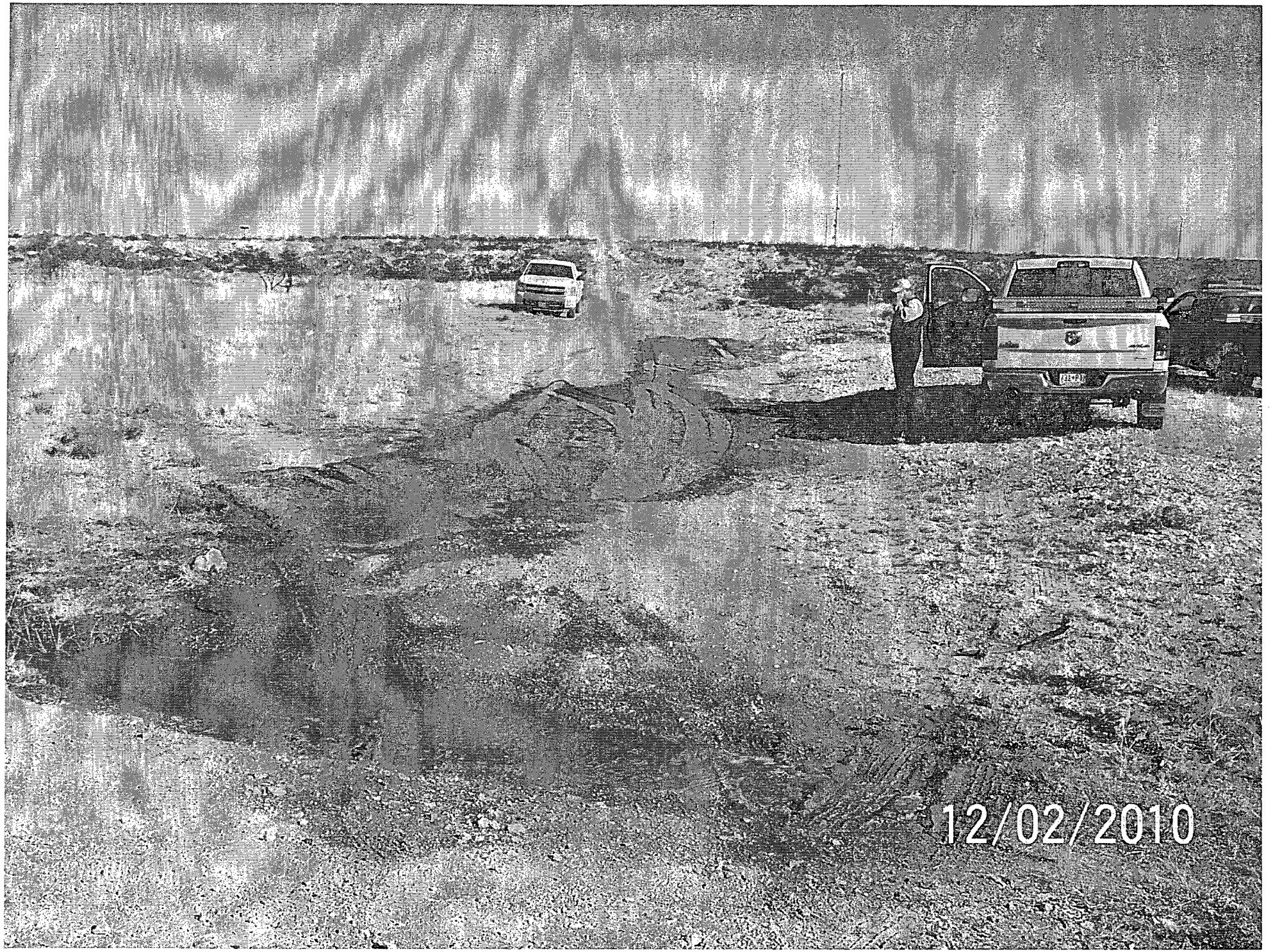
If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/02/2010 at ~ 09:00 a leak was found near the Mewbourne injection well (~ 40 yards East of CR204). The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

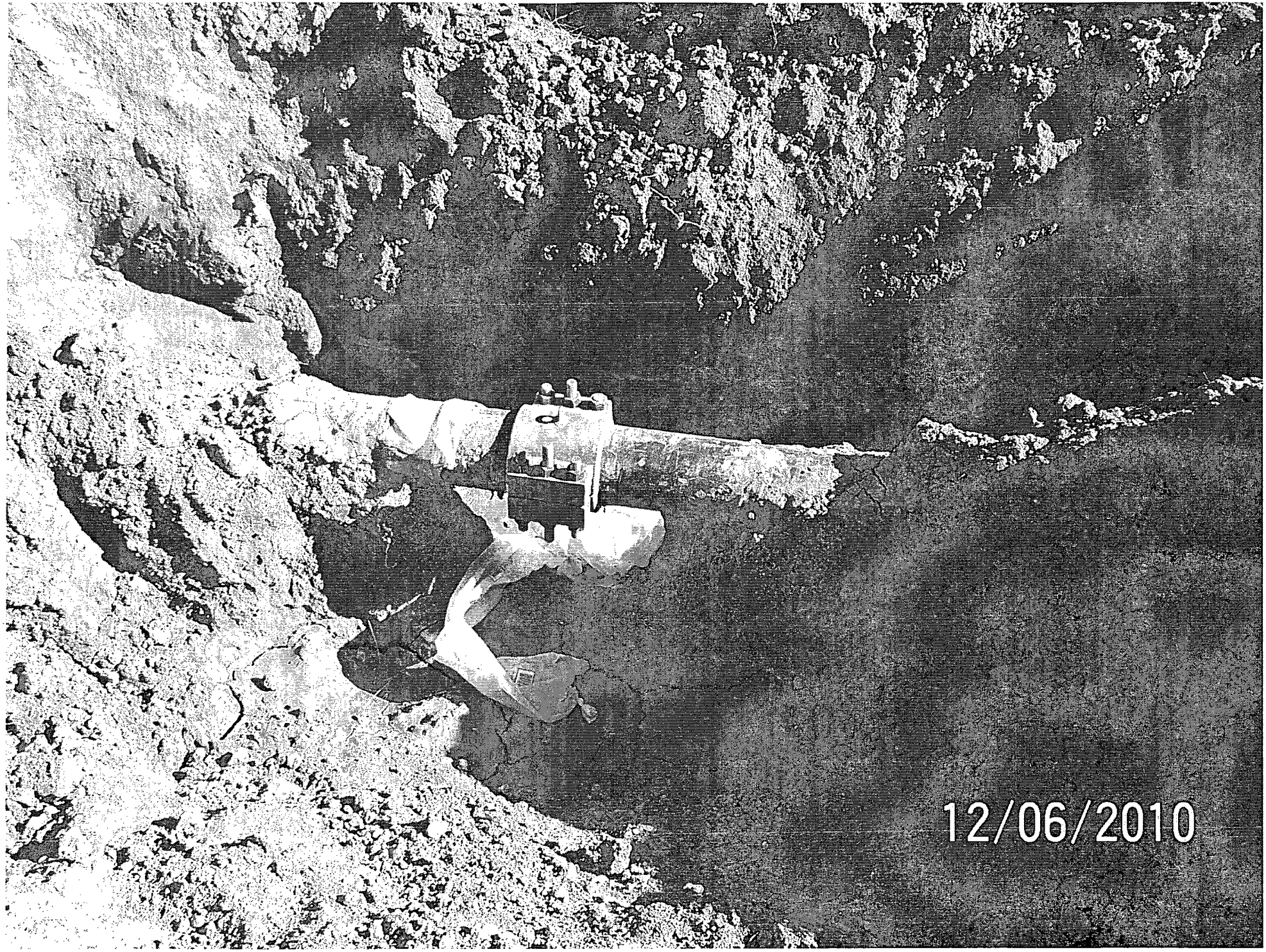
Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line near the Mewbourne injection well (~ 40 yards East of CR204) at ~ N32°46'48.8", W104°13'02.6". The leak was excavated to make repairs. The leak did not stain the soil; however Navajo will dispose of the excavated soil as non-hazardous waste. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions.

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: 12/07/2010 Phone: 575-703-5057		


12/02/2010

12/02/2010


12/06/2010

12/02/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, December 07, 2010 4:52 PM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 Initial Report
Attachments: effluent leaks 048.jpg; effluent leaks 045.jpg; effluent leaks 046.jpg

Here is the other half of the photos for the event below.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Tuesday, December 07, 2010 4:48 PM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; randy.dade@state.nm.us; larry.hill@state.nm.us
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Initial Report

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 and photos for spill on 12/03/2010. I will send a reply to this email with the other half of the photos.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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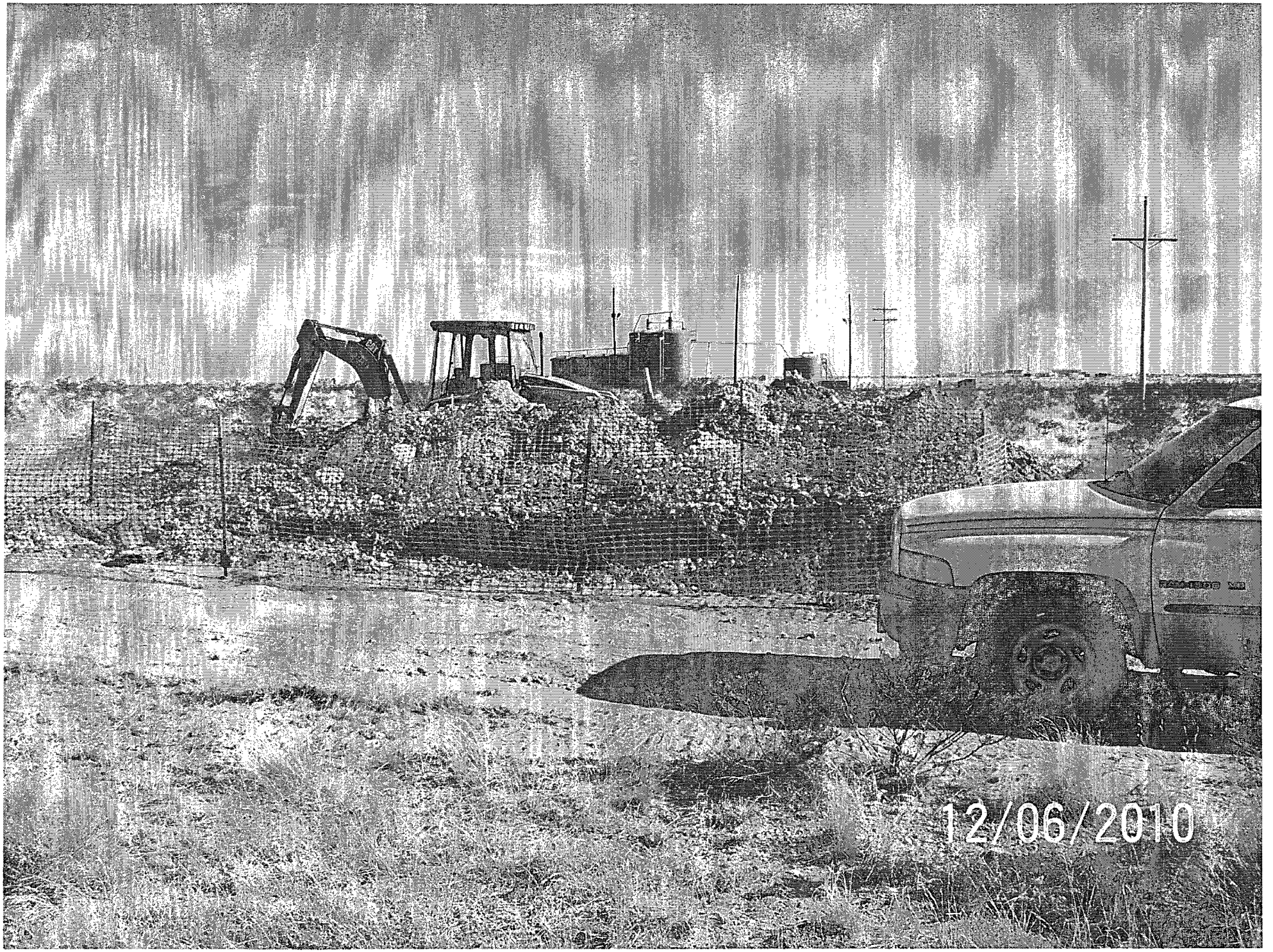
eTrex
LEGEND
Ready To Navigate
Accuracy: 12 feet
N
W
E
N 32°46'053
W104°13'42.9
3617
GARMIN
12/06/2010


12/06/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, December 07, 2010 4:48 PM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Initial Report
Attachments: 2010-12-03 Effluent Line Leak.pdf; effluent leaks 047.jpg; effluent leaks 043.jpg; effluent leaks 044.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 and photos for spill on 12/03/2010. I will send a reply to this email with the other half of the photos.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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 ~N32°46'05.3" **Longitude** ~W104°13'42.9"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010).	Date and Hour of Occurrence: 12/03/2010 Unknown	Date and Hour of Discovery: 12/03/2010 ~ 14:10
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sent email to Carl Chavez from OCD in Santa Fe, and sent and email to Hope Monzeglio from the NMED Haz Waste Bureau.	
By Whom? Darrell Moore	Date and Hour: 12/03/2010 at ~14:26 to Carl Chavez (OCD Santa Fe), and 12/03/2010 at ~14:26 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

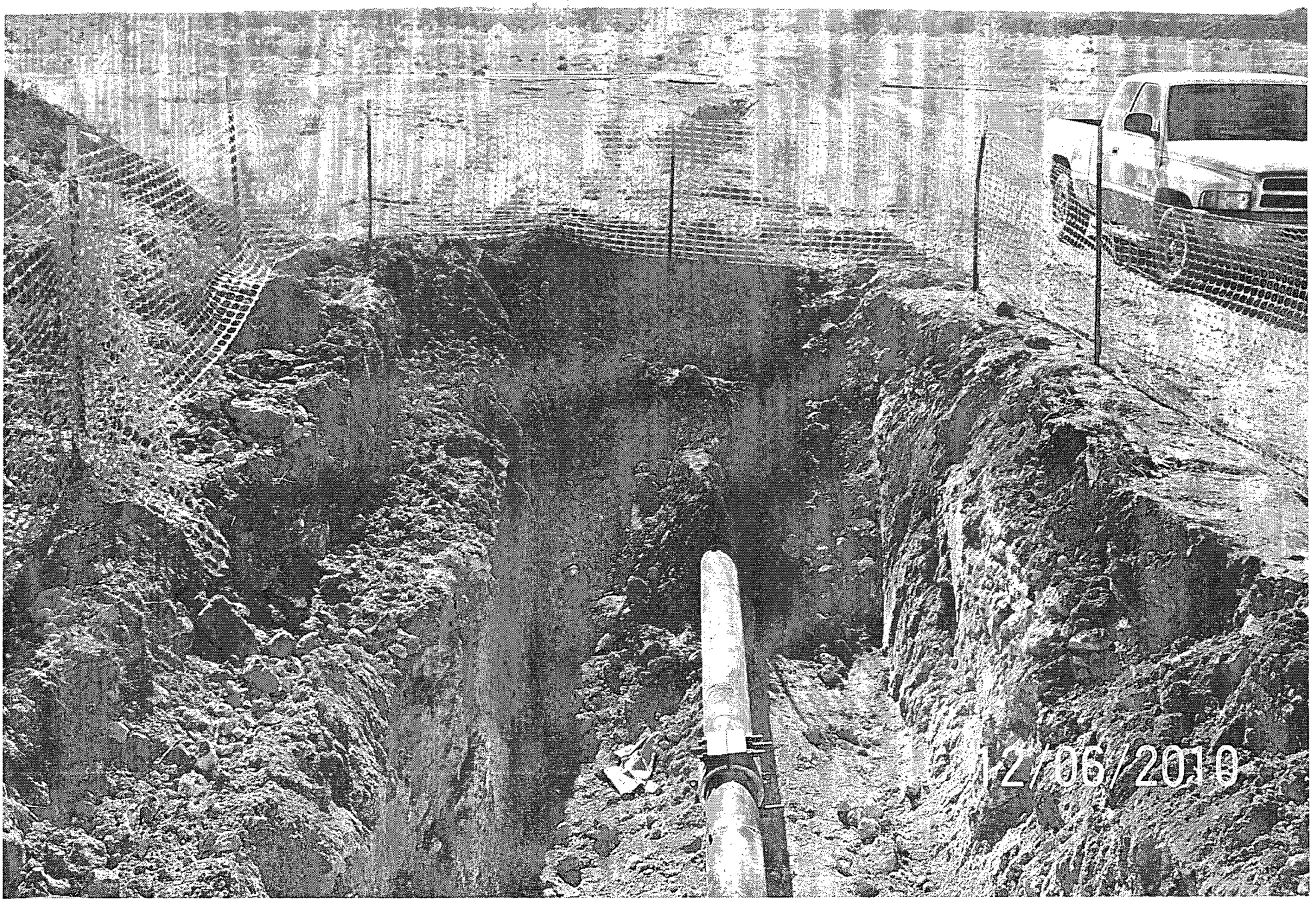
If a Watercourse was Impacted, Describe Fully.* NA

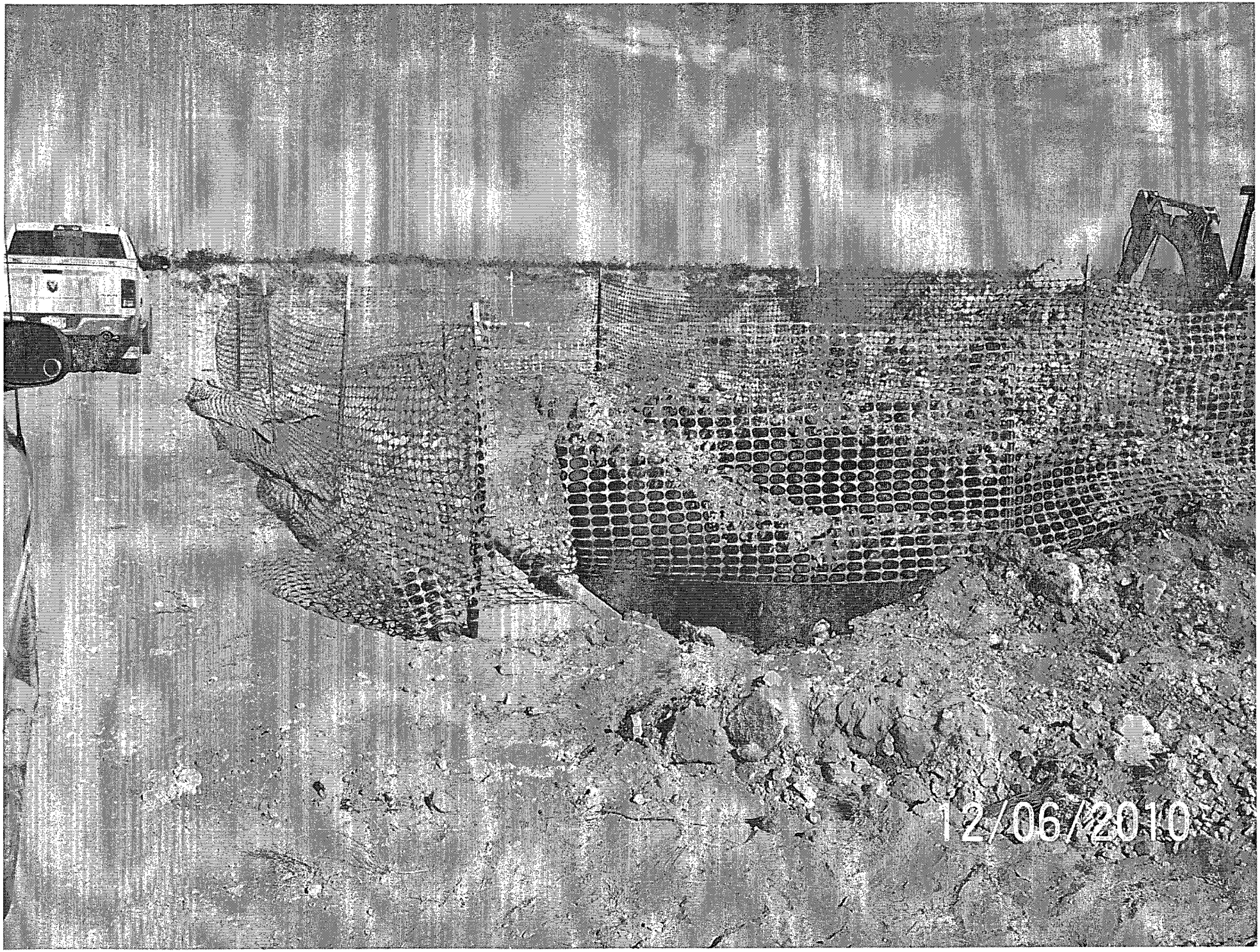
Describe Cause of Problem and Remedial Action Taken.*
On 12/03/2010 at ~ 14:26 a leak was found between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010). The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

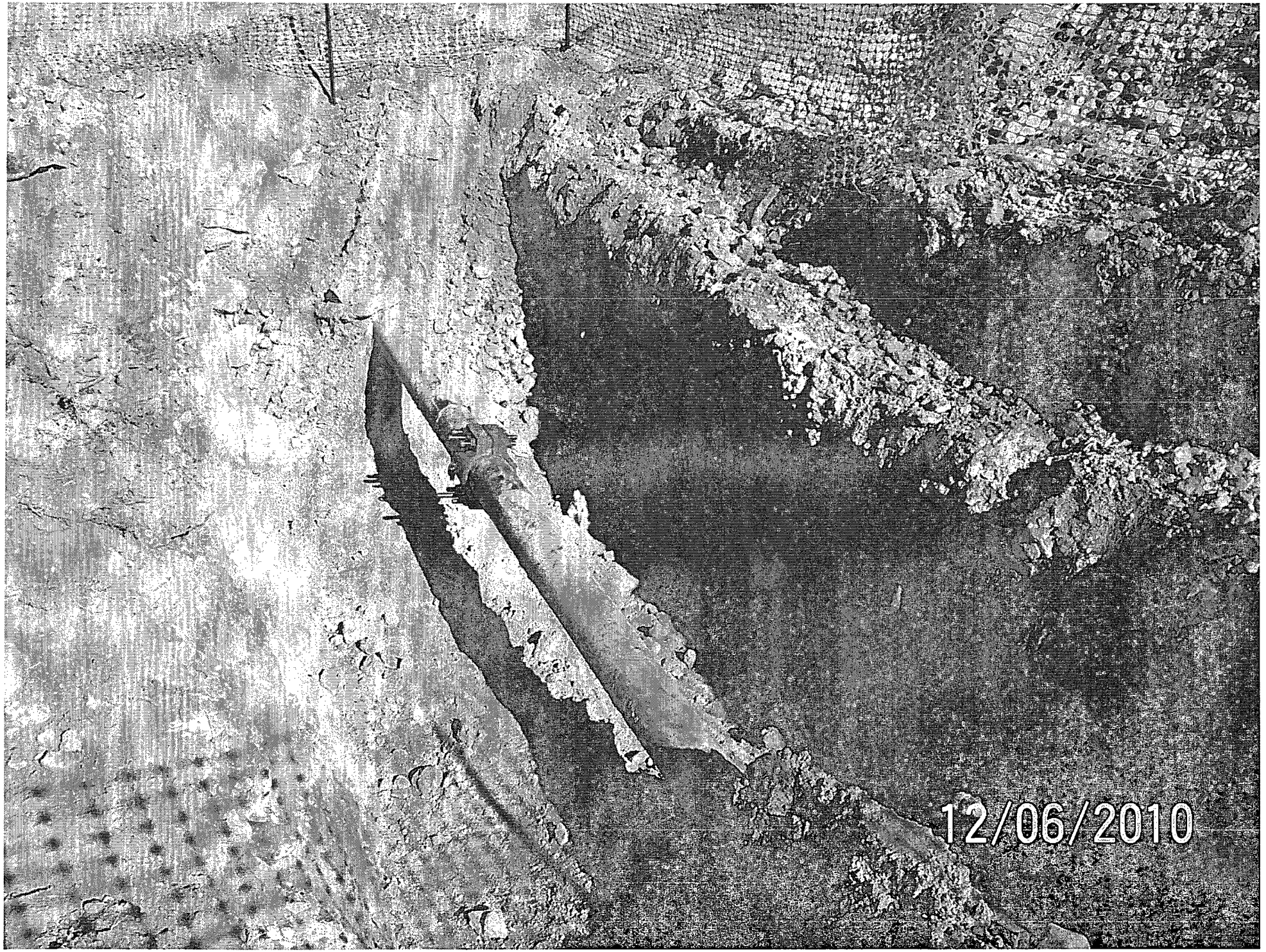
Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010) at ~ N32°46'05.3", W104°13'42.9". The leak was excavated to make repairs. The leak did not stain the soil; however Navajo will dispose of the excavated soil as non-hazardous waste. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions.

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: 12/07/2010 Phone: 575-703-5057		


12/06/2010


12/06/2010


12/06/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, December 07, 2010 4:40 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Initial Report
Attachments: 2010-12-03 Effluent Line Leak.pdf; effluent leaks 047.jpg; effluent leaks 048.jpg; effluent leaks 043.jpg; effluent leaks 044.jpg; effluent leaks 045.jpg; effluent leaks 046.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 and photos for spill on 12/03/2010.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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 ~N32°46'05.3" **Longitude** ~W104°13'42.9"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010).	Date and Hour of Occurrence: 12/03/2010 Unknown	Date and Hour of Discovery: 12/03/2010 ~ 14:10
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sent email to Carl Chavez from OCD in Santa Fe, and sent and email to Hope Monzeglio from the NMED Haz Waste Bureau.	
By Whom? Darrell Moore	Date and Hour: 12/03/2010 at ~14:26 to Carl Chavez (OCD Santa Fe), and 12/03/2010 at ~14:26 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

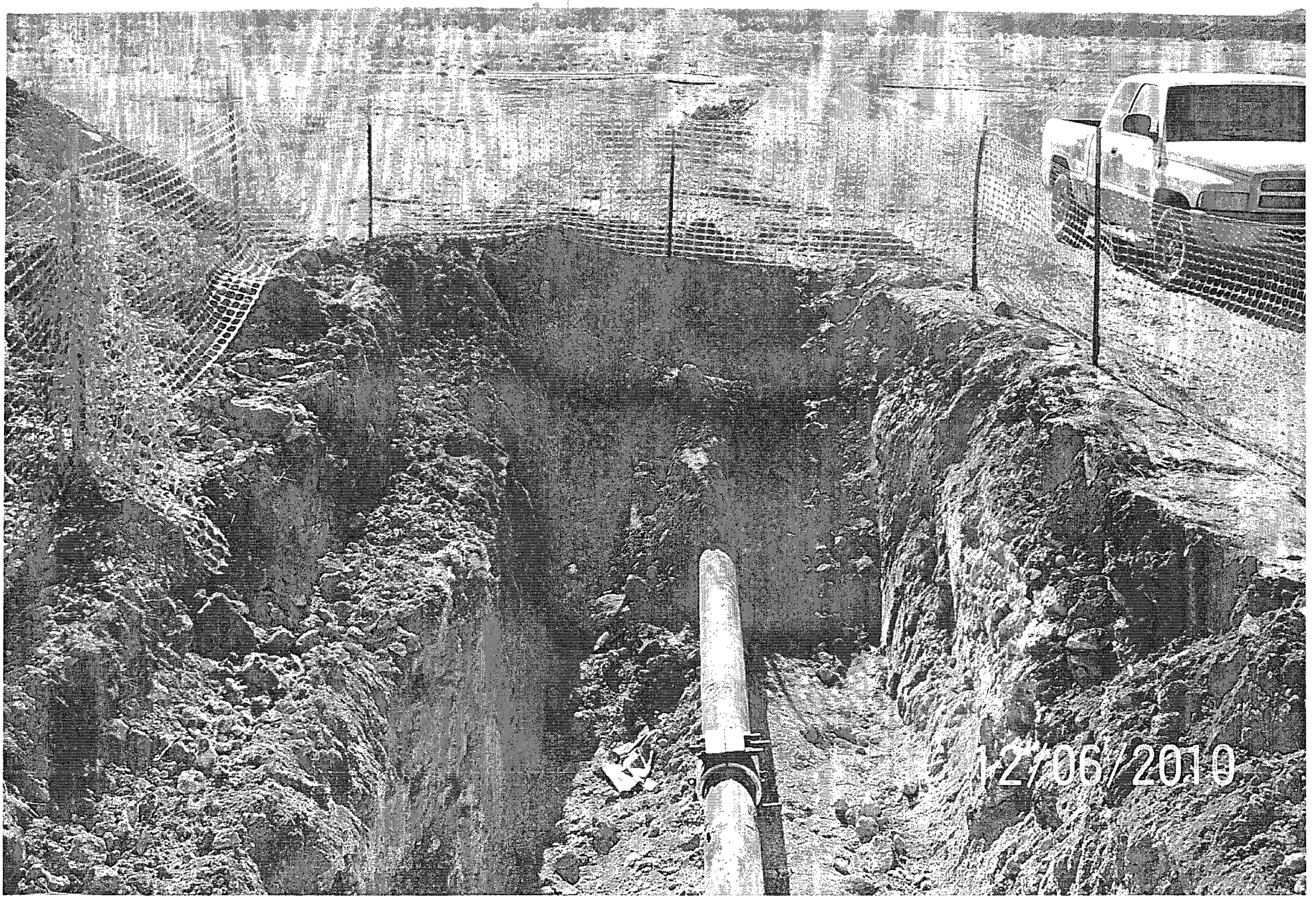
If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/03/2010 at ~ 14:26 a leak was found between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010). The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Mewbourne Injection Wells (just east of the leak from 05/03/2010) at ~ N32°46'05.3", W104°13'42.9". The leak was excavated to make repairs. The leak did not stain the soil; however Navajo will dispose of the excavated soil as non-hazardous waste. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions.

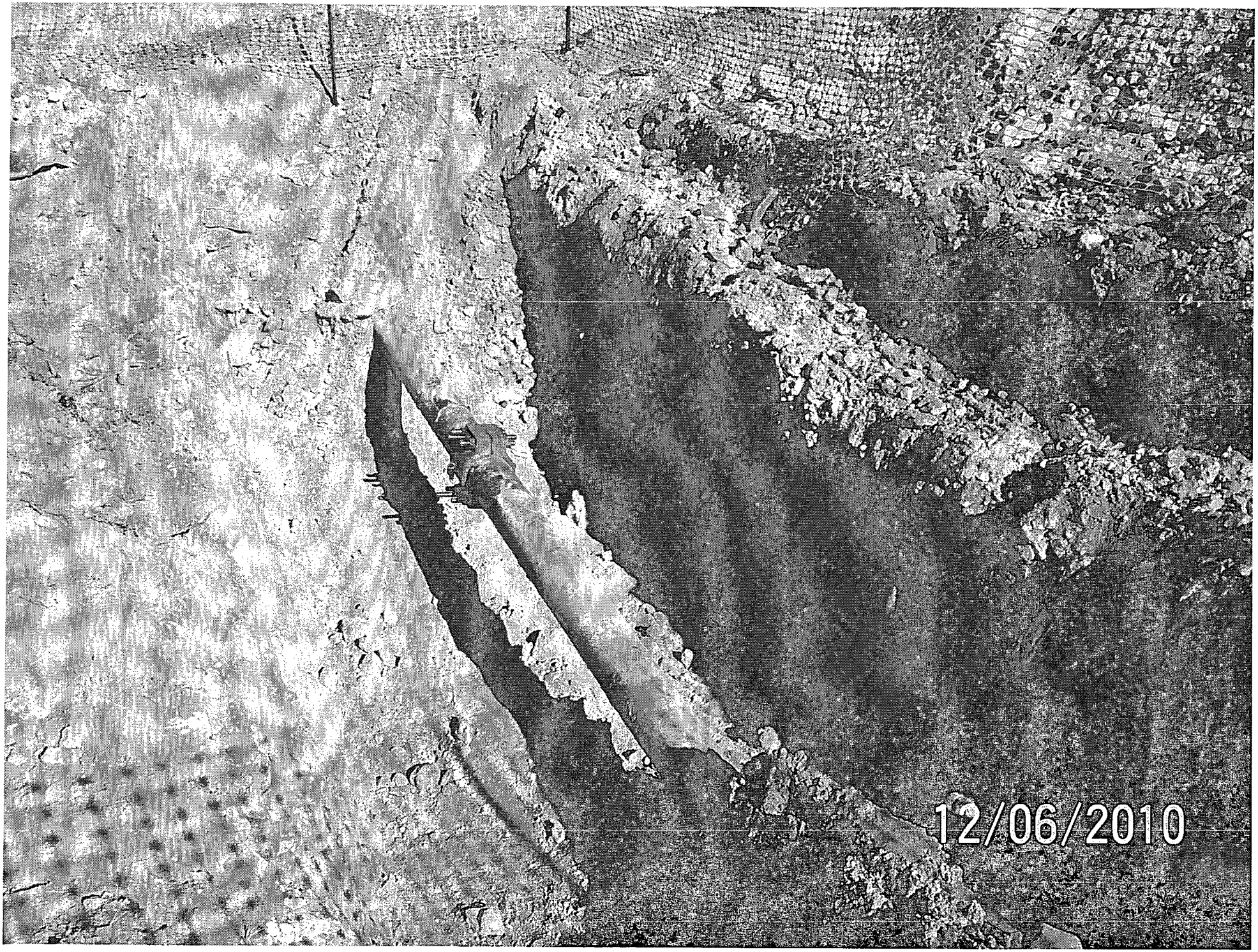
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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.

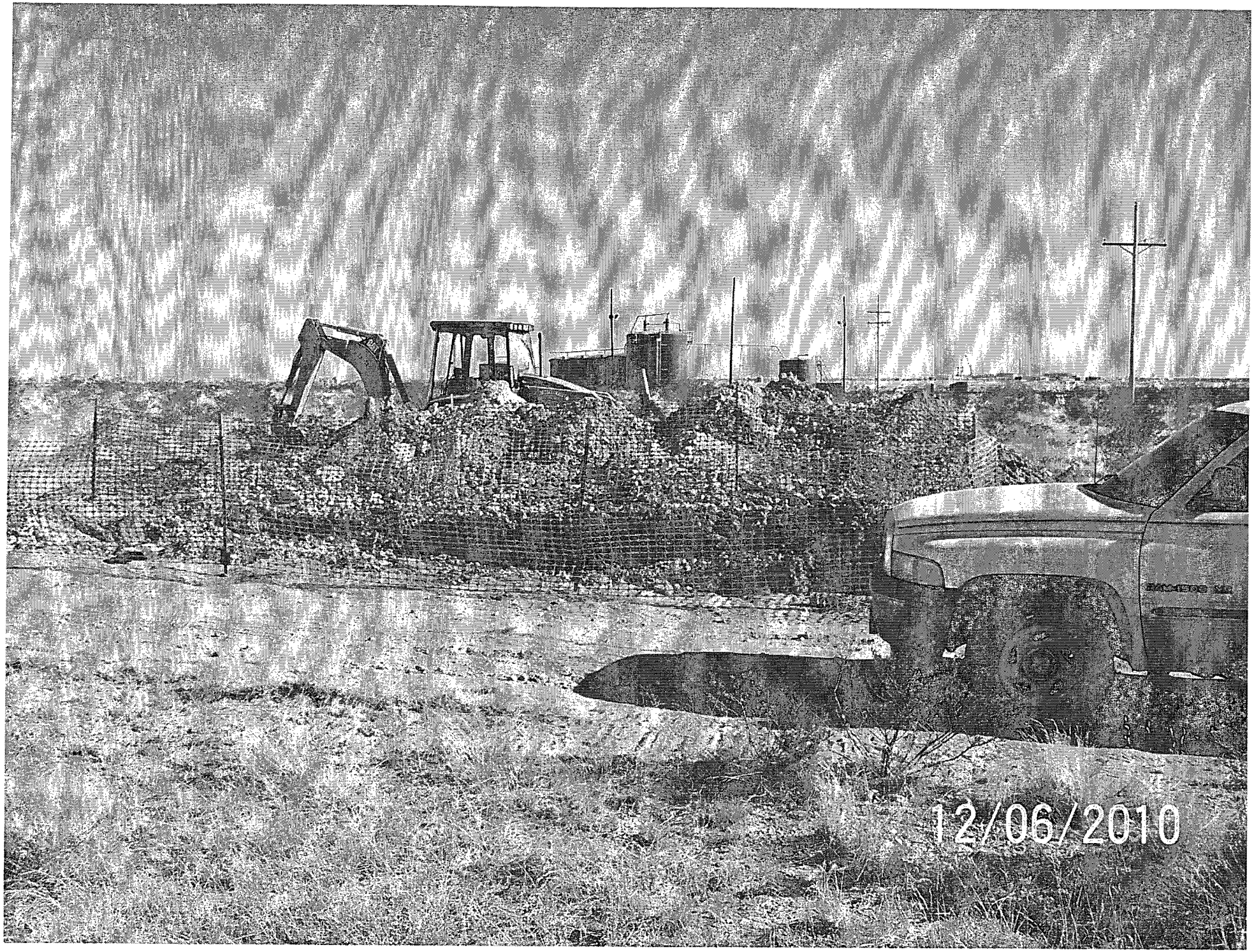
Signature: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 12/07/2010 Phone: 575-703-5057		


12/06/2010

eTrex
LEGEND
Ready To Navigate
Accuracy: 13 Feet
N
W
E
S
N 46°05.3'
W104° 13'42.9"
3617
GARMIN
12/06/2010

12/06/2010


12/06/2010


12/06/2010

2008-10

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, December 07, 2010 6:27 AM
To: Moore, Darrell; 'Lackey, Johnny'
Cc: Dade, Randy, EMNRD; VonGonten, Glenn, EMNRD; 'Strange, Aaron'
Subject: Effluent Line Design Work Plan Submittal Date Request

Darrell and Johnny:

Good morning. The OCD continues to notice problems with leakage at various locations along the effluent line to the UIC Class I (NH) Wells. Navajo Refining Company (NRC) should provide GPS coordinates for all releases on the C-141 form.

OCD hereby requests the official submittal date to the OCD for the effluent line design work plan that NRC has indicated it wants to replace my March of 2011.

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")

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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: Water spill	Volume of Release: ~ 30 barrels	Volume Recovered: 0 barrels
Source of Release: Y-12 Cooling Tower from water basin.	Date and Hour of Occurrence: 11/27/2010 ~ 12:00 am	Date and Hour of Discovery: 11/27/2010 ~ 12:30 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with the NMED Haz Waste Bureau (505-476-6000), left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), and left a voicemail with Randy Dade at the OCD Artesia Office (575-748-1283 extension 102).	
By Whom? Johnny Lackey	Date and Hour: 11/27/2010 at ~07:45 to NMED Haz Waste Bureau, 11/27/2010 at ~07:48 to OCD Santa Fe, and 11/27/2010 at ~07:50 to the OCD Artesia office.	
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 11/27/2010 at ~ 12:00 AM the Y-12 Cooling Tower overflowed from the water basin. Make-up water (City Water) was being added to the cooling tower basin. The RO water was blocked in during this event. An operator noticed water on the ground and immediately blocked in the city make up water and transferred the blow-down/condensate to the ALKY Cooling Tower to stop the spill.

Describe Area Affected and Cleanup Action Taken.*
The area affected starts on the north side of the Y-12 Cooling Tower where the water spread northeast then ran north along East 5th Street. The water soaked into the ground however there were no visual signs of oil or stained soil. Navajo will sample the soil per instructions from the OCD (Oil Conservation Division).

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: 12/02/2010 Phone: 575-703-5057		

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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: Spill of Waste Water from ALKY Tar Pit (API Separator)	Volume of Release: ~ 23 barrels	Volume Recovered: ~ 20 barrels
Source of Release: Plastic line (Fast Line) from diaphragm pump	Date and Hour of Occurrence: 11/05/2010 ~ 14:25	Date and Hour of Discovery: 11/05/2010 ~ 14:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6000), left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), and spoke with Randy Dade at the OCD Artesia Office (575-748-1283 extension 102).	
By Whom? Aaron Strange	Date and Hour: 11/08/2010 at ~10:43 to NMED Haz Waste Bureau, 11/08/2010 at ~10:32 to OCD Santa Fe, and 11/08/2010 at ~10:51 to the OCD Artesia office.	
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 11/05/2010 at ~ 14:30 an operator noticed water on the ground in the Waste Water Treater (Unit 80). A plastic line (Fast Line) coming from a diaphragm pump was being used to bypass the water side of the ALKY tar pit (API separator) to work on a plugged sewer line. The line was place into a sewer cleanout, but backed out and pumped onto the ground. The pump was turned off and the line was place back into the sewer cleanout. The line was also tied down to keep it from backing out.

Describe Area Affected and Cleanup Action Taken.*
The area affected starts at the sewer cleanout south of Tank 801 where it ran east toward the TEL impoundment. It then ran north along the berm on the outside of the TEL impoundment. A vacuum truck removed ~ 20 barrels of standing water. There were no visual signs of oil or stained soil, however the wet/contaminated soil was placed into roll-off bins. The recovered water was placed into the Oily Water Sewer. The soil will be disposed of as F-037 (Listed Hazardous Waste). Bottom Hole samples will be collected.

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: 11/10/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, December 03, 2010 2:26 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Envir
Subject: Second effluent line leak

Carl and Hope

Today at 2:10 pm, a second leak in our effluentline was discovered. The line has been shut in and crews are mobilizing to repair the leak.

Aaron Strange will send the C-141 with details as soon as possible.

Sent from my Palm Pre on the Now Network from Sprint

On Dec 2, 2010 9:18 AM, Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us> wrote:

Hope:

Good morning. Before I forget, did NMED receive the Arcadis Work Plan for the free-product recovery system design from Navajo Refining Company? I think we were supposed to receive it in mid-November of 2010. Thanks.

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")

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Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, December 02, 2010 9:14 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Strange, Aaron; Lackey, Johnny
Subject: Leak on Effluent Line

Carl and Hope

At 9 am this morning, during our daily inspection of our Effluent Line, a leak was discovered on the far east end of the line near our Mewbourne (WDW-1) Injection well. The line has been shut in and crews are mobilizing to repair the line. We will get more details as to exact location (GPS), extent of spill and photos and Aaron Strange will be sending the initial C-141 in a timely manner.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, December 02, 2010 2:54 PM
To: 'Strange, Aaron'
Subject: 11/27 Y15 Cooling Tower Release Notification (20-30 bbl) and Environmental Sampling

Aaron:

OCD has not received the initial C-141 for the above release verbally reported to the OCD by Johnny Lackey on 11/27.

Per our telephone call of 12/2 regarding chemicals of concern and whether corrective action needs to be performed, I have provided below an acceptable path forward to characterize and determine whether further correction action(s) is needed based on the nature of this release. If this cooling tower release is not listed hazardous "F" waste, please provide the OCD with the following information. If it is determined that it is listed, NMED should be involved.

Five point composite samples from at least 3 locations (first: pt. of contact with ground nearest to cooling tower; second: mid-way and third: pooled area) and analyze for the following constituents: TPH (418.1); General Chemistry (cation/anions); and Metals (6010). Provide spill location on diagram of facility with sample points for composite samples delivered to the lab. All sampling should conform to EPA QA/QC sampling and analytical protocols and or approved OCD Methods..

Please contact me if you have questions. 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")

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, November 10, 2010 3:58 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 initial report
Attachments: 2010-11-05 Spill at WWT.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 for spill on 11/05/2010.

Thank you,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: Spill of Waste Water from ALKY Tar Pit (API Separator)	Volume of Release: ~ 23 barrels	Volume Recovered: ~ 20 barrels
Source of Release: Plastic line (Fast Line) from diaphragm pump	Date and Hour of Occurrence: 11/05/2010 ~ 14:25	Date and Hour of Discovery: 11/05/2010 ~ 14:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6000), left a voicemail with Carl Chavez from OCD in Santa Fe (505-476-3490), and spoke with Randy Dade at the OCD Artesia Office (575-748-1283 extension 102).	
By Whom? Aaron Strange	Date and Hour: 11/08/2010 at ~10:43 to NMED Haz Waste Bureau, 11/08/2010 at ~10:32 to OCD Santa Fe, and 11/08/2010 at ~10:51 to the OCD Artesia office.	
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 11/05/2010 at ~ 14:30 an operator noticed water on the ground in the Waste Water Treater (Unit 80). A plastic line (Fast Line) coming from a diaphragm pump was being used to bypass the water side of the ALKY tar pit (API separator) to work on a plugged sewer line. The line was place into a sewer cleanout, but backed out and pumped onto the ground. The pump was turned off and the line was place back into the sewer cleanout. The line was also tied down to keep it from backing out.

Describe Area Affected and Cleanup Action Taken.*
The area affected starts at the sewer cleanout south of Tank 801 where it ran east toward the TEL impoundment. It then ran north along the berm on the outside of the TEL impoundment. A vacuum truck removed ~ 20 barrels of standing water. There were no visual signs of oil or stained soil, however the wet/contaminated soil was placed into roll-off bins. The recovered water was placed into the Oily Water Sewer. The soil will be disposed of as F-037 (Listed Hazardous Waste). Bottom Hole samples will be collected.

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: 11/10/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, November 11, 2010 10:53 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 final report
Attachments: 2010-05-03 Effluent Line Leak Final.pdf; effluent leaks 015.jpg; effluent leaks 016.jpg; effluent leaks 017.jpg; 1010346 WW Effluent Final 5-3-2010.pdf; effluent leaks 014.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached final C-141 for the effluent leak from 5/3/2010. Also attached are the associated photos and analytical results.

Thank you,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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 ~N32°46'03.8" **Longitude** ~W104°13'44.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waste Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Mewborne Injection Wells.	Date and Hour of Occurrence: 05/03/2010 Unknown	Date and Hour of Discovery: 05/03/2010 ~ 15:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Notified Carl Chavez from OCD in Santa Fe (505-476-3490), OCD Artesia office (575-748-1283), and Hope Monzeglio with the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Darrell Moore	Date and Hour: 05/032010 at ~18:06 to Carl Chavez (OCD Santa Fe), 05/03/2010 at ~18:10 to the OCD Artesia office, and 05/03/2010 at ~18:08 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

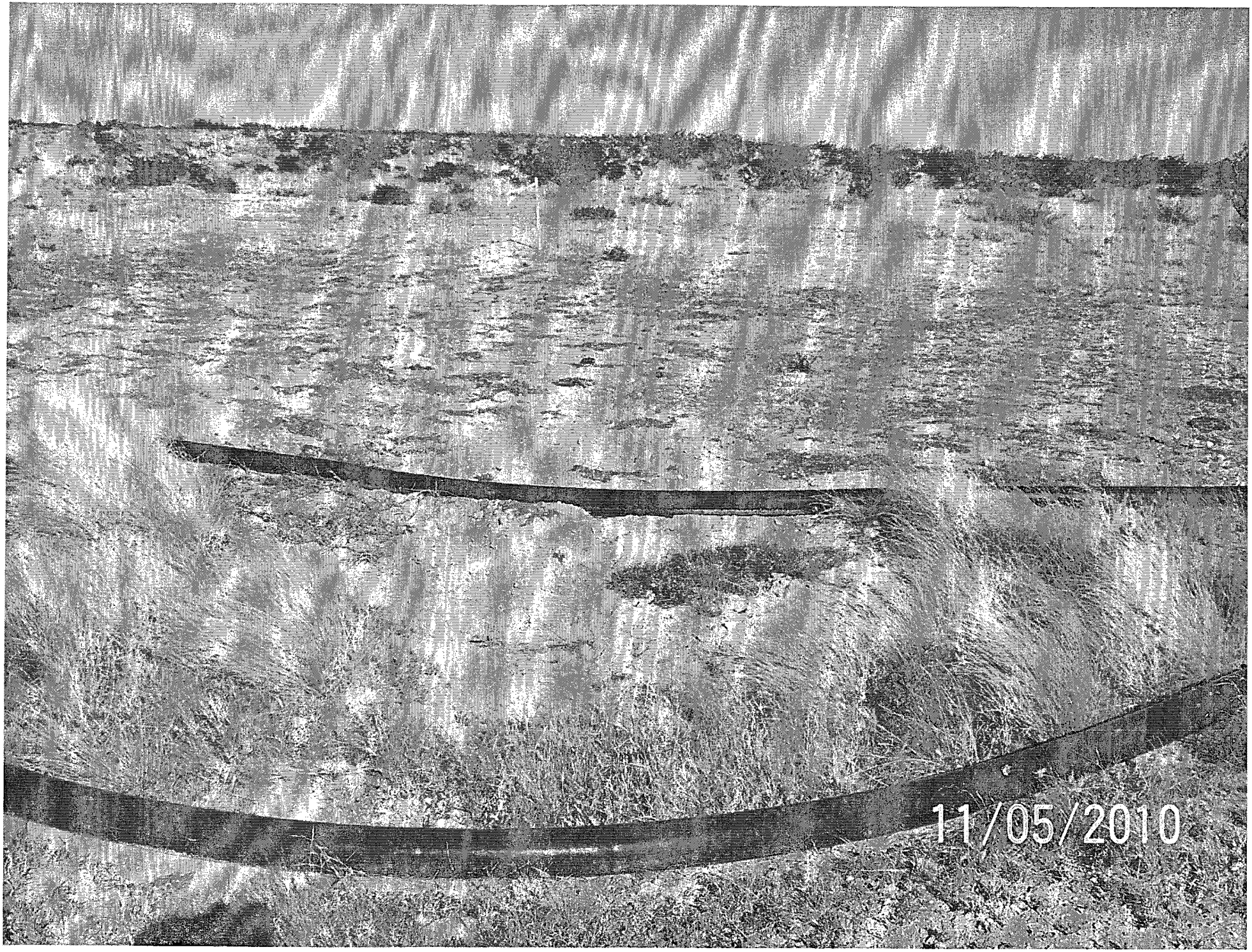
If a Watercourse was Impacted, Describe Fully.* NA

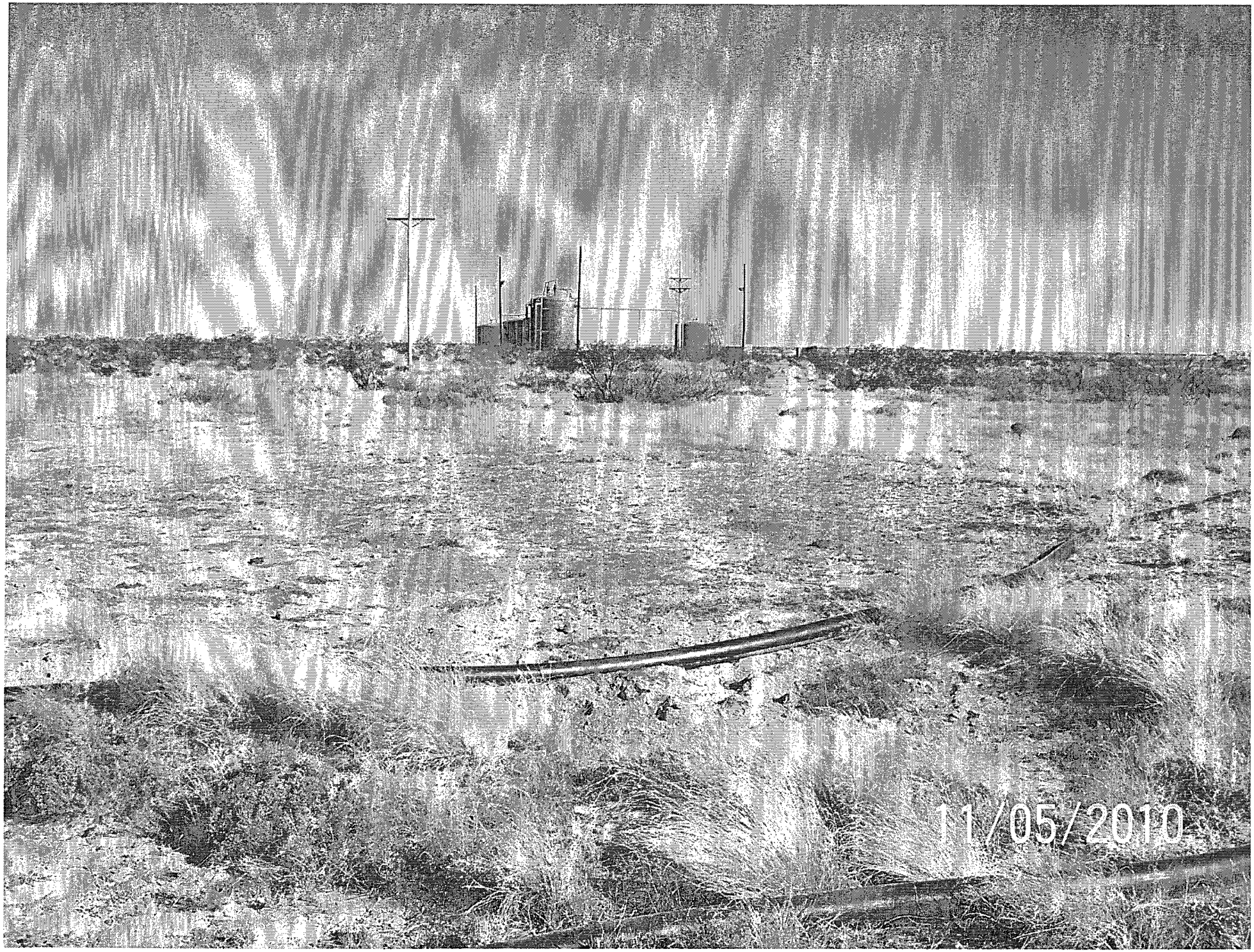
Describe Cause of Problem and Remedial Action Taken.*
On 04/15/2010 at ~ 09:40 a leak was found between the Chukka and Mewborne Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

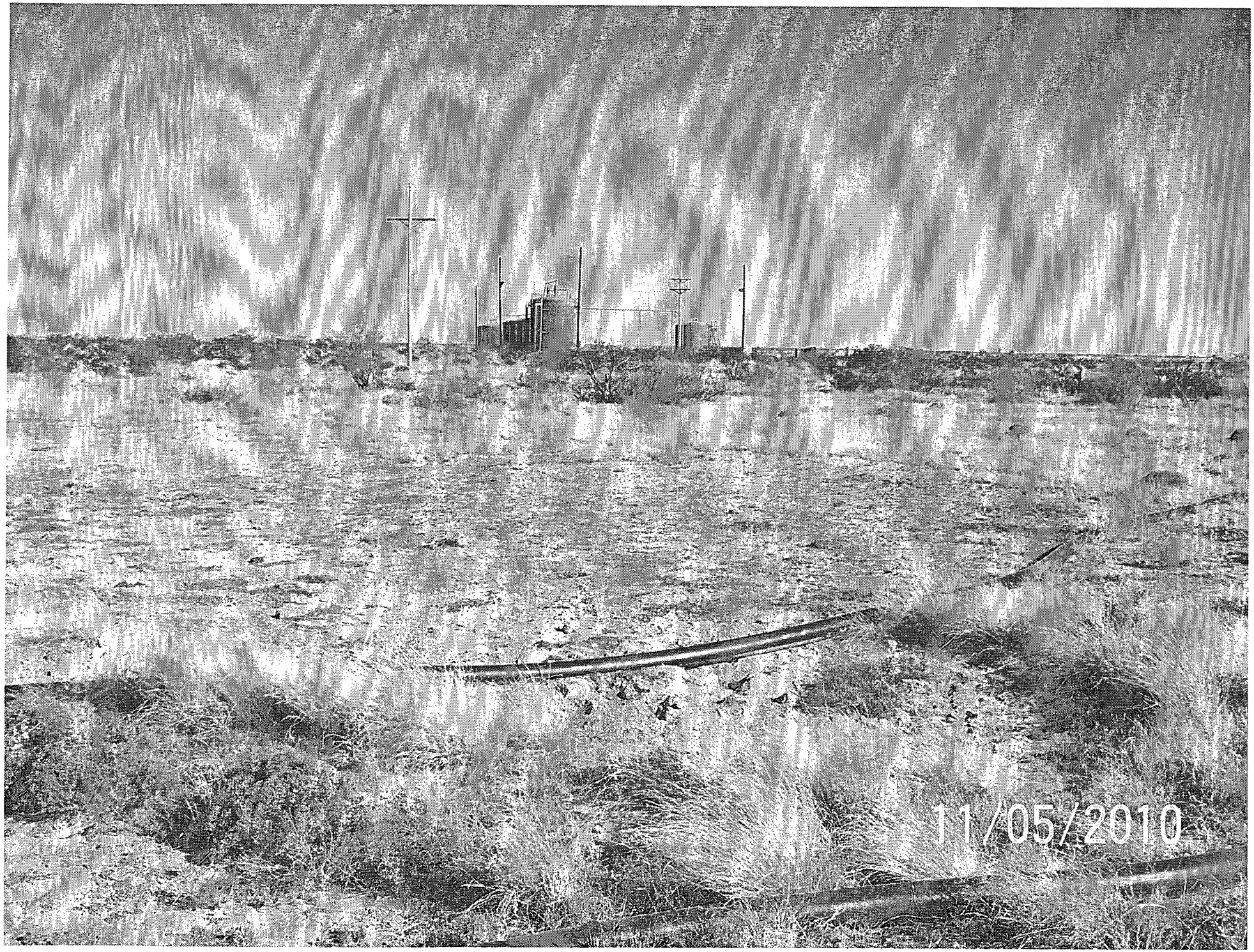
Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Mewborne Injection Wells at ~ N32°46'03.8", W104°13'44.4". The leak was excavated and the line was clamped and is holding. The leak did not stain the soil. Bottom Hole samples have be collected and tested for BTEX, Metals, and Anions.

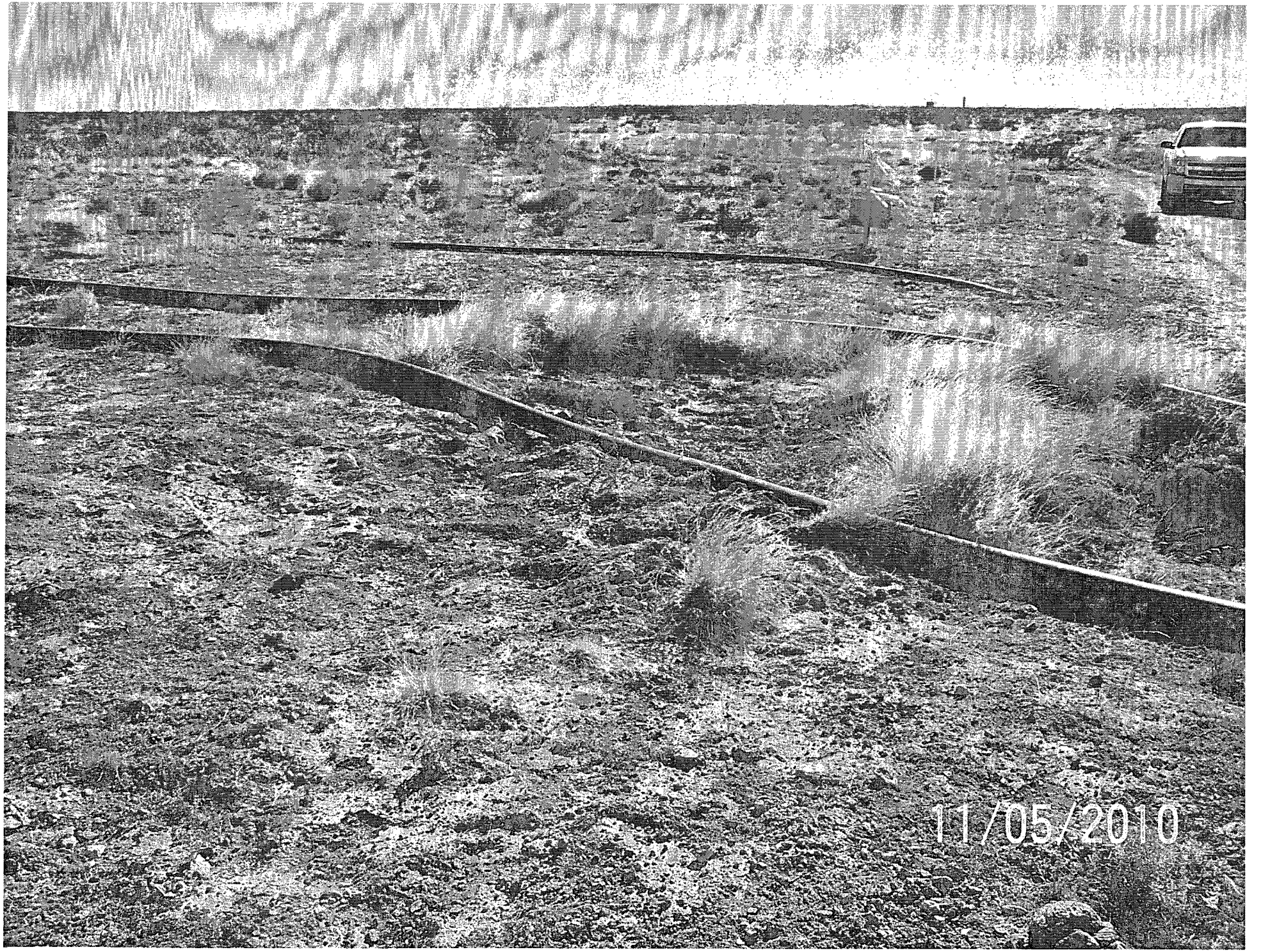
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 11/10/2010 Phone: 575-703-5057		


11/05/2010


11/05/2010


11/05/2010


11/05/2010

ALS Environmental

Date: *18-Oct-10*

Client:	Navajo Refining Company		
Project:	WW Effluent	**Work Order:**	1010346
Sample ID:	Leak from 5-3-10	**Lab ID:**	1010346-06
Collection Date:	10/7/2010 01:34 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 03:05 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 03:05 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 03:05 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 03:05 PM
Surr: 4-Bromofluorobenzene	*94.9*		*75-131*	*%REC*	1	10/12/2010 03:05 PM
Surr: Trifluorotoluene	*92.1*		*73-130*	*%REC*	1	10/12/2010 03:05 PM
MERCURY			SW7471A		Prep Date: **10/14/2010**	Analyst: **JCJ**
Mercury	9.44		3.46	µg/Kg	1	10/14/2010 03:52 PM
METALS			SW6020		Prep Date: **10/13/2010**	Analyst: **SKS**
Aluminum	10,600		99.0	mg/Kg	100	10/14/2010 10:04 PM
Antimony	ND		0.495	mg/Kg	1	10/14/2010 07:12 AM
Arsenic	3.41		0.495	mg/Kg	1	10/14/2010 07:12 AM
Barium	210		2.48	mg/Kg	5	10/14/2010 07:48 PM
Beryllium	0.521		0.495	mg/Kg	1	10/14/2010 07:12 AM
Cadmium	ND		0.495	mg/Kg	1	10/14/2010 07:12 AM
Calcium	76,700		4,950	mg/Kg	100	10/14/2010 10:04 PM
Chromium	7.65		0.495	mg/Kg	1	10/14/2010 07:12 AM
Cobalt	3.57		0.495	mg/Kg	1	10/14/2010 07:12 AM
Copper	7.92		0.495	mg/Kg	1	10/14/2010 07:12 AM
Iron	6,720		49.5	mg/Kg	1	10/14/2010 07:12 AM
Lead	6.74		2.48	mg/Kg	5	10/14/2010 07:48 PM
Magnesium	4,130		49.5	mg/Kg	1	10/14/2010 07:12 AM
Manganese	178		0.495	mg/Kg	1	10/14/2010 07:12 AM
Nickel	7.72		0.495	mg/Kg	1	10/14/2010 07:12 AM
Potassium	2,730		49.5	mg/Kg	1	10/14/2010 07:12 AM
Selenium	1.73		0.495	mg/Kg	1	10/14/2010 07:12 AM
Silver	ND		0.495	mg/Kg	1	10/14/2010 07:12 AM
Sodium	93.6		49.5	mg/Kg	1	10/14/2010 07:12 AM
Strontium	79.6		0.495	mg/Kg	1	10/14/2010 07:12 AM
Thallium	ND		2.48	mg/Kg	5	10/14/2010 07:48 PM
Vanadium	12.5		0.495	mg/Kg	1	10/14/2010 07:12 AM
Zinc	35.1		0.495	mg/Kg	1	10/14/2010 07:12 AM
ANIONS			E300		Prep Date: **10/13/2010**	Analyst: **DM**
Chloride	6.93		4.99	mg/Kg	1	10/14/2010 03:06 PM
Sulfate	30.6		4.99	mg/Kg	1	10/14/2010 03:06 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 03:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client: Navajo Refining Company
Project: WW Effluent
Work Order: 1010346
Sample ID: Background N32 45' 54.3"-W104 14' 13.0"
Lab ID: 1010346-07
Collection Date: 10/7/2010 01:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 04:00 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 04:00 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 04:00 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 04:00 PM
Surr: 4-Bromofluorobenzene	*96.3*		*75-131*	*%REC*	1	10/12/2010 04:00 PM
Surr: Trifluorotoluene	*93.4*		*73-130*	*%REC*	1	10/12/2010 04:00 PM
MERCURY			SW7471A		Prep Date: **10/14/2010**	Analyst: JCJ
Mercury	11.7		3.55	µg/Kg	1	10/14/2010 03:54 PM
METALS			SW6020		Prep Date: **10/13/2010**	Analyst: SKS
Aluminum	7,760		94.3	mg/Kg	100	10/14/2010 10:22 PM
Antimony	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Arsenic	2.40		0.472	mg/Kg	1	10/14/2010 07:18 AM
Barium	70.3		0.472	mg/Kg	1	10/14/2010 07:18 AM
Beryllium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Cadmium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Calcium	39,100		4,720	mg/Kg	100	10/14/2010 10:22 PM
Chromium	6.82		0.472	mg/Kg	1	10/14/2010 07:18 AM
Cobalt	2.61		0.472	mg/Kg	1	10/14/2010 07:18 AM
Copper	6.24		0.472	mg/Kg	1	10/14/2010 07:18 AM
Iron	5,520		47.2	mg/Kg	1	10/14/2010 07:18 AM
Lead	6.07		0.472	mg/Kg	1	10/14/2010 07:18 AM
Magnesium	7,550		47.2	mg/Kg	1	10/14/2010 07:18 AM
Manganese	149		0.472	mg/Kg	1	10/14/2010 07:18 AM
Nickel	5.84		0.472	mg/Kg	1	10/14/2010 07:18 AM
Potassium	1,340		47.2	mg/Kg	1	10/14/2010 07:18 AM
Selenium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Silver	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Sodium	ND		47.2	mg/Kg	1	10/14/2010 07:18 AM
Strontium	107		0.472	mg/Kg	1	10/14/2010 07:18 AM
Thallium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Vanadium	10.7		0.472	mg/Kg	1	10/14/2010 07:18 AM
Zinc	18.4		0.472	mg/Kg	1	10/14/2010 07:18 AM
ANIONS			E300		Prep Date: **10/13/2010**	Analyst: DM
Chloride	ND		4.96	mg/Kg	1	10/14/2010 03:27 PM
Sulfate	7,510		49.6	mg/Kg	10	10/14/2010 05:37 PM
Surr: Selenate (surr)	*108*		*85-115*	*%REC*	10	10/14/2010 05:37 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 03:27 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 #: 1010346

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	WW Effluent	A BTEX
Work Order		Project Number		B Metals (totals)
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C Anions (chlorides-sulphate)
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D
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)~~ 575 748-3311	Phone	(575) 746-3311	H
Fax	~~(505) 746-5421~~ 575 5451	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	Leak from 9-27-10 #1	10-7-10	12:30	S	NO	2	X	X	X								
2	Leak from 9-27-10 #2		12:34				X	X	X								
3	Leak from 9-27-10 #3		12:49				X	X	X								
4	Leak from 9-27-10 #4 N 32°46'05.6"		13:02				X	X	X								
5	Background W 104°13'42.0"		13:10				X	X	X								
6	Leak from 5-3-10 N 32°45'54.3"		13:34				X	X	X								
7	Background W 104°14'13.0"		13:40				X	X	X								
8	Temp Blank																
9	Trip Blank																
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

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:
Aaron Strange	10-7-10	16:15		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID / Cooler Temp:
			10/8/10 09:00	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

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 / EDD _____

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.

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WARNING
EFFLUENT
PIPELINE
NAVAJO REFINING COMPANY LLC
Before Excavating or in Case of Emergency
ARTESIA, NM
CALL Toll Free 1-877-748-4454
Collect 575-748-3314
1/05/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, November 12, 2010 7:27 AM
To: Strange, Aaron; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 final report
Attachments: 0057.jpg; New Image.jpg; oo58.jpg; CIMG0060.jpg; CIMG0061.jpg; CIMG0065.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached photos per the email below. I have attached about 1/3rd of the photos and will send the rest in two other emails following this email.

Thank you,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Thursday, November 11, 2010 11:36 AM
To: 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'; 'larry.hill@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 final report

Hope, Carl, Randy, and Buddy,

Please see the attached final C-141s from the effluent leaks on 2/20/2010, 4/14/2010, and 9/27/2010. These are the three leaks that were very close together. Also attached are the associated analytical results. I am also sending the associated photos on another email following this.

Thank you,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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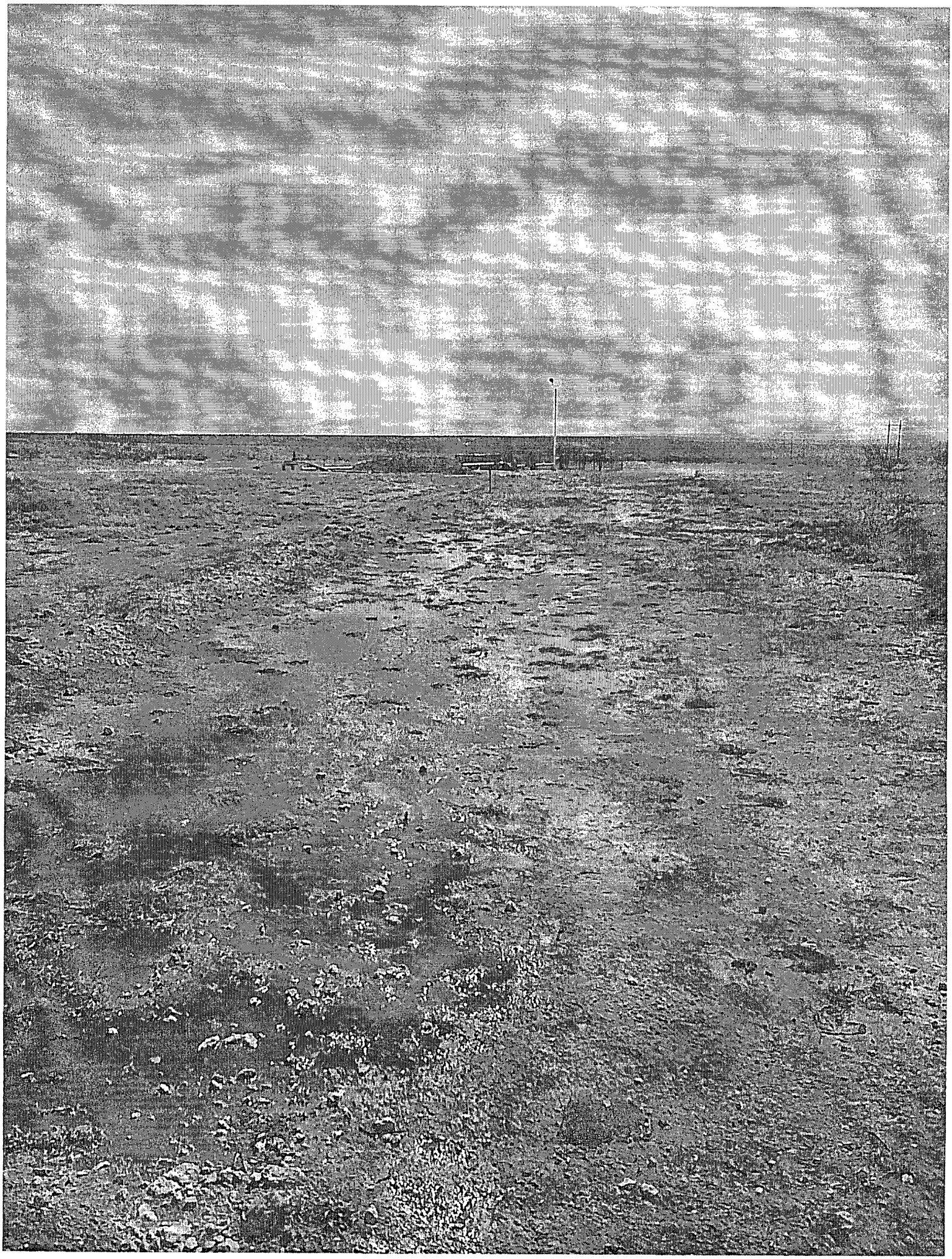

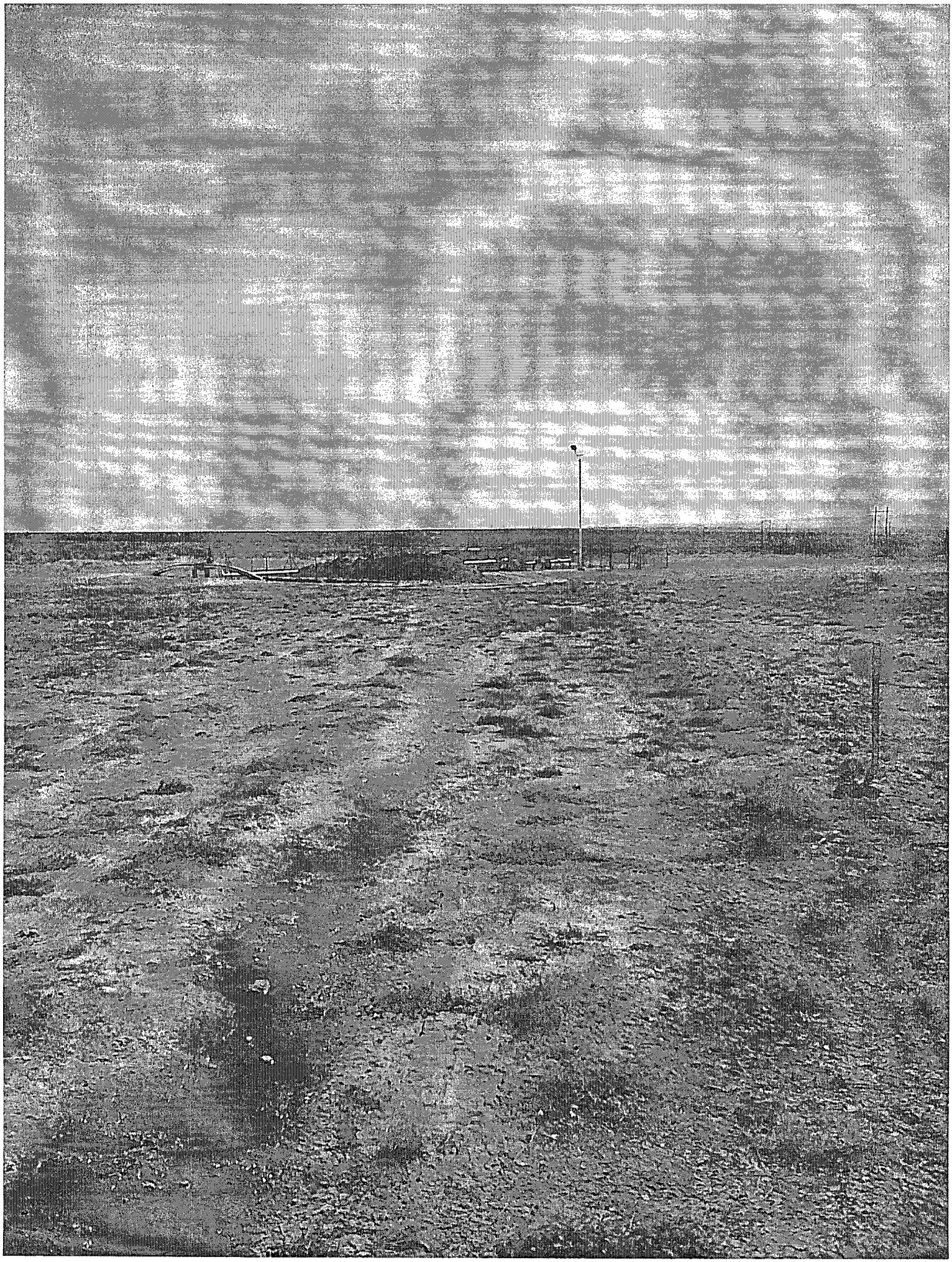

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, November 11, 2010 11:36 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 final report
Attachments: 2010-02-20 Effluent Line Leak Final.pdf; 1003452 Bottom Hole Final.pdf; 1003356 Disposal Final.pdf; 1007504 Bottom Hole Final.pdf; 2010-04-15 Effluent Line Leak Final.pdf; 2010-09-27 Effluent Line Leak Final.pdf; 1010346 WW Effluent Final 9-27-2010.pdf; 10091037 Disposal Final.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached final C-141s from the effluent leaks on 2/20/2010, 4/14/2010, and 9/27/2010. These are the three leaks that were very close together. Also attached are the associated analytical results. I am also sending the associated photos on another email following this.

Thank you,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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 ~N32°45'54.3" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waste Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 02/20/2010 ~ 12:10	Date and Hour of Discovery: 02/20/2010 ~ 12:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Carl Chavez with OCD in Santa Fe (505-476-3490), left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045), and left a voicemail with the OCD Artesia Office (575-748-1283 extension 104). OCD (Artesia) called back.	
By Whom? Darrell Moore	Date and Hour: 02/20/2010 at ~13:50 to Carl Chavez (OCD Santa Fe), 02/20/2010 at ~14:15 to Hope Monzeglio (NMED Haz Waste Bureau), and 02/31/2010 at ~14:17 to the OCD Artesia office.	
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 02/20/2010 at ~ 12:30 the waste water effluent line began to leak between the Chukka and Gaines Injection Wells. The effluent line was blocked in at the Waste Water Treater (inside the refinery) at ~ 13:04 on 02/20/2010 to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection wells at ~ N32°45'54.3", W104°14'17.4". The leak was excavated to make repairs and the soil was placed into six roll off bins. The leak did not stain the soil; however Navajo has dispose of the excavated soil as Non-Hazardous Waste per analytical results. Bottom Hole samples were collected and tested for TPH. This same location was tested for BTEX, Metals, and Anions after the leak that occurred on 09/27/2010. This leak was just a few feet from the leaks that occurred on 04/15/2010 and 09/27/2010.

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: 11/10/2010 Phone: 575-703-5057		

ALS Laboratory Group

Date: *25-Mar-10*

Client: Navajo Refining Company
Project: Bottom Hole
Work Order: 1003452
Sample ID: WW Effluent #1
Lab ID: 1003452-01
Collection Date: 3/16/2010 02:13 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **3/19/2010**	Analyst: **KMB**
nC6 to nC12	ND		50	mg/Kg	1	3/20/2010 09:53 PM
>nC12 to nC28	ND		50	mg/Kg	1	3/20/2010 09:53 PM
>nC28 to nC35	ND		50	mg/Kg	1	3/20/2010 09:53 PM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	3/20/2010 09:53 PM
Surr: 2-Fluorobiphenyl	*89.9*		*70-130*	*%REC*	1	3/20/2010 09:53 PM
Surr: Trifluoromethyl benzene	*90.1*		*70-130*	*%REC*	1	3/20/2010 09:53 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *25-Mar-10*

Client: Navajo Refining Company
Project: Bottom Hole
Work Order: 1003452
Sample ID: WW Effluent #2
Lab ID: 1003452-02
Collection Date: 3/16/2010 02:18 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **3/19/2010**	Analyst: **KMB**
nC6 to nC12	ND		50	mg/Kg	1	3/21/2010 12:49 AM
>nC12 to nC28	ND		50	mg/Kg	1	3/21/2010 12:49 AM
>nC28 to nC35	ND		50	mg/Kg	1	3/21/2010 12:49 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	3/21/2010 12:49 AM
Surr: 2-Fluorobiphenyl	*99.4*		*70-130*	*%REC*	1	3/21/2010 12:49 AM
Surr: Trifluoromethyl benzene	*97.5*		*70-130*	*%REC*	1	3/21/2010 12:49 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *25-Mar-10*

Client: Navajo Refining Company
Project: Bottom Hole
Work Order: 1003452
Sample ID: WW Effluent #3
Lab ID: 1003452-03
Collection Date: 3/16/2010 02:22 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **3/19/2010**	Analyst: **KMB**
nC6 to nC12	ND		50	mg/Kg	1	3/21/2010 01:18 AM
>nC12 to nC28	ND		50	mg/Kg	1	3/21/2010 01:18 AM
>nC28 to nC35	ND		50	mg/Kg	1	3/21/2010 01:18 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	3/21/2010 01:18 AM
Surr: 2-Fluorobiphenyl	*77.1*		*70-130*	*%REC*	1	3/21/2010 01:18 AM
Surr: Trifluoromethyl benzene	*77.1*		*70-130*	*%REC*	1	3/21/2010 01:18 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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10450 Stancliff Rd., Suite 210
Houston, Texas 77099
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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 #: 1003452

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	Bottom Hole	A TPH
Work Order		Project Number		B
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D
Address	~~E.~~ Main 501	Address	~~E.~~ Main 501	E
				F
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	~~(505)~~ 746-5421	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	WW Effluent #1	3-16-10	1413	S	None	1	X										
2	WW Effluent #2	↓	1418	S	↓	1	X										
3	WW Effluent #3		1422	S		1	X										
4	Temp Blank																
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ✓ Std 10 WK Days | 5 WK Days | Other: 3 WK Days | 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Aaron Strange	3-17-10	1615		10 Day TAT.
Relinquished by:	Date:	Time:	Received by (Laboratory): 3/18/10 0833	Cooler ID: / Cooler Temp: / QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	☑ Level II Std QC ☐ Level III Std QC/Raw Data ☐ 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.
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ALS Laboratory Group

Date: *29-Mar-10*

Client: Navajo Refining Company
Project: Disposal
Sample ID: Waste Water Effluent Soil
Collection Date: 3/12/2010 11:42 AM

Work Order: 1003356
Lab ID: 1003356-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			**SW7470**		Prep Date: **3/19/2010**	Analyst: **JCJ**
Mercury	ND		0.000200	mg/L	1	3/19/2010 04:13 PM
TCLP METALS			**SW1311/6020**		Prep Date: **3/19/2010**	Analyst: **SKS**
Arsenic	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Barium	**0.131**		**0.0500**	**mg/L**	10	3/19/2010 07:06 PM
Cadmium	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Chromium	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Lead	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Selenium	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Silver	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **3/19/2010**	Analyst: **ACN**
2,4,5-Trichlorophenol	ND		5.0	µg/L	1	3/22/2010 05:10 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	3/22/2010 05:10 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Cresols, Total	ND		15	µg/L	1	3/22/2010 05:10 PM
Hexachlorobenzene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Hexachloroethane	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Nitrobenzene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Pentachlorophenol	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Pyridine	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Surr: 2,4,6-Tribromophenol	*93.8*		*42-124*	*%REC*	1	3/22/2010 05:10 PM
Surr: 2-Fluorobiphenyl	*70.7*		*48-120*	*%REC*	1	3/22/2010 05:10 PM
Surr: 2-Fluorophenol	*63.6*		*20-120*	*%REC*	1	3/22/2010 05:10 PM
Surr: 4-Terphenyl-d14	*76.4*		*51-135*	*%REC*	1	3/22/2010 05:10 PM
Surr: Nitrobenzene-d5	*69.3*		*41-120*	*%REC*	1	3/22/2010 05:10 PM
Surr: Phenol-d6	*65.2*		*20-120*	*%REC*	1	3/22/2010 05:10 PM
TCLP VOLATILES			**SW1311/8260B**		Prep Date: **3/19/2010**	Analyst: **PC**
1,1-Dichloroethene	ND		100	µg/L	20	3/22/2010 03:51 PM
1,2-Dichloroethane	ND		100	µg/L	20	3/22/2010 03:51 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	3/22/2010 03:51 PM
2-Butanone	ND		200	µg/L	20	3/22/2010 03:51 PM
Benzene	ND		100	µg/L	20	3/22/2010 03:51 PM
Carbon tetrachloride	ND		100	µg/L	20	3/22/2010 03:51 PM
Chlorobenzene	ND		100	µg/L	20	3/22/2010 03:51 PM
Chloroform	ND		100	µg/L	20	3/22/2010 03:51 PM
Tetrachloroethene	ND		100	µg/L	20	3/22/2010 03:51 PM
Trichloroethene	ND		100	µg/L	20	3/22/2010 03:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *29-Mar-10*

Client: Navajo Refining Company
Project: Disposal
Work Order: 1003356
Sample ID: Waste Water Effluent Soil
Lab ID: 1003356-02
Collection Date: 3/12/2010 11:42 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Vinyl chloride	ND		100	µg/L	20	3/22/2010 03:51 PM
Surr: 1,2-Dichloroethane-d4	*89.5*		*70-125*	*%REC*	20	3/22/2010 03:51 PM
Surr: 4-Bromofluorobenzene	*101*		*72-125*	*%REC*	20	3/22/2010 03:51 PM
Surr: Dibromofluoromethane	*92.4*		*71-125*	*%REC*	20	3/22/2010 03:51 PM
Surr: Toluene-d8	*98.0*		*75-125*	*%REC*	20	3/22/2010 03:51 PM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	ND		40.0	mg/Kg	1	3/17/2010
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	ND		40.0	mg/Kg	1	3/17/2010
IGNITABILITY			**SW1030**			Analyst: **JBA**
Ignitability, Solid	**Negative**			**no unit**	1	3/23/2010 03:00 PM
PH			**SW9045B**			Analyst: **TDW**
pH	**7.96**		**0.100**	**pH Units**	1	3/23/2010 04:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

☑ ALS Laboratory Group
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Chain of Custody Form

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☐ 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 #: 1005556

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	~~ADT Inlet/Outlet~~ Disposal	A	~~TKN (350)~~ TCLP Voas
Work Order		Project Number		B	~~BOD~~ TCLP SemiVoas
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	~~COD (410.1)~~ TCLP metals
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D	~~Phenolics (420)~~ RCI
Address	501 E. Main	Address	501 E. Main	E	
				F	
City/State/Zip	Artesia, NM 88210	City/State/Zip	Artesia, NM 88210	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		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	T-124 Excavated Soil	3-11-10	1420	S	Y	1	X	X	X	X							
2	Temp.																
3	Waste Water Effluent Soil	3-12-10	11:42	S	Y	1	X	X	X	X							
4	W-55 Blast Media	3-12-10	1313	S	Y	1	X	X	X	X							
5																	
6																	
7																	
8																	
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: 3-12-10 | Time: 1615 | Received by:

Relinquished by: | Date: | Time: | Received by (Laboratory): 3/13/10 08:40

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Notes: 10 Day TAT.

Cooler ID | Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC ☐ TRRP CheckLis
☐ 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.

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ALS Laboratory Group

Date: *21-Jul-10*

Client: Navajo Refining Company
Project: Bottom Hole
Sample ID: WW Effluent #1
Collection Date: 7/15/2010 01:42 PM

Work Order: 1007504
Lab ID: 1007504-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **7/16/2010**	Analyst: **SE**
nC6 to nC12	ND		50	mg/Kg	1	7/18/2010 02:50 AM
>nC12 to nC28	ND		50	mg/Kg	1	7/18/2010 02:50 AM
>nC28 to nC35	ND		50	mg/Kg	1	7/18/2010 02:50 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	7/18/2010 02:50 AM
Surr: 2-Fluorobiphenyl	*117*		*70-130*	*%REC*	1	7/18/2010 02:50 AM
Surr: Trifluoromethyl benzene	*107*		*70-130*	*%REC*	1	7/18/2010 02:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *21-Jul-10*

Client: Navajo Refining Company
Project: Bottom Hole
Work Order: 1007504
Sample ID: WW Effluent #2
Lab ID: 1007504-02
Collection Date: 7/15/2010 01:46 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **7/16/2010**	Analyst: **SE**
nC6 to nC12	ND		49	mg/Kg	1	7/18/2010 04:53 AM
>nC12 to nC28	ND		49	mg/Kg	1	7/18/2010 04:53 AM
>nC28 to nC35	ND		49	mg/Kg	1	7/18/2010 04:53 AM
Total Petroleum Hydrocarbon	ND		49	mg/Kg	1	7/18/2010 04:53 AM
Surr: 2-Fluorobiphenyl	*114*		*70-130*	*%REC*	1	7/18/2010 04:53 AM
Surr: Trifluoromethyl benzene	*115*		*70-130*	*%REC*	1	7/18/2010 04:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group
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Houston, Texas 77099
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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 #: 1005041

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	Bottom Hole	A TPH
Work Order		Project Number		B
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D
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	575 748-3311	Phone	(505) 748-3311	H
Fax	575 746-5421 5451	Fax	(505) 746-5421	J
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	WW Effluent #1	7-15-10	1342	S	NO	1	X										
2	WW Effluent #2	↓	1346	S	↓	1	X										
3	WW Effluent #3	↓	1353	S	↓	1	X										
4	Temp Blank																
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ✓ Std 10 Wk Days | 5 Wk Days | 3 Wk Days | 2 | 24 Hour | Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
[signature]	7-15-10	1615	[signature]	
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] 7/16/10	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
- ☐ TRRP CheckList
- ☐ TRRP Level IV
- ☐ 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.

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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 ~N32°45'54.4" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

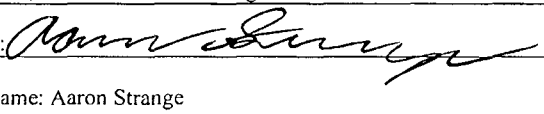
Type of Release: Spill of Treated Waste Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 04/15/2010 Unknown	Date and Hour of Discovery: 04/15/2010 ~ 09:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD District Supervisor (575-748-1283 extension 104). Spoke with Art Vollmer from the NMED Haz Waste Bureau (505-476-6045.	
By Whom? Aaron Strange	Date and Hour: 04/15/2010 at ~10:02 to Carl Chavez (OCD Santa Fe), 04/15/2010 at ~10:07 to the OCD Artesia office, and 04/15/2010 at ~10:10 to NMED Haz Waste Bureau.	
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 04/15/2010 at ~ 09:40 a leak was found between the Chukka and Gaines Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells at ~ N32°45'54.4", W104°14'17.4". The leak was excavated and the line was clamped and is holding The leak did not stain the soil. Bottom Hole samples were collected and tested for TPH. This same location was also tested for BTEX, Metals, and Anions after the leak that occurred on 09/27/2010. This leak was just a few feet from the leaks that occurred on 02/20/2010 and 09/27/2010.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: 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: 11/10/2010 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
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State of New Mexico
Energy Minerals and Natural Resources

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1220 South St. Francis Dr.
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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 ~N32°45'54.5" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waste Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 09/27/2010 Unknown	Date and Hour of Discovery: 09/27/2010 ~ 08:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD Artesia Office (575-748-1283 extension 102), and left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Aaron Strange	Date and Hour: 09/28/2010 at ~07:31 to Carl Chavez (OCD Santa Fe), 09/28/2010 at ~08:12 to the OCD Artesia office, and 09/28/2010 at ~08:16 to NMED Haz Waste Bureau.	
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 09/27/2010 at ~ 08:00 a leak was found between the Chukka and Gaines Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells at ~ N32°45'54.5", W104°14'17.4". The leak was excavated to make repairs and the soil was placed into roll-off bins. The leak did not stain the soil; however Navajo will dispose of the excavated soil as Non-Hazardous Waste per analytical results. Bottom Hole samples have been collected and tested for BTEX, Metals, and Anions. This leak was just a few feet from the leaks that occurred on 02/20/2010 and 04/15/2010.

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: 11/10/2010 Phone: 575-703-5057		

ALS Environmental

Date: *18-Oct-10*

Client:	Navajo Refining Company		
Project:	WW Effluent	**Work Order:**	1010346
Sample ID:	Leak from 9-27-10 #1	**Lab ID:**	1010346-01
Collection Date:	10/7/2010 12:30 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **IGF**
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 04:20 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 04:20 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 04:20 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 04:20 PM
Surr: 4-Bromofluorobenzene	*92.4*		*75-131*	*%REC*	1	10/12/2010 04:20 PM
Surr: Trifluorotoluene	*90.3*		*73-130*	*%REC*	1	10/12/2010 04:20 PM
MERCURY			**SW7471A**		Prep Date: **10/14/2010**	Analyst: **JCJ**
Mercury	5.26		3.45	µg/Kg	1	10/14/2010 03:40 PM
METALS			**SW6020**		Prep Date: **10/13/2010**	Analyst: **SKS**
Aluminum	10,200		87.7	mg/Kg	100	10/14/2010 09:33 PM
Antimony	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Arsenic	3.55		0.439	mg/Kg	1	10/14/2010 06:42 AM
Barium	134		43.9	mg/Kg	100	10/14/2010 09:33 PM
Beryllium	0.575		0.439	mg/Kg	1	10/14/2010 06:42 AM
Cadmium	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Calcium	40,400		4,390	mg/Kg	100	10/14/2010 09:33 PM
Chromium	8.69		0.439	mg/Kg	1	10/14/2010 06:42 AM
Cobalt	3.61		0.439	mg/Kg	1	10/14/2010 06:42 AM
Copper	6.21		0.439	mg/Kg	1	10/14/2010 06:42 AM
Iron	6,830		43.9	mg/Kg	1	10/14/2010 06:42 AM
Lead	4.74		0.439	mg/Kg	1	10/14/2010 06:42 AM
Magnesium	9,320		43.9	mg/Kg	1	10/14/2010 06:42 AM
Manganese	255		43.9	mg/Kg	100	10/14/2010 09:33 PM
Nickel	7.85		0.439	mg/Kg	1	10/14/2010 06:42 AM
Potassium	2,670		43.9	mg/Kg	1	10/14/2010 06:42 AM
Selenium	0.701		0.439	mg/Kg	1	10/14/2010 06:42 AM
Silver	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Sodium	689		43.9	mg/Kg	1	10/14/2010 06:42 AM
Strontium	221		43.9	mg/Kg	100	10/14/2010 09:33 PM
Thallium	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Vanadium	16.3		0.439	mg/Kg	1	10/14/2010 06:42 AM
Zinc	21.0		0.439	mg/Kg	1	10/14/2010 06:42 AM
ANIONS			**E300**		Prep Date: **10/13/2010**	Analyst: **DM**
Chloride	146		4.98	mg/Kg	1	10/14/2010 12:34 PM
Sulfate	7,620		49.8	mg/Kg	10	10/14/2010 04:11 PM
Surr: Selenate (surr)	*108*		*85-115*	*%REC*	10	10/14/2010 04:11 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 12:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client:	Navajo Refining Company		
Project:	WW Effluent	**Work Order:**	1010346
Sample ID:	Leak from 9-27-10 #2	**Lab ID:**	1010346-02
Collection Date:	10/7/2010 12:34 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **IGF**
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 01:01 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 01:01 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 01:01 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 01:01 PM
Surr: 4-Bromofluorobenzene	*93.4*		*75-131*	*%REC*	1	10/12/2010 01:01 PM
Surr: Trifluorotoluene	*92.8*		*73-130*	*%REC*	1	10/12/2010 01:01 PM
MERCURY			**SW7471A**		Prep Date: **10/14/2010**	Analyst: **JCJ**
Mercury	8.09		3.57	µg/Kg	1	10/14/2010 03:42 PM
METALS			**SW6020**		Prep Date: **10/13/2010**	Analyst: **SKS**
Aluminum	2,220		90.1	mg/Kg	100	10/14/2010 09:39 PM
Antimony	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Arsenic	1.84		0.450	mg/Kg	1	10/14/2010 06:48 AM
Barium	174		45.0	mg/Kg	100	10/14/2010 09:39 PM
Beryllium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Cadmium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Calcium	54,000		4,500	mg/Kg	100	10/14/2010 09:39 PM
Chromium	2.52		0.450	mg/Kg	1	10/14/2010 06:48 AM
Cobalt	1.21		0.450	mg/Kg	1	10/14/2010 06:48 AM
Copper	1.86		0.450	mg/Kg	1	10/14/2010 06:48 AM
Iron	2,710		45.0	mg/Kg	1	10/14/2010 06:48 AM
Lead	2.08		0.450	mg/Kg	1	10/14/2010 06:48 AM
Magnesium	1,970		45.0	mg/Kg	1	10/14/2010 06:48 AM
Manganese	188		45.0	mg/Kg	100	10/14/2010 09:39 PM
Nickel	2.39		0.450	mg/Kg	1	10/14/2010 06:48 AM
Potassium	415		45.0	mg/Kg	1	10/14/2010 06:48 AM
Selenium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Silver	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Sodium	195		45.0	mg/Kg	1	10/14/2010 06:48 AM
Strontium	119		0.450	mg/Kg	1	10/14/2010 06:48 AM
Thallium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Vanadium	6.30		0.450	mg/Kg	1	10/14/2010 06:48 AM
Zinc	6.76		0.450	mg/Kg	1	10/14/2010 06:48 AM
ANIONS			**E300**		Prep Date: **10/13/2010**	Analyst: **DM**
Chloride	58.0		4.92	mg/Kg	1	10/14/2010 12:55 PM
Sulfate	6,630		49.2	mg/Kg	10	10/14/2010 04:32 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	10	10/14/2010 04:32 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 12:55 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client:	Navajo Refining Company		
Project:	WW Effluent	**Work Order:**	1010346
Sample ID:	Leak from 9-27-10 #3	**Lab ID:**	1010346-03
Collection Date:	10/7/2010 12:49 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 02:03 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 02:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 02:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 02:03 PM
Surr: 4-Bromofluorobenzene	*94.8*		*75-131*	*%REC*	1	10/12/2010 02:03 PM
Surr: Trifluorotoluene	*92.2*		*73-130*	*%REC*	1	10/12/2010 02:03 PM
MERCURY			SW7471A		Prep Date: 10/14/2010	Analyst: JCJ
Mercury	6.73		3.61	µg/Kg	1	10/14/2010 03:44 PM
METALS			SW6020		Prep Date: 10/13/2010	Analyst: SKS
Aluminum	6,810		92.6	mg/Kg	100	10/14/2010 09:45 PM
Antimony	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Arsenic	3.00		0.463	mg/Kg	1	10/14/2010 06:54 AM
Barium	73.3		0.463	mg/Kg	1	10/14/2010 06:54 AM
Beryllium	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Cadmium	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Calcium	79,800		4,630	mg/Kg	100	10/14/2010 09:45 PM
Chromium	5.65		0.463	mg/Kg	1	10/14/2010 06:54 AM
Cobalt	2.43		0.463	mg/Kg	1	10/14/2010 06:54 AM
Copper	4.62		0.463	mg/Kg	1	10/14/2010 06:54 AM
Iron	4,510		46.3	mg/Kg	1	10/14/2010 06:54 AM
Lead	3.76		0.463	mg/Kg	1	10/14/2010 06:54 AM
Magnesium	7,040		46.3	mg/Kg	1	10/14/2010 06:54 AM
Manganese	178		46.3	mg/Kg	100	10/14/2010 09:45 PM
Nickel	5.19		0.463	mg/Kg	1	10/14/2010 06:54 AM
Potassium	1,670		46.3	mg/Kg	1	10/14/2010 06:54 AM
Selenium	0.523		0.463	mg/Kg	1	10/14/2010 06:54 AM
Silver	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Sodium	408		46.3	mg/Kg	1	10/14/2010 06:54 AM
Strontium	530		46.3	mg/Kg	100	10/14/2010 09:45 PM
Thallium	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Vanadium	11.0		0.463	mg/Kg	1	10/14/2010 06:54 AM
Zinc	14.3		0.463	mg/Kg	1	10/14/2010 06:54 AM
ANIONS			E300		Prep Date: 10/13/2010	Analyst: DM
Chloride	50.9		4.93	mg/Kg	1	10/14/2010 01:17 PM
Sulfate	12,100		493	mg/Kg	100	10/14/2010 04:54 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	100	10/14/2010 04:54 PM
Surr: Selenate (surr)	*107*		*85-115*	*%REC*	1	10/14/2010 01:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client:	Navajo Refining Company		
Project:	WW Effluent	**Work Order:**	1010346
Sample ID:	Leak from 9-27-10 #4	**Lab ID:**	1010346-04
Collection Date:	10/7/2010 01:02 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 02:24 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 02:24 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 02:24 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 02:24 PM
Surr: 4-Bromofluorobenzene	*96.4*		*75-131*	*%REC*	1	10/12/2010 02:24 PM
Surr: Trifluorotoluene	*91.7*		*73-130*	*%REC*	1	10/12/2010 02:24 PM
MERCURY			SW7471A		Prep Date: 10/14/2010	Analyst: JCJ
Mercury	13.7		3.51	µg/Kg	1	10/14/2010 03:46 PM
METALS			SW6020		Prep Date: 10/13/2010	Analyst: SKS
Aluminum	8,550		90.1	mg/Kg	100	10/14/2010 09:51 PM
Antimony	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Arsenic	4.45		0.450	mg/Kg	1	10/14/2010 07:00 AM
Barium	86.8		0.450	mg/Kg	1	10/14/2010 07:00 AM
Beryllium	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Cadmium	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Calcium	53,900		4,500	mg/Kg	100	10/14/2010 09:51 PM
Chromium	7.28		0.450	mg/Kg	1	10/14/2010 07:00 AM
Cobalt	3.29		0.450	mg/Kg	1	10/14/2010 07:00 AM
Copper	7.54		0.450	mg/Kg	1	10/14/2010 07:00 AM
Iron	6,010		45.0	mg/Kg	1	10/14/2010 07:00 AM
Lead	4.56		2.25	mg/Kg	5	10/14/2010 07:42 PM
Magnesium	5,720		45.0	mg/Kg	1	10/14/2010 07:00 AM
Manganese	127		0.450	mg/Kg	1	10/14/2010 07:00 AM
Nickel	7.05		0.450	mg/Kg	1	10/14/2010 07:00 AM
Potassium	2,200		45.0	mg/Kg	1	10/14/2010 07:00 AM
Selenium	0.683		0.450	mg/Kg	1	10/14/2010 07:00 AM
Silver	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Sodium	332		45.0	mg/Kg	1	10/14/2010 07:00 AM
Strontium	135		0.450	mg/Kg	1	10/14/2010 07:00 AM
Thallium	ND		2.25	mg/Kg	5	10/14/2010 07:42 PM
Vanadium	12.7		0.450	mg/Kg	1	10/14/2010 07:00 AM
Zinc	17.7		0.450	mg/Kg	1	10/14/2010 07:00 AM
ANIONS			E300		Prep Date: 10/13/2010	Analyst: DM
Chloride	89.6		4.97	mg/Kg	1	10/14/2010 01:39 PM
Sulfate	11,900		497	mg/Kg	100	10/14/2010 05:16 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	100	10/14/2010 05:16 PM
Surr: Selenate (surr)	*108*		*85-115*	*%REC*	1	10/14/2010 01:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client:	Navajo Refining Company		
Project:	WW Effluent	**Work Order:**	1010346
Sample ID:	Background N32 46' 05.6"-W104 13' 42.0"	**Lab ID:**	1010346-05
Collection Date:	10/7/2010 01:10 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 02:45 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 02:45 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 02:45 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 02:45 PM
Surr: 4-Bromofluorobenzene	*91.7*		*75-131*	*%REC*	1	10/12/2010 02:45 PM
Surr: Trifluorotoluene	*89.5*		*73-130*	*%REC*	1	10/12/2010 02:45 PM
MERCURY			SW7471A		Prep Date: **10/14/2010**	Analyst: JCJ
Mercury	11.4		3.46	µg/Kg	1	10/14/2010 03:32 PM
METALS			SW6020		Prep Date: **10/13/2010**	Analyst: SKS
Aluminum	7,740		90.1	mg/Kg	100	10/14/2010 09:58 PM
Antimony	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Arsenic	1.92		0.450	mg/Kg	1	10/14/2010 07:06 AM
Barium	63.5		0.450	mg/Kg	1	10/14/2010 07:06 AM
Beryllium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Cadmium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Calcium	21,000		4,500	mg/Kg	100	10/14/2010 09:58 PM
Chromium	6.53		0.450	mg/Kg	1	10/14/2010 07:06 AM
Cobalt	2.49		0.450	mg/Kg	1	10/14/2010 07:06 AM
Copper	5.23		0.450	mg/Kg	1	10/14/2010 07:06 AM
Iron	5,960		45.0	mg/Kg	1	10/14/2010 07:06 AM
Lead	5.83		0.450	mg/Kg	1	10/14/2010 07:06 AM
Magnesium	2,790		45.0	mg/Kg	1	10/14/2010 07:06 AM
Manganese	140		0.450	mg/Kg	1	10/14/2010 07:06 AM
Nickel	5.89		0.450	mg/Kg	1	10/14/2010 07:06 AM
Potassium	1,840		45.0	mg/Kg	1	10/14/2010 07:06 AM
Selenium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Silver	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Sodium	ND		45.0	mg/Kg	1	10/14/2010 07:06 AM
Strontium	23.7		0.450	mg/Kg	1	10/14/2010 07:06 AM
Thallium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Vanadium	8.36		0.450	mg/Kg	1	10/14/2010 07:06 AM
Zinc	18.9		0.450	mg/Kg	1	10/14/2010 07:06 AM
ANIONS			E300		Prep Date: **10/13/2010**	Analyst: DM
Chloride	5.54		4.91	mg/Kg	1	10/14/2010 02:44 PM
Sulfate	28.9		4.91	mg/Kg	1	10/14/2010 02:44 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	1	10/14/2010 02:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

☑ ALS Laboratory Group
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☐ 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 #: 1010346

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name:	WW Effluent	A BTEX
Work Order		Project Number:		B Metals (totals)
Company Name:	Navajo Refining Company	Bill To Company:	Navajo Refining Company	C Anions (chloride, sulphate)
Send Report to:	Aaron Strange	Invoice Attn:	Aaron Strange	D
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)~~ 575 748-3311	Phone:	~~(505)~~ 748-3311	H
Fax:	~~(505) 746-5421~~ 575 5451	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	Leak from 9-27-10 #1	10-7-10	12:30	S	NO	2	X	X	X								
2	Leak from 9-27-10 #2		12:34				X	X	X								
3	Leak from 9-27-10 #3		12:49				X	X	X								
4	Leak from 9-27-10 #4 N 32°46'05.6"		13:02				X	X	X								
5	Background W 104°13'42.0"		13:10				X	X	X								
6	Leak from 5-3-10 N 32°45'54.3"		13:34				X	X	X								
7	Background W 104°14'13.0"		13:40				X	X	X								
8	Temp Blank																
9	Trip Blank																
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

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:
Aaron Strange	10-7-10	16:15		
Relinquished by:	Date:	Time:	Received by (Laboratory): 10/8/10 09:00	Cooler ID / Cooler Temp
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

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 / EDD

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.
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3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Environmental

Date: 12-Oct-10

Client:	Navajo Refining Company		
Project:	Disposal	**Work Order:**	10091037
Sample ID:	WW Effluent Leak	**Lab ID:**	10091037-02
Collection Date:	9/29/2010 02:33 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			**SW7470**		Prep Date: **10/6/2010**	Analyst: **JCJ**
Mercury	ND		0.000200	mg/L	1	10/6/2010 04:11 PM
TCLP METALS			**SW1311/6020**		Prep Date: **10/7/2010**	Analyst: **ALR**
Arsenic	ND		0.0500	mg/L	10	10/8/2010 06:34 AM
Barium	**0.166**		**0.0500**	**mg/L**	10	10/8/2010 06:34 AM
Cadmium	ND		0.0500	mg/L	10	10/8/2010 06:34 AM
Chromium	ND		0.0500	mg/L	10	10/8/2010 06:34 AM
Lead	ND		0.0500	mg/L	10	10/8/2010 06:34 AM
Selenium	ND		0.0500	mg/L	10	10/8/2010 06:34 AM
Silver	ND		0.0500	mg/L	10	10/8/2010 06:34 AM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **10/6/2010**	Analyst: **ACN**
2,4,5-Trichlorophenol	ND		5.0	µg/L	1	10/7/2010 05:07 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	10/7/2010 05:07 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Cresols, Total	ND		15	µg/L	1	10/7/2010 05:07 PM
Hexachlorobenzene	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Hexachloroethane	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Nitrobenzene	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Pentachlorophenol	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Pyridine	ND		5.0	µg/L	1	10/7/2010 05:07 PM
Surr: 2,4,6-Tribromophenol	*50.5*		*42-124*	*%REC*	1	10/7/2010 05:07 PM
Surr: 2-Fluorobiphenyl	*49.1*		*48-120*	*%REC*	1	10/7/2010 05:07 PM
Surr: 2-Fluorophenol	*38.9*		*20-120*	*%REC*	1	10/7/2010 05:07 PM
Surr: 4-Terphenyl-d14	*67.3*		*51-135*	*%REC*	1	10/7/2010 05:07 PM
Surr: Nitrobenzene-d5	*42.3*		*41-120*	*%REC*	1	10/7/2010 05:07 PM
Surr: Phenol-d6	*37.2*		*20-120*	*%REC*	1	10/7/2010 05:07 PM
TCLP VOLATILES			**SW1311/8260B**		Prep Date: **10/6/2010**	Analyst: **PC**
1,1-Dichloroethene	ND		100	µg/L	20	10/7/2010 04:32 PM
1,2-Dichloroethane	ND		100	µg/L	20	10/7/2010 04:32 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	10/7/2010 04:32 PM
2-Butanone	ND		200	µg/L	20	10/7/2010 04:32 PM
Benzene	**330**		**100**	**µg/L**	20	10/7/2010 04:32 PM
Carbon tetrachloride	ND		100	µg/L	20	10/7/2010 04:32 PM
Chlorobenzene	ND		100	µg/L	20	10/7/2010 04:32 PM
Chloroform	ND		100	µg/L	20	10/7/2010 04:32 PM
Tetrachloroethene	ND		100	µg/L	20	10/7/2010 04:32 PM
Trichloroethene	ND		100	µg/L	20	10/7/2010 04:32 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *12-Oct-10*

Client: Navajo Refining Company
Project: Disposal
Work Order: 10091037
Sample ID: WW Effluent Leak
Lab ID: 10091037-02
Collection Date: 9/29/2010 02:33 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Vinyl chloride	ND		100	µg/L	20	10/7/2010 04:32 PM
Surr: 1,2-Dichloroethane-d4	*101*		*70-125*	*%REC*	20	10/7/2010 04:32 PM
Surr: 4-Bromofluorobenzene	*99.0*		*72-125*	*%REC*	20	10/7/2010 04:32 PM
Surr: Dibromofluoromethane	*95.5*		*71-125*	*%REC*	20	10/7/2010 04:32 PM
Surr: Toluene-d8	*99.6*		*75-125*	*%REC*	20	10/7/2010 04:32 PM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	ND		40.0	mg/Kg	1	10/5/2010 08:30 AM
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	ND		40.0	mg/Kg	1	10/5/2010 08:30 AM
IGNITABILITY			**SW1030**			Analyst: **JLC**
Ignitability, Solid	Negative			no unit	1	10/5/2010 10:00 AM
PH			**SW9045B**			Analyst: **JLC**
pH	7.80		0.100	pH Units	1	10/11/2010 10:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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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 #: 1011051

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Disposal	A	TCLP VOAs
Work Order		Project Number		B	TCLP semiVOAs
Company Name	Navajo Refining Co.	Bill To Company		C	TCLP metals
Send Report To	Aaron Strange	Invoice Attn		D	RCI
Address	P.O. BOX 159	Address		E	
				F	
City/State/Zip	Artesia NM 88211	City/State/Zip		G	
Phone	575-748-3311	Phone		H	
Fax	575-746-5451	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	Soil SE of T-58	9-29-10	13:33	S	NO	1	X	X	X	X							
2	WW Effluent Leak	9-29-10	14:33	S	NO	1	X	X	X	X							
3	Temp Blank																
4	Trip Blank																
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

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:
Aaron Strange	9-29-10	1615	[illegible] 9/30/10 08:45	
Relinquished by:	Date:	Time:	Received by (Laboratory):	
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

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3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, November 12, 2010 7:33 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 final report
Attachments: CIMG0064.jpg; CIMG0066.jpg; CIMG0067.jpg; CIMG0068.jpg; New Image0059.jpg; effluent leaks 010.jpg; effluent leaks 011.jpg; effluent leaks 012.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached photos per the email below

Thank you,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Friday, November 12, 2010 7:27 AM
To: Strange, Aaron; 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'; 'larry.hill@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 final report

Hope, Carl, Randy, and Buddy,

Please see the attached photos per the email below. I have attached about 1/3rd of the photos and will send the rest in two other emails following this email.

Thank you,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Thursday, November 11, 2010 11:36 AM
To: 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'; 'larry.hill@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 final report

Hope, Carl, Randy, and Buddy,

Please see the attached final C-141s from the effluent leaks on 2/20/2010, 4/14/2010, and 9/27/2010. These are the three leaks that were very close together. Also attached are the associated analytical results. I am also sending the associated photos on another email following this.

Thank you,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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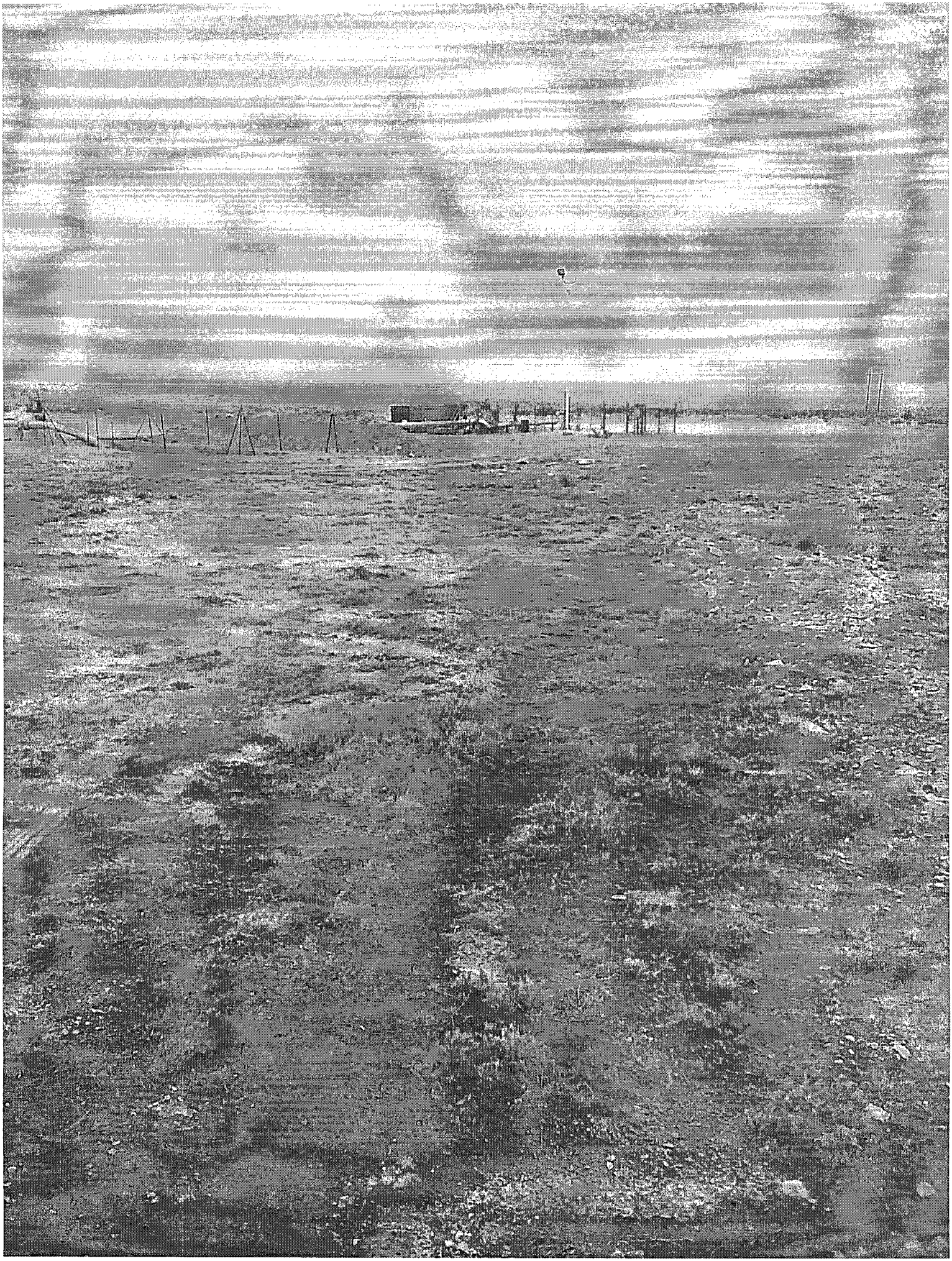

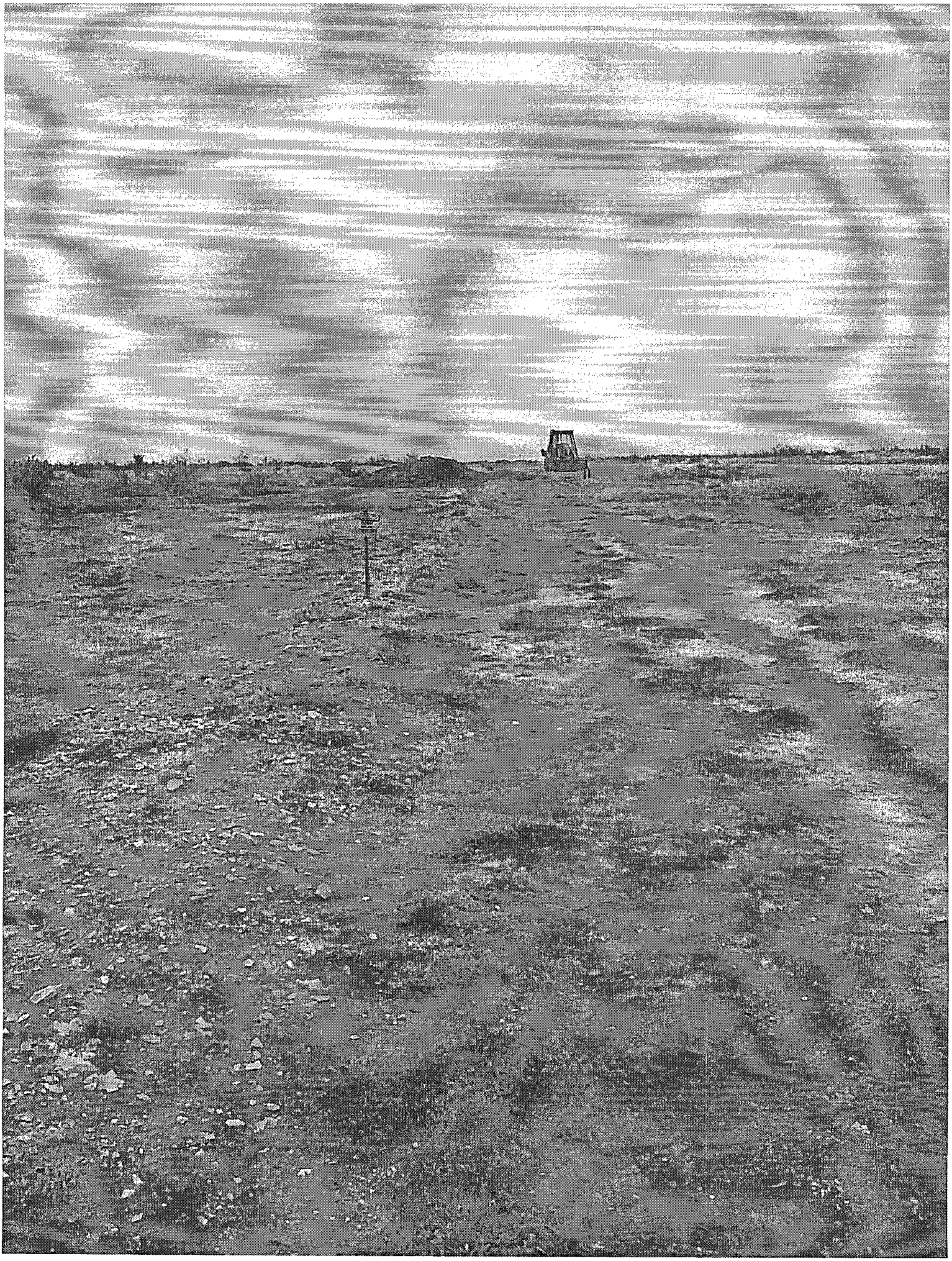

11/05/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, November 12, 2010 7:34 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 final report
Attachments: effluent leaks 013.jpg; effluent leaks 001.jpg; effluent leaks 002.jpg; effluent leaks 003.jpg; effluent leaks 004.jpg; effluent leaks 005.jpg; effluent leaks 006.jpg; effluent leaks 007.jpg; effluent leaks 008.jpg; effluent leaks 009.jpg

Hope, Carl, Randy, and Buddy,

Please see the attached photos per the emails below. This should be the last of the photos.

Thank you,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Friday, November 12, 2010 7:33 AM
To: 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'; 'larry.hill@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 final report

Hope, Carl, Randy, and Buddy,

Please see the attached photos per the email below

Thank you,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Friday, November 12, 2010 7:27 AM
To: Strange, Aaron; 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'; 'larry.hill@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 final report

Hope, Carl, Randy, and Buddy,

Please see the attached photos per the email below. I have attached about 1/3rd of the photos and will send the rest in two other emails following this email.

Thank you,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Thursday, November 11, 2010 11:36 AM
To: 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'; 'larry.hill@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 final report

Hope, Carl, Randy, and Buddy,

Please see the attached final C-141s from the effluent leaks on 2/20/2010, 4/14/2010, and 9/27/2010. These are the three leaks that were very close together. Also attached are the associated analytical results. I am also sending the associated photos on another email following this.

Thank you,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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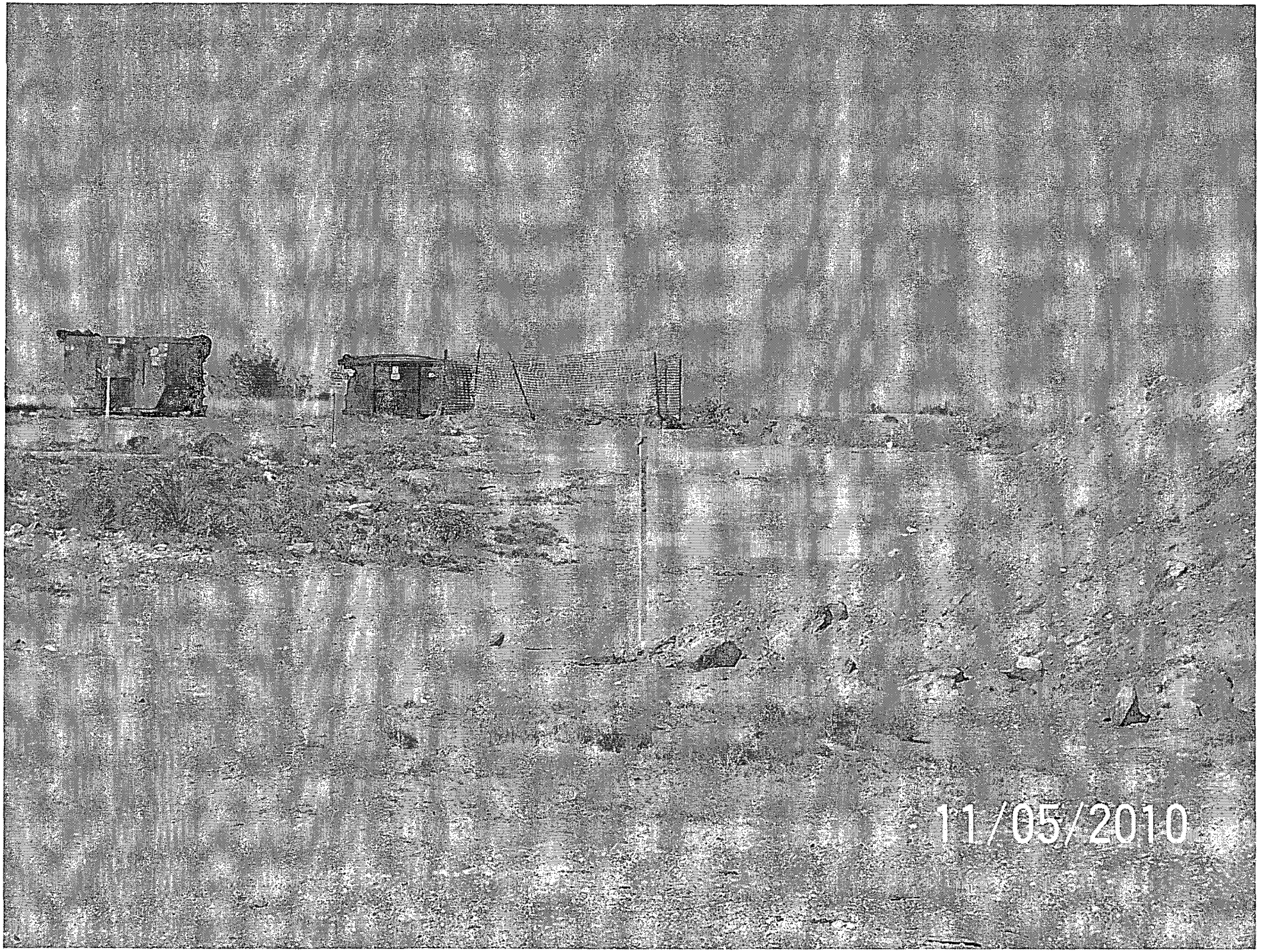
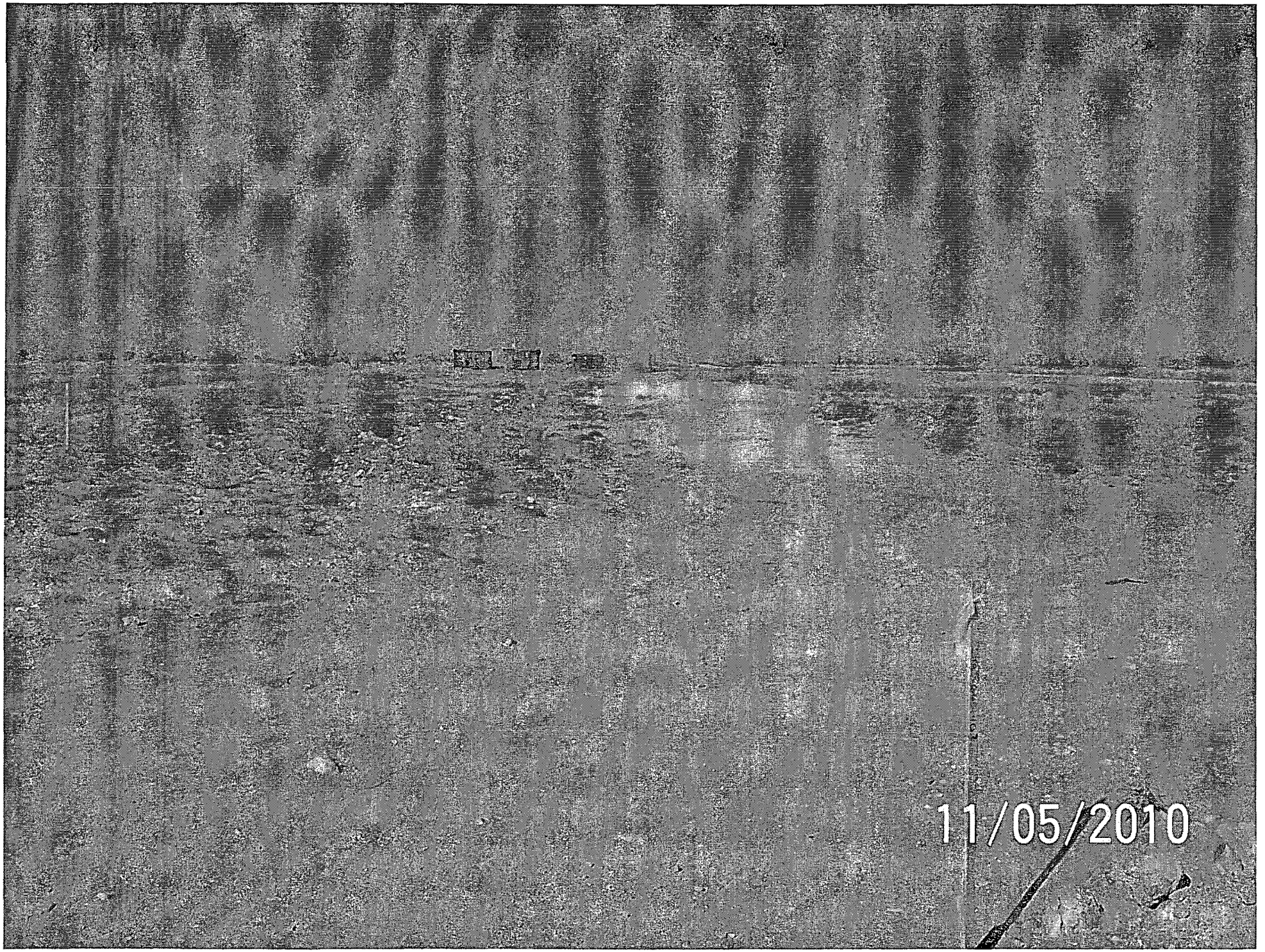
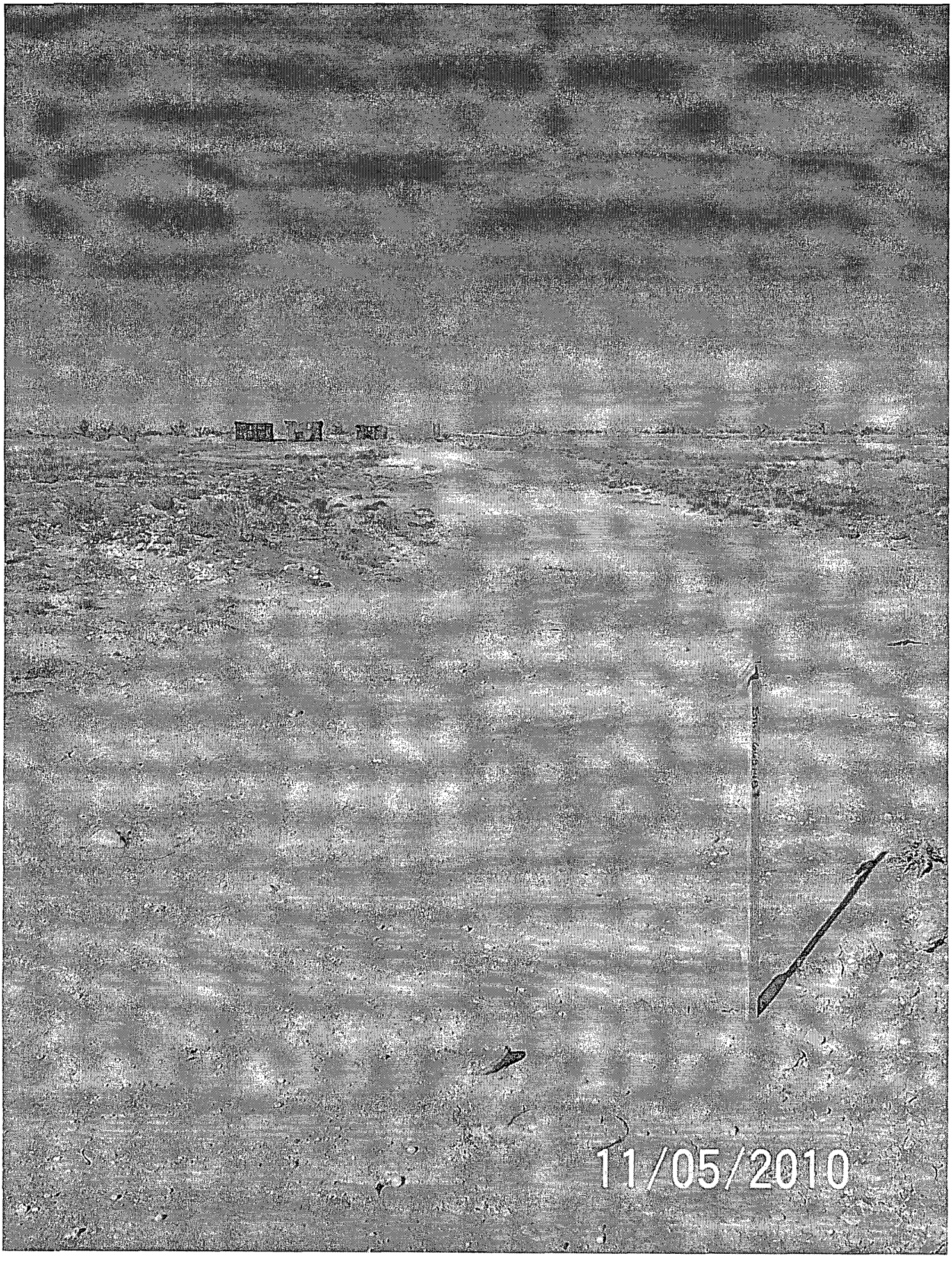
11/05/2010

11/05/2010


11/05/2010


11/05/2010


11/05/2010

11/05/2010

11/05/2010

11/05/2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, November 08, 2010 10:31 AM
To: Chavez, Carl J, EMNRD; Dade, Randy, EMNRD; Monzeglio, Hope, NMENV
Cc: Lackey, Johnny
Subject: 11-07-2010 leak near T-1225

Hope, Carl, and Randy,

On 11/07/2010 Navajo reported a leak of water and hydrocarbon near Tank T-1225. At the time of the leak and when Navajo made the notifications, Navajo did not have an estimated volume. After further investigation Navajo determined that the leak was less than 4 barrels and was not a reportable spill event. No C-141 will be submitted.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, October 29, 2010 4:47 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 initial report
Attachments: 2010-10-25 JP8 Leak.pdf

Hope, Carl, Randy, and Buddy,

Please see the attached C-141 for the JP8 (Jet Fuel) leak.

Also, below are the measurements that Hope requested. They were gauged on 10/28/2010.

RW-8: 12' to product and 14.6 to water
NCL-34: 11.8' to water (no product)
MW-67: 10.5' to water (no product)
MW-41: 9.2' to water (no product)
MW-43:11.9' to water (no product)

Thanks,
Aaron

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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 ~N32°45'54.5" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Leak of JP8 (Jet Fuel) from underground line	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Hole in JP8 line under Freeman Street	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 10/25/2010 ~ 11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), Left voicemail with OCD Artesia Office (575-748-1283 extension 102), and left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Aaron Strange	Date and Hour: 10/26/2010 at ~09:32 to Carl Chavez (OCD Santa Fe), 10/26/2010 at ~09:37 to the OCD Artesia office, and 10/26/2010 at ~09:41 to NMED Haz Waste Bureau.	
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 10/25/2010 at ~ 11:00 a leak was found on the JP8 (Jet Fuel) line going to T-835. A leak was suspected when ~13 feet of hydrocarbon was found in Monitoring Well # 94. Navajo pressure tested the suspected lines and found a leak in the section of the JP8 line that runs under Freeman Street. The leaking section of underground line was pumped out then removed and replaced with new pipe.

Describe Area Affected and Cleanup Action Taken.*
The area affected starts where the JP8 line goes under Freeman Street and heads east. This is located East of the Diesel Booster pumps and just southwest of Monitoring Well # 94. Navajo has gauged several nearby wells (RW-8, NCL-34, MW-67, MW-41, and MW-43) as requested by NMED and have only found hydrocarbon in MW-94 and RW-8. Navajo has started to pump MW # 94 and will also be pumping Recovery Well # 8 as part remediation effort. The product did not come to the service of the ground. No soil other than what was excavated to replace the leaking section of line was 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: 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: 10/29/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Tuesday, October 26, 2010 3:15 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: FW: Product discovery in MW-94

Aaron

Please provide NMED with the measurements by Friday October 29.

Thank you.

Hope

From: Monzeglio, Hope, NMENV
Sent: Tuesday, October 26, 2010 2:39 PM
To: Strange, Aaron
Cc: Moore, Darrell; Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV
Subject: Product discovery in MW-94

Aaron

Due to the discovered product in MW-94; the next time Navajo personnel is bailing MW-94, Navajo must collect depth to water and depth to product measurements from MW-67, MW-24, and RW-7. Please email NMED the measurements. This will help determine if the release is migrating.

Let me know if you have any questions.

Thank you.
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, October 08, 2010 4:37 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Subject: RE: C-141 Effluent Line Leak
Attachments: 2010-05-03 Effluent Line Leak.pdf; 2010-04-15 Effluent Line Leak.pdf

Carl,

While looking over the effluent line leaks, I could tell if two C-141s had been sent. I have updated the two of them with GPS coordinates and have attached them to this email.

Thank you,
Aaron

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Strange, Aaron
Sent: Friday, October 01, 2010 4:19 PM
To: 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'; 'randy.dade@state.nm.us'
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Effluent Line Leak

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Energy Minerals and Natural Resources

Oil Conservation Division
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Form C-141
Revised October 10, 2003

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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 ~N32°46'03.8" **Longitude** ~W104°13'44.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Mewborne Injection Wells.	Date and Hour of Occurrence: 05/03/2010 Unknown	Date and Hour of Discovery: 05/03/2010 ~ 15:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Notified Carl Chavez from OCD in Santa Fe (505-476-3490), OCD Artesia office (575-748-1283), and Hope Monzeglio with the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Darrell Moore	Date and Hour: 05/032010 at ~18:06 to Carl Chavez (OCD Santa Fe), 05/03/2010 at ~18:10 to the OCD Artesia office, and 05/03/2010 at ~18:08 to NMED Haz Waste Bureau.	
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 04/15/2010 at ~ 09:40 a leak was found between the Chukka and Mewborne Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Mewborne Injection Wells at ~ N32°46'03.8", W104°13'44.4". The leak was excavated and the line was clamped and is holding. The leak did not stain the soil. Bottom Hole samples have be collected and are being tested for BTEX, Metals, and Anions.

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: 10/08/2010 Phone: 575-703-5057		

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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 ~N32°45'54.4" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 04/15/2010 Unknown	Date and Hour of Discovery: 04/15/2010 ~ 09:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD District Supervisor (575-748-1283 extension 104). Spoke with Art Vollmer from the NMED Haz Waste Bureau (505-476-6045.	
By Whom? Aaron Strange	Date and Hour: 04/15/2010 at ~10:02 to Carl Chavez (OCD Santa Fe), 04/15/2010 at ~10:07 to the OCD Artesia office, and 04/15/2010 at ~10:10 to NMED Haz Waste Bureau.	
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 04/15/2010 at ~ 09:40 a leak was found between the Chukka and Gaines Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells at ~ N32°45'54.4", W104°14'17.4". The leak was excavated and the line was clamped and is holding The leak did not stain the soil. Bottom Hole samples were collected and tested for TPH. This leak was just a few feet from the leak that occurred on 2/20/2010.

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: 10/08/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, October 01, 2010 4:19 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Effluent Line Leak
Attachments: 2010-09-27 Effluent Line Leak.pdf

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Form C-141
Revised October 10, 2003

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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 ~N32°45'54.5" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 09/27/2010 ~ 07:20 (Unknown)	Date and Hour of Discovery: 09/27/2010 ~ 08:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD Artesia Office (575-748-1283 extension 102), and left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Aaron Strange	Date and Hour: 09/28/2010 at ~07:31 to Carl Chavez (OCD Santa Fe), 09/28/2010 at ~08:12 to the OCD Artesia office, and 09/28/2010 at ~08:16 to NMED Haz Waste Bureau.	
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 09/27/2010 at ~ 08:00 a leak was found between the Chukka and Gaines Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells at ~ N32°45'54.5", W104°14'17.4". The leak was excavated to make repairs and the soil was placed into roll-off bins. The leak did not stain the soil; however Navajo will dispose of the excavated soil per analytical results. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions. This leak was just a few feet from the leaks that occurred on 2/20/2010 and 4/15/2010.

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: 10/01/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, September 28, 2010 4:53 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Fire Report
Attachments: 2010-09-23 Old Cooling Tower Fire.pdf

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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 (Smoldering slag on wood)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Y-4 Cooling Tower (Out of service and being demolished)	Date and Hour of Occurrence: 09/23/2010 ~ 14:50	Date and Hour of Discovery: 09/23/2010 ~ 14:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez (Santa Fe OCD at 505-476-3490). Spoke with Randy Dade (Artesia OCD 575-748-1283). Left voicemail with Hope Monzeglio of the NMED Haz Waste Bureau @ 505-476-6000.	
By Whom? Aaron Strange	Date and Hour: 09/24/2010 at ~14:45 to Santa Fe OCD, 09/24/2010 at ~14:50 to Artesia OCD, and 09/24/2010 at ~14:41 to NMED Haz Waste Bureau.	
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 09/23/2010 at ~ 14:50 a fire was reported at Y-4 Cooling Tower. A fan and piping was being removed as part of the demolition of Y-4. While lifting a pipe that had had been cut with a cutting torch, slag fell down and smoldered on the old, dry wood of the cooling tower. The fire alarm was sounded and operations immediately used a fire monitor from the FCC Unit to wet down the wood and prevent it from flaring up.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the inside of Y-4 Cooling Tower south of the FCC Unit (Unit 10). There was no damage to anything other than the cooling tower itself (which is being demolished). No one was injured. Nothing spilled out on the ground. No cleanup was needed.

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: 09/28/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, September 28, 2010 1:04 PM
To: Chavez, Carl J, EMNRD
Cc: Dade, Randy, EMNRD
Subject: Artesia Refinery (GW-028) Effluent Line Leaks & Note to File

Aaron Strange called this morning at around 7:45 a.m. to report a recent discovery of a leak (~ 15 ft. from the 2 previous C-141 releases) along the effluent line to the UIC disposal wells ~ 1 mile west of the Pecos River. The lines are driven daily and this one was noticed with corrective action (installation of clamp seal on line and excavation of contaminated soils).

Went over Quarterly Effluent Monitor Reports for UICI-008 to identify chemicals of concern to verify remediation occurred and was completed, i.e., BTEX and Metals. Found one C-141 release form dated 2/20/2010 for one of the two past releases. Requested soil sample data from the previous 2 releases mentioned by Aaron along the effluent line. Analyticals from this most recent release.

Aaron will be sending a C-141 for this release. The refinery is planning to replace the entire line next year. Randy Dade is planning to inspect the line along the release location. I asked whether the location of the past releases is located near a bend in the line due to their proximity. Aaron did not know at the time of the call.

Ok.

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")

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, September 23, 2010 3:14 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Lackey, Johnny; Strange, Aaron
Subject: Fire in Cooling Tower

Carl and Hope

Today at approximately 2:50 pm, a fire occurred in an old cooling tower that we are tearing down. A fan was being removed as part of the demolition and the old, dry wood caught on fire. The fire was extinguished by Navajo's onsite fire department and there was no damage to anything other than the cooling tower itself (which is being demolished).

Aaron Strange will fill out the C-141 and submit it to NMED and OCD. If there are any questions concerning this event, please call me at 575-746-5281.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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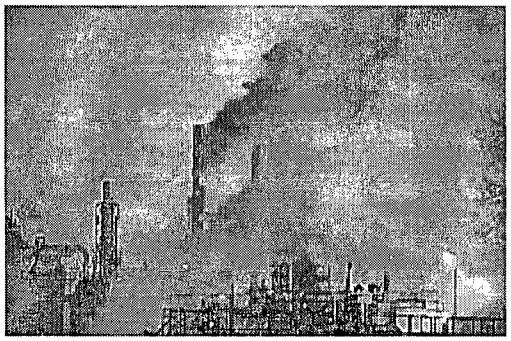
Artesia refinery fined $707,000 for safety lapses associated with deadly blast

By Bryant Furlow 9/17/10 11:48 AM DIGG TWEET



Navajo refinery. Photo by Glembly

The Navajo Refining Company has been fined $707,000 for after state investigators found the company knowingly failed to correct safety problems before a deadly March 2 storage tank explosion and fire at the company's plant in Artesia, N.M.

Two workers, Natividad Andajo and Victor Villa, were killed in the blast, their bodies were burned beyond recognition. Two other workers, both critically-injured, were airlifted to a hospital in Lubbock, Texas.

The plant processes crude oil into gasoline, diesel fuel and jet fuel.
The state Occupational Safety and Health Bureau has issued citations for one "serious" violation and 10 "willful" violations — the most serious category of infraction. Violations included the company's failure to train employees to recognize explosive hazards, failing to maintain fire prevention and fire protection programs, and allowing workers to conduct welding operations in the presence of flammable vapors.

"Serious" workplace safety violations are those representing hazards or conditions with a "substantial probability that death or serious physical harm could result," Bureau records show. "Willful" violations are even more serious, representing situations in which the employer knows a hazardous situation exists but makes a knowing, intentional decision not to correct it.

Bureau investigators had issued a total of 10 previous serious safety violation citations against the Navajo Refinery over the three years leading up to the March 2010 storage tank explosion, The Independent reported July 14. Those previous violations included a failure to maintain adequate fireproofing on support beams, missing guard rails, missing danger signs, missing electrical safety equipment and improperly maintained worker respirator equipment.

The Navajo Refinery explosion in March was just one of a string of refinery blasts and fires that have killed dozens of workers over recent years. New Mexico also has the nation's deadliest

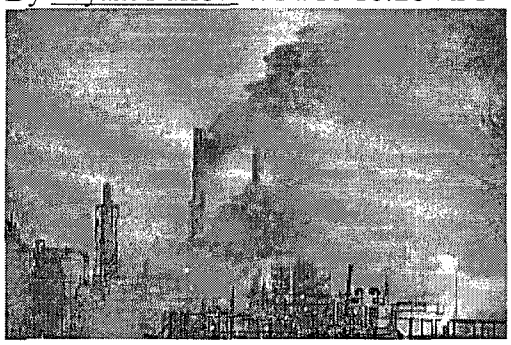
natural gas pipeline safety record. U.S. Senators Barbara Boxer and Dianne Feinstein have announced they will soon introduce national pipeline safety legislation, in the aftermath of the massive San Bruno, Calif., pipeline blast last week.

The Navajo refinery reported a hydrogen sulfide leak Sept. 8. In 2009, the Bureau cited the refinery after finding employees had been exposed to hydrogen sulfide fumes at concentrations exceeding the federal occupational safety regulation limit of 50 parts per million. One worker was exposed to 662 parts per million — more than 13 times higher than federal safety regulations permit — without adequate personal protection equipment, inspectors found. Even brief exposures involving inhalation of hydrogen sulfide at concentrations above 500 parts per million can kill and cause permanent brain damage, according to the U.S. Agency for Toxic Substances and Disease Registry (ATSDR).

The Holly Corporation-owned Navajo Refinery is composed of two separate plants: one in Artesia and another 65 miles to the east, in Lovington. The two plants are considered a single refinery because they transfer petroleum products by pipeline and both plants contribute to the same refinery process, Occupational Safety and Health Bureau chief Butch Tongate said.

Artesia refinery cited for safety violations before deadly explosion

By Bryant Furlow 7/14/10 10:28 AM



Navajo refinery. Photo by Glembly

Artesia Fire Chief J.D. Hummingbird heard the explosion at the Navajo Refinery just before 1 p.m. March 2. He stepped outside to see a large, black plume of smoke rising from the facility, which sits at the intersection of two busy highways less than a mile from the fire station. Firefighters arrived to find a storage tank, where contractors had been welding, engulfed in flames.

Two of the workers, Natividad Andajo and Victor Villa, were dead. Their bodies were burned beyond recognition.

Two other workers, both critically-injured, were airlifted to a hospital in Lubbock, Texas. One of them, Juan Carlos Hermosillo, 24, suffered broken arms, broken hips and fractured vertebrae. The refinery's Dallas, Texas-based parent company, Holly Corporation, immediately issued a press release confirming at least one fatality.

The New Mexico Occupational Health and Safety Bureau is investigating the explosion, Bureau chief Butch Tongate told The Independent earlier this week.

The exact cause of the explosion is not yet clear, but the investigation comes at a time of increasing concern about safety problems at refineries nationwide. Hermosillo, who filed a lawsuit from his hospital bed in March, claims in court records that safety inspections were not conducted before welding began the day of the explosion.
"The fire was tragic and the cause is still under investigation," refinery attorney Joel Carson told The Independent in an e-mail.

Four lawsuits have been filed against the refinery, Carson said: two by the dead workers' families and two by the injured workers. The company conducted internal safety reviews but cannot comment on those because of those pending lawsuits, Carson wrote.

Ten 'serious' safety violations in three years

Bureau inspection records obtained by The Independent show a series of serious safety lapses at the Navajo Refinery between 2007 and 2009. A total of three Bureau inspections — a comprehensive, four-day-long inspection in December 2007 and two single-day inspections in November 2008 and October 2009 — identified a total of 11 occupational safety violations at the Navajo Refinery, Bureau records show.

All but one of the violations were deemed "serious," meaning they represented a hazard or condition with a "substantial probability that death or serious physical harm could result," Bureau records show.

None of the violations involved storage tanks and the company remedied the identified problems within months of being cited, Bureau records confirm.

Nine of the 11 violations were identified during the comprehensive 2007 inspection. That inspection was part of a nationwide effort coordinated by the U.S. Occupational Safety and Health Administration (OSHA), Navajo Refining Company President David Lamp told The Independent in an e-mail.

"We always conduct our business with high regard for the health and safety of our employees, contractors, and neighboring communities," Lamp wrote. "The items identified in this investigation carried penalties of approximately $1,000 to $2,000 for each item, plus a requirement to take corrective action for each noted deficiency. Navajo paid total fines of approximately $15,000, corrected the majority of the items in the month the report was issued, with all items corrected within three months of the report."

The facility is actually composed of two separate plants: one in Artesia and another 65 miles to the east, in Lovington. The two plants are considered a single refinery because they transfer petroleum products by pipeline and both plants contribute to the same refinery process, Tongate said.

The 2007 inspection identified nine violations, eight of them serious, ranging from damaged fire-proof coating on facility support beams and missing guard rails, to missing danger signs, missing electrical safety equipment and improperly maintained respiration equipment.
Padlocks that ensure electrical equipment is turned off before repairs are attempted, were not properly installed, inspectors found in 2007. Two years later, during the November 2009 inspection, inspectors discovered lax lockout procedures, including the substitution of padlocks with plastic zip ties.

"That's a situation where there's a piece of machinery where they are required to de-energize ... in case somebody accidentally turns it on while somebody's inside," Tongate explained.
Other serious safety violations at both plants involved inadequate fireproofing. Fireproofing was cracked at damaged on a column in the Artesia plant, inspectors found in 2007.
Fireproofing was an even more serious issue at the Lovington plant.

"Fire proofing on several columns throughout the (Lovington) plant was damaged," a June 2, 2008 Bureau violation letter states.

The safety violations identified in the 2007 inspection were corrected in summer 2008, within months of the company's receipt of Bureau citation letters, Lamp wrote in an e-mail. "Safety is our number one priority and we take all safety matters seriously," Lamp wrote. But in 2009, state inspectors found that employees had been exposed to hydrogen sulfide fumes at concentrations exceeding the federal occupational safety regulation limit of 50 parts per million. One worker was exposed to 662 parts per million — more than 13 times higher than federal safety regulations permit — without adequate personal protection equipment, inspectors found.

Even brief exposures involving inhalation of hydrogen sulfide at concentrations above 500 parts per million can kill and cause permanent brain damage, according to the U.S. Agency for Toxic Substances and Disease Registry (ATSDR).

The Navajo Refinery, in New Mexico's southeastern plains, is the larger of state's two active petroleum refineries. It processes between 80,000 and 100,000 barrels per day of crude oil, producing gasoline, diesel, jet fuel and butane, according to the Holly website. company earnings reports and the U.S. Energy Information Administration.

Another explosion at the Artesia plant, caused by a butane gas leak, injured 17 workers nearly 30 years ago, in May 1981.

Holly Corporation owns two other refineries, in Tulsa, Oklahoma and Woods Cross, Utah.

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

Certified Mail - Return Receipt Requested

September 1, 2010

Darrell Moore
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211-0159

RE:

AUGUST 21, 2010 OILY WATER SEWERS NEAR API OVERFLOW TO GROUND AND TETRA ETHEL LEAD
NAVAJO REFINING COMPANY, ARTESIA REFINERY
EPA ID #: NMD048918817
NRC-MISC

Dear Mr. Moore:

The New Mexico Environment Department (NMED) has received Navajo Refining Company's (the Permittee) Release Notification of Corrective Action Operator, C-141 form. The C-141 form reports information for the sewer overflow that occurred on August 21, 2010. In the C-141 form, the Permittee states that the "Oily Water Sewers near the API (Oil Water Separator) were overflowing onto the ground. A heavy rainstorm caused the sewer near the API to overflow...The area affected starts at the north end of the API lift station and runs east where it soaked in on the west side of the TEL (Tetra Ethyl Lead) impoundment. The contaminated soil will be disposed of properly. Bottom Hole samples will be collected after it has been cleaned up."

Because the overflow reached the TEL impoundment, which is a hazardous waste management unit and is currently in post-closure care under the Post-Closure Care Permit, the Permittee must submit a report that describes in detail all cleanup activities related to this release. The report may be submitted in letter format and must include details for all cleanup and soil removal activities (e.g., how the soil was removed and how much soil was removed), the number of soil samples collected (non confirmation/confirmation), an explanation for how the soil samples were collected, describe the analytical methods used, as well as, include all laboratory reports. The

report must also include a legible figure(s) that show the location of the overflow and provides the location(s) for all soil removal and confirmation sampling (as a reminder confirmation samples must be discrete samples and not composite). The report must also indicate where the excavated soils were stockpiled and ultimately disposed.

The Report must be submitted to NMED on or before December 15, 2010. If you have any questions regarding this letter please contact Hope Monzeglio of my staff at (505) 476-6045.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
H. Monzeglio, NMED HWB
C. Chavez, OCD
J. Lackey, NRC
A. Strange, NRC
File: Reading and NRC 2010

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, August 26, 2010 2:33 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Spill Report
Attachments: 2010-08-21 API Sewer Overflow.pdf

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: Spill of Water and Hydrocarbon (Oily Water Sewer Overflow)	Volume of Release: ~5 barrels	Volume Recovered: 0
Source of Release: Oily Water Sewers near API (Oil Water Separator) in Unit 80 Waste Water Treater.	Date and Hour of Occurrence: 08/21/2010 ~ 17:30	Date and Hour of Discovery: 08/21/2010 ~ 18:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Santa Fe OCD (575-476-3490). Left voicemail with Artesia OCD (575-748-1283 ext 104). Left voicemail with NMED Haz Waste Bureau (505-476-6000).	
By Whom? Gabriela Combs	Date and Hour: 08/212010 at ~19:00 to Santa Fe OCD, 08/21/2010 at ~19:10 to Artesia OCD), and 08/021/2010 at ~19:01 to NMED.	
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 08/21/10 at ~ 18:30 an operator discovered that the Oily Water Sewers near the API (Oil Water Separator) were overflowing onto the ground. A heavy rainstorm caused the sewer near the API to overflow. The two trash pumps were turned on until the level came down.

Describe Area Affected and Cleanup Action Taken.*
The area affected starts at the north end of the API lift station and runs east where it soaked in on the west side of the TEL (Tetra Ethel Lead) impoundment. The contaminated soil will be disposed of properly. Bottom Hole samples will be collected after it has been cleaned up.

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: 08/26/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, August 25, 2010 3:01 PM
To: Chavez, Carl J, EMNRD; Michael Leighton
Cc: Lackey, Johnny; Strange, Aaron; VonGonten, Glenn, EMNRD
Subject: RE: Spill at Lovington

Carl

The tank number is D-70 and it contains RO Reject water. We have collected samples and are analyzing for calcium, sodium, chloride, fluoride and alkalinity and metals. There are no hydrocarbons in this stream.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, August 10, 2010 7:30 AM
To: Moore, Darrell; Michael Leighton
Cc: Lackey, Johnny; Strange, Aaron; VonGonten, Glenn, EMNRD
Subject: RE: Spill at Lovington

Darrell:

What is the Tank No. and chemical contents of the tank that the spill occurred from? 5000 mmhos/cm specific conductivity is elevated. Some sampling consistent with the chemical contents of tank is likely required for this "Minor Release" to confirm that the 20.6.2.3103 NMAC and/or 20.6.2.7 NMAC Toxic Pollutants were not present. Based on the chemical contents of the tank, the OCD expects some samples to be collected to determine whether some excavation work needs to be conducted for this "Minor Release". Thanks.

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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Monday, August 09, 2010 2:23 PM
To: Chavez, Carl J, EMNRD; Michael Leighton
Cc: Lackey, Johnny; Strange, Aaron
Subject: Spill at Lovington

Carl and Mike

Steve Terry notified me at 1:50 pm today that a water valve in our water softening unit at the Lovington facility had malfunctioned and overran a tank. The spill consists of 10 bbll of water with a conductivity of 5000 mmho/cm. The spill is located near the RO Unit and didn't spill enough to over run the road which is directly west of the unit. The spilled water has soaked in so no standing water was available to be vacuumed up.

A spill report will be filled out by Aaron Strange and sent to you in a timely manner.

If there are any questions, please contact me at 575-746-5281.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC

Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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State of New Mexico
Energy Minerals and Natural Resources

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

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

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, August 16, 2010 2:54 PM
To: Chavez, Carl J, EMNRD
Subject: Four Corners Diesel Spill
Attachments: Four Corners Diesel Spill.pdf

Cral

Attached is the C-141 for a spill at our Four Corners Manifold inside the Artesia Refinery.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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State of New Mexico
Energy Minerals and Natural Resources

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

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: Spill (Diesel)	Volume of Release: ~ 14 barrels	Volume Recovered: ~ 13 barrels
Source of Release: Open bleeder valve at Holly Energy Partners (HEP) 10 inch Empire Line Manifold	Date and Hour of Occurrence: 08/12/2010 ~ Unknown	Date and Hour of Discovery: 08/12/2010 ~ 11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from Santa Fe OCD (575-476-3490). Left voicemail with Artesia OCD (575-748-1283 ext 104). Left voicemail with NMED Haz Waste Bureau (505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 08/12/2010 at ~14:48 to Carl Chavez (Santa Fe OCD), 08/12/2010 at ~14:56 to Artesia OCD), and 08/12/2010 at ~14:59 to NMED.	
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.* Bleeder valve was left open on diesel line by our Pipeline Subsidiary operators. However, since the spill is on refinery property, we are reporting it. Remedial action taken – a small hole was dug to allow the spill to pool up and a vacuum truck was called to suck up the hydrocarbons.

Describe Area Affected and Cleanup Action Taken.*
The area affected is an area about 10' wide by 25' long in Pipelines "Four Corners Manifold Area". Pipeline has contracted Safety and Environmental Solutions to do the cleanup. Contaminated soil is being removed into roll-off boxes and bottom-hole samples will be 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: 08/16/2010 Phone: 575-703-5058		

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, August 12, 2010 4:24 PM
To: 'Strange, Aaron'; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: C-141 Spill Report

Aaron:

FYI, Navajo Refining Company exceeded the discharge permit section 16 twenty-four hour notification period.

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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Thursday, August 12, 2010 2:41 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Spill Report

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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1301 W. Grand Avenue, Artesia, NM 88210
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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 (Natural Gas)	Volume of Release: NA	Volume Recovered: NA
Source of Release: D-8801 (Desulfurizer) top manway gasket leak	Date and Hour of Occurrence: 08/09/2010 ~ 21:20	Date and Hour of Discovery: 08/09/2010 ~ 21:20
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Artesia OCD (575-748-1283 ext. 104). Left voicemail with Hope Monzeglio of the NMED Haz Waste Bureau @ 505-476-6000.	
By Whom? Aaron Strange	Date and Hour: 08/11/2010 at ~11:13 to Carl Chavez (Santa Fe OCD), 08/11/2010 at ~11:24 to Artesia OCD, and 08/11/2010 at ~11:28 to NMED Haz Waste Bureau.	
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 08/09/2010 at ~ 21:20 a fire was discovered at the top manway on D-8801in the #1 Hydrogen Unit (Unit 63). The manway gasket started to leak and the hot feed gas (natural gas) caught on fire. Operations extinguished the fire with a couple handheld fire extinguishers and a steam hose. The fire was put out by ~21:25. D-8801 was in the lead position and operations was able to put D-8802 into the lead position and block in D-8801 without shutting down the unit. D-8801 is being purged with nitrogen until the gasket can be replaced.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the top manway on D-8801 in the #1 Hydrogen Unit (Unit 63). There were no damages from the fire. No one was injured from the fire. Nothing spilled out on the ground. No cleanup was needed.

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: 08/12/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, July 09, 2010 4:28 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Spill Report
Attachments: 2010-07-06 Leak from T-433 C-141.pdf

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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: Spill (Gas Oil)	Volume of Release: ~ 5 barrels	Volume Recovered: ~ 0 barrels
Source of Release: Tank T-433	Date and Hour of Occurrence: 07/06/2010 ~ 11:50	Date and Hour of Discovery: 07/06/2010 ~ 11:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez from Santa Fe OCD (575-476-3490). Left voicemail with Artesia OCD (575-748-1283 ext 104). Left voicemail with NMED Haz Waste Bureau (505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 07/07/2010 at ~09:08 to Carl Chavez (Santa Fe OCD), 07/07/2010 at ~09:10 to Artesia OCD), and 07/07/2010 at ~09:14 to NMED.	
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 07/06/10 at ~ 11:50 an operator discovered Gas Oil leaking out of the north west side of Tank T-433. The source of the leak is unknown at this time and Navajo is working diligently to deinventory the tank into another Gas Oil Tank (T-438). Once the tank is empty and clean, Navajo will inspect the tank to determine the source of the leak and determine what repairs are needed.

Describe Area Affected and Cleanup Action Taken.*
The area affected was inside the tank dike of Tank T-433. Approximately 5 barrels of Gas Oil has leaked onto the ground but remains within the tank dike. At this time it is too muddy to get equipment to the area of the spill for clean up due to recent rain storms. Navajo will remove the contaminated soil once equipment can get inside the tank dike. The contaminated soil will be disposed of per analytical results. Bottom Hole samples will be collected after it has been cleaned up.

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: 07/09/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Wednesday, June 16, 2010 7:17 AM
To: Chavez, Carl J, EMNRD
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Thanks!

From: Chavez, Carl J, EMNRD
Sent: Friday, June 11, 2010 4:36 PM
To: Lackey, Johnny; Strange, Aaron
Cc: VonGonten, Glenn, EMNRD; Moore, Darrell; Whatley, Michael
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Ok. Thanks.

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")

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Friday, June 11, 2010 2:15 PM
To: Chavez, Carl J, EMNRD; Strange, Aaron
Cc: VonGonten, Glenn, EMNRD; Moore, Darrell; Whatley, Michael
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

General Precautions to Avoid Pyrophoric Iron Fires

1. The scraps and debris collected from cleaning of filters in naphtha / crude service **must be kept wet** and disposed of underground.
2. Tanks, reactors, columns, and exchangers in high-sulfur feed service must be kept properly blanketed with N_2 during idle periods.
3. All equipment and structured packing must be properly water washed **and kept wet when exposed to the atmosphere**.
4. In processes where catalyst handling is required (such as in Hydrotreating and fluid catalytic cracking) caution must be taken during catalyst recharge or disposal. When unloading any spent coked catalyst, the possibility exists for **iron sulfide fires**. If the spent catalyst is warm and contacts oxygen, iron sulfide will ignite spontaneously and the ensuing reaction may generate enough heat to ignite carbon deposited on the catalyst. Therefore catalyst must be stripped of all hydrocarbons, cooled to about 50 ^{o}C and **wetted with water to prevent it from igniting vapors**. Once cooled, the used catalyst may be emptied into drums for later shipment to a regenerator or a disposal site. As the catalyst may be highly **pyrophoric (containing iron sulfide**, etc.), it should be dumped into drums containing an internal liner for shipment. The drum and liner should first be filled with inert gas, which is then displaced by the

catalyst. The liner should be tied off and a small chunk of dry ice placed inside the drum before sealing. These precautions should protect against catalyst auto ignition.

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Friday, June 11, 2010 1:50 PM
To: Lackey, Johnny; Strange, Aaron
Cc: VonGonten, Glenn, EMNRD; Moore, Darrell; Whatley, Michael
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Johnny:

Let OCD know when you find a solution and implement the corrective action to address this threat. Seems like your immediate short-term corrective action was to isolate dumpsters away from the plant and explosive potential areas until you can figure this out.... Please double check how adding moisture to filters, I think this should not be done. 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")

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Friday, June 11, 2010 1:32 PM
To: Chavez, Carl J, EMNRD; Strange, Aaron
Cc: VonGonten, Glenn, EMNRD; Moore, Darrell; Whatley, Michael
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Carl:

Navajo has hired Aqua Microbics, a leader in the application of industrial wastewater treatment products and services, to evaluate our wastewater treatment system to identify causes of the formation of iron sulfide in the effluent line to the injection wells. Navajo has not previously had a problem with iron sulfide formation which led to the recent filter auto ignition (dry iron sulfide in the presence of oxygen will auto ignite) at the injection wells when the filters were removed and placed in the disposal bin. Navajo's Process Engineering Group is evaluating conditions during the recent start-up of the crude vacuum unit to determine whether this could have contributed to iron sulfide formation in the pipeline. This has not been a continuing problem and is still being investigated.

Navajo recently changed out the walnut hulls in the walnut filters. Since changing the walnut hulls the injection well filter change frequency has dropped dramatically. At Aqua Microbics direction, Navajo is currently adding a sand filter prior to wastewater entering the effluent line to the injection wells. The sand filter is used to separate small amounts (<10 parts per million or <10 g per cubic meter) of fine solids (<100 microns) from aqueous solutions. Sand filtration is commonly used in liquid effluent (wastewater) treatment.

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, June 08, 2010 12:13 PM
To: Chavez, Carl J, EMNRD; Lackey, Johnny; Strange, Aaron
Cc: VonGonten, Glenn, EMNRD
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Johnny and Aaron:

Please update OCD on your C-141 findings to investigate process changes that may account for iron sulfide in your system and cause of the fire with any corrective action(s) to prevent the reoccurrence. As specified in the attached article, this ignition source could lead to larger catastrophic incidents based on ignition at the wrong place at the wrong time.... Also, in the attached article it says in combination with moisture may not be a good thing either for auto ignition. It would seem that this problem would not be anything new as the refinery waste water would be expected to contain iron sulfide.

Could this problem have and is continuing to be problem at the refinery, but Navajo is now having to report fires so we are seeing this reoccur? Is there a crude oil change that is different from the past (Canadian Crude) that is causing this problem?

Let's find a solution before there is a fire accident. Let me know by this Friday COB if you have found the cause and a CA to this problem.

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")

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 08, 2010 6:23 AM

To: 'Lackey, Johnny'
Cc: VonGonten, Glenn, EMNRD
Subject: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Re:

UIC Injection Well Filters at Roll-Off Bins @ Chuka & Mewbourn Class I (NH) Disposal Wells	Fire	None	Unknown	One fire out at time of call w/ other fire being addressed	6/4/10 0:00	Followup t determine disposal flu would ignit under STP
Filters in Roll-Off Bins at Artesia Refinery	Fire	None	Unknown	Extinguished in few minutes	6/6/10 0:00	Followup t determine waste wate would ignit under STP

Johnny:

Good morning. These roll-off bin waste water filter fires have been reoccurring at the refinery and now showing up at the disposal wells. Could you please review the analytical from UIC disposal fluid and let me know what chemical you think may be reacting at STP with filters to auto-ignite or what is causing this so Navajo can implement CA?

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")

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the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, June 15, 2010 4:25 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Fire Report
Attachments: P-2517 Pump Seal Fire.pdf

Carl, Randy, Buddy, and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
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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: P-2517 Pump Seal	Date and Hour of Occurrence: 06/11/2010 ~ 13:00	Date and Hour of Discovery: 06/11/2010 ~ 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Artesia OCD (575-748-1283). Left voicemail with NMED Haz Waste Bureau @ 505-476-6000.	
By Whom? Aaron Strange	Date and Hour: 06/11/2010 at ~17:55 to Carl Chavez (Santa Fe OCD), 06/11/2010 at ~17:57 to Artesia OCD, and 06/11/2010 at ~18:02 NMED Haz Waste Bureau.	
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 06/11/2010 at ~ 17:35 the High Pressure Flush Pump (P-2517) seal went out and leaked LCO (Light Cycle Oil) which caught on fire. Operations extinguished the fire with a handheld fire extinguisher and blocked in the pump. The fire was put out by ~17:40. The spare pump will be used until the P-2517 seal is replaced.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the pump seal on the High Pressure Flush Pump (P-2517) in the ROSE #2 Unit (Unit 25). There were no other damages besides the pump seal. No one was injured from the fire. The pump is on a concrete pad within the unit that has sewers. Nothing spilled out on the ground. No cleanup was needed.

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: 06/15/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Monday, June 07, 2010 10:10 AM
To: Moore, Darrell; Strange, Aaron
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Tongate, Butch, NMENV; Kieling, John, NMENV; Lackey, Johnny
Subject: Fires - C-141

Aaron and Darrell

A reminder, written notification of releases/ fires must be submitted to NMED within five calendar days of contacting NMED of the incident (refer to Section 1.5.13.c (Written Notice) of the Post-Closure Care Permit). Navajo must also refer to Section 1.5.13.c if the five day written notification requirement cannot be met. C-141 forms may be used to complete the written notification. Please include all details and descriptions of the fires and include what caused the fires to ignite.

There are three incidents in which written notifications must be submitted, one incident has passed the five day written notification deadline. Please let me know the status of when the written notifications will be submitted.

1) May 31, 2010 - fire at exchanger 2110 at the South Plant

2) June 4, 2010 - two fires in the roll off bins at the injection wells

3) June 6, 2010 - fire at a roll off bin.

Please contact me if you have additional questions.

Thank you.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, June 07, 2010 4:20 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD; Hill, Larry, EMNRD
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Fire Reports
Attachments: 2010-06-06 Roll-Off Bin Fire.pdf; 2010-06-04 Fires at Injection Wells.pdf; 2010-5-31 Vacuum Unit X-2110 fire.pdf

Carl, Randy, Buddy, and Hope,

Please see the attached C-141 forms for the recent fires.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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 (Iron Sulfide)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Used filters from filter pots at Waste Water Injection Wells.	Date and Hour of Occurrence: 06/04/2010 ~ 13:00	Date and Hour of Discovery: 06/04/2010 ~ 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Artesia OCD (575-748-1283). Left voicemail with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 06/04/2010 at ~13:50 to Carl Chavez (Santa Fe OCD), 06/04/2010 at ~13:53 to Artesia OCD, and 06/04/2010 at ~13:57 to Hope Monzeglio (NMED Haz Waste Bureau).	
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 06/04/2010 at ~ 13:10, two roll-off bins containing used filters from the filter pots at the Waste Water Injection Wells caught on fire. The filters (containing Iron Sulfide) dried out and ignited in the ~100°F weather. The Navajo fire team responded to the fires and extinguished them with water and dry chemical. The iron sulfide is new to this waste. Navajo has never seen this before. We are investigating to see if any process changes can account for the iron sulfide in this stream.

Describe Area Affected and Cleanup Action Taken.*
The areas affected were the roll-off bins located at the Mewbourn and Chukka Injection Wells. The bins were on concrete containments next to the injection wells. The paint and tarps on the bins were damaged by the fire. No one was injured. No cleanup was needed.

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: 06/07/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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 (Iron Sulfide)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Used filters from filter pots at Waste Water Injection Wells.	Date and Hour of Occurrence: 06/04/2010 ~ 13:00	Date and Hour of Discovery: 06/04/2010 ~ 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Artesia OCD (575-748-1283). Left voicemail with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 06/04/2010 at ~13:50 to Carl Chavez (Santa Fe OCD), 06/04/2010 at ~13:53 to Artesia OCD, and 06/04/2010 at ~13:57 to Hope Monzeglio (NMED Haz Waste Bureau).	
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 06/04/2010 at ~ 13:10, two roll-off bins containing used filters from the filter pots at the Waste Water Injection Wells caught on fire. The filters (containing Iron Sulfide) dried out and ignited in the ~100°F weather. The Navajo fire team responded to the fires and extinguished them with water and dry chemical. The iron sulfide is new to this waste. Navajo has never seen this before. We are investigating to see if any process changes can account for the iron sulfide in this stream.

Describe Area Affected and Cleanup Action Taken.*
The areas affected were the roll-off bins located at the Mewbourn and Chukka Injection Wells. The bins were on concrete containments next to the injection wells. The paint and tarps on the bins were damaged by the fire. No one was injured. No cleanup was needed.

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: 06/07/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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 (Iron Sulfide)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Used filters from filter pots at Waste Water Injection Wells.	Date and Hour of Occurrence: 06/06/2010 ~ 16:00	Date and Hour of Discovery: 06/06/2010 ~ 16:10
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Artesia OCD (575-748-1283). Left voicemail with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Doug Price	Date and Hour: 06/06/2010 at ~16:24 to Carl Chavez (Santa Fe OCD), 06/06/2010 at ~16:22 to Artesia OCD, and 06/06/2010 at ~16:26 to Hope Monzeglio (NMED Haz Waste Bureau).	
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 06/06/2010 at ~ 16:00, a roll-off bin containing used filters from the filter pots at the Waste Water Injection Wells caught on fire again. This was one of the same bins that caught on fire on 06/04/2010. The filters (containing Iron Sulfide) dried out and ignited in the ~100°F weather. The Navajo fire team responded to the fire and extinguished it with water and dry chemical. The filters were transferred into a hard top bin and water was added to the bin to prevent them from igniting again. The iron sulfide is new to this waste. Navajo has never seen this before. We are investigating to see if any process changes can account for the iron sulfide in this stream.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a roll-off bin that was located on the east end of the plant away from all units and tanks. The paint and tarps on the bins were already damaged form the previous fire on 06/04/2010. Nothing else was damaged and no one was injured. No cleanup was needed.

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: 06/07/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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 (Vacuum Gas Oil)	Volume of Release: NA	Volume Recovered: NA
Source of Release: Bell head leak on exchanger (X-2110) in the Vacuum Unit (Unit 21).	Date and Hour of Occurrence: 05/31/2010 ~ 14:10	Date and Hour of Discovery: 05/31/2010 ~ 14:15
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Artesia OCD (575-748-1283). Spoke with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Aaron Strange	Date and Hour: 06/01/2010 at ~15:06 to Carl Chavez (Santa Fe OCD), 06/01/2010 at ~15:11 to Artesia OCD, and 06/01/2010 at ~15:16 to Hope Monzeglio (NMED Haz Waste Bureau).	
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 05/31/2010 at ~ 02:10 there was a fire at exchanger X-2110 in the Vacuum Unit (unit 21). The bell head on X-2110 leaked VGO (Vacuum Gas Oil) onto the insulation blanket and flashed. The fire was put out immediately using hand held fire extinguishers. Maintenance tightened the channel head to stop the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was bell head on exchanger X-2110 in the Vacuum Unit (unit 21). There were only minor damages to the insulation blanket and no one was injured from the fire. The exchanger is located in a unit that has concrete pad and oily water sewers however nothing got onto the pad or onto the ground. No cleanup was needed.

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: 06/07/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 08, 2010 12:13 PM
To: Chavez, Carl J, EMNRD; 'Lackey, Johnny'; 'Strange, Aaron'
Cc: VonGonten, Glenn, EMNRD
Subject: RE: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.
Attachments: ironfires.pdf

Johnny and Aaron:

Please update OCD on your C-141 findings to investigate process changes that may account for iron sulfide in your system and cause of the fire with any corrective action(s) to prevent the reoccurrence. As specified in the attached article, this ignition source could lead to larger catastrophic incidents based on ignition at the wrong place at the wrong time.... Also, in the attached article it says in combination with moisture may not be a good thing either for auto ignition. It would seem that this problem would not be anything new as the refinery waste water would be expected to contain iron sulfide.

Could this problem have and is continuing to be problem at the refinery, but Navajo is now having to report fires so we are seeing this reoccur? Is there a crude oil change that is different from the past (Canadian Crude) that is causing this problem?

Let's find a solution before there is a fire accident. Let me know by this Friday COB if you have found the cause and a CA to this problem.

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")

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 08, 2010 6:23 AM
To: 'Lackey, Johnny'
Cc: VonGonten, Glenn, EMNRD
Subject: C-141 Recent Waste Water Filter Fires at Refinery & Now UIC Class I (NH) Disposal Wells.

Re:

UIC Injection Well Filters at Roll-Off Bins @ Chuka & Mewbourn Class I (NH) Disposal Wells	Fire	None	Unknown	One fire out at time of call w/ other fire being addressed	6/4/10 0:00	Followup t determine disposal flu would ignit under STP
Filters in Roll-Off Bins at Artesia Refinery	Fire	None	Unknown	Extinguished in few minutes	6/6/10 0:00	Followup t determine waste wate would ignit under STP

Johnny:

Good morning. These roll-off bin waste water filter fires have been reoccurring at the refinery and now showing up at the disposal wells. Could you please review the analytical from UIC disposal fluid and let me know what chemical you think may be reacting at STP with filters to auto-ignite or what is causing this so Navajo can implement CA?

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")

Pryophoric Iron Fires

At one time or another, most refineries experience spontaneous ignition of iron sulfide either on the ground or inside equipment. When this occurs inside equipment like columns, vessels, and tanks and exchangers containing residual hydrocarbons and air, the results can be devastating. Most commonly, pyrophoric iron fires occur during shutdowns when equipment and piping are opened for inspection or maintenance. Instances of fires in crude columns during turnarounds, explosions in sulfur, crude or asphalt storage tanks, overpressures in vessels, etc., due to pyrophoric iron ignition are not uncommon.

Often the cause of such accidents is a lack of understanding of the phenomenon of pyrophoric iron fires. This article aims to explain the basics of pyrophoric iron fires and to provide ideas for developing safe practices for handing over equipment for inspection and maintenance.

What is Pyrophoric Iron Oxidation?

The word "pyrophoric" is derived from the Greek for "fire-bearing". According to Webster's dictionary, "pyrophoric material" means "any material igniting spontaneously or burning spontaneously in air when rubbed, scratched, or struck, e.g. finely divided metals".

Iron sulfide is one such pyrophoric material that oxidizes exothermically when exposed to air. It is frequently found in solid iron sulfide scales in refinery units. It makes no difference whether these pyrophoric sulfides exist as pyrite, troilite, marcasite, or pyrrhotite. It is formed by the conversion of iron oxide (rust) into iron sulfide in an oxygen-free atmosphere where hydrogen sulfide gas is present (or where the concentration of hydrogen sulfide (H_2S) exceeds that of oxygen). The individual crystals of pyrophoric iron sulfides are extremely finely divided, the result of which is that they have an enormous surface area-to-volume ratio.

When the iron sulfide crystal is subsequently exposed to air, it is oxidized back to iron oxide and either free sulfur or sulfur dioxide gas is formed. This reaction between iron sulfide and oxygen is accompanied by the generation of a considerable amount of heat. In fact, so much heat is released that individual particles of iron sulfide become incandescent. ***This rapid exothermic oxidation with incandescence is known as pyrophoric oxidation*** and it can ignite nearby flammable hydrocarbon-air mixtures.

Basic chemical reactions: Iron sulfide is one of the most common substances found in refinery distillation columns, pressure vessels, etc. It is formed by the reaction of rust or corrosion deposits with hydrogen sulfide as shown below:

$$Fe_2O_3 \text{ (rust)} + 3H_2S \longrightarrow 2FeS + 3H_2O + S$$

Pryphoric Iron Fires
By: Mukesh Sahdev, Associate Content Writer
Presented at The Chemical Engineers' Resource Page, www.cheresources.com

There is a greater likelihood of this reaction occurring when the process involves a feedstock with high sulfur content. This pyrophoric iron sulfide (PIS) lays dormant in the equipment until the equipment is shutdown and opened for service, exposing the PIS to air, allowing the exothermic process of rapid oxidation of the sulfides to oxides to occur, as shown in the equations below:

$$4FeS + 3O_2 \longrightarrow 2Fe_2O_3 + 4S + \text{heat}$$

$$4FeS + 7O_2 \longrightarrow 2Fe_2O_3 + 4SO_2 + \text{heat}$$

The heat usually dissipates quickly unless there is an additional source of combustible material to sustain combustion. The white smoke of SO_2 gas, commonly associated with pyrophoric fires, is often mistaken for steam.

Pyrophoric iron oxidation in Distillation Columns

In petroleum refineries, the equipment most prone to pyrophoric combustion induced fires is the distillation columns in crude and vacuum distillation units. Deposits of iron sulfide are formed from corrosion products that most readily accumulate at the trays, pump around zones, and structured packing. If these pyrophoric iron sulfide (PIS) deposits are not removed properly before the columns are opened up, there is a greater likelihood of PIS spontaneous ignition. The trapped combustible hydrocarbons, coke, etc. that do not get adequately removed during steaming/washing often get ignited, leading to fires and explosions inside the equipment. These fires not only result in equipment damage but can also prove fatal for the personnel who are performing inspection and maintenance work inside the columns.

The accidents due to pyrophoric iron oxidations are entirely avoidable if safe procedures for column handover are followed. The targets of these procedures should be twofold:

- First, to remove all the combustibles
- Second, to remove or neutralize pyrophoric iron sulfide deposits

The basic distillation column oil-cleanup procedure is discussed in steps below.

Distillation Column Oil Cleanup Procedure

1. **Steaming:** The steaming is done after all liquid hydrocarbons have been drained from the column and associated piping. The objective of steaming is to make the column and associated piping free of residual hydrocarbons. The column vent and pump strainers in the side draw piping are de-blinded and steaming is started from utility connections at the bottom of the column. Generally, steaming is continued for about 20 to 24 hrs, ensuring the column top temperature remains more than 100 °C throughout the operation.

2. **Hot Water Washing:** When clear steam is observed exiting the column vents, water washing of the column should be started. With steam still in commission, water is sent to the column, usually via reflux lines, and it is drained from the column bottom, associated pump strainers, etc. The water flow rate should be adjusted so that steam still comes from the vent (i.e. water should not result in condensing of all steam before it reaches the column top). Water flow should be stopped for 2-3 hrs and then resumed. This cycle of steaming and washing should be repeated several times for a total of about 15 to 20 hours. Injection of a turpene-based detergent into the steam can also be considered. The condensate-soap solution can be collected and circulated through the various side cuts.

3. **Blinding:** When clear water is observed at side draw pump strainers, etc., associated piping should be isolated by installing blinds wherever isolation is possible.

4. **Cold Water Washing:** The hot water wash should be followed by a cold water wash (i.e. steam should be fully closed). The cold water washing is done for about 20-24 hrs.

5. **Chemical Injection for Removal and Neutralization of PIS Deposits:** During the cold-water wash or after washing is over, chemical injection for removal of pyrophoric sulfides should be considered. The various options for chemical treatment are discussed below:

- Acid cleaning - This procedure involves pumping in an acid with some corrosion inhibitor. The acid dissolves sulfide scale and releases hydrogen sulfide gas. It is effective and inexpensive, however, disposal of hydrogen sulfide gas can be a problem, as can corrosion (when the system contains more than one alloy). Dilute hydrochloric acid solutions may also be used. The resulting iron chloride turns bright yellow, acting as an indicator for removal of the iron sulfide.

- Acid plus hydrogen sulfide suppressant - Additional chemicals can be added to the acid solution to convert or scrub the hydrogen sulfide gas.

- Chelating solutions - Specially formulated, high pH, chelating solutions are quite effective in dissolving the sulfide deposits without emitting hydrogen sulfide, but this is an expensive application.

- Oxidizing chemicals - Oxidizing chemicals convert sulfide to oxide. Potassium permanganate ($KMnO_4$) has been used commonly in the past to oxidize pyrophoric sulfide. Generally the potassium permanganate is added to the tower during the cold water washing as a 1% solution. At various intervals, samples are taken and checked for color. The colors of the fresh $KMnO_4$ and the spent MnO_2 are purple and brown respectively. If the color of the solution becomes brown, additional $KMnO_4$ is needed. The reaction is judged complete when the solution color remains purple. It takes approximately 12 hours to complete the job.

The cost of potassium permanganate treatment is more expensive than acid cleaning and traditional oxidizing agents such as sodium hypochlorite or hydrogen peroxide. Nevertheless, it is less corrosive to equipment than acid cleaning and used properly can be safer than other oxidizing agents.

The following conditions should be avoided when using potassium permanganate:

- Do not add $KMnO_4$ to acids or use in a low pH environment
- Combustible materials should not be allowed to contaminate $KMnO_4$ stocks
- Residual MnO_2 may remain in vessels after treatment and cause combustion or flammability issues in equipment with large surface areas such as packed towers
- $KMnO_4$ cannot be used in conjunction with most detergents
- $KMnO_4$ may have a "bad reputation" in some processing plants, but this is often times the result of misuse by contractors or plant personnel.

If you're considering the use of $KMnO_4$ in a cleaning services and would like to consult with an expert its safe application procedures, please contact Dr. Phil Vella of Carus Corporation via phone at (815) 224-6869.

Alternative oxidation technologies are being developed with a focus on

- increasing safety in application
- saving water
- eliminating odor problems
- minimizing wastewater problems
- reducing wastes

One such alternative is Zyme-Flow®. Zyme-Flow® offers unique chemistry which is patented and offered by license from United Laboratories International, LLC as Zyme-Flow® and related products. The Zyme-Flow® chemical applications are administered by a highly trained staff of technicians provided by United and sold only by license from United Laboratories International, LLC.

The Zyme-Flow® generic Vapour Phase® method is apparently unique in that the de-oiling and oxidizer composition that is being dispersed actually may be vaporized in the steam (instead of being just atomized). This allows the Zyme-Flow® composition to

travel (in easily measurable concentrations) extensive distances and throughout equipment with high efficiency for contacting and condensing on internal surfaces. The composition may expend quickly, but the application technicians can measure its progress. This prevents over-dosing.

A very generic Vapour Phase® procedure may include:

1. Stop feed and de-inventory the unit per normal procedures.
2. Perform initial isolation per the pre-established plan with the Zyme-Flow® specialists.
3. Establish a thorough steam path throughout the equipment.
4. Add Zyme-Flow® to the incoming steam (commonly only 1-3 points are needed even for very large units).
5. Continue the injection and steaming for 8-12 hours.
6. Perform isolation per pre-established plan with the Zyme-Flow® specialists.
7. Possibly perform a final rinse with cold water to cool the columns quickly.
8. The unit is then ready for opening, ventilation, and hot work.

One major advantage for oxidizing pyrophoric iron sulfide is that the distribution dynamics of the Vapour Phase® applications are often more efficient than atomized distribution methods. This is why Zyme-Flow® is often used for decontamination of flare lines and overhead systems where few injection points can be utilized. The same dynamics allows for full treatment of most tight packing structures in refinery columns.

In some situations, Zyme-Flow® applications may be combined simultaneously or in sequence with compatible solvent and oxidizer products to target specific challenges such as monomer / polymer coatings and other challenges. These applications require specialty design consideration from the Zyme-Flow® specialists. This is especially important in structured packing situations where polymerization tends to coat and protect the pyrophoric deposits from contact with oxidizers until cooling promotes cracking of the polymer.

Solvent/Surfactant Steam Dispersion Methods

There are alternatives to the steam, wash, blind, and wash again technologies. These include steam dispersion technologies which are sometimes combined with oxidizer washing technologies. These alternatives may include steam dispersion of organic solvent products and can be very good to excellent de-oiling and degassing compositions (which expose pyrophoric iron sulfide to subsequent oxidizer treatments).

For critical path process units in a turnaround, a very generic procedure may include:

1. Stop feed and de-inventory the process equipment per normal procedures. Sometimes this involves steaming and sometimes water displacement.
2. Establish a steam flow throughout the equipment. The design of the flow path is critical.

3. Add chemicals to the incoming steam to promote de-oiling and degassing of the equipment (this may involve numerous injection points).
4. When the outflow vapors are within safety and environmental specifications, blow down the equipment to the atmosphere for a short time (or continue to flare or condenser as needed).
5. Perform isolation as needed prior to final washing for oxidation (per pre-designed isolation plan).
6. Perform a thorough water wash with oxidizer until the oxidation requirement of the fluid path is complete. Sometimes this must involve total fluid fill of the equipment to obtain positive contact of pyrophoric surfaces.
7. The unit is then ready for opening, ventilation, and hot work (unless other chemical treatments are required).

This generic procedure may allow for 24-48 hours of savings over the extended steaming, isolation, and washing approaches, and may be safer to perform. There are several products currently offering this type of service. Many of them are strong encapsulators and require secondary treatment to break the emulsions.

The oxidizers Zyme-Flow and Zyme-Ox are proprietary products from United Laboratories International, LLC for most refinery and petrochemical decontamination applications. For more information on Zyme-Flow^{SM} Process Technology, the readers can visit www.zymeflow.com or contact Mr. Bevan Collins at tankzyme@aol.com.

Case Studies: Pyrophoric Iron Fires

The history of refining is replete with cases of fires and explosions due to pyrophoric iron ignitions. A few of these cases are discussed below (details like the location and date of the incidents are not included), to give the reader an idea of the nature of pyrophoric iron fires and the lessons learned.

Pyrophoric fire/explosion inside a Vacuum column in a Crude Unit

During a turnaround in the Crude Unit the vacuum column was being prepared for handover to maintenance. The oil was removed from the column and the column was steam purged. A water washing connection was made in the light vacuum gas oil (LVGO) reflux pump suction. Meanwhile, instruction was given for removal of a 40-inch spool piece in the column overhead line to facilitate overhead exchanger blinding. Air ingress occurred from this open flange, leading to auto-ignition of pyrophoric iron sulfide inside. An explosion took place causing damage to the internals. White smoke (SO_2) was also observed at the open end. Nitrogen injection and water washing were immediately begun to quench the heat and halt the oxidation reaction inside the column.

Lessons learned:

Before carrying out any maintenance activity on overhead exchangers, proper water washing and blinding must be completed. Full-face blinds should be provided wherever spool pieces are dropped.

Pyrophoric Fire inside the floating head cover of a Naphtha Stabilizer Reboiler

During a maintenance and inspection (M&I) shutdown, after steaming of the reboiler loop, the floating head cover of the naphtha stabilizer reboiler (S&T exchanger) was opened so the bundle could be pulled for cleaning. The head cover was left in the open position. After about 2 days, fire and smoke was observed from the head cover. It was determined that the fire occurred because of the PIS ignition of residual hydrocarbons. The fire was immediately extinguished with water. The cover was thoroughly flushed with water and kept wet.

Lesson learned: Whenever exchangers in naphtha service (containing sulfur) are opened for maintenance, the exchanger areas must be properly water washed for PIS removal. No amount of steaming can ensure full removal of PIS or residual hydrocarbons.

Pryphoric Iron Fires
By: Mukesh Sahdev, Associate Content Writer
Presented at The Chemical Engineers' Resource Page, www.cheresources.com

Pyrophoric Fire inside a Naphtha Tank

A naphtha tank (floating head type) was emptied out for maintenance. It was left unattended for one month. One day, flames and smoke were observed coming from the tank. Upon investigation, it was found that PIS had ignited leading to combustion of residual naphtha in the tank.

Lessons learned: Tanks in high-sulfur hydrocarbon service, such as naphtha, crude, etc., must be properly emptied and washed before allowing them to remain idle for maintenance. Also, such tanks should be kept under adequate nitrogen blanketing.

Pyrophoric Fire inside a Hydrotreater Reactor

During a maintenance shutdown, a naphtha Hydrotreater reactor feed/effluent heat exchanger was to be opened. The reactor gas loop was thoroughly nitrogen purged. During deblinding of the exchanger air ingress occurred to the reactor causing excessive heat build up in the reactor due to a pyrophoric iron fire. The temperatures went as high as 500 ^{o}C. Heavy smoke was observed from the open flanges and the reactor platform area became hot. The heat was immediately quenched by purging with nitrogen.

Lessons learned: Whenever piping associated with a naphtha Hydrotreater reactor has to be opened, purging N_2 must be kept opened during blinding and deblinding of the upstream and downstream flanges in exchangers.

General Precautions to Avoid Pyrophoric Iron Fires

1. The scraps and debris collected from cleaning of filters in naphtha / crude service must be kept wet and disposed of underground.
2. Tanks, reactors, columns, and exchangers in high-sulfur feed service must be kept properly blanketed with N_2 during idle periods.
3. All equipment and structured packing must be properly water washed and kept wet when exposed to the atmosphere.
4. In processes where catalyst handling is required (such as in Hydrotreating and fluid catalytic cracking) caution must be taken during catalyst recharge or disposal. When unloading any spent coked catalyst, the possibility exists for iron sulfide fires. If the spent catalyst is warm and contacts oxygen, iron sulfide will ignite spontaneously and the ensuing reaction may generate enough heat to ignite carbon deposited on the catalyst. Therefore catalyst must be stripped of all hydrocarbons, cooled to about 50 $^{\circ}$C and wetted with water to prevent it from igniting vapors. Once cooled, the used catalyst may be emptied into drums for later shipment to a regenerator or a disposal site. As the catalyst may be highly pyrophoric (containing iron sulfide, etc.), it should be dumped into drums containing an internal liner for shipment. The drum and liner should first be filled with inert gas, which is then displaced by the catalyst. The liner should be tied off and a small chunk of dry ice placed inside the drum before sealing. These precautions should protect against catalyst auto ignition.

References

"Pyrophoric Materials Handbook, Flammable Metals and Materials", By Charles R. Schmitt, P.E., C.H.C.M., Edited By Jeff Schmitt

"Pyrophoric Fires and Column Shutdown", Refineries Quarterly Safety Bulletin, April-June 1997.

"Oxidizer Use in Refinery Chemical Cleaning: Selection Considerations and Case Histories", presented at NACE, Chris Spurrell (Chevron) and Ron Kenyon (Delta Tech Services)

"Methods for Removal of Iron sulphide", Mr. Fu Huang, Chinese American Association of Corrosion & Materials Engineers

"Formation and Oxidation of Sulfides on Pure Iron and Iron Oxides", Masatoshi Watanabe1, Minoru Sakuma, Takeshi Inaba, and Yasutaka Iguchi, Department of Metallurgy, Graduate School of Engineering, Tohoku University, Sendai 980-8579, Japan

"Basic Technology of Zyme-Flow Process", Bevan Collins, International Technical Director, United Laboratories, LLC , www.zymeflow.com

TECHNICAL BULLETIN: Safe Handling of CRITERION Hydrotreating Catalysts

www.worlfuels.com, NPRA Q&A Minutes, 1999 Session I

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Tuesday, June 01, 2010 2:00 PM
To: Chavez, Carl J, EMNRD
Cc: Lackey, Johnny; Strange, Aaron
Subject: Fire in Exchanger X-2110

Carl

Yesterday, May 31, 2010, at 2:10 pm, we had a flash fire in X-2110 due a leak in the channel head which got onto the insulation blanket and flashed. The fire was put out immediately using hand held fire extinguishers. The ere were no injuries and only minor damage to the insulation blanket.

We will submit a C-141 shortly.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Wednesday, April 28, 2010 8:54 AM
To: Moore, Darrell; Chavez, Carl J, EMNRD; Dade, Randy, EMNRD
Cc: Strange, Aaron; Lackey, Johnny; Cobrain, Dave, NMENV
Subject: RE:

Darrell

I have a question about the two c-141 forms dated February 2010 that discuss a small leak near Tank 413 and Tank 115. In the Section "Describe the Problem and Remedial Action Taken," the description states "[t]here was no saturation of the soil around the leak and no free product was present." Then in the action taken, the description states "[t]he soil was excavated and disposed of as Non hazardous waste per sampling results. The leak was very small (drip). There was no saturation of the soil around the leak and no free product was present."

If there was no saturation present, then why was soil excavated (please clarify this discrepancy). In addition, please indicate how much soil was excavated, how many samples were collected for analytical analysis, what analytical analyses was run on the soil samples to determine it was non-hazardous? Where was the soil disposed. You may include this information in a separate email, please provide NMED with this information by May 4th, 2010.

For future c-141 forms, Navajo must include more details that describe the spills/releases/fires (see example above). If Navajo does not want to include this information in a c-141 form, then the information must be included in an email that summarizes the incident and includes a detailed description of the cause of the problem and the remedial action that took place.

Let me know if you have additional questions.

Thank you

Hope

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Wednesday, April 28, 2010 8:13 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD
Cc: Strange, Aaron; Lackey, Johnny
Subject:

Carl, Hope, and Randy

Attached, please find five C-141's from recent incidents at the refinery that were previously reported by phone.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

Subject: FW:
Attachments: 2010-04-19 North Plant Flare Fire.DOC; 2010-04-17 Unit 70 Flange Fire (2).DOC; 2010-04-17 pump 928 fire.doc; 2010-02 leak near T-115.doc; 2010-02 leak near T-413.doc

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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Wednesday, April 28, 2010 8:13 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Dade, Randy, EMNRD
Cc: Strange, Aaron; Lackey, Johnny
Subject:

Carl, Hope, and Randy

Attached, please find five C-141's from recent incidents at the refinery that were previously reported by phone.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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State of New Mexico
Energy Minerals and Natural Resources

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

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: Leak/spill of gasoline.	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Underground pipe near Texas Street just northeast of Tank T-413.	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: February 2010
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? NA (Johnny Lackey has notified Carl Chavez with the OCD Santa Fe Office by email about the Praxair findings).	
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.*
Navajo has employed Praxair Services, Inc. (Praxair) to set up a comprehensive tank leak detection program throughout the Artesia and Lovington refineries. Praxair sampling results identified an underground pipe near Texas Street just northeast of Tank T-413 that indicated a leak was present. A very small leak (**drip**) was discovered. There was no saturation of the soil around the leak and no free product was present. A clamp was used to repair the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was at an underground pipe near Texas Street just northeast of Tank T-413. The soil was excavated and disposed of as Non Hazardous waste per sampling results. The leak was a very small (**drip**). There was no saturation of the soil around the leak and no free product was present.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: 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: 04/28/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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: Leak/spill of gasoline.	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Underground pipe south of Tank T-115..	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: February 2010
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? NA (Johnny Lackey has notified Carl Chavez with the OCD Santa Fe Office by email about the Praxair findings).	
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.*
Navajo has employed Praxair Services, Inc. (Praxair) to set up a comprehensive tank leak detection program throughout the Artesia and Lovington refineries. Praxair sampling results identified an underground pipe south of tank T-115 that indicated a leak was present. A very small leak (**drip**) was discovered. There was no saturation of the soil around the leak and no free product was present. A clamp was used to repair the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was at an underground pipe just south of T-115. The soil was excavated and will be disposed of per sampling results. The leak was a very small (**drip**). There was no saturation of the soil around the leak and no free product was present.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: 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: 04/28/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: Seal/packing leak on the combined feed pump (P-928).	Date and Hour of Occurrence: 04/17/2010 ~ 02:50	Date and Hour of Discovery: 04/17/2010 ~ 02:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Randy Dade (Artesia OCD @ 575-748-1283). Left voicemail with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Johnny Lackey	Date and Hour: 04/17/2010 at ~03:15 to Carl Chavez (Santa Fe OCD), 04/17/2010 at ~03:18 to Randy Dade (Artesia OCD), and 04/17/2010 at ~03:20 to Hope Monzeglio (NMED Haz Waste Bureau).	
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 04/17/2010 at ~ 02:50, the pump seal/packing on the combined feed pump (P-928) in the FCC (Unit 10) began to leak Gas Oil and caught on fire. The fire was extinguished within approximately one minute using a hand held extinguisher. No one was injured from the event. The pump is on a concrete pad within the unit that has sewers, however nothing spilled out from the pump or got on the ground. The pump has been blocked in, drained and a spare pump is being used.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the pump seal on the combined feed pump (P-928) in the FCC (Unit 10). No one was injured from the fire. The pump has a concrete containment with a sewer, however nothing spilled out from the pump and no cleanup was needed.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: 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: 04/28/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: Flange in the CCR (Unit 70).	Date and Hour of Occurrence: 04/17/2010 ~ 02:50	Date and Hour of Discovery: 04/17/2010 ~ 02:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Randy Dade (Artesia OCD @ 575-748-1283). Left voicemail with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Johnny Lackey	Date and Hour: 04/17/2010 at ~16:44 to Carl Chavez (Santa Fe OCD), 04/17/2010 at ~16:46 to Hope Monzeglio (NMED Haz Waste Bureau), and 04/17/2010 at ~16:49 to Randy Dade (Artesia OCD).	
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 04/17/2010 at ~ 02:40, a flange in the CCR (Unit 70) had a small leak and flashed. It was put out with hand held fire extinguishers.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a flange in the CCR (Unit 70). No one was injured from the fire. The flange is on a concrete pad within the unit that has sewers, however nothing spilled out from the pump and no cleanup was needed. There was no damage.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: 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: 04/28/2010 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: North Plant Flare from relief valve in unit 06.	Date and Hour of Occurrence: 04/19/2010 ~ 02:30	Date and Hour of Discovery: 04/19/2010 ~ 02:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with Carl Chavez (Santa Fe OCD @ 505-476-3490). Left voicemail with Randy Dade (Artesia OCD @ 575-748-1283). Left voicemail with Hope Monzeglio (NMED Haz Waste Bureau @ 505-476-6000).	
By Whom? Johnny Lackey	Date and Hour: 04/19/2010 at ~10:50 to Carl Chavez (Santa Fe OCD), 04/19/2010 at ~10:53 to Randy Dade (Artesia OCD), and 04/19/2010 at ~10:55 to Hope Monzeglio (NMED Haz Waste Bureau).	
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 04/19/2010 at ~ 02:30, a relief valve from Unit 06 lifted resulting in a small amount of hydrocarbon carrying over causing a small fire at the base of the North Plant Flare. No one was injured from the event and there was no damage.

Describe Area Affected and Cleanup Action Taken.*
The area affected was at the base of the North Plant Flare. No one was injured from the fire. No cleanup was needed.

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Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 04/28/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, April 27, 2010 7:44 AM
To: 'Lackey, Johnny'
Cc: VonGonten, Glenn, EMNRD; Monzeglio, Hope, NMENV; Whatley, Michael; Moore, Darrell
Subject: RE: NAVAJO UNDERGROUND LINES

Thanks for the clarification.

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")

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Thursday, April 22, 2010 11:27 AM
To: Chavez, Carl J, EMNRD
Cc: VonGonten, Glenn, EMNRD; Monzeglio, Hope, NMENV; Whatley, Michael; Moore, Darrell
Subject: RE: NAVAJO UNDERGROUND LINES

Carl. See my responses below.

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, April 21, 2010 4:34 PM
To: Lackey, Johnny
Cc: VonGonten, Glenn, EMNRD; Monzeglio, Hope, NMENV
Subject: RE: NAVAJO UNDERGROUND LINES

Johnny:

Sorry, I don't think OCD is very comfortable with an approach to leak detection at pipelines where the refinery implements a repair or replacement without corrective actions or investigation to determine the extent of the contamination, but attempts to rely on downgradient monitoring wells, recovery systems, or the addition of a monitor well to detect any contamination from leaky pipelines or infrastructure at a refinery.

If allowed, this would be allowing the refinery to openly contaminate the water resources of the state. However, this method with active investigation and corrective action to remediate or remove point source(s) contamination may address this concern, but otherwise, OCD would be allowing Navajo Refining Company to openly contaminate New Mexico's water resources. OCD cannot allow this.
Navajo: We're not suggesting that Navajo depend on existing monitor wells, recovery trenches, etc. to detect leaks from underground lines, that's why we want to implement the Praxair technology on the lines we have taken over from Holly Energy Partner's and add these to our routine testing to detect any leaks that may be present through routine testing. We currently hydro test lines that Navajo operates and if leaks are detected we take the necessary steps to repair/remediate etc. My comment about the existing monitor wells and recovery trenches was to point out that after the leak is repaired and cleaned up, we already have these detection methods in place and felt it would be unnecessary to add additional monitoring for these new sources,

Regarding the discovery of pipeline releases, yes C-141s are needed and I notice that while the contents of Tank 413 (older distillate tank) is listed in your most recent submittal of above ground tank schedule for the discharge permit, Tank 115 and its information has not been updated on our above ground tank schedule. What does Tank 115 contain and how old is it? Please update the tank list and tank diagram to include all updated tanks that are missing from the existing table in the OCD file by May 5, 2010 so we may keep the tank list and any new updated tank diagrams showing the location of each new tank installed by the refinery. Thank you.
Navajo: I answered the question regarding Tank 115 in a previous email, however, the line that leaked was in the general proximity of Tank 115, not connected to Tank 115. This is a product line that we took over from HEP as described in my earlier request to the OCD for consideration of the Praxair Technology for underground piping leak detection. The product in the line is gasoline and corrected action will be taken to clean up the spill area.

Hopefully this clears up any confusion regarding these sources.

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")

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Wednesday, April 21, 2010 4:10 PM
To: Chavez, Carl J, EMNRD
Cc: Whatley, Michael; Moore, Darrell; Douglas_Wilson@Praxair.com
Subject: RE: NAVAJO UNDERGROUND LINES

Thanks for the prompt reply Carl.

The ultrasonic testing that you refer to is offered through Praxair's Alliance Partner, IMPro Technologies. This is the Guided Wave UT Technology (GWUT) that Navajo initially considered but decided this was not the best solution for our leak detection needs. Praxair also offers the Tracer Tight leak detection system which is the process Navajo is asking the OCD to evaluate for approval. It is our belief that the TracerTight Leak Detection system is the most sensitive and most appropriate method to test underground piping within the refineries.

The ultimate advantage of the TracerTight leak detection is the identification of a true failure at the onset, when the failure mechanism is very small and produces little effect to the environment. The sensitivity of TracerTight system, 0.05 gallons per hour, cannot be matched by either hydrostatic testing or GWUT inspection. It would be probable that leaks missed by these two other methods would continue to increase in size and produce contamination levels detrimental to the environment. Not to mention the disruption in refinery operations and water waste during hydrostatic testing methods.

Navajo is best served both environmentally and operationally by the TracerTight leak detection methods. This benefit is also compounded by the fact that buried piping can be tested in conjunction with tank testing already in progress. Any associated piping downstream from an inoculated tank is testable using the TracerTight method. If a leak is detected

through use of this technology, the line is dug up, if a leak is confirmed it is repaired and areas around the leak are UT'd to determine if there are additional areas that may need further investigation, repair or replacement of that segment of line.

Navajo will submit the C-141 forms for these leaks. The leaks have been repaired. We currently have monitor wells and recovery trenches down gradient from these leaks.

Johnny Lackey
Environmental Manager
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Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, April 21, 2010 6:55 AM
To: Lackey, Johnny
Cc: Whatley, Michael; Moore, Darrell; Schmidlen, Jeff; Douglas_Wilson@Praxair.com
Subject: RE: NAVAJO UNDERGROUND LINES

Johnny:

Good morning. The OCD is in receipt of your request for approval of the Praxair technology and is evaluating your request. I am curious as to why Navajo is also not including the ultrasonic wall thickness (Impro) monitoring that complimented Praxair's technology at the time OCD received joint presentations from Praxair and Impro. Is Navajo forgetting the Impro services component of pipeline testing to determine when wall thickness decreases to a point of repair and/or replacement?

Also, OCD will be checking the chemicals in the associated tanks referenced in the leaky pipelines as over time these leaks become point sources for ground water contamination and depending on the days, months, years, etc. Therefore, by receipt of this e-mail, please submit a C-141 for the releases so Navajo and OCD can track corrective actions performed to fix the leaks. Also, if Navajo did not dig out around the leaks to remove the source of contamination, it should proposed monitoring of the ground water downgradient at a minimum to determine if there is a ground water contamination problem downgradient from the leaky lines.

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")

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Tuesday, April 20, 2010 12:51 PM
To: Chavez, Carl J, EMNRD

Cc: Whatley, Michael; Moore, Darrell; Schmidlen, Jeff; Douglas_Wilson@Praxair.com
Subject: NAVAJO UNDERGROUND LINES

Carl,

As you are aware, Navajo has employed Praxair Services, Inc. (Praxair) to set up a comprehensive tank leak detection program throughout the Artesia and Lovington refineries for the majority of our product storage tanks. (The OCD has approved this technology for tank leak detection at Navajo's refineries).

Navajo recently assumed operating responsibilities for 41 pipeline segments located within the Artesia Refinery from Holly Energy Partners (they provide pipeline and terminal services for Holly Corp.), and each of these segments have short runs of underground piping that will be added to our underground line testing program. Navajo also assumed operating responsibilities for some Holly Energy Partner's pipelines at Lovington also. Navajo is in the process of identifying these lines and they will be added to the underground line testing program at Lovington.

Praxair provides leak detection technology for underground pipe testing. To test Praxair's technology for underground piping leak detection, Navajo proactively had Praxair install monitors on selected segments of piping that we assumed operating responsibilities from Holly Energy Partner's. Praxair injected their tracer into these selected segments (13 lines) and their sampling results identified two lines that indicated a leak was present (See attached Praxair Report). Both lines that had suspected leaks are included in the package of assets acquired from Holly Energy Partners. The lines with potential leaks are as follows:

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The Praxair process would let Navajo test the line segments that cannot be removed from service without a scheduled outage allowing testing of these lines within the discharge permit time frame without refinery disruption. This process eliminates the potential for product or oily water release if there is a failure during pressure testing or hydrostatic testing of the lines.

Attached is a spreadsheet listing the additional lines to be added to our test schedule, copies of the isometric drawings for each line segment (The sketch number on the spreadsheet references the corresponding isometric drawing) and Praxair's Report detailing the trial test results mentioned above.

Navajo requests approval from the OCD to utilize Praxair's Leak Detection Technology for underground pipe testing at our Artesia and Lovington refineries. Navajo and Praxair will be happy to meet with the OCD in Santa Fe to present this technology in detail.

Thanks,

Johnny Lackey
Environmental Manager
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, April 21, 2010 4:18 PM
To: 'Strange, Aaron'
Cc: Chavez, Carl J, EMNRD
Subject: Release Notifications & C-141s for Navajo Refining Company (GW-14 and GW-28)

Aaron:

OCD would appreciate notification e-mails with a copy to the OCD District Supervisor on releases with an indication of whether a C-141 Form is to follow. As I mentioned at refineries, where the discovery of leakage from pipelines, tanks, etc. are not known, it is best to take the conservative approach to reporting all of these type of spills/releases where the volume is not known. And on all fire and explosions, Navajo Refining Company seem to be following the permit condition on reporting, etc. Thank you.

Please contact me if you have questions. 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")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, April 21, 2010 4:34 PM
To: 'Lackey, Johnny'
Cc: VonGonten, Glenn, EMNRD; Monzeglio, Hope, NMENV
Subject: RE: NAVAJO UNDERGROUND LINES

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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

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Sent: Wednesday, April 21, 2010 4:10 PM
To: Chavez, Carl J, EMNRD
Cc: Whatley, Michael; Moore, Darrell; Douglas_Wilson@Praxair.com
Subject: RE: NAVAJO UNDERGROUND LINES

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Navajo will submit the C-141 forms for these leaks. The leaks have been repaired. We currently have monitor wells and recovery trenches down gradient from these leaks.

Johnny Lackey
Environmental Manager
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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, April 21, 2010 6:55 AM
To: Lackey, Johnny
Cc: Whatley, Michael; Moore, Darrell; Schmidlen, Jeff; Douglas_Wilson@Praxair.com
Subject: RE: NAVAJO UNDERGROUND LINES

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To: Chavez, Carl J, EMNRD
Cc: Whatley, Michael; Moore, Darrell; Schmidlen, Jeff; Douglas_Wilson@Praxair.com
Subject: NAVAJO UNDERGROUND LINES

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Thanks,

Johnny Lackey
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, April 16, 2010 8:13 AM
To: Hill, Larry, EMNRD; Dade, Randy, EMNRD; Perrin, Charlie, EMNRD; Martin, Ed, EMNRD
Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: FW: OSHA MOU Meeting- Fires & Explosions Sharing of Information w/ OSHA and/or between Agencies Communication Meeting

Gentlemen:

Please find below some NM Occupational, Health and Safety Administration (OSHA) or NMED- OSHB guidance to the OCD and some other state agencies on when it is appropriate to make referrals to them when unsafe conditions are observed in our field inspections and/or we receive complaints by phone, verbal, etc.

The OCD meeting with NM OSHA occurred as a result of the March 2, 2010 explosion and tank fire at the Navajo Refinery in Artesia (GW-28) where two workers from Texas were killed and two workers were injured. A copy of this NM OSHA correspondence and referral form has been placed under the OCD Training Folder at: L:\ENVIRONM\WORD\COMMON\OCD Training\SAFETY FIRST .

Please contact me if you have questions or for detailed questions the phone numbers to NM OSHA are provided below. Thank you.

Copy: GW-28 OCD Online File "C-141s"

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")

From: Tongate, Butch, NMENV
Sent: Thursday, April 15, 2010 6:31 PM
To: Chavez, Carl J, EMNRD; Vail, Scott, NMENV; Davis, Jim, NMENV; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD; Martin, Kalvin, NMENV; Reuter, Stephen, NMENV; Bearzi, James, NMENV
Cc: Genoway, Robert, NMENV; Hernandez, Herman, NMENV
Subject: RE: OSHA MOU Meeting- Fires & Explosions Sharing of Information w/ OSHA and/or between Agencies Communication Meeting

At our meeting two weeks ago to discuss agency responsibilities and potential ways to assist each other, I was asked to send a communiqué regarding information that could be useful to NM OSHA.

NM OSHA's mission is to provide every employee under our jurisdiction a safe and healthful place of employment. Essentially, we take proactive and reactive measures to address workplace health and safety hazards. One method we employ is to investigate or inspect complaints and referrals we receive from employees, subcontractors, safety professionals, members of the general public, or other government agency employees. Referrals and complaints are very similar in that they basically allege the existence of a violation of safety and/or health standards in a specific workplace. The only difference is that a complaint can only be

initiated by an existing employee of the establishment and it must be signed by the employee. In either case, the person making the allegation can choose to have his or her identity remain confidential.

The nature of hazards reported to NM OSHA varies widely based on the type of industry involved. Naturally, allegations of an "imminent danger" to employees will receive immediate attention, whereas hazards that are serious, but less of an immediate threat, may not be immediately inspected. All referrals are taken seriously, but since most people are unfamiliar with most OSHA standards, we sometimes get referrals for conditions that are not violations. If a particular condition of concern exists, but it does not present a hazard to employees at the establishment or worksite, we cannot cite the employer.

In the case of refineries and gas plants, we are obviously interested in any condition that could lead to a catastrophic fire or explosion. We are also interested in "near misses" or "close calls", since such incidents could be indicative of a procedural or mechanical problem. Some other conditions that are considered to be serious hazards that must be controlled by the employer are:

1. Fall protection – in general industry, workers working at heights more than 4 feet above the ground or a lower platform must be protected by guardrails or other types of fall protection.
2. Confined spaces – hazards include toxic atmospheres, falls, cave-ins, and moving parts that present "crushed by" hazards. Employees are not prohibited from entering confined spaces as long as they follow appropriate OSHA standards in doing so.
3. Excavations/trenches – Protective measures are required for work in most trenches and excavations, depending on depth and soil type.
4. Electrical hazards – Working near power lines or on or near equipment with electrical faults or without proper safeguards.
5. Lockout/Tagout – Working in or on equipment that could become energized or release stored energy that could injure a worker unless the apparatus is properly locked out.
6. Machine guarding issues – Machinery or tools that present crushing, "struck by", amputation, fire, explosion, or inhalation hazards must be fitted with protective guards.

These are just a few of hundreds of potential hazards that could be encountered in New Mexico workplaces. More detailed information on these and other types of potential hazards can be found by going to www.osha.gov . Type in a key word or phrase (e.g., "explosive atmosphere") and pertinent links will be displayed. If staff members in your agency observe situations that appear to present a serious health or safety hazard, they should report it to the appropriate management representative at the facility. If it is not satisfactorily addressed, it should be reported to NM OSHA.

We receive referrals in person or via telephone, fax, or email. At a minimum, we need to know the physical address or specific location of the worksite where the hazard was observed and the nature of the hazard. Obviously, additional information is desirable if it is available, e.g., name, address, and phone number of the employer, how many employees were exposed to the hazard, etc. The attached worksheet shows the information that is recorded if it is available.

If you or any of your staff wish to submit a referral, it should be provided by one of the following methods:

1. By fax to: Bob Genoway, NM OSHA Compliance Manager, at 505-476-8734;
2. By phone to: 505-476-8700 – Tell whoever answers that you wish to make a referral to a compliance officer and your call will be forwarded to the appropriate person for handling;
3. By email to: robert.genoway@state.nm.us ; AND TO herman.hernandez@state.nm.us (in the event one or the other is out of the office).

If you have questions on this topic, please call Bob Genoway at 476-8718 or Herman Hernandez at 476-8711.

Thanks for your assistance.

Butch

Butch Tongate
Chief, Occupational Health and Safety Bureau
New Mexico Environment Department
Office: 505-476-8787 Fax: 505-476-8734
butch.tongate@state.nm.us

Referral Worksheet.pdf

STATE OF NEW MEXICO
OCCUPATIONAL HEALTH & SAFETY BUREAU
COMPLAINT/REFERRAL
PHONE/FAX/E-MAIL WORKSHEET

Person Receiving Complaint/Referral	Date Received	Time Received

Employee	O Yes O No O Ex Employee O Other
Confidential Complaint	O Yes O No

Employer Information

Establishment Name			
Establishment Address			
Site Address			
Phone #		Fax	
E-Mail Address			
Management Official			
How Many Employees in the Establishment?		How Many employees exposed?	
Union Shop	O Yes O No		
Local Union Name		Local #	
Union Rep Name		Phone #	

Employee/Person Making Complaint/Referral

Name			
Address			
Phone #		E-Mail Address	
Job Title or Job Description:			
How long with Employer			

Nature of Complaint/Referral (Both Safety & Health)

Employer Notified?	O Yes O No	Near Misses?	O Yes O No
Is personal Protective Equipment Available?	O Yes O No		

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, April 15, 2010 10:15 AM
To: Chavez, Carl J, EMNRD
Cc: Dade, Randy, EMNRD
Subject: Navajo Release Notification (GW-028)

Aaron Strange notified me today at 10:01 a.m. about a release at their effluent line to WDW-2 or 3? He said they blocked in discharge to the wells and he thinks they are routing effluent to ABTs? The leak was noticed around 9:40 a.m. and is within 100 to 150 feet of the injection well, so the leak is not near the Pecos River. The cause is a suspected leaky clamp on the line.

By receipt of this note, if OCD Artesia could investigate and while you're there inquire about the location of the last leak (~ 1 mo. ago) along the discharge line. OCD does not recall receiving a C-141 for that release called in by Darrell Moore and we don't know the details. Thanks.

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")

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, March 31, 2010 7:52 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Excavated Line Testing Soil.

Hello Carl,

There was no release associated with excavated soil mentioned below. A section of pipe was excavated for inspection in conjunction with the line testing. No leaks were found, however the soil removed had visual signs (appeared gray) of historic contamination.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, March 30, 2010 2:59 PM
To: Strange, Aaron
Subject: RE: Excavated Line Testing Soil.

Aaron:

Thanks for the submittal. Is there a C-141 for this release? Thanks.

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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Wednesday, March 17, 2010 3:45 PM
To: Kim Flowers; Chavez, Carl J, EMNRD
Subject: Excavated Line Testing Soil.

Kim,

Please see the attachment requesting the approval of excavated soil from line testing north of the Diesel Boosters from the Artesia Plant.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, March 29, 2010 10:59 AM
To: Monzeglio, Hope, NMENV; Strange, Aaron
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Lackey, Johnny
Subject: RE: Carbon Black Oil spill
Attachments: Listing Determination Comment.pdf

Hope

Regarding the spill of Carbon Black Oil (CBO).....When the proposed regulations for K170 (Clarified Slurry Oil Sediment) were being promulgated in 1998, Navajo and other refiners brought up the scenario where spills were concerned. EPA answered this question in the ***Petroleum Refining Listing Determination Proposed Rule Response to Comment Document, Part III, June 1998*** (attached). Specifically, see EPA Response to Comment 4, page IV-15 where EPA states:

> **"RESPONSE:** EPA does not intend to regulate as hazardous the CSO itself, only the sediments that are removed from this hydrocarbon product such as those generated in in-line separators and those sediments that gravitate to the bottom of storage tanks. Clarified slurry oil that is accidentally spilled on the ground may in fact contain particulates that would have settled out as tank sediment, however, the Agency did not address such spills in the proposed rule and, in response to this comment, **is clarifying that it does not currently intend to regulate CSO spills as K170.** Spills of K170, of course, would be regulated" (Emphasis mine)

Navajo has always followed this guidance. When we have spilled Carbon Black Oil, we follow the same procedure as any spill. We typically do a TCLP to determine if is **characteristically** hazardous and then dispose of the soil as required by regulation. It is Navajo's position that a spill of CBO is not a **listed hazardous waste.** It MAY exhibit a characteristic, but it is NOT a listed hazardous waste.

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, March 08, 2010 2:26 PM
To: Strange, Aaron
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Moore, Darrell; Lackey, Johnny
Subject: Carbon Black Oil spill

Aaron

It is NMED's understanding that carbon black oil is generated from clarified slurry oil which is a listed hazardous waste K170. Therefore, the carbon black oil would carry the K170 listing and would need to be shipped off as a hazardous waste instead of a non-hazardous waste. Please clarify the process in which carbon black oil is generated at the facility.

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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PETROLEUM REFINING LISTING DETERMINATION

PROPOSED RULE RESPONSE TO COMMENT DOCUMENT

Part III

June 1998

U.S. Environmental Protection Agency
Office of Solid Waste
401 M Street, SW
Washington, DC 20460

TABLE OF CONTENTS

IV. RESIDUAL-SPECIFIC COMMENTS IV-1
A. CRUDE OIL TANK SEDIMENT IV-1
1. General IV-1
2. Scope of Listing IV-2
3. Use of the TCLP and the TC IV-3
4. Biodegradation IV-3
5. Risk Assessment - General IV-3
6. Risk Assessment - Land Treatment IV-9
7. Other Miscellaneous Considerations IV-10
8. Potential Consequences if Listed IV-11
9. Use of TC IV-12
B. CLARIFIED SLURRY OIL SEDIMENT IV-14
1. Scope of Listing IV-14
2. Risk Assessment Issues: General IV-16
3. Risk Assessment Issues: Land Treatment IV-24
4. Risk Assessment Issues: Home Gardener IV-27
5. Biodegradation IV-27
C. CATALYST FROM HYDROTREATING AND HYDROREFINING IV-29
1. Scope of Listing IV-29
2. Use of the TCLP and the TC IV-36
3. Risk Assessment IV-40
4. Biodegradation IV-44
5. Projected Impact of Listing on Recycling and Management Practices IV-44
6. Ignitability as a Basis for Listing IV-49
7. Other Miscellaneous Considerations IV-50
D. CATALYST FROM SULFURIC ACID ALKYLATION IV-52
E. SPENT CAUSTIC FROM LIQUID TREATING IV-53
1. Comments Supporting Exclusion and No-list Decision IV-53
2. Comments Against the No-List Decision IV-54
3. Requests for Clarification and Additional Exclusions IV-57
F. OFF-SPECIFICATION PRODUCT AND FINES FROM THERMAL PROCESSES IV-60
1. Comment Supporting No-List Decision IV-60
2. Comments Against No-List Decision IV-60
3. Definition of Solid Waste IV-68
G. CATALYST AND FINES FROM CATALYTIC CRACKING IV-70
1. Comments Supporting No-List Decision IV-70
H. SLUDGE FROM HF ALKYLATION IV-71
1. Comments Supporting No-List Decision IV-71
2. Comments Against No-List Decision IV-71
I. SLUDGE FROM SULFUR COMPLEX AND H_2S REMOVAL FACILITIES IV-77

J. CATALYST FROM SULFUR COMPLEX AND H_2S REMOVAL FACILITIES IV-77
K. UNLEADED GASOLINE TANK SEDIMENT IV-77
1. Comments Supporting No-List Decision IV-77
2. Comments Against No-List Decision IV-78
3. Applicability of the TC IV-84
L. CATALYST FROM REFORMING IV-84
1. General IV-84
2. Sludge Data IV-85
3. Other Sludges IV-87
4. Dioxin Removal IV-88
5. Segregation of Scrubber Water IV-88
6. Recycle to Coker Risks IV-89
M. SLUDGE FROM SULFURIC ACID ALKYLATION IV-90

filter (one).[155] No samples of turnaround sediments were available during the Agency's field investigation, however, several refineries described the removal of sediments from separation units such as hydroclones during turnarounds. EPA has no reason to believe that sludges removed from the hydroclone during turnarounds would not be comparable to sludges removed from in-line filters because the units serve the same purpose. No information was submitted by the commenters to demonstrate that clean out/turnaround sludges differ from storage tank sediments. The Agency therefore continues to use the broader definition of CSO sediments.

EPA does not, however, expect that all residuals generated during FCC turnaround would be classified as K170, but rather only those associated with particulate removal equipment (e.g., hydroclones, in-line filters). This would not include sediments and tars that may accumulate within the distillation columns; EPA did not target these residuals in its information collection activities. EPA examined and is listing only CSO sediments from storage tanks and filters/separation devices that are generated after the FCC process unit.

Comment 3: The universe of storage tanks that is covered by the proposed K170 listing must be clarified. The proposed listing leaves unclear which tank farms are "associated with" refineries. Similarly, it is unclear what would constitute an "affiliated tank farm." (Amerada Hess, 00027)

Response: The EPA's meaning with respect to the term "affiliated" was to extend the scope of the listing to all tanks containing CSO that are owned by the refinery that produced the CSO. (60 FR 57766, col. 1) This CSO has not yet been sold or transferred to another entity or corporation, and remains the property of the refinery from which it originated. All sediments settling from the CSO prior to sale of the CSO are subject to the hazardous waste listing.

Similarly, once the CSO has been sold or transferred in commerce, it is no longer under control of the producing refinery and the Agency currently has no data on how it is used or stored. Because EPA has no data on whether sediments continue to be generated, and if generated, under what conditions, the Agency does not believe it has sufficient basis to extend the listing definition to include sediments generated after the CSO has been sold or transferred. This issue would need to be dealt with in the context of another listing determination for another industry.

Comment 4: The point of generation of the proposed K170 waste stream should be clarified to apply only to releases of accumulated tank bottom sediments and accumulated in-line filter/separation solids and not to releases of oil that may incidentally contain solids which have not yet separated out. (Amerada Hess, 00027)

Response: EPA does not intend to regulate as hazardous the CSO itself, only the sediments that are removed from this hydrocarbon product such as those generated in in-line separators and those sediments that gravitate to the bottom of storage tanks. Clarified slurry oil that is

---

[155]1995 Listing Background Document for the 1992-1996 Petroleum Refining Listing Determination, p. 50.

accidentally spilled on the ground may in fact contain particulates that would have settled out as tank sediment, however, the Agency did not address such spills in the proposed rule and, in response to this comment, is clarifying that it does not currently intend to regulate CSO spills as K170. Spills of K170, of course, would be regulated.

2. Risk Assessment Issues: General

Comment 1: EPA's proposed listing of CSO Tank Sediment is inconsistent with the conclusions drawn when listing determination for other residuals were made. In its assessment of CSO Tank Sediment, EPA found that 80 percent of the CSO Tank Sediment does not pose a risk to human health and the environment. The remaining 20 percent of CSO Tank Sediment, disposed of in off-site land treatment units, was determined to pose risk in the discretionary range, but only after imposing the conservative assumption that such treatment units lack effective run-on/run-off controls when in fact many such units do have effective run-on/run-off controls. Given the preponderance of compounding conservative assumptions employed when developing the risk assessments, it would seem that *common sense* would suggest that those results that yield risks in the discretionary range should be viewed as insufficient to justify a listing, especially if the listing is going to be imposed on the other 80 percent of the residual that the Agency concedes poses no substantial risk. (Mobil, 00033)

Response:

The Agency notes that the revisions to the risk assessment for this residual (including removal of land treatment units with known run-on/run-off controls) demonstrate greater risk for the landfill scenario than were originally described in the proposal. As a result the contingent exemption options are no longer supportable and have been withdrawn in the final rule (see Section V of this response to comment document).

Comment 2: The commenter supports EPA's decision not to consider the subsistence farmer and fisherman in the proposed listing determination for CSO sediments.

In its initial risk evaluation, EPA estimated risks to an adult resident, a home gardener, a recreational fisherman, a subsistence fisherman, and a subsistence farmer. However, due to numerous uncertainties (and also negligible risks for both recreational and subsistence fishermen), the subsistence farmer and subsistence fisherman's exposure scenarios were not considered in the proposed listing determination. The commenter commends the Agency on this decision.

For the subsistence farmer and fisherman pathways to be relevant, there must be transport of contaminants over large areas. This requirement is not met for refining process residual land treatment units, which are limited in size and release relatively small volumes of contaminants. The release of small volumes of contamination over a large area of land would result in significant dilution of concentrations. A subsistence farmer would require a much larger area for raising vegetables and domestic animals than a typical residential plot of 0.5 hectare, as EPA recognized

Chavez, Carl J, EMNRD

From: Dade, Randy, EMNRD
Sent: Tuesday, March 09, 2010 2:05 PM
To: Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Emailing: DSC07206.JPG, DSC07207.JPG, DSC07208.JPG, DSC07209.JPG, DSC07210.JPG, DSC07211.JPG, DSC07212.JPG, DSC07213.JPG, DSC07214.JPG, DSC07215.JPG, DSC07216.JPG, DSC07217.JPG, DSC07218.JPG, DSC07219.JPG, DSC07220.JPG, DSC07221.JPG, DSC07222.JPG, DSC0722
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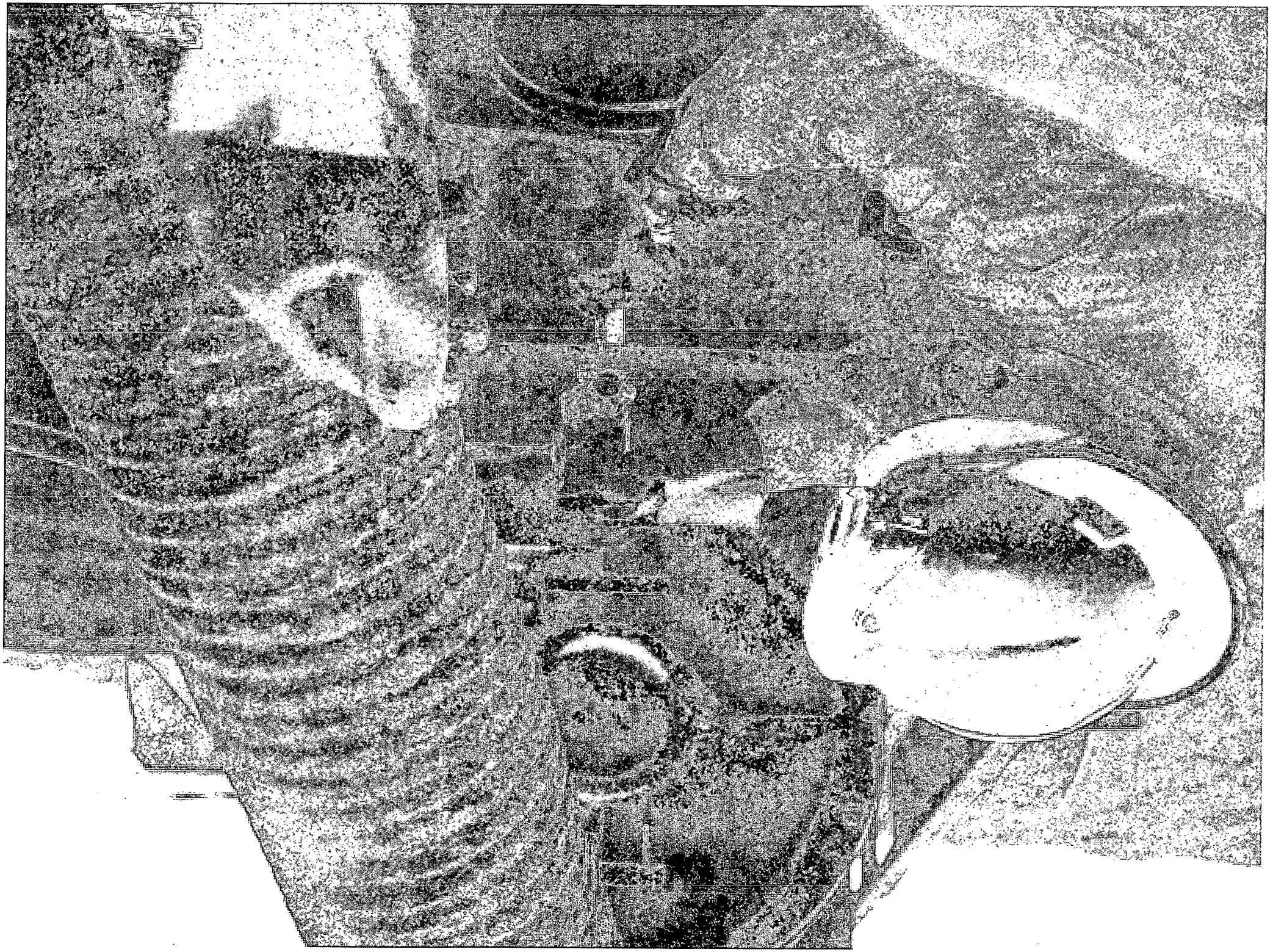

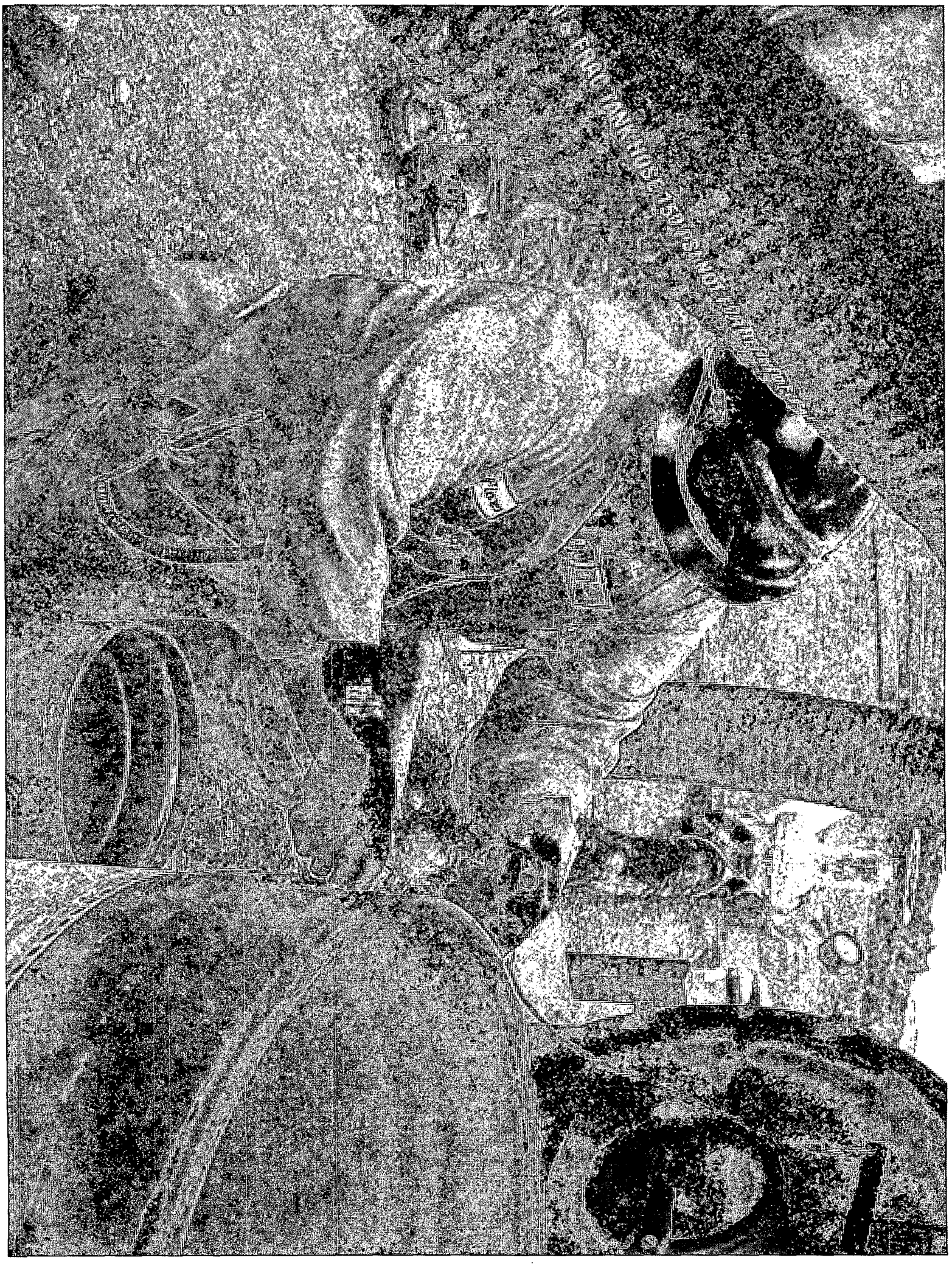

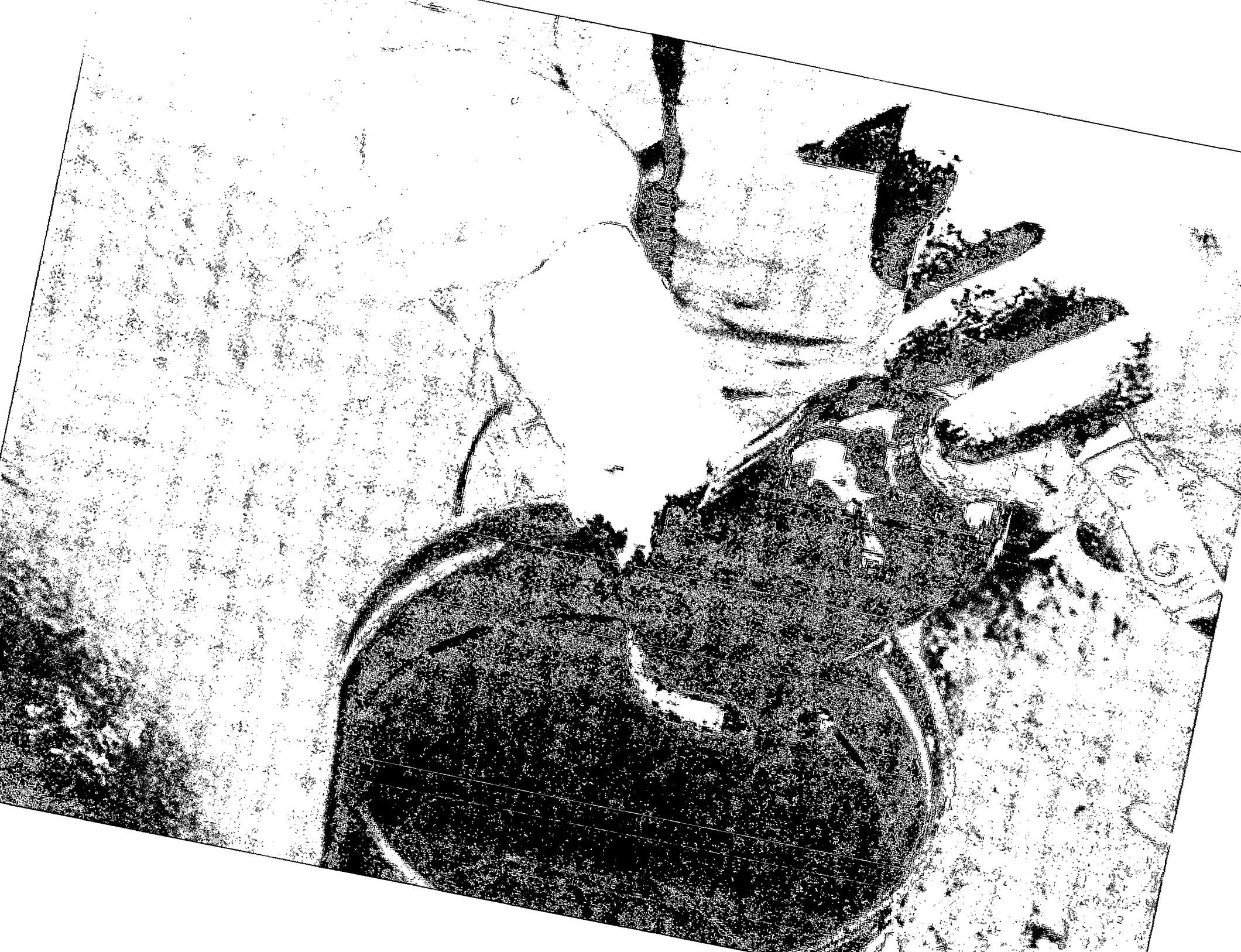

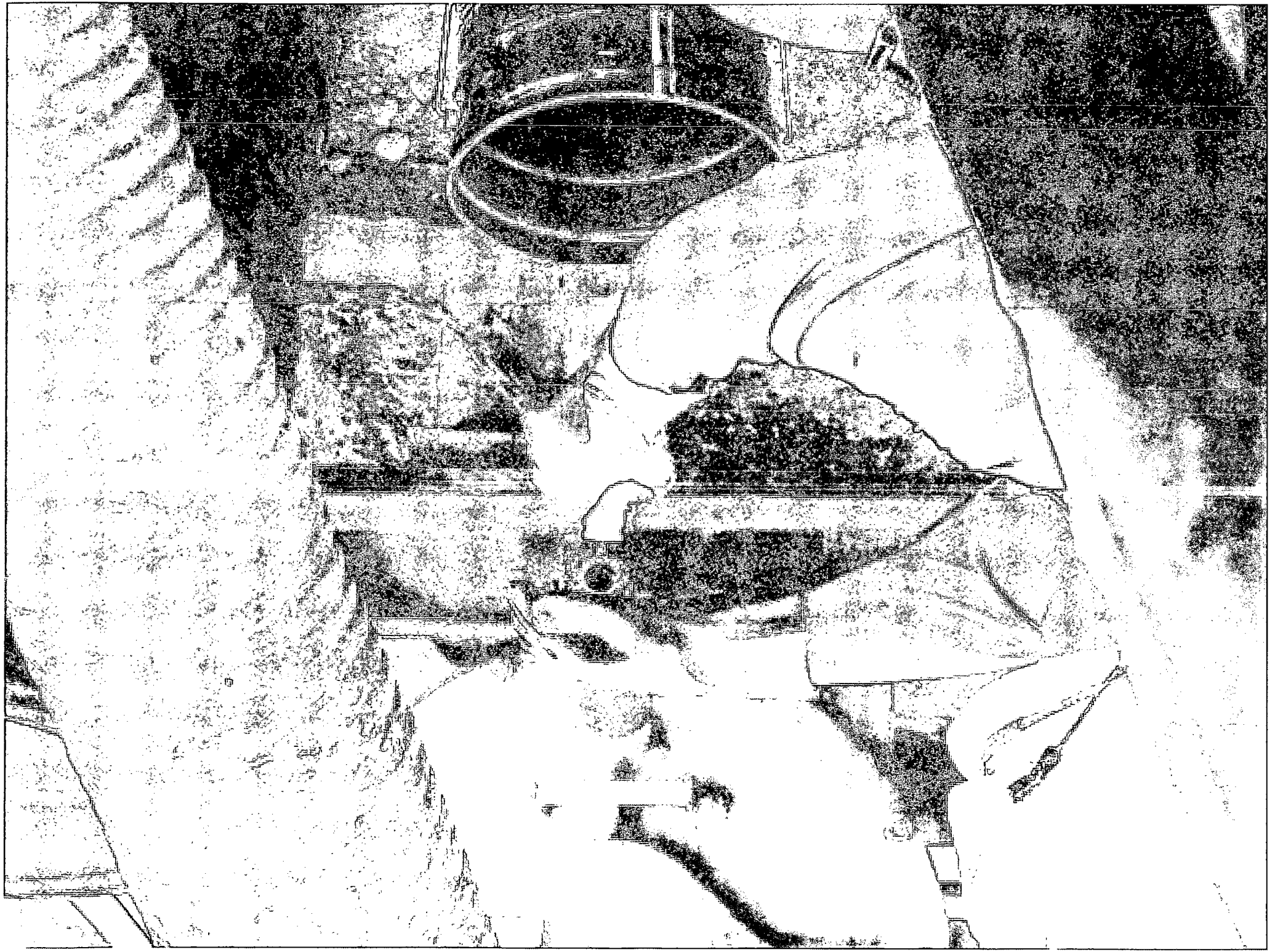

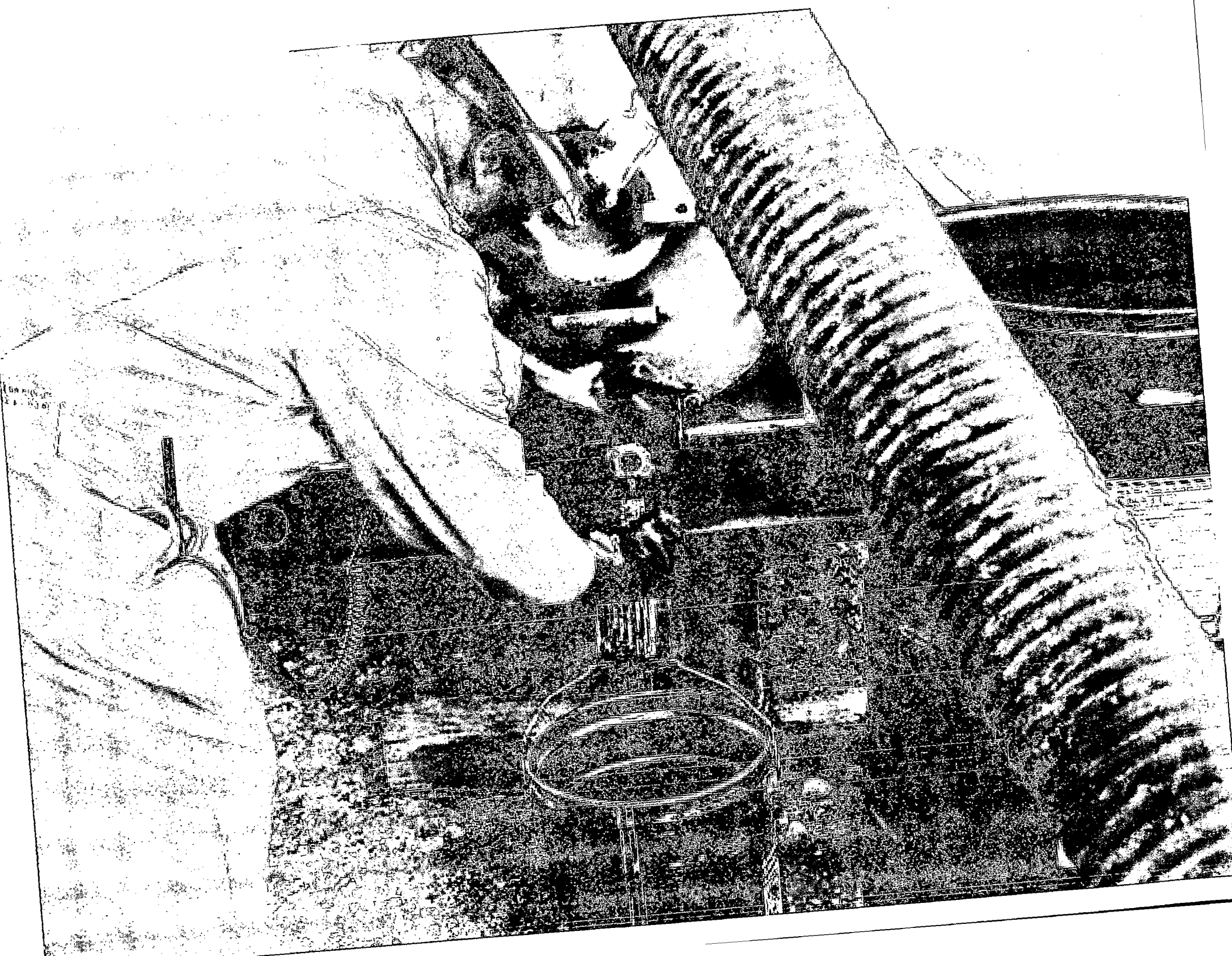

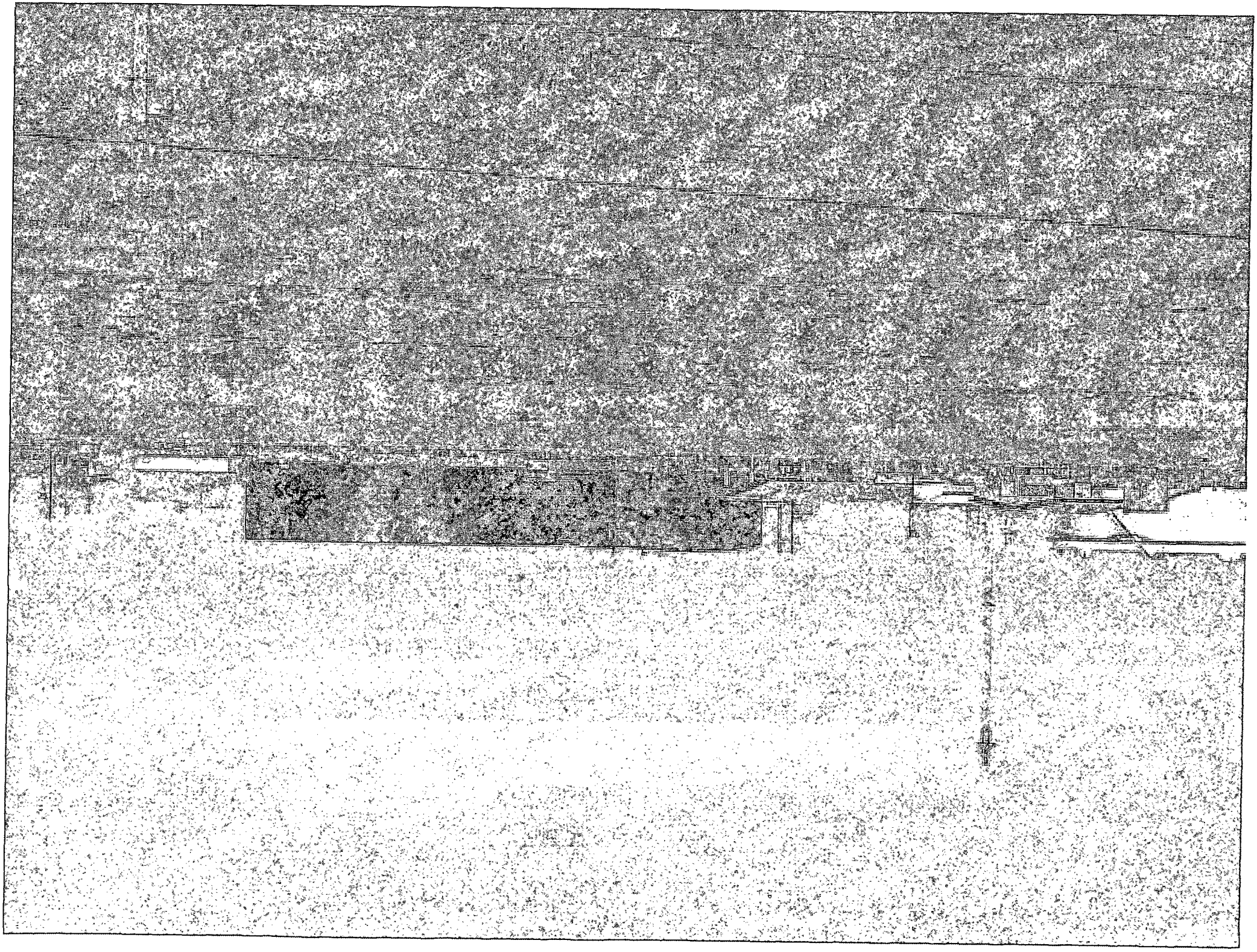

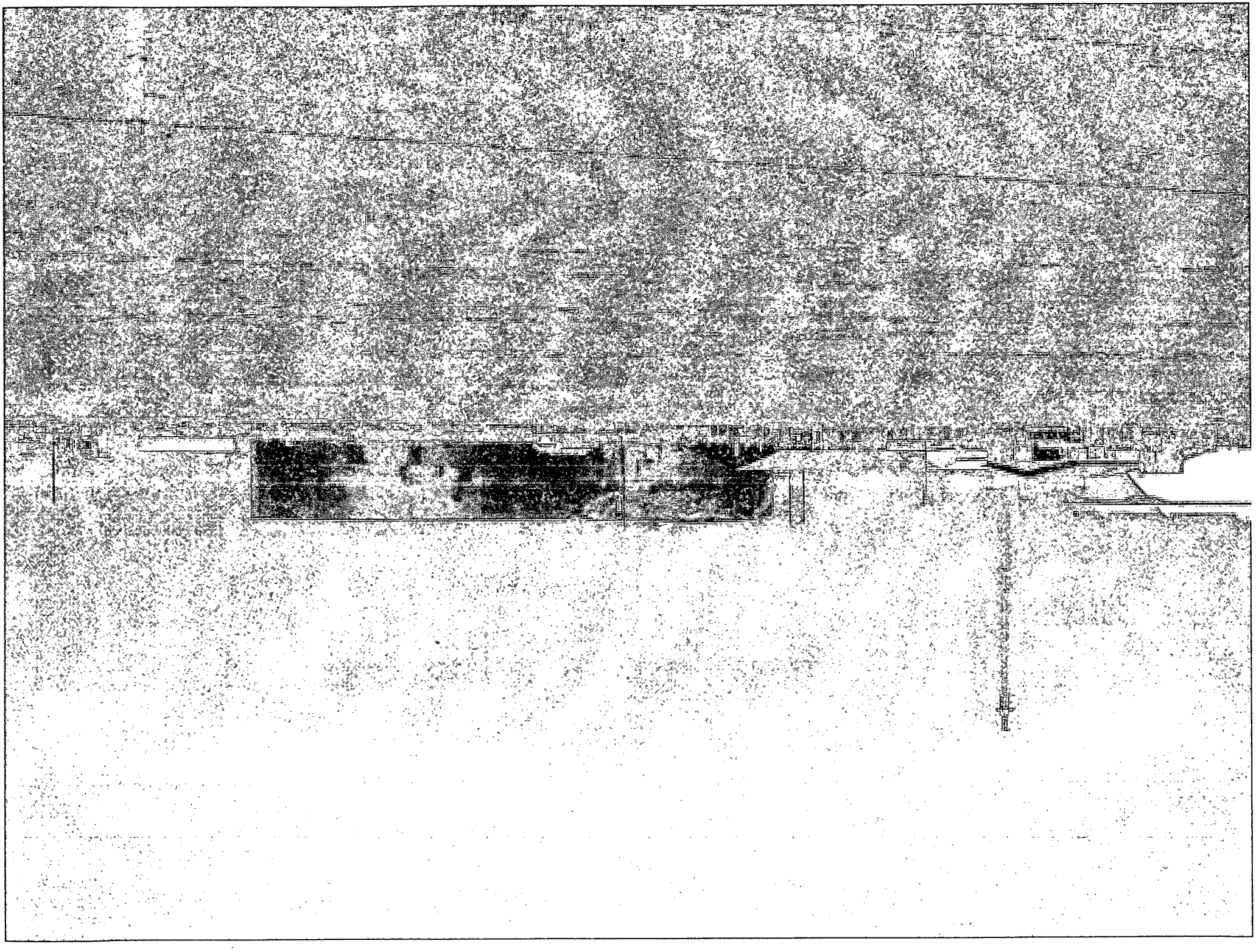

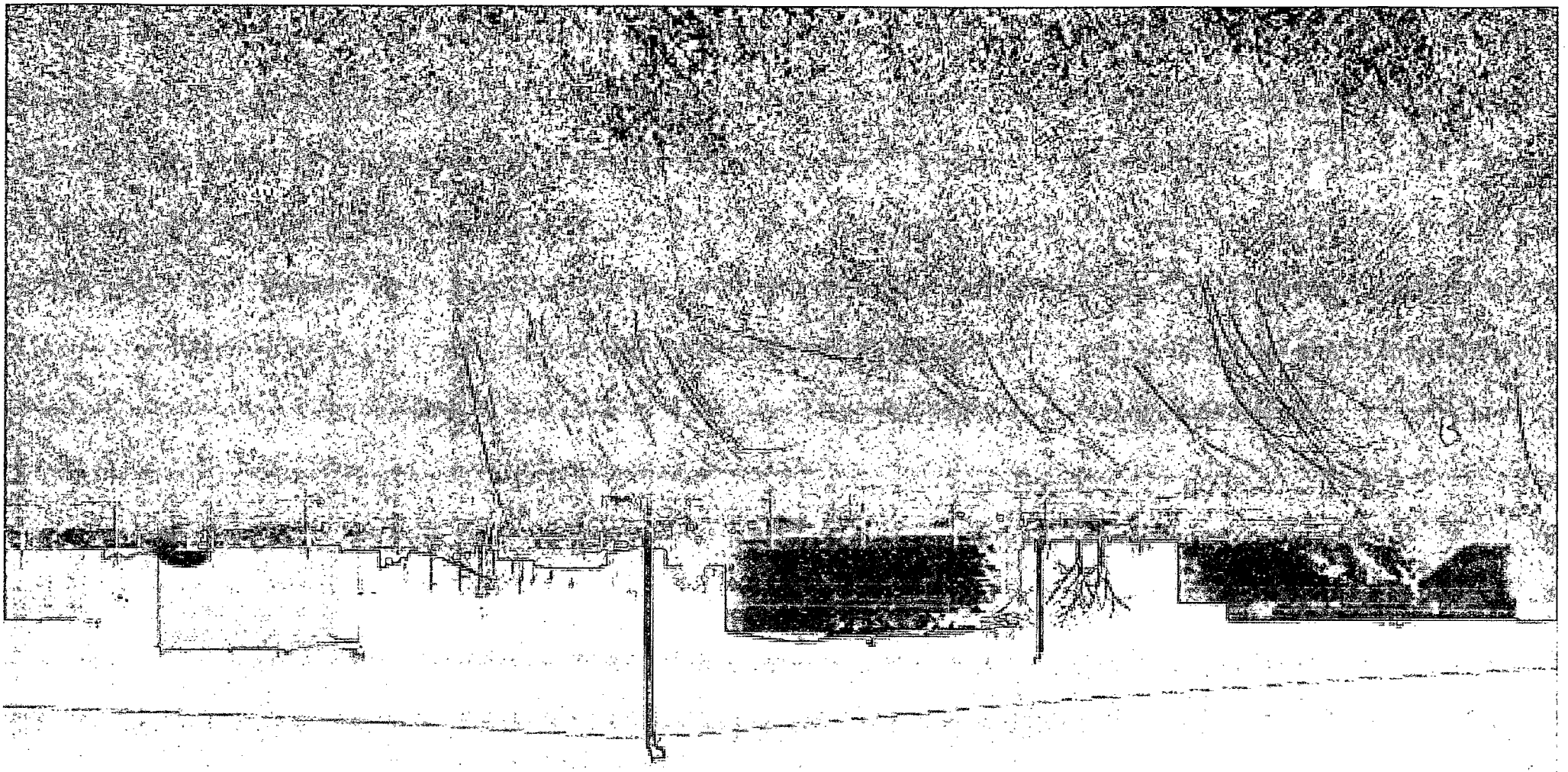

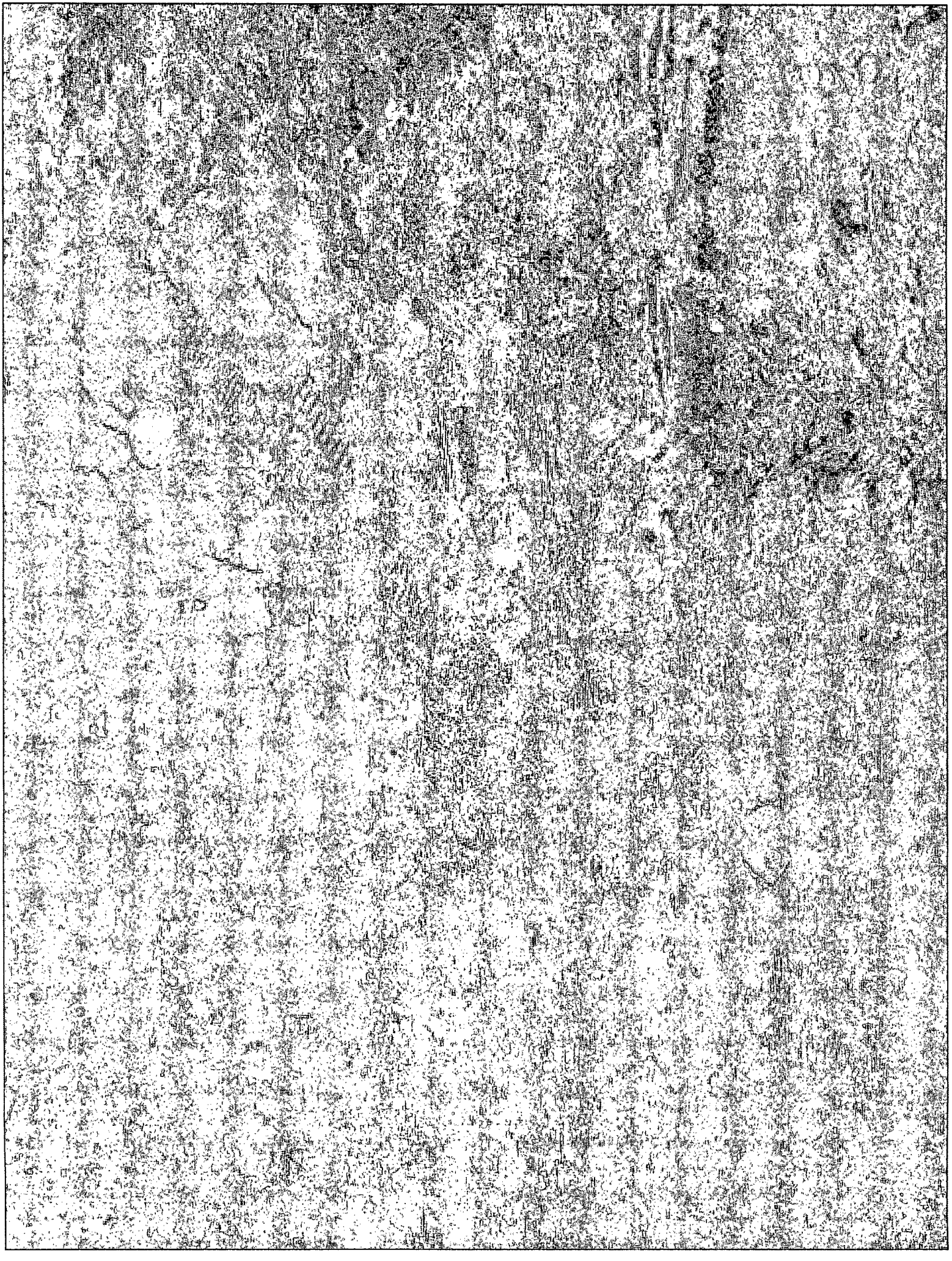

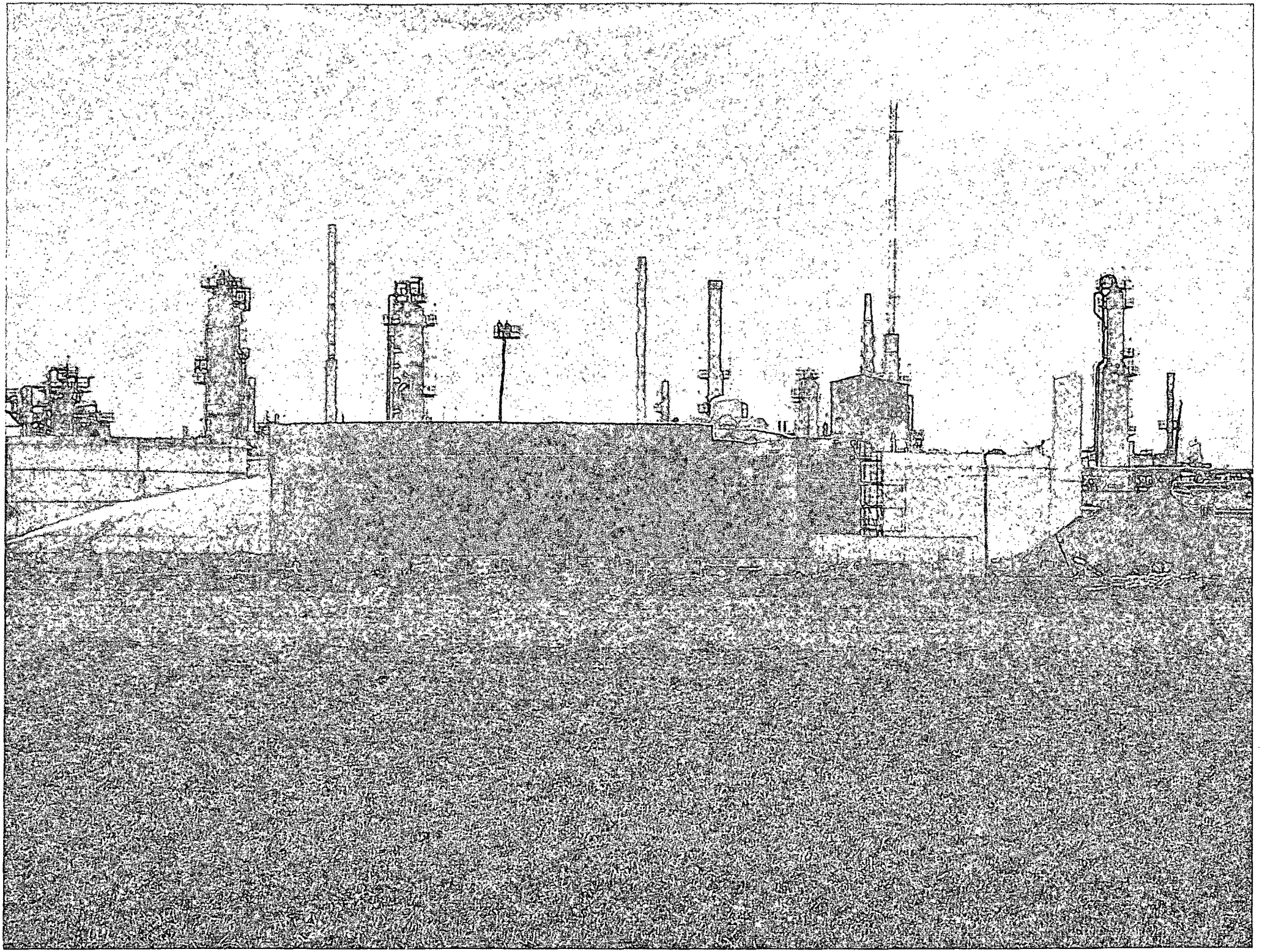

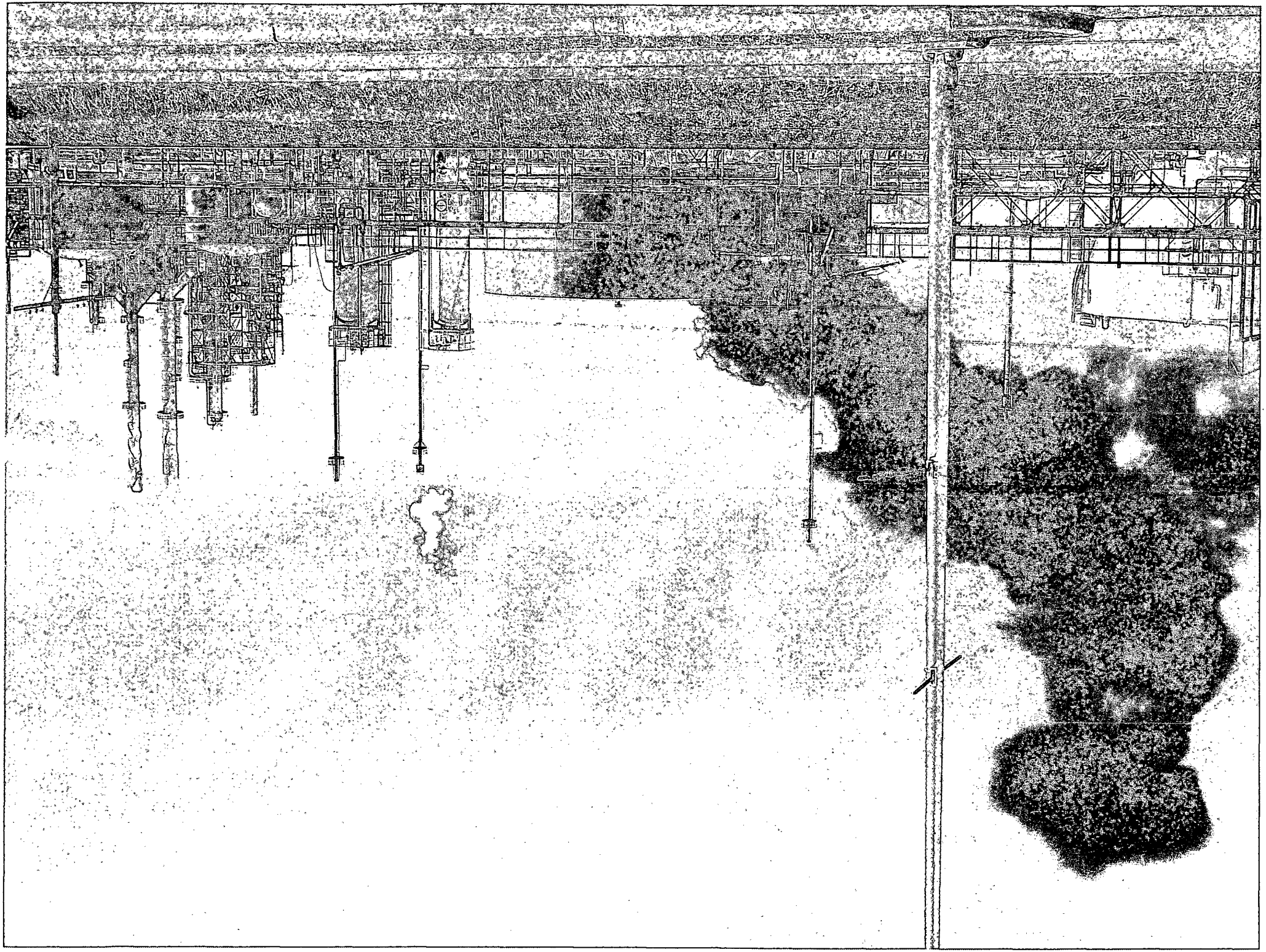

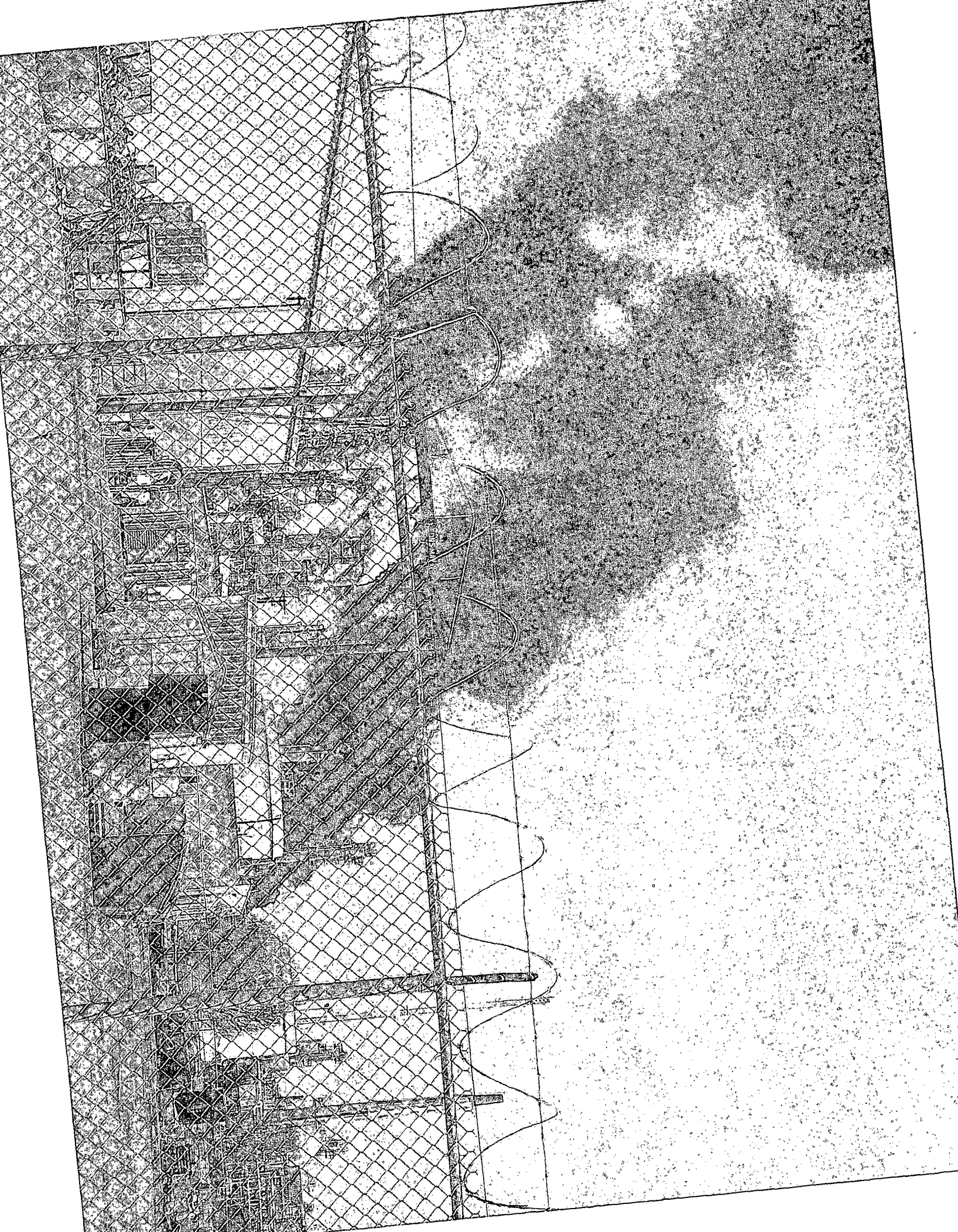

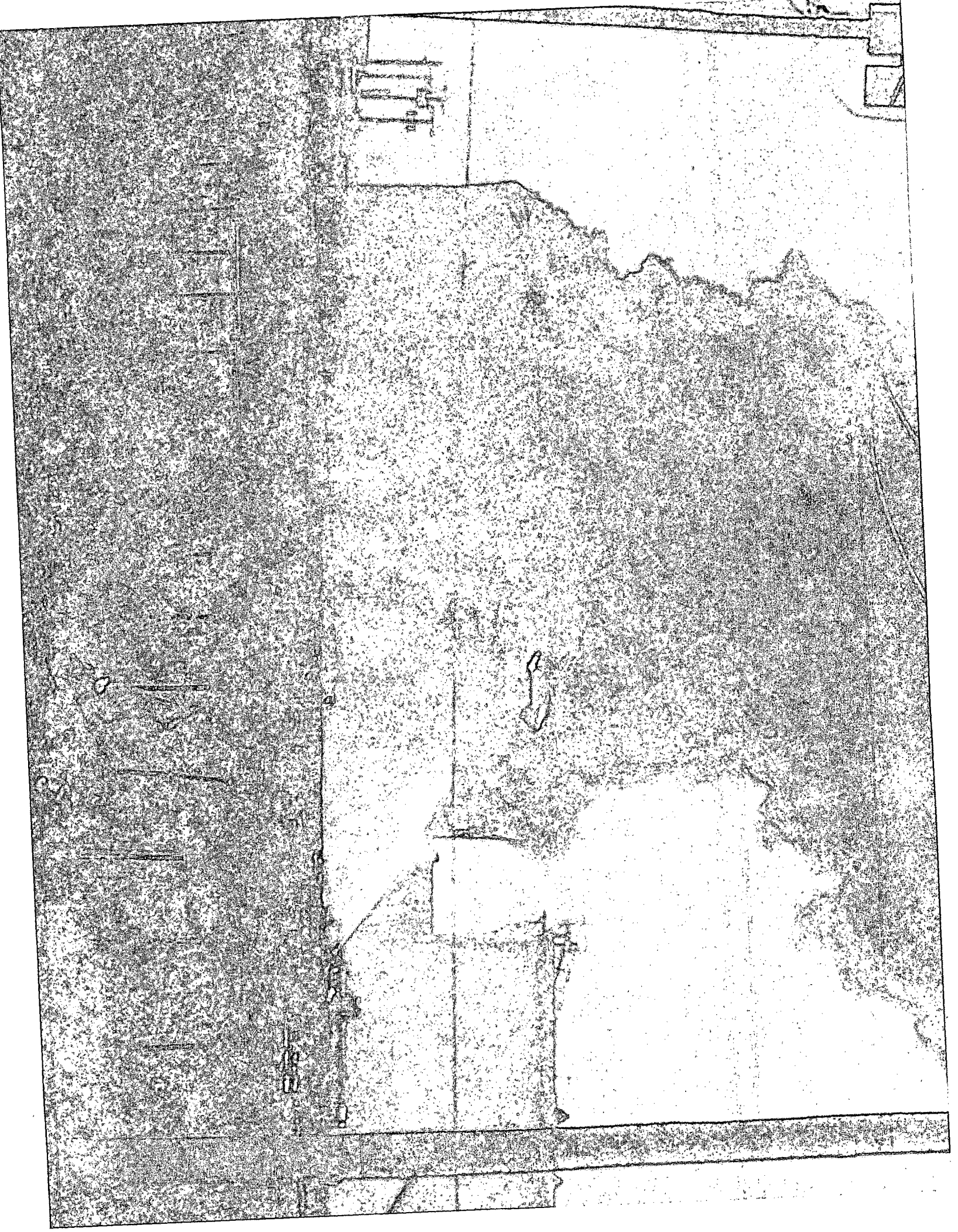

Chavez, Carl J, EMNRD

From: Gray, Darold, EMNRD
Sent: Wednesday, March 03, 2010 11:38 PM
To: Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Cc: Fesmire, Mark, EMNRD
Subject: FW: Navajo Storage Tank Fire
Attachments: Aftermath.jpg; Early_view_from_west_001.jpg; Early_View_from_west_002.jpg; Fire_at_its_peak_1.jpg; Taking_Control_1.jpg; Taking_control_3.jpg; View_from_west_2.jpg; View_from_west_3.jpg

Gentlemen,

I secured these photos that were taken at various intervals from outside of the plant, during the incident. So far, these are the best pictures of the incident I have been able to locate.

Early view from west #2 was taken from US285.
Taking control #1 was taken from US82, just east of the plant. The involved tank is not the one in the foreground.
Taking Control #3 - The tank that has the scaffolding up around it, is the one that was involved.
Aftermath was taken almost directly south of the tank, from US82.

This is all that I have for you now.

Darold Gray
NM OCD - Artesia
Field Supervisor
Cell: (575) 626-0843
Off:(575) 748-1283 ext. 113
darold.gray@state.nm.us

Subject: Navajo Storage Tank Fire

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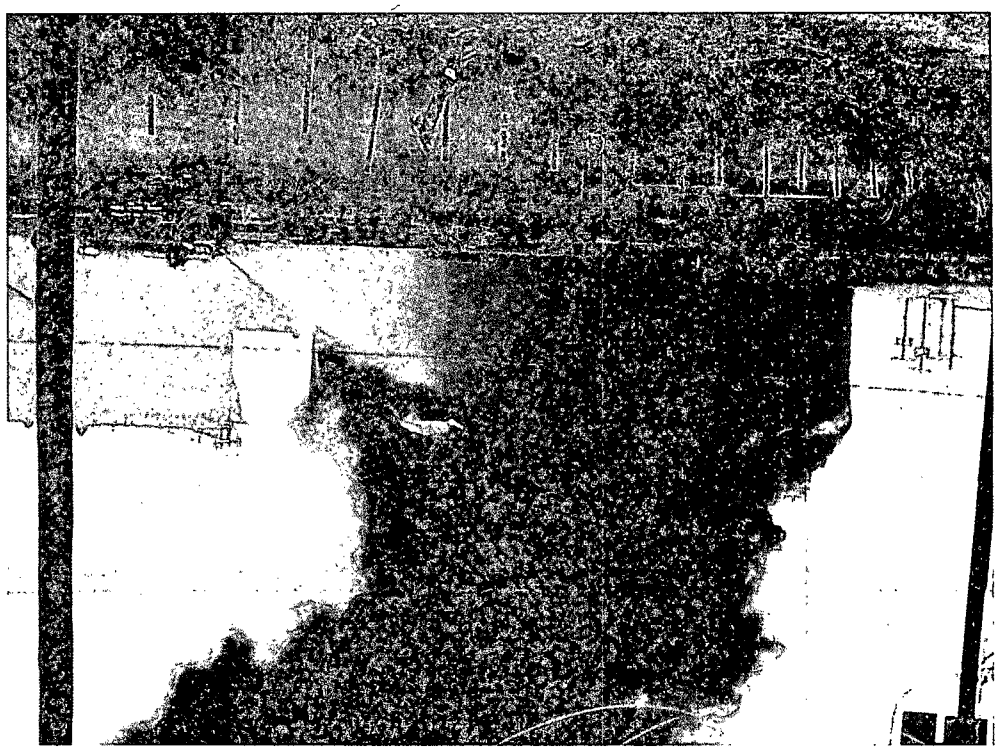

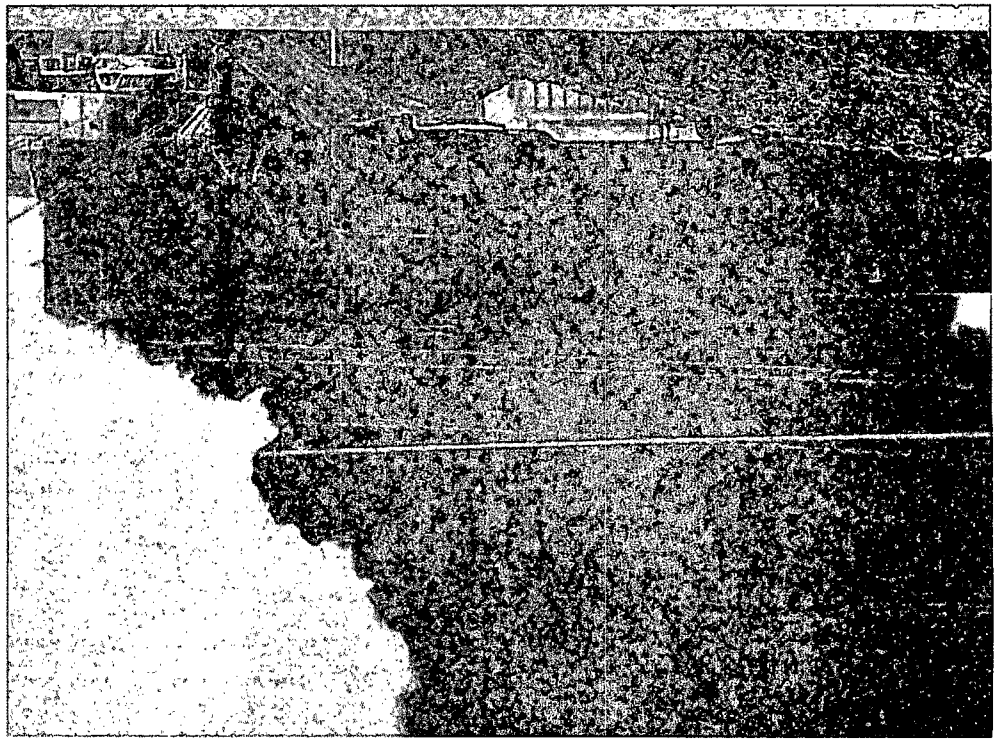

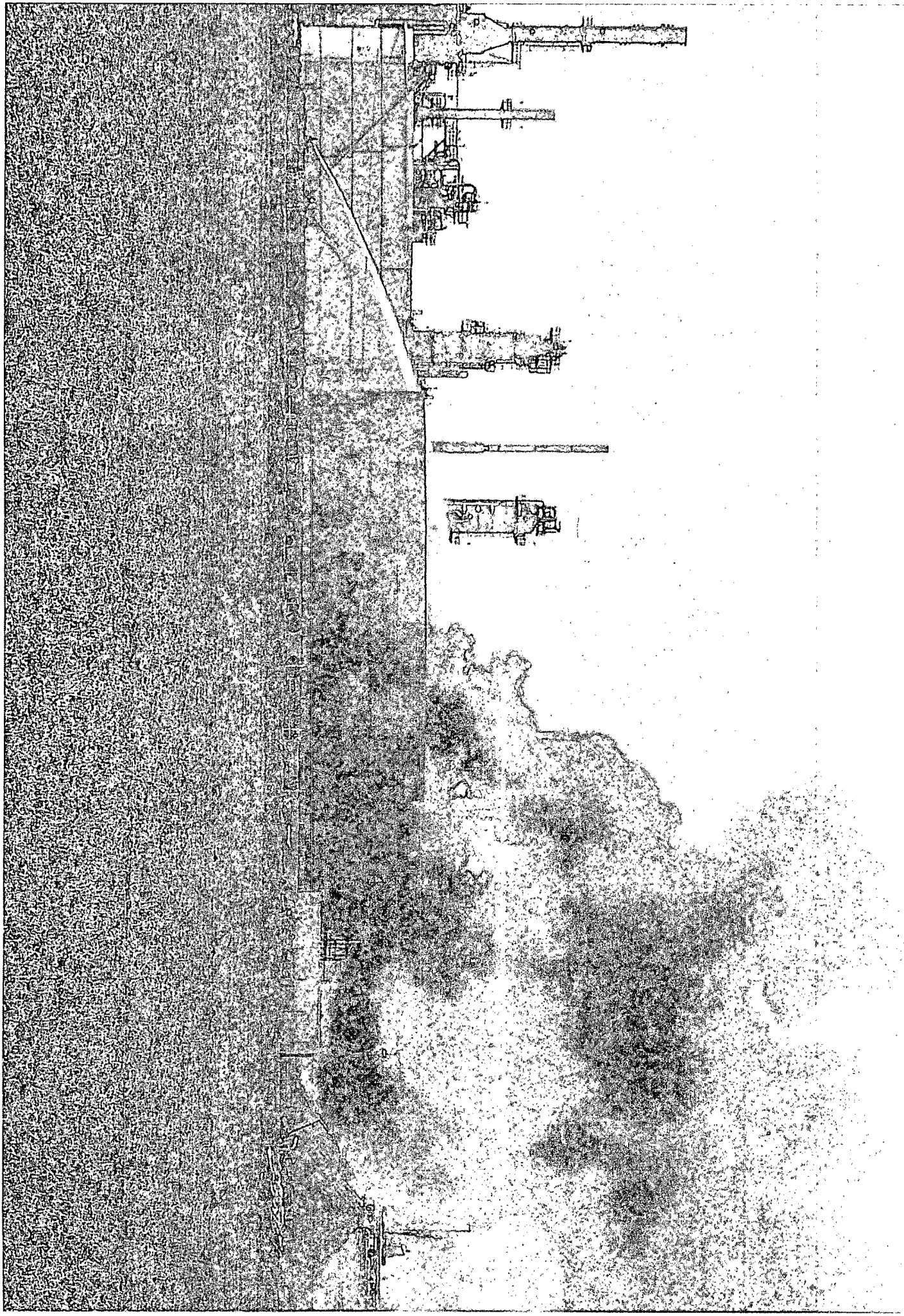

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Monday, March 08, 2010 2:26 PM
To: Strange, Aaron
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Moore, Darrell; Lackey, Johnny
Subject: Carbon Black Oil spill
Attachments: 2010-02-23 CBO Spill.pdf

Aaron

It is NMED's understanding that carbon black oil is generated from clarified slurry oil which is a listed hazardous waste K170. Therefore, the carbon black oil would carry the K170 listing and would need to be shipped off as a hazardous waste instead of a non-hazardous waste. Please clarify the process in which carbon black oil is generated at the facility.

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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

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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: Carbon Black Oil (CBO) Spill.	Volume of Release: ~7 to 8 barrels	Volume Recovered: 0 barrels
Source of Release: Rail Loading Valve at CBO Loading Rack.	Date and Hour of Occurrence: 02/23/2010 at ~ 07:30	Date and Hour of Discovery: 02/23/2010 at ~ 07:45
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NA	
By Whom?	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 02/23/2010 at ~ 07:30 Carbon Black Oil (CBO) spilled out of a rail loading valve at the CBO Loading Rack. The valve was left open the night before and spilled as the first truck of the day was being loaded. The valve was closed when the spill was found. Operators are now required to lock all loading valves closed after use and to walk the rack checking each loading valve before loading.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a ~ 6'x40' area between the rail road tracks at the CBO Loading Rack. The CBO and contaminated soil has been remove and placed into two roll off bins and is being disposed of as Non-Hazardous Waste at Controlled Recovery Inc. A bottom hole/confirmation sample will be collected and analyzed.

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: 03/05/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Monday, March 08, 2010 7:55 AM
To: Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD
Cc: Cobrain, Dave, NMENV
Subject: FW: 3-2-10 Fire

FYI

From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Thursday, March 04, 2010 11:03 AM
To: Monzeglio, Hope, NMENV; Moore, Darrell
Cc: Strange, Aaron; Cobrain, Dave, NMENV
Subject: RE: 3-2-10 Fire

Hope, below is a link to the latest press release from Holly Corporation regarding the fire at its subsidiary's Navajo Refinery on Tuesday, 3/2/10. Please be advised that the employees involved in the accident were contract employees and no Navajo employees were injured. Navajo is doing everything we can to be sensitive to the families' need for privacy and will not release the names of anyone involved in this tragic incident. There was no damage to adjacent tanks. One tank is still under construction and the other tank was being emptied for maintenance. The tank that was involved in the incident is remote from the process area, so no process equipment or piping was involved. The press release covers the injuries and fatality. One person is still listed as missing. An email notification was sent to both the OCD and NMED within ~3.5 hours of the incident. A call was made to the OCD, LEPC and SERC shortly after the incident and I now understand that a phone notification was not made to the NMED. I apologize for the oversight. Hopefully the email notification was received and the NMED was aware of the situation shortly after it occurred.

Holly Corporation issues press release 3/3/10.

Holly Corporation Provides Update on Construction Fire at Navajo Refinery

Full text of this press release can be viewed at: http://www.hollycorp.com/press_release.cfm?id=337

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, March 04, 2010 10:17 AM
To: Lackey, Johnny; Moore, Darrell
Cc: Strange, Aaron; Cobrain, Dave, NMENV
Subject: 3-2-10 Fire

Johnny and Darrell

As a reminder, Navajo must comply with the Twenty-four Hour Reporting requirements found in Section 1.5.13.a, b, and c of the Post-Closure Care Permit. NMED is concerned about the affects the incident may have had on nearby tanks, equipment, piping, and damage that may have occurred that may not be visible on the ground. Let me know if you have any questions (NMED is closed tomorrow due to a furlough day).

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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Holly Corporation Provides Update on Construction Fire at Navajo Refinery

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3/3/2010
DALLAS – Holly Corporation (NYSE:HOC) today provided an update regarding the fire that occurred yesterday in a new asphalt tank that was under construction at its subsidiary's Navajo Refinery in Artesia, New Mexico.

The Company is saddened to report that there was one confirmed fatality and one person remains missing and is assumed to be a second fatality. The fire also resulted in serious injuries to two of the contractor's employees.

David Lamp, President of Holly Corporation, today issued the following statement:

"Everyone at Holly is deeply saddened by this tragic loss of life and our thoughts and prayers are with the families of those involved. We extend our sincere sympathy and condolences."

Holly Corporation, headquartered in Dallas, Texas, is an independent petroleum refiner and marketer that produces high value light products such as gasoline, diesel fuel, jet fuel and other high value specialty products. Holly operates through its subsidiaries a 100,000 barrels per stream day ("bpsd") refinery located in Artesia, New Mexico, a 125,000 bpsd refinery in Tulsa, Oklahoma and a 31,000 bpsd refinery in Woods Cross, Utah. A subsidiary of Holly also owns a 34% interest (including the general partner interest) in Holly Energy Partners, L.P.

FOR FURTHER INFORMATION, contact:

M. Neale Hickerson,
Vice President, Investor Relations
Holly Corporation
214/871-3555

Andrew Siegel / Aaron Palash

Joele Frank, Wilkinson Brimmer Katcher
212-355-4449

Back

Back to Top

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, March 05, 2010 4:15 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: C-141 Reports
Attachments: 2010-02-20 Effluent Line Leak.pdf; 2010-02-23 CBO Spill.pdf

Carl and Hope,

Please see the attached Initial C-141 Reports.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 02/20/2010 ~ 12:10	Date and Hour of Discovery: 02/20/2010 ~ 12:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Carl Chavez with OCD in Santa Fe (505-476-3490), left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045), and left a voicemail with the OCD Artesia Office (575-748-1283 extension 104). OCD (Artesia) called back.	
By Whom? Darrell Moore	Date and Hour: 02/20/2010 at ~13:50 to Carl Chavez (OCD Santa Fe), 02/20/2010 at ~14:15 to Hope Monzeglio (NMED Haz Waste Bureau), and 02/31/2010 at ~14:17 to the OCD Artesia office.	
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 02/20/2010 at ~ 12:30 the waste water effluent line began to leak between the Chukka and Gaines Injection Wells. The effluent line was blocked in at the Waste Water Treater (inside the refinery) at ~ 13:04 on 02/20/2010 to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection wells. The leak was excavated to make repairs and the soil was placed into six roll off bins. The leak did not stain the soil; however Navajo will dispose of the excavated soil per analytical 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: 03/05/2010 Phone: 575-703-5057		

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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: Carbon Black Oil (CBO) Spill.	Volume of Release: ~7 to 8 barrels	Volume Recovered: 0 barrels
Source of Release: Rail Loading Valve at CBO Loading Rack.	Date and Hour of Occurrence: 02/23/2010 at ~ 07:30	Date and Hour of Discovery: 02/23/2010 at ~ 07:45
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NA	
By Whom?	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 02/23/2010 at ~ 07:30 Carbon Black Oil (CBO) spilled out of a rail loading valve at the CBO Loading Rack. The valve was left open the night before and spilled as the first truck of the day was being loaded. The valve was closed when the spill was found. Operators are now required to lock all loading valves closed after use and to walk the rack checking each loading valve before loading.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a ~ 6'x40' area between the rail road tracks at the CBO Loading Rack. The CBO and contaminated soil has been remove and placed into two roll off bins and is being disposed of as Non-Hazardous Waste at Controlled Recovery Inc. A bottom hole/confirmation sample will be collected and analyzed.

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: 03/05/2010 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Gray, Darold, EMNRD
Sent: Wednesday, March 03, 2010 11:38 PM
To: Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Cc: Fesmire, Mark, EMNRD
Subject: FW: Navajo Storage Tank Fire
Attachments: Aftermath.jpg; Early_view_from_west_001.jpg; Early_View_from_west_002.jpg; Fire_at_its_peak_1.jpg; Taking_Control_1.jpg; Taking_control_3.jpg; View_from_west_2.jpg; View_from_west_3.jpg

Gentlemen,

I secured these photos that were taken at various intervals from outside of the plant, during the incident. So far, these are the best pictures of the incident I have been able to locate.

Early view from west #2 was taken from US285.
Taking control #1 was taken from US82, just east of the plant. The involved tank is not the one in the foreground.
Taking Control #3 - The tank that has the scaffolding up around it, is the one that was involved.
Aftermath was taken almost directly south of the tank, from US82.

This is all that I have for you now.

Darold Gray
NM OCD - Artesia
Field Supervisor
Cell: (575) 626-0843
Off:(575) 748-1283 ext. 113
darold.gray@state.nm.us

Subject: Navajo Storage Tank Fire

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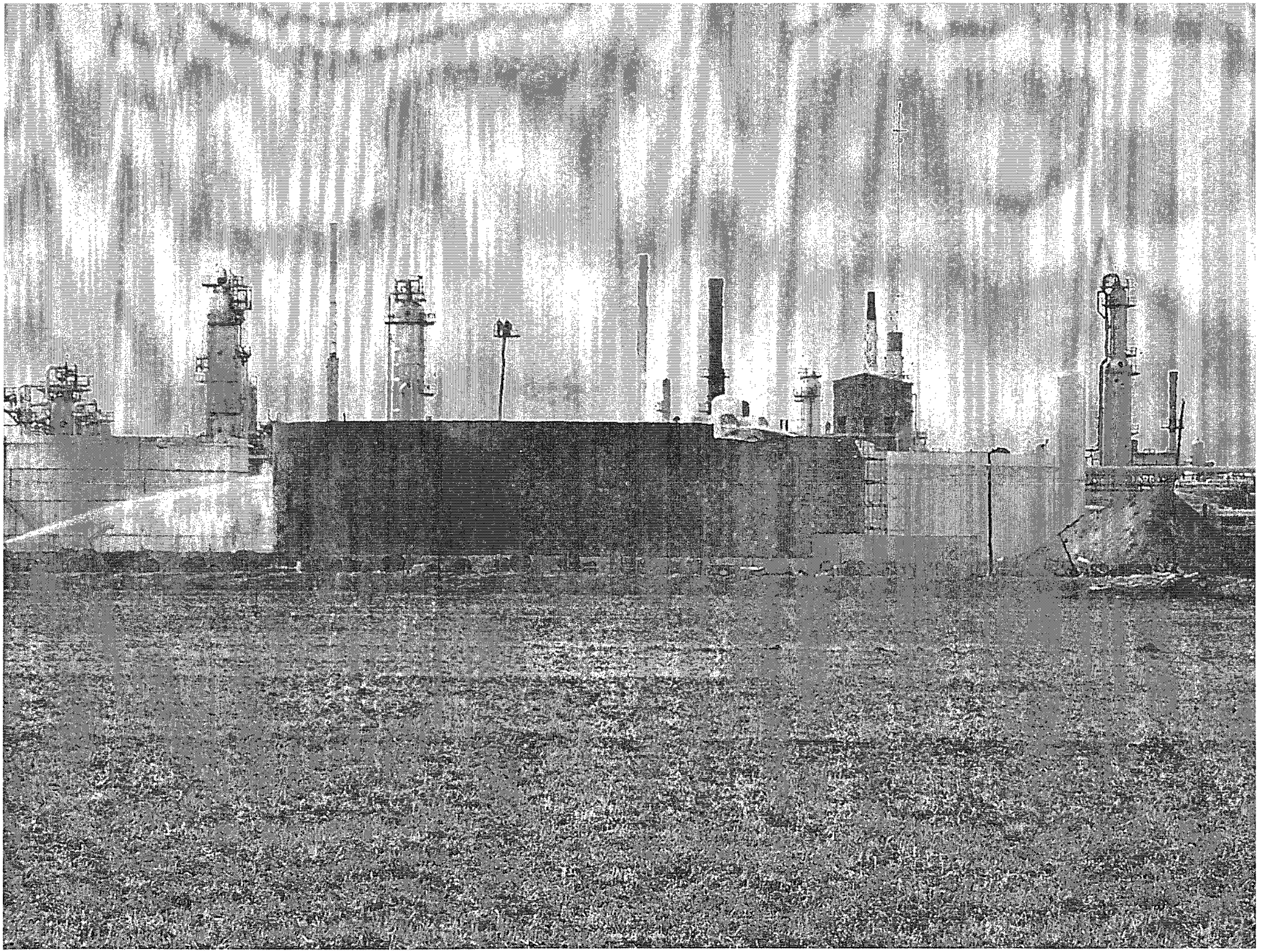
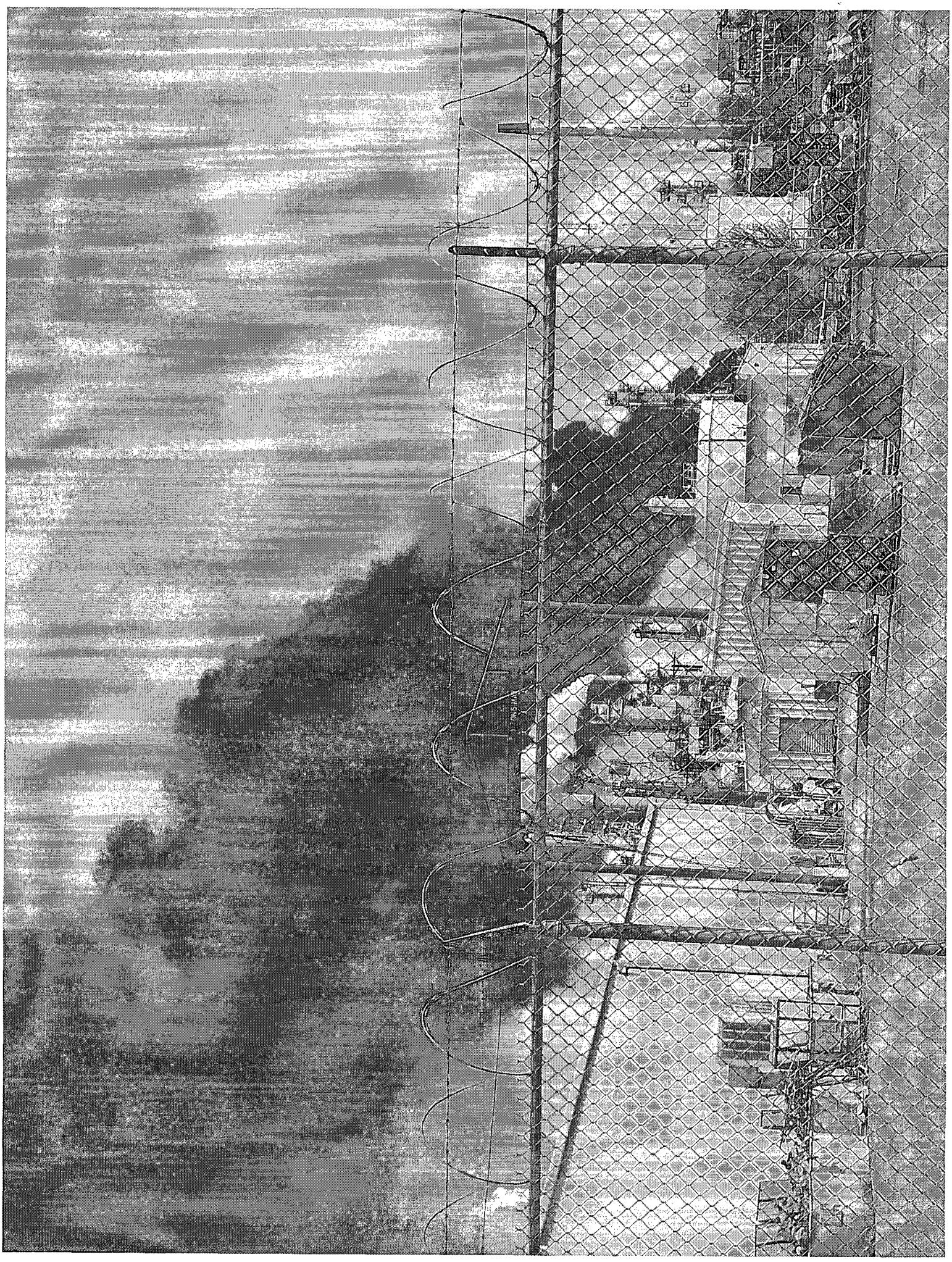
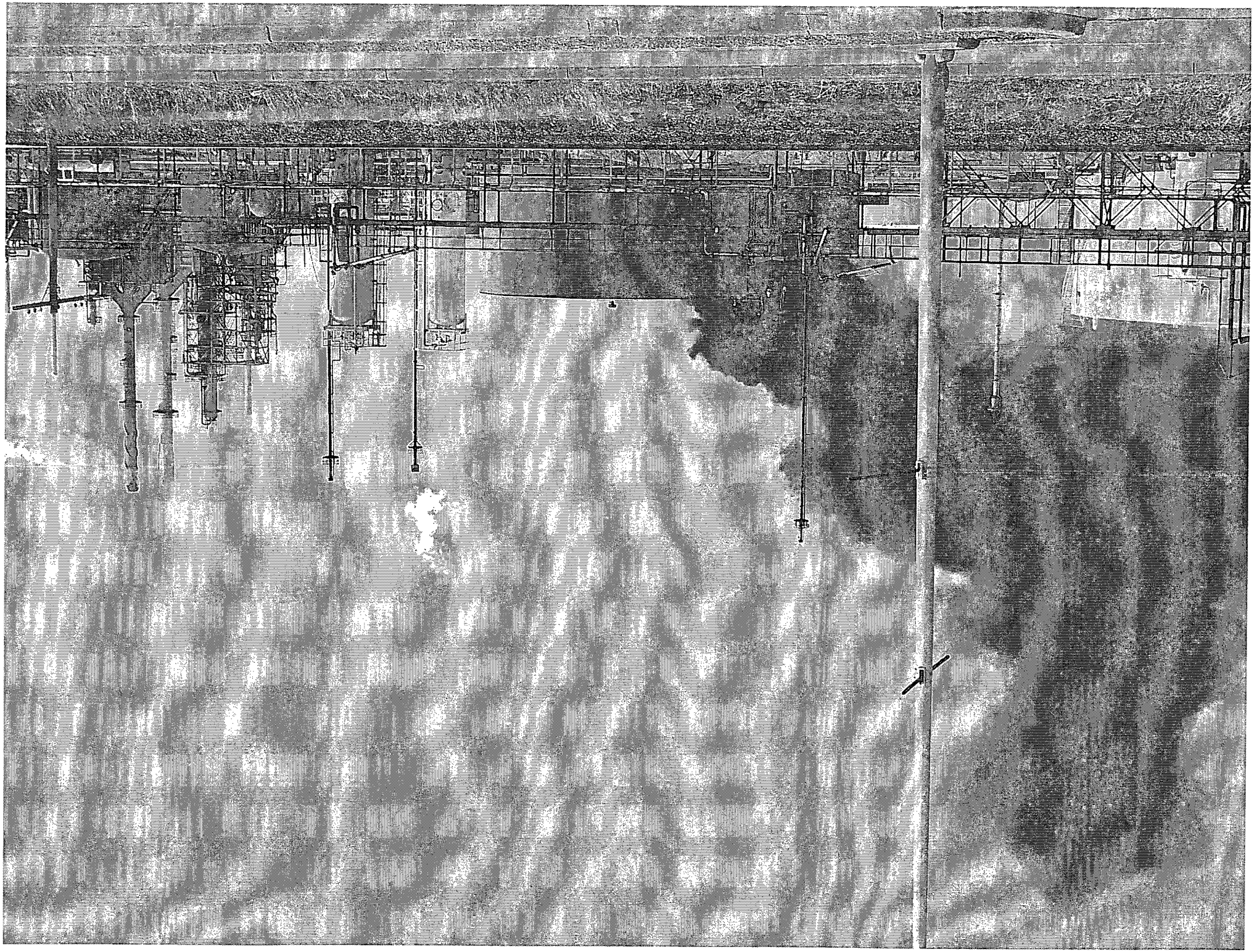
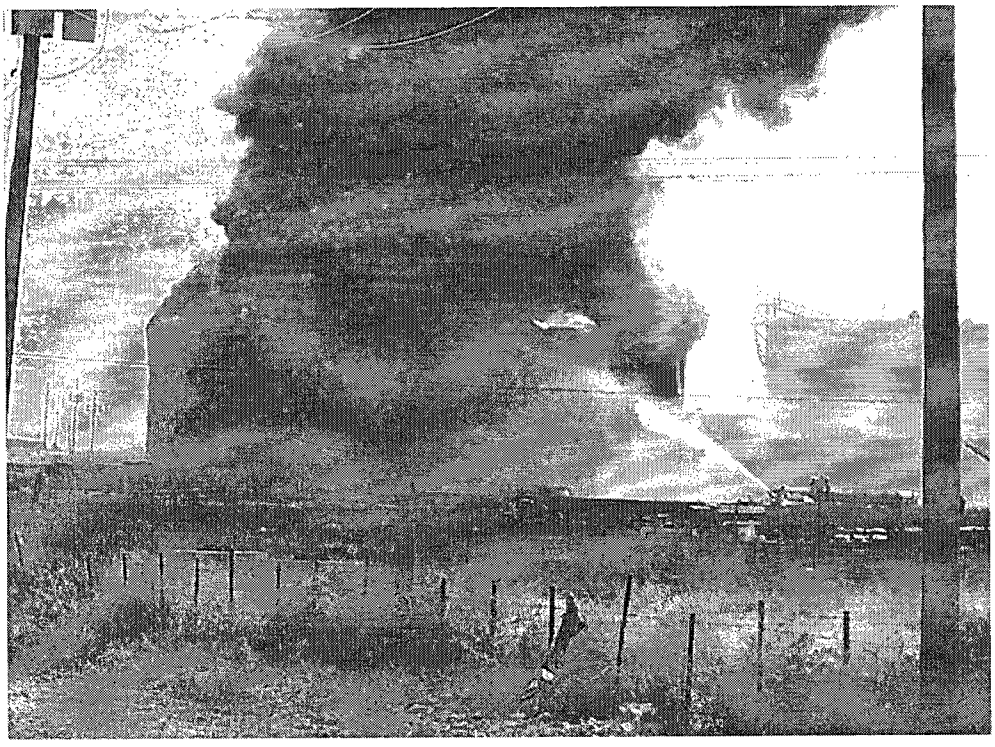
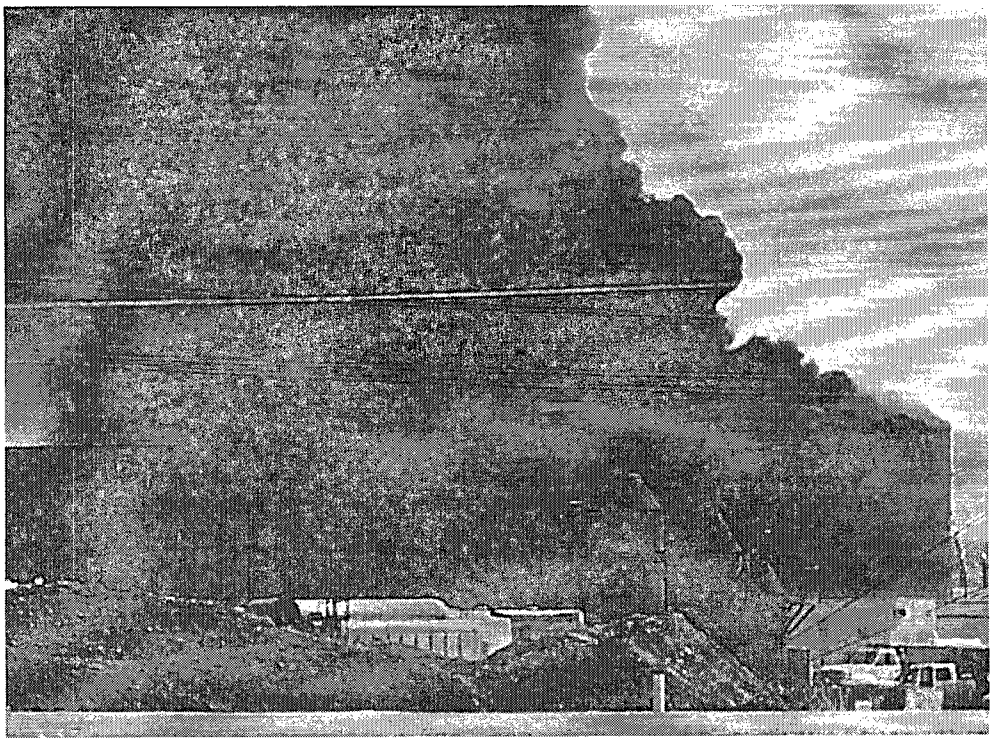
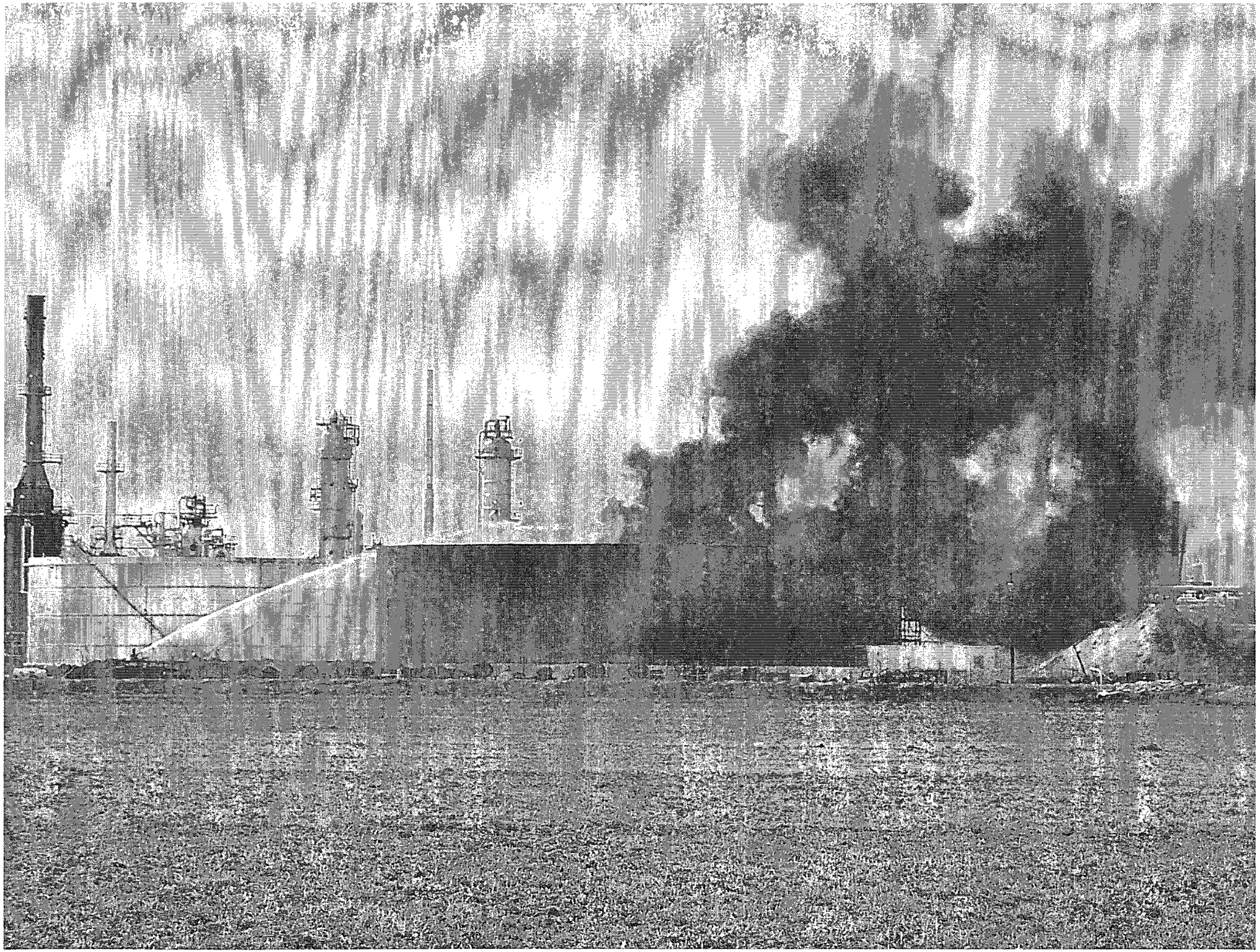


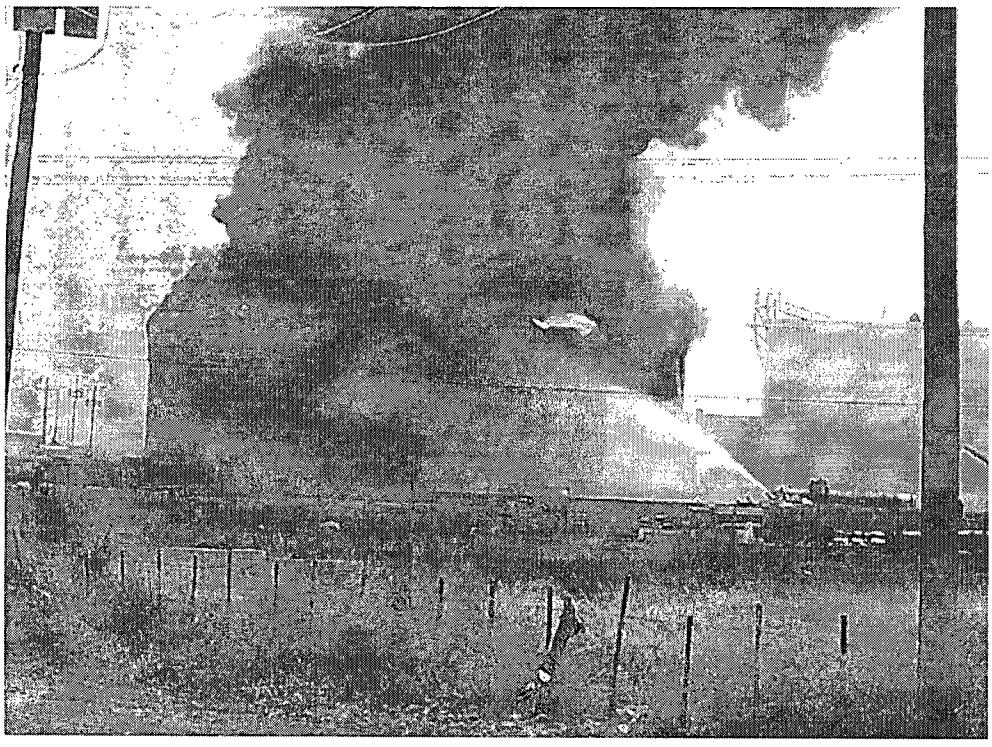












Chavez, Carl J, EMNRD

From: Dade, Randy, EMNRD
Sent: Wednesday, March 03, 2010 4:19 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Navajo

Will bring my camera and get pictures of tank from road on east side of plant. Tank is bulged and collapsed on edges. Randy

---

From: Chavez, Carl J, EMNRD
Sent: Wednesday, March 03, 2010 4:17 PM
To: Dade, Randy, EMNRD
Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: RE: Navajo

Thanks for the update on the visit. Seems like we may want to contact OSHA for an approximate time frame for the investigation to be completed and to see what information they can share with us before the final report, etc.....? Just a thought...

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")

From: Dade, Randy, EMNRD
Sent: Wednesday, March 03, 2010 4:14 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Navajo

Carl, when Darold and I were at Navajo, the Lawyers were in the office with everyone that came in. OSHA was out at the tank and we did not talk to anyone but Johnny Lackey. Johnny stated that OSHA and an Environmental Inspector from the feds were out and about. We were more than welcome to come back after the investigation was done to go and look at the site. We left our cards with the lawyers and asked to be kept in the loop with what was going on. We asked about the water in the tank and it was stated that it had hydrocarbons in it. I just asked how they were to get rid of it and was told, "It will be disposed of properly". Darold and I left and came back to the office. If you need anything else, we will work on it. Randy

---

From: Chavez, Carl J, EMNRD
Sent: Wednesday, March 03, 2010 4:05 PM
To: Gray, Darold, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Cc: Fesmire, Mark, EMNRD
Subject: RE: Navajo

Darold:

Do we know how long a standard OSHA investigation may take? I know you mention this one may take longer due to having to drain the tank (~3M gal.)..... Johnny Lackey wants the OCD to wait until the OSHA investigation is complete before releasing details to the OCD. Maybe we need to be in contact with OSHA? Did you get a contact name and phone number while you visited the refinery this morning? Thanks.

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")

From: Gray, Darold, EMNRD
Sent: Wednesday, March 03, 2010 3:11 PM
To: Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Cc: Fesmire, Mark, EMNRD
Subject: Navajo

Gentlemen,

Since Navajo officials don't seem to think they need to report anything to us, outside of their fires, I have used my connections through The Office of the Medical Investigator to get this information.

At around 11 A.M. today, Navajo has started to off-load the tank which was involved in the incident, which is also where they believe the last body is. Navajo officials also reported to OMI personnel that it is going to be a slow process, but they can" thank the OCD for that," as we will not allow them to dump this water out on the ground. Navajo stated to the OMI that they estimate there to be around 1,000,000 gallons of water in the tank.

My OMI contact will not give me a statement as to what she saw at the facility last night, or what she was told by the safety personnel, until after her investigation is complete. She also said, if we need any information from her during that time, we will need to contact the State OMI office, and talk to her boss. If it comes down to that, I can get that information for you. I was also going to talk to Battalion Chief Hope, AFD, who was a first on scene responder when they went in to get the bodies yesterday, but he was out of the office all day.
If there is any other leg work you need me to do, please let me know. I will be happy to help in any way that I can.

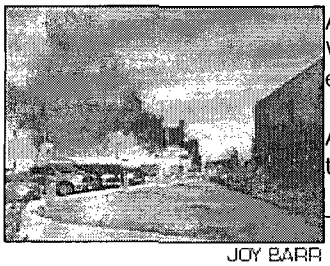
Thanks,

Darold Gray
NM OCD - Artesia
Field Supervisor
Cell: (575) 626-0843
Off:(575) 748-1283 ext. 113
darold.gray@state.nm.us

Chavez, Carl J, EMNRD

From: Gray, Darold, EMNRD
Sent: Wednesday, March 03, 2010 12:12 PM
To: Sanchez, Daniel J., EMNRD
Cc: Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD
Subject: Navajo Fire

Posted at: 03/02/2010 4:13 PM | Updated at: 03/03/2010 11:26 AM
By: SUE MAJOR HOLMES, Associated Press Writer


JOY BARR

ALBUQUERQUE, N.M. (AP) - Federal and state investigators were probing blackened debris Wednesday at a southeastern New Mexico oil refinery, where a storage tank explosion a day earlier killed one Texas man and critically injured two others. A fourth is missing.

Authorities say warning sirens sounded just before 1 p.m. at Navajo Refinery, which sits at the intersection of U.S. 82 and U.S. 285 in Artesia, surrounded by businesses.

The plant was evacuated.

Police Sgt. Lindell Smith says one body was found on the site, and a second man is missing and presumed dead.

He identifies those men as Natividad Andajo of Odessa, Texas, and Victor Villa of Midland, Texas.

Smith says they were employed by a contractor at the refinery, Northwest Insulation of Texas.

Two other contractor employees were airlifted to a Lubbock, Texas, hospital in critical condition.

I forwarded this from the KOB website. I was unsure if you had seen it or not.

Darold Gray
NM OCD - Artesia
Field Supervisor
Cell: (575) 626-0843
Off:(575) 748-1283 ext. 113
darold.gray@state.nm.us

Chavez, Carl J, EMNRD

From: Lackey, Johnny [Johnny.Lackey@hollycorp.com]
Sent: Wednesday, March 03, 2010 4:01 PM
To: Chavez, Carl J, EMNRD
Subject: Declined: Navajo Refinery Fires

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CurrentArgus.com

Navajo Refinery fire death toll at 2

Officials release more details on Tuesday fire

By Sue Major Holmes
Associated Press Writer

Posted: 03/03/2010 09:49:34 PM MST

ALBUQUERQUE — Federal and state investigators were probing blackened debris Wednesday at a southeastern New Mexico oil refinery where a storage tank explosion killed two Texas men and critically injured two others.

Authorities say warning sirens sounded just before 1 p.m. Tuesday at Navajo Refinery, which sits at the intersection of U.S. 82 and U.S. 285 in Artesia.

The plant was evacuated, but authorities said there was no need for evacuations of nearby businesses or homes only blocks away.

Police Sgt. Lindell Smith says one body was found on the site, and a second man is missing and presumed dead.

He identifies those men as Natividad Andajo of Odessa, Texas, and Victor Villa of Midland, Texas.

Two other workers were airlifted to a Lubbock, Texas, hospital in critical condition. Their names were not released.

The body found after the blast was sent to the Office of the Medical Investigator in Albuquerque for an autopsy and positive identification. Smith said authorities could not say immediately which man's body was found Tuesday.

All four workers were employed by a contractor at the refinery, Northwest Insulation of Texas, he said.

The accident occurred in an area away from the main plant, and Navajo Refinery was operating normally Wednesday, said Andrew Siegel of the New York public relations firm, Joele Frank, Wilkinson Brimmer Katcher, which represents Navajo's parent company, Holly Corp. of Dallas.

The 24-hour Artesia plant refines oil into diesel, gasoline, jet fuel, and other products, including asphalt.

Artesia police and fire officials said the federal Occupational Safety and Health Administration was investigating. A team from the state Environment Department's Occupational Safety and Health Bureau arrived Tuesday evening to help with the probe, said a department spokeswoman, Marissa Stone Bardino.

The fire occurred away from other tanks, said Artesia Fire Chief J.D. Hummingbird.

"We were lucky the wind was cooperating; it was blowing the smoke away from the refinery and the city. The public was never in danger," he said.

Firefighters outside the station heard the explosion less than half a mile away, Hummingbird said. He went out and saw thick, black smoke at the same time a 911 call came in.

"We knew we had a problem," he said.

Navajo Refinery's own fire brigade fought the blaze, while the Artesia department sent ambulances,

Advertisement

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CurrentArgus.com

Hummingbird said.

Four officers with the Eddy County Sheriff's Office were involved with traffic issues outside the refinery, Chief Deputy Kent Waller said Wednesday in Carlsbad.

Advertisement

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Chavez, Carl J, EMNRD

From: Lackey, Johnny [Johnny.Lackey@hollycorp.com]
Sent: Wednesday, March 03, 2010 2:43 PM
To: Chavez, Carl J, EMNRD
Cc: Joel M. Carson; rolson@hinklelawfirm.com; Fuller, Gary; McWatters, Denise; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD; Dade, Randy, EMNRD
Subject: NAVAJO FIRE

Carl. I got your phone message. On advice of legal council I have been directed to disclose only the information that falls under the OCD and NMED Haz Waste Bureau's jurisdiction. Navajo has reported the fire as required in our Discharge Permit (GW-028) to both the OCD and NMED Haz Waste Bureau. I have stated that no groundwater contaminants were released to the ground as a result of the tank fire. The OCD Form C-141 will be submitted as required in our Discharge Permit. OSHA has jurisdiction over this event and they are currently on site conducting their investigation. Until OSHA completes their investigation I am not at liberty to disclose anything other than what is officially released from Holly Corp (see link below for latest press release). At no time was the general public in any danger from a release from this event. No outside responders were needed to control or extinguish the fire. Therefore I decline participation on the conference call tomorrow and will send out updates as they become available. I feel we have satisfied our requirements under the Discharge Permit. When OSHA completes their investigation and you feel we have not satisfied requirements under our Discharge Permit I will be happy to discuss.

Holly Corporation issues press release today.

Holly Corporation Provides Update on Construction Fire at Navajo Refinery

Full text of this press release can be viewed at: http://www.hollycorp.com/press_release.cfm?id=337

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

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Chavez, Carl J, EMNRD

Subject:	Navajo Refinery Fires
Location:	Telephone Call
Start:	Thu 3/4/2010 8:30 AM
End:	Thu 3/4/2010 9:30 AM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Chavez, Carl J, EMNRD
Required Attendees:	Lackey, Johnny; Moore, Darrell; Dade, Randy, EMNRD; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; Strange, Aaron; Gray, Darold, EMNRD
Categories:	Red Category

Callers please call into (213) 289-0500 and enter your "Particpant Access Code" of 4509670 followed by the "#" symbol to enter the conference call.

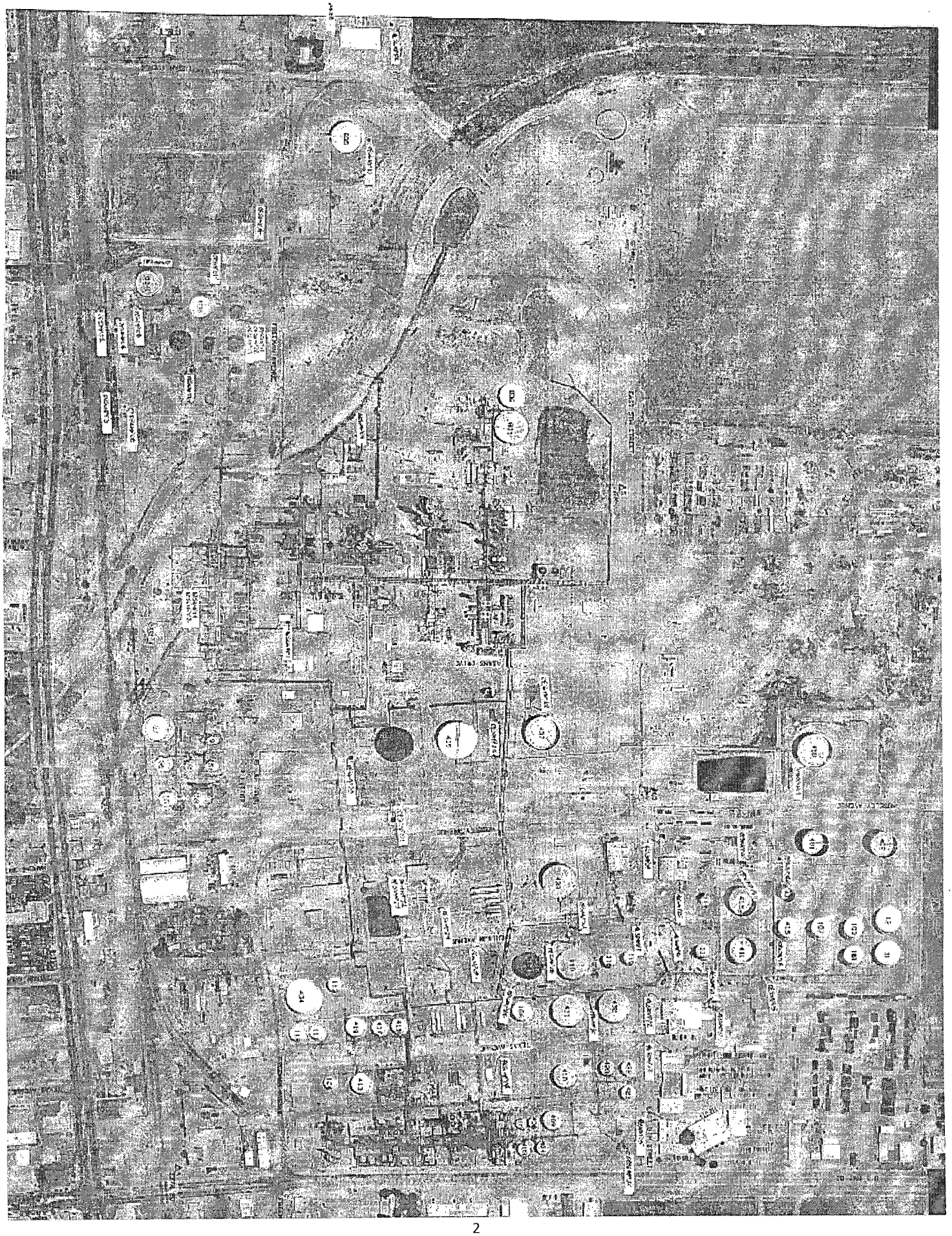
Draft Agenda

1) Fire on 3/2/2010 12:30 Investigation Update
2) What caused the fire?
3) If hydrostatic testing was on a new asphalt tank under construction, how did fire start?
4) What burned? Photos show very dark smoke and it took ~90 minutes to put fire out.
5) Determination of impacts to the environment? How was this determined?
6) Miscellaneous
7) Path Forward

Please call the phone number below and enter the code to enter the teleconference call. Thank you.

1-213-289-0500 (Los Angeles) and enter participant code: 4509670 followed by the "#" symbol to enter the conference call.

Date:	Thursday, March 04, 2010	
	Start Time:	8:30 AM Mountain Std Time
	End Time:	9:10 AM Mountain Std Time
	Participants:	7
	Type of Conference	Web-Scheduled Standard
	Dial-in Number:	1-213-289-0500 (Los Angeles)
	Organizer Access Code:	*693464 (you must include the leading star key)
	Participant Access Code	4509670



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Sent: Wednesday, March 03, 2010 2:43 PM
To: Chavez, Carl J, EMNRD
Cc: Joel M. Carson; rolson@hinklelawfirm.com; Fuller, Gary; McWatters, Denise; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD; Dade, Randy, EMNRD
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Holly Corporation issues press release today.

Holly Corporation Provides Update on Construction Fire at Navajo Refinery

Full text of this press release can be viewed at: http://www.hollycorp.com/press_release.cfm?id=337

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

Holly Corporation Provides Update on Construction Fire at Navajo Refinery

Printer-friendly format

3/3/2010
DALLAS – Holly Corporation (NYSE:HOC) today provided an update regarding the fire that occurred yesterday in a new asphalt tank that was under construction at its subsidiary's Navajo Refinery in Artesia, New Mexico.

The Company is saddened to report that there was one confirmed fatality and one person remains missing and is assumed to be a second fatality. The fire also resulted in serious injuries to two of the contractor's employees.

David Lamp, President of Holly Corporation, today issued the following statement:

"Everyone at Holly is deeply saddened by this tragic loss of life and our thoughts and prayers are with the families of those involved. We extend our sincere sympathy and condolences."

Holly Corporation, headquartered in Dallas, Texas, is an independent petroleum refiner and marketer that produces high value light products such as gasoline, diesel fuel, jet fuel and other high value specialty products. Holly operates through its subsidiaries a 100,000 barrels per stream day ("bpsd") refinery located in Artesia, New Mexico, a 125,000 bpsd refinery in Tulsa, Oklahoma and a 31,000 bpsd refinery in Woods Cross, Utah. A subsidiary of Holly also owns a 34% interest (including the general partner interest) in Holly Energy Partners, L.P.

FOR FURTHER INFORMATION, contact:

M. Neale Hickerson,
Vice President, Investor Relations
Holly Corporation
214/871-3555

Andrew Siegel / Aaron Palash

Joele Frank, Wilkinson Brimmer Katcher

Carl, here is the press release from Holly Corp. The refinery operations were not affected by the fire and the refinery continues to operate without disruption due to this event. The fire was isolated to one storage tank on the east side of the refinery and was brought under control and extinguished by the refinery fire brigade in approximately 90 minutes. No outside resources were needed to control the fire. I don't have a status update on the 2 injured contract employees that were sent to Lubbock. The investigation is ongoing and State OSHA Inspectors are on site to conduct their investigation. No material from the tank was discharged to the ground during this event. The C-141 Report will be submitted per requirements.

Holly Corporation issues press release on March 2, 2010.

Holly Corporation Reports Construction Fire at Navajo Refinery

Full text of this press release can be viewed at: http://www.hollycorp.com/press_release.cfm?id=336

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, March 03, 2010 8:24 AM
To: Lackey, Johnny
Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD; Strange, Aaron; Moore, Darrell
Subject: RE: Declined: Navajo Refinery Fires

Johnny:
OCD needs a quick summary of events of the fire with injuries (status of injured) this morning for a possible press release.by OCD this a.m. Is the refinery off-line?

Status of investigation and C-141 information.

Please refer to the OCD's e-mail of February 5, 2010 e-mail with OCD's review and recommendations for a path forward from the recent fires at the Navajo Artesia Refinery. Also, please let us know if there are other impending issues that may result in any catastrophic events going forward.

Thank you.
Carl J. Chavez, CHMM

Chavez, Carl J, EMNRD

From: Lackey, Johnny [Johnny.Lackey@hollycorp.com]
Sent: Wednesday, March 03, 2010 9:21 AM
To: Chavez, Carl J, EMNRD
Cc: McWatters, Denise; Whatley, Michael; Fuller, Gary; Joel M. Carson; Richard Olson
Subject: RE: Declined: Navajo Refinery Fires

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Holly Corporation issues press release on March 2, 2010.

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Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD; Strange, Aaron; Moore, Darrell
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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")

-----Original Appointment-----
From: Lackey, Johnny [mailto:Johnny.Lackey@hollycorp.com]
Sent: Tuesday, March 02, 2010 6:33 PM
To: Chavez, Carl J, EMNRD
Subject: Declined: Navajo Refinery Fires
When: Wednesday, March 03, 2010 8:30 AM-9:00 AM (GMT-07:00) Mountain Time (US & Canada).
Where: Telephone Call

I will be tied up in investigation of the incident tomorrow morning until ????

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Chavez, Carl J, EMNRD

From: Dade, Randy, EMNRD
Sent: Tuesday, March 02, 2010 4:13 PM
To: Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD
Subject: Navajo fires

Here is a list of calls that I have received from Navajo with emergencies:

01/10/2010 : 6:45 AM Tank 836- overflow

01/10/2010 : 12:30 PM small fire

01/11/2010 : 4:00 AM fire

01/14/2010 : 12:15 AM Fire at pitch tank 1227

01/17/2010 : 2:45 AM Fire at pump 178

01/17/2010 : 3:50 AM Fire at pump 178 reignited

01/20/2010 : 3:30 PM Fire

01/20/2010 : 8:00 PM Fire at tank 1227

01/22/2010 : 5:30 PM Fire

01/31/2010 : 6:00 AM Fire at CCR Unit 70

02/20/2010 : 2:20 PM Pipeline leak going to injection well

03/02/2010 : 12:55 PM Tank fire- out around 1:45

Randy Dade
EMNRD OCD DISTRICT II
District Supervisor
Energy Minerals and Natural Resources...
575-748-1283 Work
575-626-1372 Mobile
Randy.Dade@state.nm.us

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, March 02, 2010 4:03 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: 2010-03-02 T-82 Fire

Carl and Hope,

Today at ~12:30 a new tank, T-82 caught on fire. The tank held hydrotest water. The fire has been extinguished. An investigation is underway as to the cause. A C-141 will be submitted as soon as possible.

If you have questions, call Johnny Lackey at 575-748-3311.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Dade, Randy, EMNRD
Sent: Tuesday, March 02, 2010 3:20 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Navajo Refining Company- Artesia Refinery (GW-028) Fire

Call came in @ 12:55 pm. Tank fire on northeast side of refinery. Fire was out around 1:45. No details as of yet

---

From: Chavez, Carl J, EMNRD
Sent: Tuesday, March 02, 2010 3:16 PM
To: VonGonten, Glenn, EMNRD
Cc: Sanchez, Daniel J., EMNRD; Dade, Randy, EMNRD
Subject: Navajo Refining Company- Artesia Refinery (GW-028) Fire

NEWS ALERT

Refinery fire reported in Artesia

A fire at an oil refinery this afternoon in Artesia has been put out. There are reports of two injuries but nothing has been confirmed by officials. Eyewitness News 4 has a crew en route. For the latest on this breaking news, stay with KOB.com and tune to Eyewitness News 4.

This occurred today in the afternoon. The refinery has been having a rash of fire lately and you may recall the spreadsheet listing all of their fires to date with OCD recommendations and a request to contact me to discuss. The refinery never called me back to discuss.

Is it time to act before more people get injured?

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")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, February 05, 2010 12:26 PM
To: 'Lackey, Johnny'; Moore, Darrell
Cc: Sanchez, Daniel J., EMNRD; Hill, Larry, EMNRD; VonGonten, Glenn, EMNRD
Subject: Navajo Refining Company- Artesia Refinery (GW-028) Fire & Safety Follow-up
Attachments: Refinery Fire and Safety Follow-up 2-5-2010.pdf

Johnny and Darrell:

Good afternoon. Please find attached a spreadsheet with recent fire reporting information from Navajo Refining Company at the above subject facility.

I am sending you the attached spreadsheet with fire information and request that Navajo Refining Company take some time to review it so we can use the spreadsheet to discuss fire and public safety issues at the refinery from recent reporting. OCD just wants to make sure we are communicating with the refinery and that we are working together to address and/or resolve any issues stemming from the recent fires.

Please contact me to schedule a meeting date and time that we can communicate and discuss fire and public safety at the refinery.

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")

Date of Occurrence	Report Date	C-141 Date	Reported by	Location	Incident	Injuries	Cause
12/31/09 9:30	12/31/09 9:59	12/31/09	Aaron Strange (575) 703-5057	Hydrogen fire in CCR (Unit #70). Fire occurred within a unit that has a concrete slab w/ sewers; however nothing spilled out or got onto the ground.	Fire	None	Saulcon Construction doing piping replacement on unit from hydrogen plant No. 2 (Unit 64) compressors to Naptha Hydrotreater (Unit 13). During grinding spark ignited hydrogen leak from loose blind flange.
1/10/10 12:05	1/10/10 12:29	01/14/10	Aaron Strange (575) 703-5057	API (oil/water separator) lift station in waste water treater unit #80.	Fire	None	Believed one of the pumps had a non-oil resistant power cord that swelled up and allowed the wires to short.
1/11/10 2:45	1/11/10 3:55	01/15/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Saturated HC insulation around tank caught fire damaging outer cover.
1/13/10 23:45	1/14/10 0:16	01/26/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Insulation caught fire under cooling condition for repairs from 1/11 fire.
1/14/10 11:00	1/14/10 14:12	01/26/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Tk already caught fire 2x before this event.
1/14/10 11:00	1/14/10 14:17	1/15/2010 (final)	Aaron Strange (575) 703-5057	Flash fire in unit 37 near D-19 fuel drum area on exchanger 359 cool water return line. No damages from fire.	Flash	None	Pipefitters were cutting on cooling water return line hwen it flashed out end of pipe. Film of hydrocarbon on insdie of pipe released vapors as pipefitters heated up pipe. Vapors ignited as torch cut thru pipe.
1/16/10 2:30	1/17/10 15:46	02/01/10	Aaron Strange (575) 703-5057	Pump seal on W-16 bottoms pump 178 (W Crude Unit Charge Pump)	Fire	None	Pump seal failed (2 in. opening) crude oil caught fire. Defective screen allowed foreign matter to pass & lodge in impeller.
1/17/10 2:30	1/17/10 3:46	02/01/10	Aaron Strange (575) 703-5057	Pump seal on W-16 bottoms pump 178 (W Crude Unit Charge Pump)	Fire	None	Pump seal failed (2 in. opening) crude oil caught fire. Defective screen allowed foreign matter to pass & lodge in impeller.
1/19/10 14:00	1/19/10 14:17		Aaron Strange (575) 703-5057	Tk 1227 Pitch Tank	Fire	None	Insulation caught fire.
1/20/10 14:54	1/20/2010 15:20:00 PM	02/04/10	Johnny Lackey (575) 746-5490	Tanks T-110 (asphalt) & T-438 (gas-oil). S Plant Flare carryover ignited fire.	Fire	?	Liquid condensate (~3 bbls) on fire fell to ground E of flare causing fire in storage tank area.
1/20/10 19:58	1/20/2010 19:02:00 PM	02/04/10	Aaron Strange (575) 703-5057	N Side of Tank 1227 (Pitch Tank)	Fire	None	Insulation saturated w/ HCs ignited.
1/22/10 8:40	1/22/10 9:15		Johnny Lackey (575) 746-5490	Refinery S. Plant (Saturates GP)	Fire (Sm.)	None	Work in pipe rack, sparks ignited leak at flange.

Date of Occurrence	Report Date	C-141 Date	Reported by	Location	Incident	Injuries	Cause
12/6/08 6:20		12/10/2008 (final)	Darrell Moore (575) 575-746-5281	Pump P-692 in Alky Unit.	Fire	?	Pump seal failed, propane/butane was released & flashed causing minor fire.
1/26/09 1:00		1/26/2009 (final)	Darrell Moore (575) 575-746-5281	Small fire just N of flare on refinery property. Area affected was N of Eagle Draw between Freeman St. & Dagle Draw.	Fire	?	N Plant flare "burped" ignited HC.
4/21/09 9:40	4/21/09 10:00	04/22/09	Darrell Moore (575) 575-746-5281	Tk. 409 in S plant.	Fire	None	While cutting manway into tk, small fire started inside tk on wall. Fire ran up wall of tk. & ignited volatiles accumul. On roof of tk.
5/21/09 5:30	5/21/09 0:00	05/21/09	Darrell Moore (575) 575-746-5281	AGO Pump in S Crude Unit.	Fire	?	AGO pump seal failure & resulting loss of product ignited. Flash ignited scaffolding above the pump.
7/22/09 7:43	7/22/09 7:59	07/22/09	Aaron Strange (575) 703-5057	Minor fire in the FCC Unit from two heat exchangers. One temp. indicator was damaged.	Fire	None	Two heat exchangers (X-515 & X-516) started to leak slurry oil from the shell side of the exchangers. Several units were down due to electrical problem causing equip. to cool down. Exchangers started to leak from ground the gaskets as the metal cooled and contracted.
11/5/09 11:52		11/05/09	Aaron Strange (575) 703-5057	Fuel gas braided hose going to second burner on H-363 in CCR Unit #70 (Continous Catalytic Reforming).	Fire	None	Outside operator in processs of lighting adj. burner when braided hose ignited. No. 2 burner was shut off extinguishing the small flame.
12/20/09 9:00	12/20/09 9:43	12/21/09	Aaron Strange (575) 703-5057	Pump seal on gas-oil pump near Tk 433 caught on fire.	Fire	None	At this time no cause has been identified & accident ivestigation being conducted.
12/22/09 20:45	12/22/09 21:03	12/23/09	Aaron Strange (575) 703-5057	Fire in CCR (Unit #70) on reactor #3 inlet flange.	Fire	None	Contractor was installing clamp on reactor flange & pumping it w/ sealant to stop a hydrogen leak when fire occurred. Hydrogen temp. ~900F auto ignited.

CA	CA Date	Comments	OCD Preliminary Observations
Pump immediately shut off. No liquids spilled ot the ground.	?	Melted electric lines around pump.	Were there any injuries? No report date & time on C-141s. Has CA been completed and when? What did CA consist of (i.e., pump or seal replaced)?
Fire extinguished immediately by personnel simply stomping on the fire. Refinery FD not mobilized. Cleanup action not required.	1/26/09 0:00		Were there any injuries? Was condensate on fire or was there an ignition source that ignited burped condensate? No report date & time on C-141.
Fire extinguished within minutes. Performing structural integrity tests on tk, but prelim. Results suggest tk. Is total loss. Hwy. 82 was closed by Artesia Police Dept. for 30 min. Operator will no longer use cutting torches to cut manways into tks. Future manways will be water cut.	4/21/09 0:00		Has Tk been replaced? Operator needs SOP documenting work practice in all future cutting activities. There have been several OSHA scenarios where this was discouraged due to explosion, Tk expansion, busted windpipes of nearby workers and loss of life. Operator should take some time to re-evaluate all safety issues where ignition sources may cause explosions and loss of life at the facility. Submit a Fire Prevention Plan which identify any other work practices where safety may be compromised with SOPS to address fire and safety issues by 6/4/2010. This should help the operator to protect workers and public health and safety due to fires and/or explosions where possible from the facility.
Immediately extinguished.	5/21/09 0:00	Only minor charring of scaffolding boards.	Were there any injuries? Was pump seal fixed? If so, when?
Some insulation on exchangers was removed and replaced. Fire put out immediately and damage was very minor.	?		When was CA completed?
A WA was written and the braided hose was changed out. The WA# was 242270.	?		No report date on C-141.When was CA completed?
Fire extinguished in a few minutes.	?	Pump has a concrete containment w/ sewer; however, nothing spilled out from pump or got on ground.	What was cause of fire? Final report wll be sent after investigation is completed. Anticipated date of receipt?
Fire extinguish in a few minutes using hand-held fire extinguishers & steam. Continued pumping sealant into the flange clamp which stopped the leak.	12/22/09 0:00	No damages from event.	

Other Gen. Comments/Questions:							
No report dates on some C-141s.							
Mostly initial C-141s w/o final C-141s ever submitted.							
There was a reoccurring fire problem at the Tk.1227 Pit Tk. Why wasn't this address after the first fire?							
OCD needs to know the date CA completed to verify adequate closure of the fire.							

CA	CA Date	Comments	OCD Preliminary Observations
Fire extinguished quickly w/ hand-held extinguisher. Bolts on blind flange habe been tightened so hydrogen leak has stopped. Leak in vicinity of 70FIC090 (which will become 13PIC090 after the work is completed).	?	No damages.	
Fire extinguished w/ dry chem., steam hoeses, then a foam blanket inside API Sump. Two spare tramp pumps are being used in place of lift pumps.	1/10/10 0:00		When will system be fixed with appropriate pumps, etc.?
Put out fire.	?		
Preparations for repairs were in progress at time of fire.	?		
Immed. Used fire monitor to cool insul. around tk. Inner coils had been turned off for repairs from 1/11 fire. T not cool enough for repairs yet.	?		
Snuffed out fire, steamed line using a flange & coupling. Performed atmos. Test to pass before issuing hot work permit.	1/14/10 0:00		Need SOP for welding near ignitable sources & or different techniques to eliminate ignition source(s) for work performed.
Spill was contained witihin unit of concrete pad w/ vac truck removal & storage in frac tk.	1/17/10 0:00	Fire extinguished within 1 hr.	
Spill was contained witihin unit of concrete pad w/ vac truck removal & storage in frac tk.	1/17/10 0:00		
Removing insulation	?		Has new insulation been installed?
Investigating cause of carryover from flare.		Fire extinguished within 2 hrs.	
Scafolding erected to remove & replace insulation.	1/20/10 20:02	Have received numerous calls related to this Tk.	
Chg. Operating procedure to emplace containment system before and during any welding activity.	1/22/10 8:40	Extinguished quickly.	

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, March 04, 2010 2:14 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: 2010-03-02 Tank 82 Fire
Attachments: 2010-03-02 Tank 82 Fire.pdf

Carl and Hope,

Please see the attached Initial C-141 Report regarding the Tank 82 fire.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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District II
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District III
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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: New Asphalt Tank T-82.	Date and Hour of Occurrence: 3/02/2010 ~12:40	Date and Hour of Discovery: 3/02/2010 ~12:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104). OCD returned the call. Called LEPC Eddy County Emergency Response (575-361-3404) spoke with Joel Arnwine. Left voicemail with SERC (505-476-9635). Notified Carl Chavez with OCD in Santa Fe and Hope Monzeglio with NMED by email.	
By Whom? Darrell Moore made the phone notifications. Aaron Strange sent the email notification to Carl Chavez (OCD) and Hope Monzeglio (NMED).	Date and Hour: 3/02/2010 at ~12:49 to OCD District Supervisor, 3/02/2010 at ~12:52 to Joel Arnwine (LEPC), and 3/02/2010 at ~12:54 to (SERC). Sent email on 3/02/2010 at ~16:03 to Carl Chavez (OCD) and Hope Monzeglio (NMED).	
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 3/02/2010 at ~ 12:40 Tank 82 which is a newly constructed asphalt tank that had hydrotest water in it caught on fire. Navajo's fire fighting team extinguished the fire after approximately 90 minutes. No outside responders were needed to control or extinguish the fire. OSHA has jurisdiction over this event and they are currently on site conducting their investigation. At no time was the general public in any danger from a release from this event as verified by the Artesia Fire Department.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the new Asphalt Tank (T-82) which is located at the East end of the plant in the Tank Farm away from other tanks. The fire was isolated to T-82 and no other equipment was damaged from the fire. No groundwater contaminants were released to the ground as a result of the tank fire. The refinery operations were not affected by the fire and the refinery continues to operate without disruption due to this event. The fire resulted in two confirmed injuries that are believed to be serious, one missing and one likely fatality that is pending confirmation by authorities.

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: 3/04/2010 Phone: 575-703-5057		

District I
1625 N. French Dr., Hobbs, NM 88240
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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: Waster Water	Volume of Release: ~10 barrels	Volume Recovered: ~8 barrels
Source of Release: Sewer at T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank.	Date and Hour of Occurrence: 2/01/10 ~ 03:10	Date and Hour of Discovery: 2/01/10 ~ 03:10
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 2/01/10 at ~ 03:10 the sewer at T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank overflowed onto the ground. Operators were skimming T-836 to the sewer and left to check other equipment. The sewer overflowed ~10 barrels of waste water from T-836. The tank had been sparged and the benzene level was zero. Operators have been instructed to stay with the valve while skimming the tank.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the South side of T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank, and across the dirt road to the East of the tank where the waste water flowed and formed a puddle the ground. Approximately 8 barrels of Waste Water was recovered with a vacuum truck. We have collected a soil sample and will be monitoring the area for signs of stained soil as the ground dries out. Navajo will dispose any contaminated soil per analytical 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: 2/16/10 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

Subject:	Navajo Refinery Fires
Location:	Telephone Call
Start:	Wed 3/3/2010 8:30 AM
End:	Wed 3/3/2010 9:00 AM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Chavez, Carl J, EMNRD
Required Attendees:	Lackey, Johnny; Moore, Darrell; Dade, Randy, EMNRD; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, March 02, 2010 3:16 PM
To: VonGonten, Glenn, EMNRD
Cc: Sanchez, Daniel J., EMNRD; Dade, Randy, EMNRD
Subject: Navajo Refining Company- Artesia Refinery (GW-028) Fire

NEWS ALERT

Refinery fire reported in Artesia

A fire at an oil refinery this afternoon in Artesia has been put out. There are reports of two injuries but nothing has been confirmed by officials. Eyewitness News 4 has a crew en route. For the latest on this breaking news, stay with KOB.com and tune to Eyewitness News 4.

Please call the phone number below and enter the code to enter the teleconference call. Thank you.

1-213-289-0500 (Los Angeles) and enter participant code: 4509670 followed by the "#" symbol to enter the conference call.

Wednesday, March 03, 2010

Start Time:	8:30 AM Mountain Std Time
End Time:	9:10 AM Mountain Std Time
Participants:	7
Type of Conference	Web-Scheduled Standard
Dial-in Number:	1-213-289-0500 (Los Angeles)
Organizer Access Code:	*693464 (you must include the leading star key)
Participant Access Code	4509670

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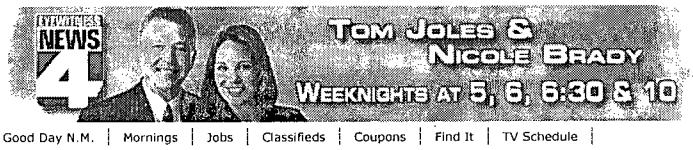

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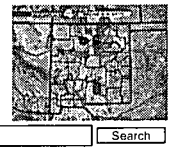

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NEWS ALERT

Refinery fire reported in Artesia

A fire at an oil refinery this afternoon in Artesia has been put out. There are reports of two injuries but nothing has been confirmed by officials. Eyewitness News 4 has a crew en route. For the latest on this breaking news, stay with KOB.com and tune to Eyewitness News 4.

Jurors hear opening statements in tip-jar slaying trial

An Albuquerque jury on Tuesday morning heard the opening statements of both sides at th opening of the trial of a 21-year-old man accused of fatally shooting a restaurant hostess and fleeing with her tip jar.

12:36 PM | 14 Comments

Voters select mayors, councils across state today

New Mexicans head to the polls Tuesday for municipal elections across the state.

- Water concerns could elect new leaders in Bernalillo

12:41 PM | 5 Comments

Man earns two DWI's in 24 hours

State police say a Cloudcroft man was arrested for a DWI twice within 24 hours.

9:00 AM | 31 Comments

Martinez poised for final game at The Pit

Roman Martinez, the only senior on a soaring New Mexico squad, plays his last game at the Pit Wednesday against TCU.

4 Comments

Up close and personal: Steve Alford

In less than three years, University of New Mexico head basketball coach Steve Alford has transformed a struggling club into a top ten team and a conference champion.

Raw video: Lee Faria interviews Steve Alford

7 Comments

House panel approves budget bill as session opens

Democratic legislative leaders have negotiated a budget package that calls for more than $200 million in tax increases.

7:18 AM | 93 Comments

Police impersonator awaits trial

According to court documents, Orlando Jaramillo got thousands of dollars worth of police equipment installed and told the shop to bill the sheriff's department.

- 'Imposter deputy' busted after pulling over undercover

8:57 AM | 12 Comments

New Mexico News

- Mad emu attacks deputies in El Paso
- BLM wants to reclaim former NM quarry
- Martinez poised for final game at The Pit
- Jurors hear opening statements in tip-jar slaying trial
- Ward has most wins of any NMSU baseball coach
- Auditor: Aztec hasn't filed audits for 3 years
- Bacteria in Clovis lake dropping
- Three lanes of Interstate 40 reopen after crash
- Up close and personal: Steve Alford

U.S. News

- Petraeus says US took needed risk in Afghanistan
- NY governor's work goes on as the pressure builds
- Woman convicted in case of stolen Antoinette watch
- UCLA students protest against intolerance
- Man in Calif. teen case got light sentence in 2000

Strange & Odd

- Calif. couple goes to court for removing lawn
- Cops: 'Distracted' drunken driver slams into home
- Driver in doghouse after walking pet while in car
- Fog from music video shoot spurs Pa. fire report
- Ohio woman gets married, has baby on same day

Business / Money - New Mexico Business & Consumer News

- Lobo-branded gear enjoys sales streak
- Garduno's files for bankruptcy

VIDEO ON DEMAND

Video: New voting system running smoothly in Rio Rancho

Video: Jurors hear opening statements in tip-jar slaying trial

Video: Tuesday morning weather forecast

Video: Municipal elections being staged statewide

Video: Lobos' Coach Alford speaks of season

Video: Water concerns could elect new leaders

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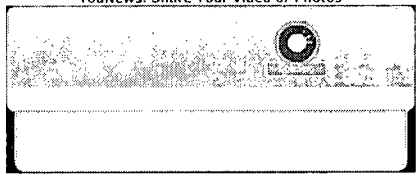

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Holly Corporation Reports Fire at Navajo Refinery

PRNewswire

Buzz up! 0 Print

Companies: Holly Corp.

Press Release Source: Holly Corporation On Monday January 18, 2010, 7:00 am EST

DALLAS, Jan. 18 /PRNewswire-FirstCall/ -- Holly Corporation (NYSE: HOC) reported today that it experienced a fire in the crude unit at its Navajo Refinery in Artesia, New Mexico. The fire was detected at approximately 3:30 AM MST on January 17, 2010, and was extinguished after approximately one hour by the refinery's fire fighting team. There were no injuries reported.

After initial investigation, the Company believes the fire was a result of a pump seal failure in the crude unit. Initial investigation also indicates that the damage to the crude unit appears to be minimal.

This unit was scheduled to be shutdown beginning later this week for approximately three weeks for a planned turnaroundâ□□primarily for completion of the refinery's crude unit reconfiguration. It is expected all necessary repairs to the unit should be made during this downtime.

Holly Corporation, headquartered in Dallas, Texas, is an independent petroleum refiner and marketer that produces high value light products such as gasoline, diesel fuel, jet fuel and other high value specialty products. Holly operates through its subsidiaries a 100,000 barrels per stream day ("bpsd") refinery located in Artesia, New Mexico, a 125,000 bpsd refinery in Tulsa, Oklahoma and a 31,000 bpsd refinery in Woods Cross, Utah. A subsidiary of Holly also owns a 34% interest (including the general partner interest) in Holly Energy Partners, L.P.

The following is a "safe harbor" statement under the Private Securities Litigation Reform Act of 1995: The statements in this press release relating to matters that are not historical facts are "forward-looking statements" within the meaning of the federal securities laws, including, but not limited to, statements identified by the words, "expect," "anticipate," "believe," "plan," "intend," "will," and "forecast," and similar expressions and statements regarding our business strategy, plans and objectives for future operations. These statements are based on our beliefs and assumptions using currently available information and expectations as of the date hereof, are not guarantees of future events or performance and involve certain risks and uncertainties. Important factors that could cause our actual results to differ materially from the expectations reflected in our forward looking statements include our ability to complete and integrate announced acquisitions, and those additional risks contained in our filings made from time to time with the Securities and Exchange Commission. Although we believe that the expectations reflected in these forward-looking statements are reasonable, we cannot assure you that our expectations will prove correct. Therefore, actual outcomes and results could materially differ from what is expressed, implied or forecast in these statements. The forward-looking statements speak only as of the date made and, other than as required by law, we undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Buzz up! 0 Send Share Print

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Symbol	Price	Change
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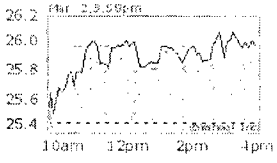

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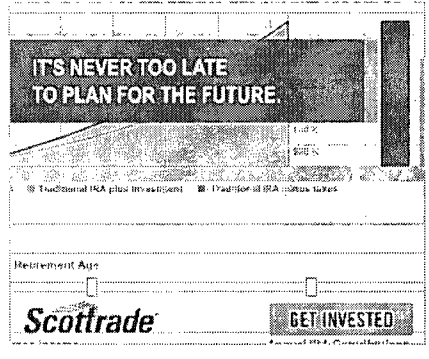

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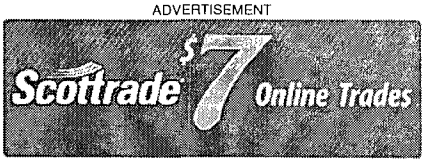

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, February 05, 2010 12:26 PM
To: 'Lackey, Johnny'; Moore, Darrell
Cc: Sanchez, Daniel J., EMNRD; Hill, Larry, EMNRD; VonGonten, Glenn, EMNRD
Subject: Navajo Refining Company- Artesia Refinery (GW-028) Fire & Safety Follow-up
Attachments: Refinery Fire and Safety Follow-up 2-5-2010.pdf

Johnny and Darrell:

Good afternoon. Please find attached a spreadsheet with recent fire reporting information from Navajo Refining Company at the above subject facility.

I am sending you the attached spreadsheet with fire information and request that Navajo Refining Company take some time to review it so we can use the spreadsheet to discuss fire and public safety issues at the refinery from recent reporting. OCD just wants to make sure we are communicating with the refinery and that we are working together to address and/or resolve any issues stemming from the recent fires.

Please contact me to schedule a meeting date and time that we can communicate and discuss fire and public safety at the refinery.

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")

Date of Occurrence	Report Date	C-141 Date	Reported by	Location	Incident	Injuries	Cause
12/6/08 6:20		12/10/2008 (final)	Darrell Moore (575) 575-746-5281	Pump P-692 in Alky Unit.	Fire	?	Pump seal failed, propane/butane was released & flashed causing minor fire.
1/26/09 1:00		1/26/2009 (final)	Darrell Moore (575) 575-746-5281	Small fire just N of flare on refinery property. Area affected was N of Eagle Draw between Freeman St. & Dagle Draw.	Fire	?	N Plant flare "burped" ignited HC.
4/21/09 9:40	4/21/09 10:00	04/22/09	Darrell Moore (575) 575-746-5281	Tk. 409 in S plant.	Fire	None	While cutting manway into tk, small fire started inside tk on wall. Fire ran up wall of tk. & ignited volatiles accumul. On roof of tk.
5/21/09 5:30	5/21/09 0:00	05/21/09	Darrell Moore (575) 575-746-5281	AGO Pump in S Crude Unit.	Fire	?	AGO pump seal failure & resulting loss of product ignited. Flash ignited scaffolding above the pump.
7/22/09 7:43	7/22/09 7:59	07/22/09	Aaron Strange (575) 703-5057	Minor fire in the FCC Unit from two heat exchangers. One temp. indicator was damaged.	Fire	None	Two heat exchangers (X-515 & X-516) started to leak slurry oil from the shell side of the exchangers. Several units were down due to electrical problem causing equip. to cool down. Exchangers started to leak from ground the gaskets as the metal cooled and contracted.
11/5/09 11:52		11/05/09	Aaron Strange (575) 703-5057	Fuel gas braided hose going to second burner on H-363 in CCR Unit #70 (Continous Catalytic Reforming).	Fire	None	Outside operator in processs of lighting adj. burner when braided hose ignited. No. 2 burner was shut off extinguishing the small flame.
12/20/09 9:00	12/20/09 9:43	12/21/09	Aaron Strange (575) 703-5057	Pump seal on gas-oil pump near Tk 433 caught on fire.	Fire	None	At this time no cause has been identified & accident ivestigation being conducted.
12/22/09 20:45	12/22/09 21:03	12/23/09	Aaron Strange (575) 703-5057	Fire in CCR (Unit #70) on reactor #3 inlet flange.	Fire	None	Contractor was installing clamp on reactor flange & pumping it w/ sealant to stop a hydrogen leak when fire occurred. Hydrogen temp. ~900F auto ignited.

Date of Occurrence	Report Date	C-141 Date	Reported by	Location	Incident	Injuries	Cause
12/31/09 9:30	12/31/09 9:59	12/31/09	Aaron Strange (575) 703-5057	Hydrogen fire in CCR (Unit #70). Fire occurred within a unit that has a concrete slab w/ sewers; however nothing spilled out or got onto the ground.	Fire	None	Saulcon Construction doing piping replacement on unit from hydrogen plant No. 2 (Unit 64) compressors to Naptha Hydrotreater (Unit 13). During grinding spark ignited hydrogen leak from loose blind flange.
1/10/10 12:05	1/10/10 12:29	01/14/10	Aaron Strange (575) 703-5057	API (oil/water separator) lift station in waste water treater unit #80.	Fire	None	Believed one of the pumps had a non-oil resistant power cord that swelled up and allowed the wires to short.
1/11/10 2:45	1/11/10 3:55	01/15/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Saturated HC insulation around tank caught fire damaging outer cover.
1/13/10 23:45	1/14/10 0:16	01/26/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Insulation caught fire under cooling condition for repairs from 1/11 fire.
1/14/10 11:00	1/14/10 14:12	01/26/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Tk already caught fire 2x before this event.
1/14/10 11:00	1/14/10 14:17	1/15/2010 (final)	Aaron Strange (575) 703-5057	Flash fire in unit 37 near D-19 fuel drum area on exchanger 359 cool water return line. No damages from fire.	Flash	None	Pipefitters were cutting on cooling water return line hwen it flashed out end of pipe. Film of hydrocarbon on insdie of pipe released vapors as pipefitters heated up pipe. Vapors ignited as torch cut thru pipe.
1/16/10 2:30	1/17/10 15:46	02/01/10	Aaron Strange (575) 703-5057	Pump seal on W-16 bottoms pump 178 (W Crude Unit Charge Pump)	Fire	None	Pump seal failed (2 in. opening) crude oil caught fire. Defective screen allowed foreign matter to pass & lodge in impeller.
1/17/10 2:30	1/17/10 3:46	02/01/10	Aaron Strange (575) 703-5057	Pump seal on W-16 bottoms pump 178 (W Crude Unit Charge Pump)	Fire	None	Pump seal failed (2 in. opening) crude oil caught fire. Defective screen allowed foreign matter to pass & lodge in impeller.
1/19/10 14:00	1/19/10 14:17		Aaron Strange (575) 703-5057	Tk 1227 Pitch Tank	Fire	None	Insulation caught fire.
1/20/10 14:54	1/20/2010 15:20:00 PM	02/04/10	Johnny Lackey (575) 746-5490	Tanks T-110 (asphalt) & T-438 (gas-oil). S Plant Flare carryover ignited fire.	Fire	?	Liquid condensate (~3 bbls) on fire fell to ground E of flare causing fire in storage tank area.
1/20/10 19:58	1/20/2010 19:02:00 PM	02/04/10	Aaron Strange (575) 703-5057	N Side of Tank 1227 (Pitch Tank)	Fire	None	Insulation saturated w/ HCs ignited.
1/22/10 8:40	1/22/10 9:15		Johnny Lackey (575) 746-5490	Refinery S. Plant (Saturates GP)	Fire (Sm.)	None	Work in pipe rack, sparks ignited leak at flange.

CA	CA Date	Comments	OCD Preliminary Observations
Pump immediately shut off. No liquids spilled ot the ground.	?	Melted electric lines around pump.	Were there any injuries? No report date & time on C-141s. Has CA been completed and when? What did CA consist of (i.e., pump or seal replaced)?
Fire extinguished immediately by personnel simply stomping on the fire. Refinery FD not mobilized. Cleanup action not required.	1/26/09 0:00		Were there any injuries? Was condensate on fire or was there an ignition source that ignited burped condensate? No report date & time on C-141.
Fire extinguished within minutes. Performing structural integrity tests on tk, but prelim. Results suggest tk. Is total loss. Hwy. 82 was closed by Artesia Police Dept. for 30 min. Operator will no longer use cutting torches to cut manways into tks. Future manways will be water cut.	4/21/09 0:00		Has Tk been replaced? Operator needs SOP documenting work practice in all future cutting activities. There have been several OSHA scenarios where this was discouraged due to explosion, Tk expansion, busted windpipes of nearby workers and loss of life. Operator should take some time to re-evaluate all safety issues where ignition sources may cause explosions and loss of life at the facility. Submit a Fire Prevention Plan which identify any other work practices where safety may be compromised with SOPS to address fire and safety issues by 6/4/2010. This should help the operator to protect workers and public health and safety due to fires and/or explosions where possible from the facility.
Immediately extinguished.	5/21/09 0:00	Only minor charring of scaffolding boards.	Were there any injuries? Was pump seal fixed? If so, when?
Some insulation on exchangers was removed and replaced. Fire put out immediately and damage was very minor.	?		When was CA completed?
A WA was written and the braided hose was changed out. The WA# was 242270.	?		No report date on C-141.When was CA completed?
Fire extinguished in a few minutes.	?	Pump has a concrete containment w/ sewer; however, nothing spilled out from pump or got on ground.	What was cause of fire? Final report wll be sent after investigation is completed. Anticipated date of receipt?
Fire extinguish in a few minutes using hand-held fire extinguishers & steam. Continued pumping sealant into the flange clamp which stopped the leak.	12/22/09 0:00	No damages from event.	

Other Gen. Comments/Questions:							
No report dates on some C-141s.							
Mostly initial C-141s w/o final C-141s ever submitted.							
There was a reoccurring fire problem at the Tk.1227 Pit Tk. Why wasn't this address after the first fire?							
OCD needs to know the date CA completed to verify adequate closure of the fire.							

CA	CA Date	Comments	OCD Preliminary Observations
Fire extinguished quickly w/ hand-held extinguisher. Bolts on blind flange habe been tightened so hydrogen leak has stopped. Leak in vicinity of 70FIC090 (which will become 13PIC090 after the work is completed).	?	No damages.	
Fire extinguished w/ dry chem., steam hoeses, then a foam blanket inside API Sump. Two spare tramp pumps are being used in place of lift pumps.	1/10/10 0:00		When will system be fixed with appropriate pumps, etc.?
Put out fire.	?		
Preparations for repairs were in progress at time of fire.	?		
Immed. Used fire monitor to cool insul. around tk. Inner coils had been turned off for repairs from 1/11 fire. T not cool enough for repairs yet.	?		
Snuffed out fire, steamed line using a flange & coupling. Performed atmos. Test to pass before issuing hot work permit.	1/14/10 0:00		Need SOP for welding near ignitable sources & or different techniques to eliminate ignition source(s) for work performed.
Spill was contained witihin unit of concrete pad w/ vac truck removal & storage in frac tk.	1/17/10 0:00	Fire extinguished within 1 hr.	
Spill was contained witihin unit of concrete pad w/ vac truck removal & storage in frac tk.	1/17/10 0:00		
Removing insulation	?		Has new insulation been installed?
Investigating cause of carryover from flare.		Fire extinguished within 2 hrs.	
Scafolding erected to remove & replace insulation.	1/20/10 20:02	Have received numerous calls related to this Tk.	
Chg. Operating procedure to emplace containment system before and during any welding activity.	1/22/10 8:40	Extinguished quickly.	

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, February 12, 2010 4:15 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-01-30 Fire CCR Flange
Attachments: 2010-01-30 Fire CCR Flange.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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: Inlet flange on D-354.	Date and Hour of Occurrence: 1/30/2010 ~ 11:00	Date and Hour of Discovery: 1/30/2010 ~11:05
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl Chavez with OCD in Santa Fe (505-476-3490), left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045), and spoke with Randy Dade from the OCD Artesia Office (575-748-1283 extension 104).	
By Whom? Darrell Moore	Date and Hour: 1/31/2010 at ~06:31 to Randy Dade (OCD Artesia Office), 1/31/2010 at ~06:33 to NMED, and1/31/2010 at ~06:37 to Carl Chavez.	
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 1/30/2010 at ~ 11:00 there was a small flange fire on the D-354 inlet flange. Operations snuffed the fire with a steam hose and applied steam ring. Operations continued to monitor. The flange had been previously clamped. The clamp was pumped and sealed to stop the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the D-354 inlet flange in the CCR (Unit 70). No damage resulted form the fire. Nothing was spilled from the event and no one was injured.

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: 2/12/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, February 16, 2010 1:54 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-02-01 Spill WWTP Sewer Overflow
Attachments: 2010-02-01 Spill WWTP Sewer Overflow.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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: Waster Water	Volume of Release: ~10 barrels	Volume Recovered: ~8 barrels
Source of Release: Sewer at T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank.	Date and Hour of Occurrence: 2/01/10 ~ 03:10	Date and Hour of Discovery: 2/01/10 ~ 03:10
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 2/01/10 at ~ 03:10 the sewer at T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank overflowed onto the ground. Operators were skimming T-836 to the sewer and left to check other equipment. The sewer overflowed ~10 barrels of waste water from T-836. The tank had been sparged and the benzene level was zero. Operators have been instructed to stay with the valve while skimming the tank.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the South side of T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank, and across the dirt road to the East of the tank where the waste water flowed and formed a puddle the ground. Approximately 8 barrels of Waste Water was recovered with a vacuum truck. We have collected a soil sample and will be monitoring the area for signs of stained soil as the ground dries out. Navajo will dispose any contaminated soil per analytical 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: 2/16/10 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, February 05, 2010 4:08 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-01-22 Fire Unit 35 W-58 Flange
Attachments: 2010-01-22 Fire Unit 35 W-58 Flange.pdf

Carl and Hope,

Please see the attached report (C-141) for the fire that happened on 01-22-2010.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: W-58 tower flange in Unit 35 (Saturates Gas Plant).	Date and Hour of Occurrence: 1/22/2010 ~ 08:40	Date and Hour of Discovery: 1/22/2010 ~08:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl Chavez with OCD in Santa Fe (505-476-3490), left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045), and spoke with Randy Dade from the OCD Artesia Office (575-748-1283 extension 104).	
By Whom? Johnny Lackey	Date and Hour: 1/22/2010 at ~09:27 to Carl Chavez, 1/22/2010 at ~09:38 to NMED, and 1/22/2010 at ~09:43 to Randy Dade (OCD Artesia Office).	
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 1/22/2010 at ~ 08:40 there was a small flange fire off of the W-58 tower. The fire was caused by sparks that fell down from welding in an overhead pipe rack. The fire was immediately extinguished with a hand held extinguisher and the flange was tightened to stop the leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the flange from the W-58 tower in Unit 35 (Saturates Gas Plant). No damage resulted form the fire. Nothing was spilled from the event and no one was injured.

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: 2/05/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, February 05, 2010 12:26 PM
To: 'Lackey, Johnny'; Moore, Darrell
Cc: Sanchez, Daniel J., EMNRD; Hill, Larry, EMNRD; VonGonten, Glenn, EMNRD
Subject: Navajo Refining Company- Artesia Refinery (GW-028) Fire & Safety Follow-up
Attachments: Refinery Fire and Safety Follow-up 2-5-2010.pdf

Johnny and Darrell:

Good afternoon. Please find attached a spreadsheet with recent fire reporting information from Navajo Refining Company at the above subject facility.

I am sending you the attached spreadsheet with fire information and request that Navajo Refining Company take some time to review it so we can use the spreadsheet to discuss fire and public safety issues at the refinery from recent reporting. OCD just wants to make sure we are communicating with the refinery and that we are working together to address and/or resolve any issues stemming from the recent fires.

Please contact me to schedule a meeting date and time that we can communicate and discuss fire and public safety at the refinery.

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")

Date of Occurrence	Report Date	C-141 Date	Reported by	Location	Incident	Injuries	Cause
12/6/08 6:20		12/10/2008 (final)	Darrell Moore (575) 575-746-5281	Pump P-692 in Alky Unit.	Fire	?	Pump seal failed, propane/butane was released & flashed causing minor fire.
1/26/09 1:00		1/26/2009 (final)	Darrell Moore (575) 575-746-5281	Small fire just N of flare on refinery property. Area affected was N of Eagle Draw between Freeman St. & Dagle Draw.	Fire	?	N Plant flare "burped" ignited HC.
4/21/09 9:40	4/21/09 10:00	04/22/09	Darrell Moore (575) 575-746-5281	Tk. 409 in S plant.	Fire	None	While cutting manway into tk, small fire started inside tk on wall. Fire ran up wall of tk. & ignited volatiles accumul. On roof of tk.
5/21/09 5:30	5/21/09 0:00	05/21/09	Darrell Moore (575) 575-746-5281	AGO Pump in S Crude Unit.	Fire	?	AGO pump seal failure & resulting loss of product ignited. Flash ignited scaffolding above the pump.
7/22/09 7:43	7/22/09 7:59	07/22/09	Aaron Strange (575) 703-5057	Minor fire in the FCC Unit from two heat exchangers. One temp. indicator was damaged.	Fire	None	Two heat exchangers (X-515 & X-516) started to leak slurry oil from the shell side of the exchangers. Several units were down due to electrical problem causing equip. to cool down. Exchangers started to leak from ground the gaskets as the metal cooled and contracted.
11/5/09 11:52		11/05/09	Aaron Strange (575) 703-5057	Fuel gas braided hose going to second burner on H-363 in CCR Unit #70 (Continous Catalytic Reforming).	Fire	None	Outside operator in processs of lighting adj. burner when braided hose ignited. No. 2 burner was shut off extinguishing the small flame.
12/20/09 9:00	12/20/09 9:43	12/21/09	Aaron Strange (575) 703-5057	Pump seal on gas-oil pump near Tk 433 caught on fire.	Fire	None	At this time no cause has been identified & accident ivestigation being conducted.
12/22/09 20:45	12/22/09 21:03	12/23/09	Aaron Strange (575) 703-5057	Fire in CCR (Unit #70) on reactor #3 inlet flange.	Fire	None	Contractor was installing clamp on reactor flange & pumping it w/ sealant to stop a hydrogen leak when fire occurred. Hydrogen temp. ~900F auto ignited.

Date of Occurrence	Report Date	C-141 Date	Reported by	Location	Incident	Injuries	Cause
12/31/09 9:30	12/31/09 9:59	12/31/09	Aaron Strange (575) 703-5057	Hydrogen fire in CCR (Unit #70). Fire occurred within a unit that has a concrete slab w/ sewers; however nothing spilled out or got onto the ground.	Fire	None	Saulcon Construction doing piping replacement on unit from hydrogen plant No. 2 (Unit 64) compressors to Naptha Hydrotreater (Unit 13). During grinding spark ignited hydrogen leak from loose blind flange.
1/10/10 12:05	1/10/10 12:29	01/14/10	Aaron Strange (575) 703-5057	API (oil/water separator) lift station in waste water treater unit #80.	Fire	None	Believed one of the pumps had a non-oil resistant power cord that swelled up and allowed the wires to short.
1/11/10 2:45	1/11/10 3:55	01/15/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Saturated HC insulation around tank caught fire damaging outer cover.
1/13/10 23:45	1/14/10 0:16	01/26/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Insulation caught fire under cooling condition for repairs from 1/11 fire.
1/14/10 11:00	1/14/10 14:12	01/26/10	Aaron Strange (575) 703-5057	N side of Tk 1227 Pitch Tank	Fire	None	Tk already caught fire 2x before this event.
1/14/10 11:00	1/14/10 14:17	1/15/2010 (final)	Aaron Strange (575) 703-5057	Flash fire in unit 37 near D-19 fuel drum area on exchanger 359 cool water return line. No damages from fire.	Flash	None	Pipefitters were cutting on cooling water return line hwen it flashed out end of pipe. Film of hydrocarbon on insdie of pipe released vapors as pipefitters heated up pipe. Vapors ignited as torch cut thru pipe.
1/16/10 2:30	1/17/10 15:46	02/01/10	Aaron Strange (575) 703-5057	Pump seal on W-16 bottoms pump 178 (W Crude Unit Charge Pump)	Fire	None	Pump seal failed (2 in. opening) crude oil caught fire. Defective screen allowed foreign matter to pass & lodge in impeller.
1/17/10 2:30	1/17/10 3:46	02/01/10	Aaron Strange (575) 703-5057	Pump seal on W-16 bottoms pump 178 (W Crude Unit Charge Pump)	Fire	None	Pump seal failed (2 in. opening) crude oil caught fire. Defective screen allowed foreign matter to pass & lodge in impeller.
1/19/10 14:00	1/19/10 14:17		Aaron Strange (575) 703-5057	Tk 1227 Pitch Tank	Fire	None	Insulation caught fire.
1/20/10 14:54	1/20/2010 15:20:00 PM	02/04/10	Johnny Lackey (575) 746-5490	Tanks T-110 (asphalt) & T-438 (gas-oil). S Plant Flare carryover ignited fire.	Fire	?	Liquid condensate (~3 bbls) on fire fell to ground E of flare causing fire in storage tank area.
1/20/10 19:58	1/20/2010 19:02:00 PM	02/04/10	Aaron Strange (575) 703-5057	N Side of Tank 1227 (Pitch Tank)	Fire	None	Insulation saturated w/ HCs ignited.
1/22/10 8:40	1/22/10 9:15		Johnny Lackey (575) 746-5490	Refinery S. Plant (Saturates GP)	Fire (Sm.)	None	Work in pipe rack, sparks ignited leak at flange.

CA	CA Date	Comments	OCD Preliminary Observations
Pump immediately shut off. No liquids spilled ot the ground.	?	Melted electric lines around pump.	Were there any injuries? No report date & time on C-141s. Has CA been completed and when? What did CA consist of (i.e., pump or seal replaced)?
Fire extinguished immediately by personnel simply stomping on the fire. Refinery FD not mobilized. Cleanup action not required.	1/26/09 0:00		Were there any injuries? Was condensate on fire or was there an ignition source that ignited burped condensate? No report date & time on C-141.
Fire extinguished within minutes. Performing structural integrity tests on tk, but prelim. Results suggest tk. Is total loss. Hwy. 82 was closed by Artesia Police Dept. for 30 min. Operator will no longer use cutting torches to cut manways into tks. Future manways will be water cut.	4/21/09 0:00		Has Tk been replaced? Operator needs SOP documenting work practice in all future cutting activities. There have been several OSHA scenarios where this was discouraged due to explosion, Tk expansion, busted windpipes of nearby workers and loss of life. Operator should take some time to re-evaluate all safety issues where ignition sources may cause explosions and loss of life at the facility. Submit a Fire Prevention Plan which identify any other work practices where safety may be compromised with SOPS to address fire and safety issues by 6/4/2010. This should help the operator to protect workers and public health and safety due to fires and/or explosions where possible from the facility.
Immediately extinguished.	5/21/09 0:00	Only minor charring of scaffolding boards.	Were there any injuries? Was pump seal fixed? If so, when?
Some insulation on exchangers was removed and replaced. Fire put out immediately and damage was very minor.	?		When was CA completed?
A WA was written and the braided hose was changed out. The WA# was 242270.	?		No report date on C-141.When was CA completed?
Fire extinguished in a few minutes.	?	Pump has a concrete containment w/ sewer; however, nothing spilled out from pump or got on ground.	What was cause of fire? Final report wll be sent after investigation is completed. Anticipated date of receipt?
Fire extinguish in a few minutes using hand-held fire extinguishers & steam. Continued pumping sealant into the flange clamp which stopped the leak.	12/22/09 0:00	No damages from event.	

Other Gen. Comments/Questions:							
No report dates on some C-141s.							
Mostly initial C-141s w/o final C-141s ever submitted.							
There was a reoccurring fire problem at the Tk.1227 Pit Tk. Why wasn't this address after the first *fire*?							
OCD needs to know the date CA completed to verify adequate closure of the fire.							

CA	CA Date	Comments	OCD Preliminary Observations
Fire extinguished quickly w/ hand-held extinguisher. Bolts on blind flange habe been tightened so hydrogen leak has stopped. Leak in vicinity of 70FIC090 (which will become 13PIC090 after the work is completed).	?	No damages.	
Fire extinguished w/ dry chem., steam hoeses, then a foam blanket inside API Sump. Two spare tramp pumps are being used in place of lift pumps.	1/10/10 0:00		When will system be fixed with appropriate pumps, etc.?
Put out fire.	?		
Preparations for repairs were in progress at time of fire.	?		
Immed. Used fire monitor to cool insul. around tk. Inner coils had been turned off for repairs from 1/11 fire. T not cool enough for repairs yet.	?		
Snuffed out fire, steamed line using a flange & coupling. Performed atmos. Test to pass before issuing hot work permit.	1/14/10 0:00		Need SOP for welding near ignitable sources & or different techniques to eliminate ignition source(s) for work performed.
Spill was contained witihin unit of concrete pad w/ vac truck removal & storage in frac tk.	1/17/10 0:00	Fire extinguished within 1 hr.	
Spill was contained witihin unit of concrete pad w/ vac truck removal & storage in frac tk.	1/17/10 0:00		
Removing insulation	?		Has new insulation been installed?
Investigating cause of carryover from flare.		Fire extinguished within 2 hrs.	
Scafolding erected to remove & replace insulation.	1/20/10 20:02	Have received numerous calls related to this Tk.	
Chg. Operating procedure to emplace containment system before and during any welding activity.	1/22/10 8:40	Extinguished quickly.	

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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: Tanks T-110 and 438 (started by "carry over" from the South Plant Flare).	Date and Hour of Occurrence: 1/20/2010 ~ 14:54	Date and Hour of Discovery: 1/20/2010 ~14:54
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490). Also reported to LEPC Eddy County Emergency Response (575-361-3404) spoke with Joel Arnwine and SERC (505-476-9635) spoke with Yvonne.	
By Whom? Johnny Lackey	Date and Hour: 1/20/2010 at ~15:25 to OCD District Supervisor, 1/20/2010 at ~15:20 to Carl Chavez, 1/20/2010 at ~15:30 to Joel Arnwine (LEPC), and 1/20/2010 at ~15:35 to Yvonne (SERC).	
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 1/20/2010 at ~ 14:54 there was a fire on Tanks T-110 and T-438. The South Plant Flare carried over which started the fire. Navajo is investigating what caused the flare to carry over. Navajo's fire fighting team extinguished the fire after approximately two hours.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the two tanks (T-438 and T-110) directly east of the South Plant Flare. T-110 was in asphalt service and T-438 was in gas oil service at the time of the fire. The damage to the tanks is being assessed. The South Plant Flare did spill ~3bbls of fluid out onto the ground. A vacuum truck removed the liquid and the contaminated soil was placed into a bin. The bin of contaminated soil will be disposed of per analytical results. Nothing spilled out of the tanks that caught on fire. No one was injured from the event.

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: 2/04/2010 Phone: 575-703-5057		

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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/20/2010 ~ 19:58	Date and Hour of Discovery: 1/20/2010 ~19:58
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/20/2010 at ~19:59 to OCD District Supervisor, and 1/20/2010 at ~19:02 to Carl Chavez	
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 1/20/2010 at ~ 19:58 there was a fourth fire on the T-1227 Pitch Tank. The third fire reported did not have visual flames, only smoke. Some of the insulation on the tank had been saturated with hydrocarbons which ignited. The tank had already caught on fire three times before this event. The fire was extinguished with a nearby fire monitor. The pitch in this tank is normally heated to ~ 500°F, but has had the inner heating coils turned off to lower the temperature for repairs from the first fire on 1/11/2010. The day before this fire occurred (1/19/2010), scaffolding was being constructed to start the removal of the saturated insulation and installing new insulation along with a new outer tin covering over the affected area of the tank.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The insulation and the outer tin covering on the tank were already damaged from the previous fires. Nothing leaked or spilled out onto the ground. No one was injured from the event.

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: 2/04/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: Exchanger 359 cooling water return line in unit 37.	Date and Hour of Occurrence: 1/14/10 ~ 11:00	Date and Hour of Discovery: 1/14/10 ~ 11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/14/2010 at ~14:19 to the OCD District Supervisor, and 1/14/2010 at ~14:17 to Carl Chavez	
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 1/14/2010 at ~ 11:00 there was a flash fire in unit 37. Pipefitters were cutting on a cooling water return line when it flashed out the end of the pipe. The Pipefitters snuffed out the fire then steamed out the line using a flange and coupling. Safety performed an atmospheric test that passed before issuing the hot work permit. It is believed that a film of hydrocarbon on the inside of the pipe released vapors as the pipefitters heated up the pipe. The vapors then ignited as the torch cut thru the pipe.

Describe Area Affected and Cleanup Action Taken.*
The area affected was in unit 37 near the D-19 fuel drum area on the exchanger 359 cooling water return line. There were no damages from the fire. Pipefitters extinguished the fire. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/15/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/13/10 ~ 23:45	Date and Hour of Discovery: 1/13/10 ~23:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/14/2010 at ~24:12 to OCD District Supervisor, and 1/14/2010 at ~24:16 to Carl Chavez	
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 1/13/2010 at ~ 23:45 there was another fire on the T-1227 Pitch Tank. Some of the insulation on the tank had been saturated with hydrocarbons and ignited. The pitch in this tank is normally heated to ~ 500°F, but has had the inner heating coils turned off to lower the temperature for repairs from the previous fire on 1/11/2010. The temperature of the tank had not yet cooled off enough for repairs. The outside of the tank auto ignited, further burning the insulation and the outer tin covering. The fire was extinguished with a nearby fire monitor.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The insulation and the outer tin covering on the tank were already damaged from the previous fire. Navajo employees extinguished the fire. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/26/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/14/10 ~ 11:00	Date and Hour of Discovery: 1/14/10 ~11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/14/2010 at ~14:19 to OCD District Supervisor, and 1/14/2010 at ~14:12 to Carl Chavez	
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 1/14/2010 at ~ 11:00 the T-1227 Pitch Tank began to smoke from the insulation covering the north side of the tank. Some of the insulation on the tank had been saturated with hydrocarbons which started to smoke. The tank had already caught on fire two times before this event. Operators immediately used a fire monitor to cool down the insulation and prevented the insulation form flaring up. The pitch in this tank is normally heated to ~ 500°F, but has had the inner heating coils turned off to lower the temperature for repairs from the first fire on 1/11/2010. The temperature of the tank had not yet cooled off enough for repairs.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The insulation and the outer tin covering on the tank were already damaged from the previous two fires. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/26/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/11/10 ~ 02:45	Date and Hour of Discovery: 1/11/10 ~ 02:45
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? Aaron Strange	Date and Hour: 1/11/2010 at ~03:55	
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 1/11/2010 at ~ 02:45 there was a fire on the T-1227 Pitch Tank. This pitch in this tank is normally heated to ~ 500°F. Some of the insulation on the tank had been saturated with hydrocarbons. The outside of the tank auto ignited burning the insulation and damaging the outer tin covering. The fire was extinguished with a nearby fire monitor. The inner heating coils have been turned off to lower the temperature for repairs.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The fire damaged insulation and the outer tin covering on the tank. Navajo employees extinguished the fire. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/15/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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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: API (Oil Water Separator) lift station at north end of API.	Date and Hour of Occurrence: 1/10/10 ~ 12:05	Date and Hour of Discovery: 1/10/10 ~ 12:05
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? Aaron Strange	Date and Hour: 1/10/2010 at ~12:29	
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 1/10/2010 at ~ 12:05 there was a fire at the API (Oil Water Separator) lift station in the WWT (Waste Water Treater Unit # 80). The fire was extinguished with dry chemical and steam hoses then a foam blanket was placed inside the API Sump. All Electrical boxes and pumps were shut off after the fire because of unknown damages. The fire damaged electrical wiring, the platform, and possibly the pumps. Two spare tramp pumps are being used in place of the lift pumps. No one was injured from the event. No waste spilled out or got onto the ground. It is believed that one of the pumps had a non oil resistant power cord that swelled up and allowed the wires to short.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a fire at the API (Oil Water Separator) lift station in the WWT (Waste Water Treater Unit # 80). The fire was extinguished by Navajo Employees.

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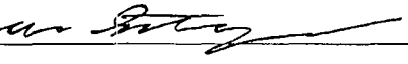
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 1/14/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

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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.

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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

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Release Notification and Corrective Action

OPERATOR

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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

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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 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

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1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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Energy Minerals and Natural Resources

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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: ~ 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

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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

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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
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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

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1301 W. Grand Avenue, Artesia, NM 88210
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Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Navajo Refining Company LLC	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 Butane/Propane	Volume of Release Unknown	Volume Recovered None
Source of Release Depropanizer pump in Alky Unit	Date and Hour of Occurrence Dec 6, 2008 6:20 pm	Date and Hour of Discovery Dec 6, 2008 6:20 pm
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.*
A pump seal failed on Pump P 692 in the Alky Unit. When the seal failed, propane/butane were released and flashed causing a minor fire. The pump was immediately shut down. Since the released components were butane and propane, there were no remedial actions to take.

Describe Area Affected and Cleanup Action Taken.*
The area affected was around Pump P-692 and consisted of some melted electric lines.

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@navajo-refining.com	Conditions of Approval:	Attached ☐
Date: December 10, 2008 Phone:575-746-5281		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Tuesday, January 19, 2010 3:42 PM
To: Strange, Aaron
Cc: Cobrain, Dave, NMENV; Moore, Darrell; Lackey, Johnny; Chavez, Carl J, EMNRD
Subject: January releases/fires

Aaron

I just want to clarify some information about the various fires and spill at the refinery over the past week. I have received through e-mail four C-141 forms pertaining to three fires and one spill. I also received a voice message from you pertaining to another fire at pump 178 west of the crude unit. You have not submitted the C-141 form yet for the fire at pump 178, correct?

As I have mentioned before, please refer to the Post-Closure Care Permit (Permit) for the oral and written reporting requirements found in Section 1.5.13 (Twenty-four Hour Reporting); the Permit can be found using the following link: http://www.nmenv.state.nm.us/hwb/nrc/Final_NRC_PCC_Permit.pdf.

The C-141 forms need to be more detailed or additional information must be included in the email to NMED to provide more details for the release (e.g., include a figure, if appropriate, to show the location of the release and the areas covered by the release/spill, explain how was the spill contained and cleaned up, identify how much soil was removed if any, and where is the soil is being stored, indicate if the 90-day storage requirements apply, explain how Navajo determined the volume of the release and how much was recovered etc).

I have the following comments relating to these spills:

C-141 form - 1-10-10 Fire at the API lift station. Was there any disruption to the API separator? Prior to the fire, were there any fluids in the API Sump that the dry chemicals and foam blanket would have mixed with? Please provide me a figure showing the location of the Waste Water Treater Unit #80.

C-141 form 1-10-10 T-863 ABT - please demonstrate to NMED that the wastewater that overflowed was not hazardous and had completed treatment; did treatment meet the required retention time? The C-141 states that the "Tank had been sparged and the benzene level was zero;" please explain what you mean by the statement the benzene level was zero and how was this determined? Provide a figure that shows the area that the release covered. Explain how Navajo determined the volume of the release and the amount recovered. Please keep NMED informed of any sampling and analytical testing that may result.

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Monday, December 21, 2009 8:25 AM
To: Strange, Aaron; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo

Aaron

Please clarify the cause of the release, the C-141 form and Darrell's email on 12/18/09 indicate the Shift Foreman thought the problem was associated with the diesel coalescer; was this the case or was it something else? How much soil was removed and put in the roll-off bin and were any soil confirmation samples collected from within the tank berm?

Thanks
Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 5:02 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: RE: Navajo

Hope and Carl,

In response to the letter below, I have attached the Bottom Hole sample results. So fare we have shipped 49,000 pound of contaminated soil (F037) as hazardous waste to RINCO. However, there is still some more soil per the Bottom Hole samples that must be removed. More Bottom Hole samples will be taken and submitted to you along with the amount of the other soil that we ship out.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

Regardless of how the contaminated soil is disposed, the Permittee must collect a representative number of discrete confirmation samples from the locations where the contaminated soil was removed. The discrete confirmation soil samples must be analyzed for GRO, diesel range organics (DRO), and RCRA metals. If GRO is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Monday, December 21, 2009 9:47 AM
To: Strange, Aaron; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo

Aaron

I assume the bottom hole samples means the confirmation sample? Also include a figure showing the locations of the bottom hole samples.

Thanks
Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 5:02 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: RE: Navajo

Hope and Carl,

In response to the letter below, I have attached the Bottom Hole sample results. So fare we have shipped 49,000 pound of contaminated soil (F037) as hazardous waste to RINCO. However, there is still some more soil per the Bottom Hole samples that must be removed. More Bottom Hole samples will be taken and submitted to you along with the amount of the other soil that we ship out.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

Regardless of how the contaminated soil is disposed, the Permittee must collect a representative number of discrete confirmation samples from the locations where the contaminated soil was removed. The discrete confirmation soil samples must be analyzed for GRO, diesel range organics (DRO), and RCRA metals. If GRO is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, February 01, 2010 5:09 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-01-17 Crude Unit Fire
Attachments: 2010-01-17 Crude Unit Fire.pdf; P-179 Crude Unit fire Photoes.doc

Carl and Hope,

Please see the attached initial reports (C-141's) for the P-178 Crude Unit fire. I have also attached two photos.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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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 W-16 bottoms pump P-178.	Date and Hour of Occurrence: 1/17/10 ~ 02:30	Date and Hour of Discovery: 1/17/10 ~ 02:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/17/2010 at ~03:43 to the OCD District Supervisor, and 1/17/2010 at ~03:46 to Carl Chavez	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

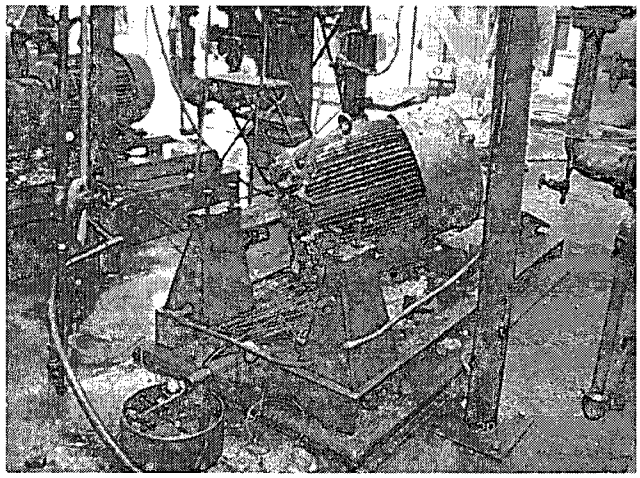
Describe Cause of Problem and Remedial Action Taken.*
On 1/17/2010 at ~ 02:30 there was a fire at the W-16 bottoms pump P-178 in the Crude Unit. The pump seal failed (two inch opening) which allowed crude oil to spill out and catch on fire. Operations stopped the flow going to W-16. The fire was extinguished after approximately one hour by the refinery's fire fighting team. The investigation team has found a defective screen that would enable foreign matter to pass through the screen, and a third party analysis on the pump believes that foreign material could have lodged in the impeller.

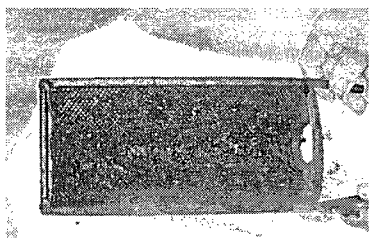
Describe Area Affected and Cleanup Action Taken.*
The area affected was the Crude Unit at the W-16 bottoms pump P-178. The pump and overhead electrical wiring were damaged in the fire. Crude oil spilled out and onto the concrete pad which was then covered with water and foam from fighting the fire. The spill was contained within the unit on the concrete pad. A vacuum truck removed oil and water form the pad and placed it into a FRAC tank. The cleanup crew scooped up crude oil and placed it into hard top bins. Navajo is testing the spilled material for appropriate disposal. No one was injured form the event.

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: 2/1/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary





2010 1 30

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, January 26, 2010 7:08 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: T-1227 C-141
Attachments: 2010-01-13 T-1227 fire.pdf; 2010-01-14 T-1227 fire.pdf

Carl and Hope,

Please see the two attached initial reports (C-141's) for the T-1227 fires.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Santa Fe, NM 87505

Form C-141
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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/13/10 ~ 23:45	Date and Hour of Discovery: 1/13/10 ~23:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/14/2010 at ~24:12 to OCD District Supervisor, and 1/14/2010 at ~24:16 to Carl Chavez	
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 1/13/2010 at ~ 23:45 there was another fire on the T-1227 Pitch Tank. Some of the insulation on the tank had been saturated with hydrocarbons and ignited. The pitch in this tank is normally heated to ~ 500°F, but has had the inner heating coils turned off to lower the temperature for repairs from the previous fire on 1/11/2010. The temperature of the tank had not yet cooled off enough for repairs. The outside of the tank auto ignited, further burning the insulation and the outer tin covering. The fire was extinguished with a nearby fire monitor.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The insulation and the outer tin covering on the tank were already damaged from the previous fire. Navajo employees extinguished the fire. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/26/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

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Form C-141
Revised October 10, 2003

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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/14/10 ~ 11:00	Date and Hour of Discovery: 1/14/10 ~11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/14/2010 at ~14:19 to OCD District Supervisor, and 1/14/2010 at ~14:12 to Carl Chavez	
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 1/14/2010 at ~ 11:00 the T-1227 Pitch Tank began to smoke from the insulation covering the north side of the tank. Some of the insulation on the tank had been saturated with hydrocarbons which started to smoke. The tank had already caught on fire two times before this event. Operators immediately used a fire monitor to cool down the insulation and prevented the insulation form flaring up. The pitch in this tank is normally heated to ~ 500°F, but has had the inner heating coils turned off to lower the temperature for repairs from the first fire on 1/11/2010. The temperature of the tank had not yet cooled off enough for repairs.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The insulation and the outer tin covering on the tank were already damaged from the previous two fires. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/26/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, January 15, 2010 3:23 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-01-14 Unit 37 Fire
Attachments: 2010-1-14 Unit 37 Fire.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Revised October 10, 2003

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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: Exchanger 359 cooling water return line in unit 37.	Date and Hour of Occurrence: 1/14/10 ~ 11:00	Date and Hour of Discovery: 1/14/10 ~ 11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104) and Carl Chavez with OCD in Santa Fe (505-476-3490).	
By Whom? Aaron Strange	Date and Hour: 1/14/2010 at ~14:19 to the OCD District Supervisor, and 1/14/2010 at ~14:17 to Carl Chavez	
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 1/14/2010 at ~ 11:00 there was a flash fire in unit 37. Pipefitters were cutting on a cooling water return line when it flashed out the end of the pipe. The Pipefitters snuffed out the fire then steamed out the line using a flange and coupling. Safety performed an atmospheric test that passed before issuing the hot work permit. It is believed that a film of hydrocarbon on the inside of the pipe released vapors as the pipefitters heated up the pipe. The vapors then ignited as the torch cut thru the pipe.

Describe Area Affected and Cleanup Action Taken.*
The area affected was in unit 37 near the D-19 fuel drum area on the exchanger 359 cooling water return line. There were no damages from the fire. Pipefitters extinguished the fire. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/15/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, January 15, 2010 12:43 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-1-11 T-1227 fire
Attachments: 2010-1-11 T-1227 fire.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: T-1227 Pitch Tank.	Date and Hour of Occurrence: 1/11/10 ~ 02:45	Date and Hour of Discovery: 1/11/10 ~ 02:45
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? Aaron Strange	Date and Hour: 1/11/2010 at ~03:55	
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 1/11/2010 at ~ 02:45 there was a fire on the T-1227 Pitch Tank. This pitch in this tank is normally heated to ~ 500°F. Some of the insulation on the tank had been saturated with hydrocarbons. The outside of the tank auto ignited burning the insulation and damaging the outer tin covering. The fire was extinguished with a nearby fire monitor. The inner heating coils have been turned off to lower the temperature for repairs.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-1227. The fire damaged insulation and the outer tin covering on the tank. Navajo employees extinguished the fire. Nothing leaked or spilled out onto the ground. Now one was injured form the event.

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: 1/15/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, January 15, 2010 9:22 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-01-10 Spill T-836
Attachments: 2010-01-10 Spill T-836.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: Waster Water	Volume of Release: ~1300 to 1400 barrels	Volume Recovered: ~ 1360 barrels mixed with snow melt/rain water
Source of Release: T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank.	Date and Hour of Occurrence: 1/10/10 ~ 06:35	Date and Hour of Discovery: 1/10/10 ~ 06:35
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104). Randy Dade returned the call at ~07:06.	
By Whom? Aaron Strange	Date and Hour: 1/10/10 ~ 07:01	
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 1/10/10 at ~ 06:35 the T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank overflowed onto the ground. The level indicator froze giving operation a false reading. Approximately 1360 barrels of Waste Water mixed with snow melt/rain water was recovered with vacuum trucks. The tank had been sparged and the benzene level was zero.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the north side of T-836 ABT (Aggressive Bio-Treatment) Waste Water Tank, where waste water overflowed onto the ground. The ground was already wet and covered with puddles of snow melt/rain water. Approximately 1360 barrels of Waste Water mixed with snow melt/rain water was recovered with vacuum trucks. We will be monitoring the area for signs of stained soil as the ground dries out and will collect soil samples. Navajo will dispose any contaminated soil per analytical 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: 1/15/10 Phone: 575-703-5057		

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, January 14, 2010 4:07 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2010-1-10 API lift station fire
Attachments: 2010-1-10 API lift station fire.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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: API (Oil Water Separator) lift station at north end of API.	Date and Hour of Occurrence: 1/10/10 ~ 12:05	Date and Hour of Discovery: 1/10/10 ~ 12:05
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? Aaron Strange	Date and Hour: 1/10/2010 at ~12:29	
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 1/10/2010 at ~ 12:05 there was a fire at the API (Oil Water Separator) lift station in the WWT (Waste Water Treater Unit # 80). The fire was extinguished with dry chemical and steam hoses then a foam blanket was placed inside the API Sump. All Electrical boxes and pumps were shut off after the fire because of unknown damages. The fire damaged electrical wiring, the platform, and possibly the pumps. Two spare tramp pumps are being used in place of the lift pumps. No one was injured from the event. No waste spilled out or got onto the ground. It is believed that one of the pumps had a non oil resistant power cord that swelled up and allowed the wires to short.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a fire at the API (Oil Water Separator) lift station in the WWT (Waste Water Treater Unit # 80). The fire was extinguished by Navajo Employees.

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

Signature	OIL CONSERVATION DIVISION	
Printed Name: 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: 1/14/2010 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, January 21, 2010 12:51 PM
To: 'Strange, Aaron'
Subject: RE: South Plant Cooling Tower Sludge

Aaron:

Back in the office today. Just wanted to quickly drop you a line to commend you on the fire reporting. Navajo Refining Company (NRC) needs to continue the C-141 process on these fires and has done a good job so far on reporting. Seems like NRC is working to take corrective actions to address the situation and OCD will be looking over the C-141's in the near future to follow-up with NRC to make sure corrective actions are eliminating the cause(s) of the fire(s). Stay tuned.....

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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Monday, January 18, 2010 11:40 AM
To: Kim Flowers; Chavez, Carl J, EMNRD
Subject: South Plant Cooling Tower Sludge

Kim,

Please see the attachment requesting the approval South Plant (Crude Unit) Cooling Tower Sludge from the Artesia Plant.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, January 08, 2010 6:54 AM
To: 'Strange, Aaron'; Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: RE: 2009-12-23 Diesel spill

Aaron:

Good morning. I notice in the submitted C-141 under "Cleanup Action Taken" Navajo states, "The reason for the flange gasket failure is unknown." I trust you are looking into this for the final report right? Thanks.

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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Thursday, January 07, 2010 1:21 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: 2009-12-23 Diesel spill

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, January 07, 2010 1:21 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell; Lackey, Johnny
Subject: 2009-12-23 Diesel spill
Attachments: 2009-12-23 Diesel spill.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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		

NATIONAL RESPONSE CENTER 1-800-424-8802
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Incident Report # 927024

INCIDENT DESCRIPTION

*Report taken at 00:22 on 24-DEC-09
Incident Type: FIXED
Incident Cause: EQUIPMENT FAILURE
Affected Area:
The incident occurred on 23-DEC-09 at 22:00 local time.
Affected Medium: LAND /GRAVEL BASE

SUSPECTED RESPONSIBLE PARTY

Organization: HOLLY ENERGY PARTNERS
ARTESIA, NM 88210

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

501 EAST MAIN ST. County: EDDY
City: ARTESIA State: NM Zip: 88210

RELEASED MATERIAL(S)

CHRIS Code: ODS Official Material Name: OIL: DIESEL
Also Known As:
Qty Released: 3 BARREL(S)

DESCRIPTION OF INCIDENT

CALLER IS REPORTING THAT 3 BARRELS OF DIESEL IS DISCHARGING FROM 12 INCH PIPELINE AT THE MANIFOLD IN THE REFINERY DUE TO EQUIPMENT FAILURE. THERE IS NO OFF SITE IMPACT INVOLVED.

INCIDENT DETAILS

Package: N/A
Building ID:
Type of Fixed Object: REFINERY
Power Generating Facility: UNKNOWN
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved:	NO	Fire Extinguished: UNKNOWN		
INJURIES:	NO	Hospitalized:	Empl/Crew:	Passenger:
FATALITIES:	NO	Empl/Crew:	Passenger:	Occupant:
EVACUATIONS:	NO	Who Evacuated:	Radius/Area:	
Damages:	NO			

Closure Type	Description of Closure	Length of Closure	Direction of Closure
Air: N			
Road: N			Major Artery:
Waterway: N			
Track: N			

Passengers Transferred: NO
Environmental Impact: NO
Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

LINE HAS BEEN SHUT DOWN, VAC TRUCK IS ENROUTE.
Release Secured: YES
Release Rate:
Estimated Release Duration:

WEATHER

Weather: RAINY, 34°F

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE
State/Local: NONE
State/Local On Scene: NONE
State Agency Number: NO REPORT #

NOTIFICATIONS BY NRC

COLORADO INFO ANALYSIS CENTER (FUSION CENTER)
24-DEC-09 00:30
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
24-DEC-09 00:30
U.S. EPA VI (MAIN OFFICE)
24-DEC-09 00:32
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
24-DEC-09 00:30
NOAA RPTS FOR NM (MAIN OFFICE)
24-DEC-09 00:30
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
24-DEC-09 00:30
NM HWB (MAIN OFFICE)
24-DEC-09 00:30
TCEQ (MAIN OFFICE)
24-DEC-09 00:30

ADDITIONAL INFORMATION

CALLER HAD NO ADDITIONAL INFORMATION.

*** END INCIDENT REPORT # 927024 ***

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, January 04, 2010 7:31 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Cobrain, Dave, NMENV; Moore, Darrell; Lackey, Johnny
Subject: RE: 2009-12-31 CCR H2 fire during maintanance work
Attachments: 2009-12-31 CCR H2 fire .pdf

Hope,

I did send the wrong C-141. Attached is the correct C-141.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, December 31, 2009 12:10 PM
To: Strange, Aaron
Cc: Cobrain, Dave, NMENV; Moore, Darrell; Lackey, Johnny
Subject: RE: 2009-12-31 CCR H2 fire during maintanance work

Aaron

Is this from today (per the subject line)? The form seems to be the same as the one sent on 12/23/09? Also refer to Section 1.5.13 (Twenty-four Hour Reporting) of NMED's Post Closure Care Permit; NMED should be notified within 24 hours of a fire.

Thanks
Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Thursday, December 31, 2009 11:55 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Subject: 2009-12-31 CCR H2 fire during maintanance work

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Energy Minerals and Natural Resources

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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

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, December 31, 2009 11:55 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Subject: 2009-12-31 CCR H2 fire during maintanance work
Attachments: 2009-12-22 CCR H2 Fire.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Revised October 10, 2003

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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

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, December 23, 2009 11:49 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2009-12-22 CCR H2 fire during maintance work
Attachments: 2009-12-22 CCR H2 Fire.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, December 21, 2009 4:22 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: 2009-12-20 pump seal fire
Attachments: 2009-20 pump seal fire.pdf

Carl and Hope,

Please see the attached C-141. I will send a final report after the incident investigation has been completed and a cause has been identified.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, December 21, 2009 2:28 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo
Attachments: BH for SBP Spill.pdf

Hope,

Yes, the bottom hole samples are the confirmation samples. Attached is a map showing the locations of the bottom hole samples.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, December 21, 2009 9:47 AM
To: Strange, Aaron; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo

Aaron

I assume the bottom hole samples means the confirmation sample? Also include a figure showing the locations of the bottom hole samples.

Thanks
Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 5:02 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: RE: Navajo

Hope and Carl,

In response to the letter below, I have attached the Bottom Hole sample results. So fare we have shipped 49,000 pound of contaminated soil (F037) as hazardous waste to RINCO. However, there is still some more soil per the Bottom Hole samples that must be removed. More Bottom Hole samples will be taken and submitted to you along with the amount of the other soil that we ship out.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

Regardless of how the contaminated soil is disposed, the Permittee must collect a representative number of discrete confirmation samples from the locations where the contaminated soil was removed. The discrete confirmation soil samples must be analyzed for GRO, diesel range organics (DRO), and RCRA metals. If GRO is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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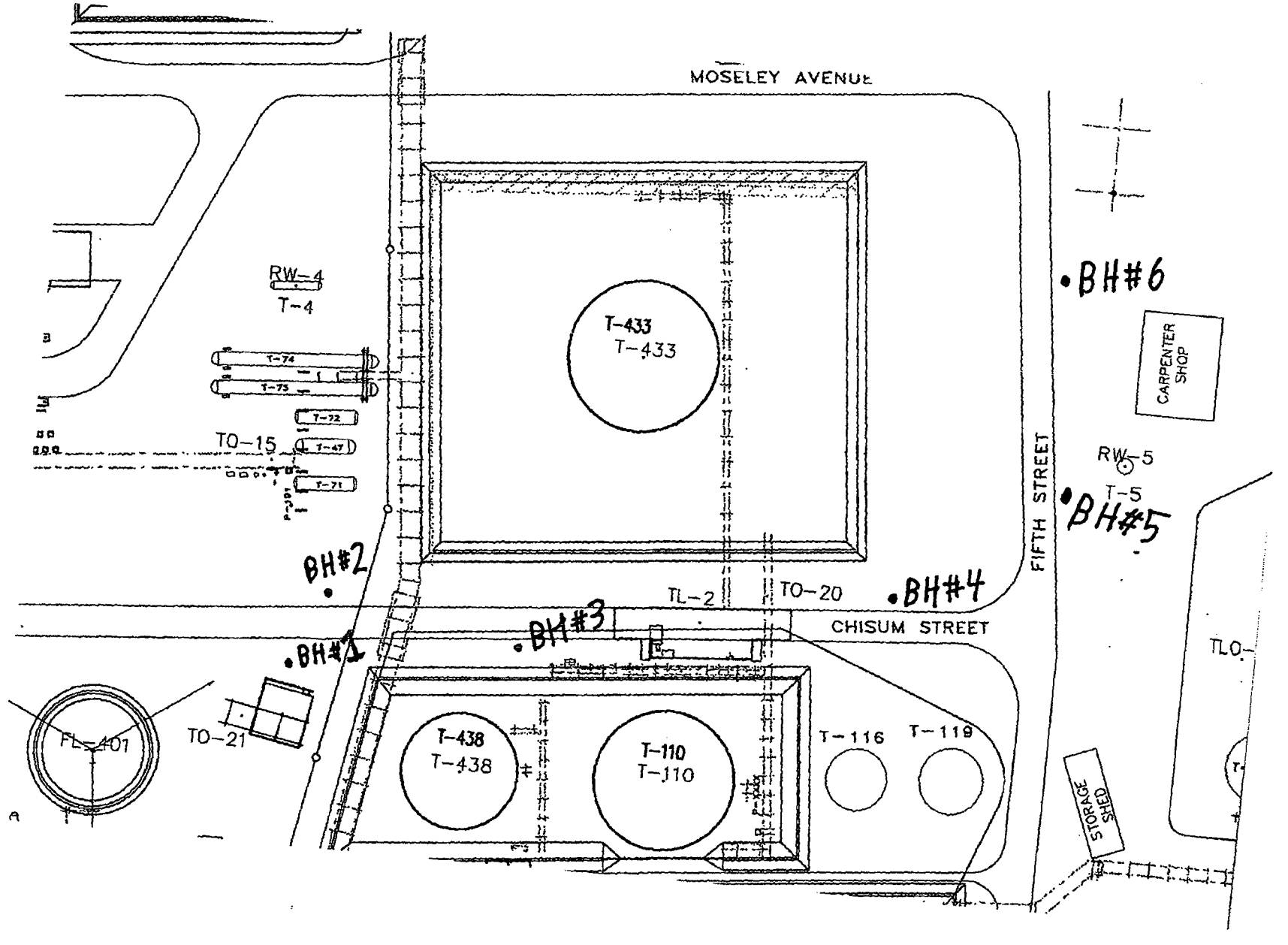
MOSELEY AVENUE
FIFTH STREET
CHISUM STREET
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RW-4
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T-74
T-75
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T-71
TO-15
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BH#6
BH#5
TL-2
TO-20
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RW-5
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FL-401
TO-21
T-438
T-438
T-110
T-110
T-116
T-119
STORAGE SHED

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Monday, December 21, 2009 10:48 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo

Hope,

The release that occurred on 12/17/09 at the Tank 834 sump was caused by a drain valve that was left open. The drain valve is off of the Diesel Coalescer and drains to the sump located within the Tank 834 berm. The sump overflowed due to the open drain valve. We are still cleaning up the contaminated soil and do not yet know how much contaminated soil we will have. I will collect bottom hole/confirmation samples from within the tank berm once the contaminated soil is removed. I will let you know how much soil we remove and also send test results to you.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, December 21, 2009 9:37 AM
To: Strange, Aaron
Subject: FW: Navajo

Aaron

My response below is for the 12-17-09 diesel spill and not the 10-8-09 spill at the S. Bundle Cleaning Pad. I included this response on the wrong email.

Hope

From: Monzeglio, Hope, NMENV
Sent: Monday, December 21, 2009 8:25 AM
To: 'Strange, Aaron'; Chavez, Carl J, EMNRD
Cc: Moore, Darrell; Cobrain, Dave, NMENV
Subject: RE: Navajo

Aaron

Please clarify the cause of the release, the C-141 form and Darrell's email on 12/18/09 indicate the Shift Foreman thought the problem was associated with the diesel coalescer; was this the case or was it something else? How much soil was removed and put in the roll-off bin and were any soil confirmation samples collected from within the tank berm?

Thanks
Hope

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 5:02 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: RE: Navajo

Hope and Carl,

In response to the letter below, I have attached the Bottom Hole sample results. So fare we have shipped 49,000 pound of contaminated soil (F037) as hazardous waste to RINCO. However, there is still some more soil per the Bottom Hole samples that must be removed. More Bottom Hole samples will be taken and submitted to you along with the amount of the other soil that we ship out.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

Regardless of how the contaminated soil is disposed, the Permittee must collect a representative number of discrete confirmation samples from the locations where the contaminated soil was removed. The discrete confirmation soil samples must be analyzed for GRO, diesel range organics (DRO), and RCRA metals. If GRO is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 5:02 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: RE: Navajo
Attachments: South Bundle Cleaning Pad Spill BH Results.pdf

Hope and Carl,

In response to the letter below, I have attached the Bottom Hole sample results. So fare we have shipped 49,000 pound of contaminated soil (F037) as hazardous waste to RINCO. However, there is still some more soil per the Bottom Hole samples that must be removed. More Bottom Hole samples will be taken and submitted to you along with the amount of the other soil that we ship out.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

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is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

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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
Work Order: 0911117
Sample ID: F037 BH#3
Lab ID: 0911117-03
Collection Date: 11/4/2009 01:41 PM
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
Work Order: 0911117
Sample ID: F037 BH#4
Lab ID: 0911117-04
Collection Date: 11/4/2009 01:49 PM
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.

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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 80mg/kg run VOCs
				F If DRO Greater than 200mg/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	~~aaron@CEEI-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	FO37 BH #1	11-4-09	1336	S	Y	1	X	X	X		X	X					
2	" " #2		1338			1	X	X	X		X	Y					
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	Y					
6	" " #6		1356			1	X	X	X		X	Y					
7	Temp Blank																
8	Trip Blank																
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ Stat ☐ 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:

Notes: 5 Work Days TAT.

Relinquished by: | Date: | Time: | Received by (Laboratory): 11-5-09 133

Cooler ID: | Cooler Temp.:

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

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

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.
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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, December 18, 2009 4:28 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: RE: Diesel Spill
Attachments: 2009-12-17 Diesel Spill.pdf

Attached is the C-141 for the spill mentioned below.

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Moore, Darrell
Sent: Friday, December 18, 2009 9:49 AM
To: 'Chavez, Carl J, EMNRD'; Monzeglio, Hope, NMENV
Cc: Strange, Aaron
Subject: Diesel Spill

At ~23:54 on 12-17-2009, the Shift Foreman notified Environmental of a diesel spill near the Tank 834 sump. He thought the problem was associated with the diesel coalescer. A vacuum truck was called and picked up all free standing liquid. An estimate of 45 bbls was spilled. A C-141 will be coming shortly.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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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

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, December 18, 2009 9:49 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Strange, Aaron
Subject: Diesel Spill

At ~23:54 on 12-17-2009, the Shift Foreman notified Environmental of a diesel spill near the Tank 834 sump. He thought the problem was associated with the diesel coalescer. A vacuum truck was called and picked up all free standing liquid. An estimate of 45 bbls was spilled. A C-141 will be coming shortly.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, November 13, 2009 9:22 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Mercury Contamination
Attachments: 2009-11-12 Unit 35 Mercury.pdf

Hope and Carl

Please see the attached C-141 regarding mercury that was found while removing concrete for new pipe support footers.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Thursday, November 05, 2009 4:20 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: RE: Small Fire at navajo
Attachments: 2009-11-05 Unit 70 Fire.pdf

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Moore, Darrell
Sent: Thursday, November 05, 2009 4:07 PM
To: 'Chavez, Carl J, EMNRD'; Monzeglio, Hope, NMENV
Cc: Strange, Aaron; Lackey, Johnny
Subject: Small Fire at navajo

Carl and Hope

Today, while trying to light a heater (H-363) a braided hose ignited. The fire was very small and the burner was shut off immediately which extinguished the fire. The braided hose was replaced and the heater was lit successfully. We will follow-up with a C-141.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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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

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, November 05, 2009 4:07 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Strange, Aaron; Lackey, Johnny
Subject: Small Fire at navajo

Carl and Hope

Today, while trying to light a heater (H-363) a braided hose ignited. The fire was very small and the burner was shut off immediately which extinguished the fire. The braided hose was replaced and the heater was lit successfully. We will follow-up with a C-141.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, October 28, 2009 10:02 AM
To: Chavez, Carl J, EMNRD; Strange, Aaron; Monzeglio, Hope, NMENV
Subject: RE: Release Notification C-141 Form

Carl

This wastewater is process wastewater from the refinery. Since we are in the middle of the fall off test our wastewater tanks will not hold the volume of water that is required to be held while the injection wells are shut in for the test. We ran a line from the wastewater tanks to a new crude tank we have built but not put in crude service yet to help handle the stored wastewater. The line that we ran busted and spilled the water inside the berm.

This water has been thru our complete wastewater treatment system from oil separation to Aggressive Biological Treatment to the DAF unit to Walnut Filters. It is non-hazardous water suitable to go down the injection wells. This is not sewage.

We are collecting samples of the soil inside the spill area and will clean up any areas (if there are any) that show contamination.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, October 28, 2009 6:44 AM
To: Strange, Aaron; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: RE: Release Notification C-141 Form

Aaron:

Good morning. After reviewing the cleanup actions taken, I notice that the refinery is not removing impacted soils within the berm. Why? Also, this waste water may present a biohazard to employees. What is being done to disinfect the area affected by the release?

Aerobic Treatment Septic Systems
Aerobic septic systems add oxygen using any of several types aeration or "fine air bubble" systems to increase the level of effluent treatment in the septic tank by encouraging aerobic bacteria. Aerobic systems produce a better-quality wastewater effluent for discharge into the absorption system for final treatment and disposal.

What is an Aerobic Treatment Unit for Septic Effluent?
In residential use, aerobic treatment units (ATUs, also called "home aeration systems" or "septic tank aeration systems") are pre-packaged septic treatment systems which are in essence a mini-wastewater treatment plant for home use. "Aerobic" refers to the use of an air pump to add oxygen to the treatment tank to increase the level of treatment by the system.

Aerobic septic systems thus require electrical power and cost more to install and operate (more frequent tank pumping) than a traditional gravity septic tank and drainfield. Aerobic treatment, which can produce very high quality treated effluent, is used at sites where a conventional septic drainfield simply wont' work, perhaps because of wet soils or very rocky conditions.

ATUs are also used to restore a working septic system where a traditional septic system has failed and is difficult to repair. Other common reasons for installing aerobic septic treatment units include lots close to lakes and streams or lots which are too small to fit a conventional septic system.
Aerobic treatment may not entirely eliminate the requirement for a drainfield, but it can substantially reduce the drainfield area and capacity required. This is not a "new" idea. Aeration of wastewater as a means of septic effluent treatment has been in use for more than 100 years (using media filters according to Jantrania).

How do Aerobic Septic Treatment Units Work?
An aerobic treatment unit is basically an "oxidizer" which uses extra oxygen dissolved in the wastewater to support aerobic microorganisms which in turn decompose dissolved organic and nitrogen compounds into simple CO2 or into inorganic compounds.
As microorganisms die off they accumulate as a sludge of biological material, some of which supports the development of new cells or microorganisms to keep the system working. ATU's separate solid waste first in the "trash tank" and later, additional solids are separated in the clarifier or settlement tank from which they may be returned to the primary tank for more treatment. "Typical organic materials that are found in residential strength wastewater include carbohydrates, fats, proteins, urea, soaps and detergents. All of these compounds contain carbon, hydrogen, and oxygen. Domestic wastewater also includes organically bound nitrogen, sulfur and phosphorus. During biochemical degradation, these three elements are biologically transformed from organic forms to mineralized forms (i.e., NH3, NH4, NO3, SO4, and PO4).". In contrast, an example of an anaerobic process involved in the breakdown of wastewater would be fermentation, the exothermic, enzymatic breakdown of soluble organic compounds which does not depend on the presence of dissolved oxygen. Methane and CO2 are both products of wastewater fermentation.

Disinfectants: Use of improper septic effluent disinfectant in aerobic systems: be sure to use the proper disinfectant in order to avoid both environmental contamination and violation of federal law. See Aerobic Septic System Disinfection with Calcium Hypochlorite and Aerobic Septic System Disinfection with Chlorine Tablets for details.

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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Tuesday, October 27, 2009 7:40 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification

Carl and Hope,

On 10/25/09 at ~ 17:00 a flex line connected to T-437 split open and spilled ~120 barrels of waste water to the ground. The spill occurred within the T-437 berm and remained contained within the berm. The flex line was replaced and a vacuum truck was called out to remove the water and place it back into the sewer system.

The spilled material was waste water from T-836. T-836 is an ABT (Aerobic Bio Treatment) tank used in our waste water treatment system. It is normally pump to our injection well but we had to pump some of it to T-437 to provide more space for a Fall-Off Test.

Please see the attached Release Notification and Corrective Action Form.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 28, 2009 6:44 AM
To: 'Strange, Aaron'; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: RE: Release Notification C-141 Form

Aaron:

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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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Tuesday, October 27, 2009 7:40 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification

Carl and Hope,

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The spilled material was waste water from T-836. T-836 is an ABT (Aerobic Bio Treatment) tank used in our waste water treatment system. It is normally pump to our injection well but we had to pump some of it to T-437 to provide more space for a Fall-Off Test.

Please see the attached Release Notification and Corrective Action Form.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Tuesday, October 27, 2009 7:40 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification
Attachments: 2009-10-26 T-437 Waste Water Spill.pdf

Carl and Hope,

On 10/25/09 at ~ 17:00 a flex line connected to T-437 split open and spilled ~120 barrels of waste water to the ground. The spill occurred within the T-437 berm and remained contained within the berm. The flex line was replaced and a vacuum truck was called out to remove the water and place it back into the sewer system.

The spilled material was waste water from T-836. T-836 is an ABT (Aerobic Bio Treatment) tank used in our waste water treatment system. It is normally pump to our injection well but we had to pump some of it to T-437 to provide more space for a Fall-Off Test.

Please see the attached Release Notification and Corrective Action Form.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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

Form C-141
Revised October 10, 2003

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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

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, October 14, 2009 2:25 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification
Attachments: 2009-10-14 ISOM Unit Sewer Spill.pdf

Carl and Hope,

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 spilling process water to the ground. It left puddles by the flare drum and also collected in the storm water ditch. 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. 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.

We have been cleaning out the sewers and believe that the cleaning activities may be related to this spill and the previous spill at the North Bundle Cleaning Pad.

Please see the attached Release Notification and Corrective Action Form.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

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

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

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Tuesday, October 13, 2009 3:17 PM
To: Strange, Aaron
Cc: Moore, Darrell; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: Navajo

Aaron

I am following up with the sampling requirements for the release that occurred on October 8, 2009 at the South Bundle Cleaning Pad. In addition to the F037/F038 listing, the excavated soil may also be characteristic for benzene (D018).

All contaminated soil removed from this release and placed in hard top roll-off bins is considered a hazardous waste. If Navajo ships the contaminated soil off-site as hazardous waste, Navajo must follow the sampling requirements of the disposal facility and ensure all required documentation is completed and kept on file.

If Navajo does not want to send the contaminated soil off-site as a hazardous waste, then Navajo must request a contained in determination from NMED in writing and must complete the following sampling requirements: collect a representative number of undisturbed discrete samples from the soils placed in the roll-off bins. The discrete samples must be analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semi volatile organic compounds (SVOCs), TCLP RCRA metals, ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20). All details pertaining to the spill, cleanup activities, sample collection methods and procedures, and analytical data must be included in the contained in determination letter.

Regardless of how the contaminated soil is disposed, the Permittee must collect a representative number of discrete confirmation samples from the locations where the contaminated soil was removed. The discrete confirmation soil samples must be analyzed for GRO, diesel range organics (DRO), and RCRA metals. If GRO is detected at a concentrations greater than 80 mg/kg then the sample must be analyzed for VOCs. If DRO is detected at concentrations greater than 200 mg/kg, then the sample must be analyzed for SVOCs.

Navajo must submit to NMED and OCD all laboratory reports, waste management activities, soil removal methods, sampling methods, volume of soil removed etc. within 30 days of receipt of the laboratory results for the confirmation samples.

Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:

Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Friday, October 09, 2009 9:14 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification
Attachments: 2009-10-08 South Bundle Cleaning Pad Spill.pdf

Carl and Hope,

Please see the attached Release Notification and Corrective Action Form.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Monday, August 24, 2009 2:38 PM
To: 'Moore, Darrell'
Subject: RE: Fuel Oil Spill

Darrell:

I am in receipt of your final documentation with corrective action documentation dated August 21, 2009. Could you please send (e-mail) me the final C-141 with the "Final Report" section checked off and an update to the initial C-141 to close this out?

Please contact me if you have questions. 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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Friday, July 11, 2008 3:50 PM
To: Chavez, Carl J, EMNRD; Bratcher, Mike, EMNRD; Monzeglio, Hope, NMENV
Subject: Fuel Oil Spill

Attached is a C-141 for a Fuel Oil Spill at the refinery in Artesia. Bottom Hole results alomh with manifests and photos will follow.

Darrell Moore

Environmental Manager for Water and Waste

Navajo Refining Company, L.P.

P.O. Box 159

Artesia, NM 88211-0159

Darrell.moore@navajo-refining.com

phone: 505.746.5281

cell: 505.703.5058

fax: 505.746.5451

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Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, July 11, 2008 3:50 PM
To: Chavez, Carl J, EMNRD; Bratcher, Mike, EMNRD; Monzeglio, Hope, NMENV
Subject: Fuel Oil Spill
Attachments: Fuel Oil Spill 71108.pdf

Attached is a C-141 for a Fuel Oil Spill at the refinery in Artesia. Bottom Hole results alomh with manifests and photos will follow.

Darrell Moore

Environmental Manager for Water and Waste

Navajo Refining Company, L.P.

P.O. Box 159

Artesia, NM 88211-0159

Darrell.moore@navajo-refining.com

phone: 505.746.5281

cell: 505.703.5058

fax: 505.746.5451

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Navajo Refining Co. LLC	Contact Darrell Moore
Address PO Box 159 Artesia, NM 88211-0159	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 Fuel Oil	Volume of Release 15 Bbls	Volume Recovered 7 Bbls
Source of Release Employee left check valve open	Date and Hour 7/11/08 of 12:30 pm	Date and Hour 7/11/08 of 12:30 pm
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.* Employee left check valve open, then kicked pump on while filling rail car. Once he noticed the leak, he closed valve. Vacuum truck was called to pick up free liquid.

Describe Area Affected and Cleanup Action Taken.* Area affected is under rail cars at PG Rack. About 8' x 30' area. Contaminated soil will be removed and bottom hole samples 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 & Waste	Approval Date:	Expiration Date:
E-mail Address: darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 7/11/08 Phone: 575-746-5281		

* Attach Additional Sheets If Necessary

NAVAJO 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) 748-3421 ENGINEERING

RECEIVED
2009 AUG 24 PM 1 39

August 21, 2009

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: May 8, 2009 Spill at PG Rack, Navajo Refining Company

Dear Carl,

Enclosed, please find the delineation report for the spill at our PG Rack that we reported to OCD on May 8, 2009. This spill was from a faulty belly drain valve.

Navajo crews cleaned up the spill between the tracks as best we could, but the area has several tracks and getting below the tracks would have compromised the integrity of the tracks. Therefore, we were forced to leave some contamination in place.

As the delineation points out, this spill was fuel oil which is heavy. We drilled 42 borings and there was no contamination below 30 inches.

Ive also included manifests of the contaminated soil that has been removed from the site. A total of 30 loads or over 350 yards of material has been removed. Cleaning around those tracks would be extremely difficult and probably compromise the integrity of the tracks.

If there are any questions concerning this report, please call me at 575-746-5281.

Sincerely,
NAVAJO REFINING COMPANY, LLC

Darrell Moore
Environmental Manager for Water and Waste

encl

Cc: Hope Monzeglio, NMED HWB

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 1

II. BACKGROUND 1

III. SURFACE AND GROUND WATER 1

IV. SOILS 1

V. WORK PERFORMED 1

VI. ACTION PLAN 2

VII. FIGURES & APPENDICES 2

Figure 1 – Vicinity Map 3

Figure 2 – Site Plan 4

Figure 3 – Auger Hole Locations 5

Appendix A - Analytical Results 6

Appendix B – Site Photos 7

Appendix C – C-141 8

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 at the bottom of a rail tanker car. Fuel oil No. 6 is a petroleum distillate fraction with a boiling point > 400 degrees F. Fuel oil No. 6 is the highest boiling fraction of the heavy distillates from petroleum and is a sticky, black liquid similar in appearance and smell to asphalt sealing compounds. At 50° F it has a consistency of liquid honey or corn syrup. At 32° F it barely flows. Fuel Oil No. 6 at ambient temperature does not migrate very quickly and will not penetrate the soil beyond a few inches before it begins to solidify.

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.

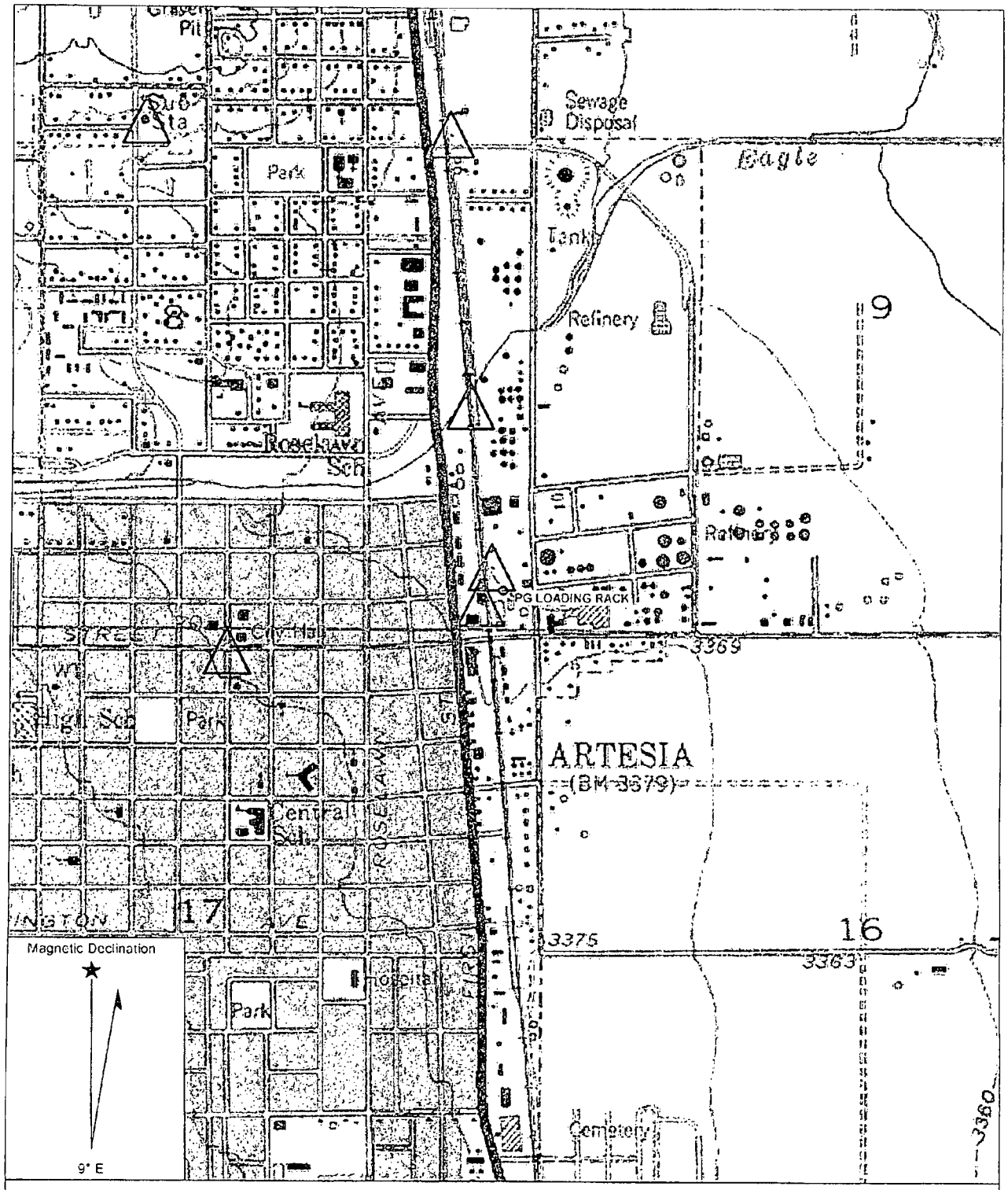
VI. Action Plan

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 wells will be sampled and analyzed for the constituents of concern semi-annually. Navajo will perform additional excavation in the area around AH #24 then sample to ensure the level of Benzo (a) pyrene is below the soil screening level of 2.34 mg/kg.

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

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Figure 2
Site Plan

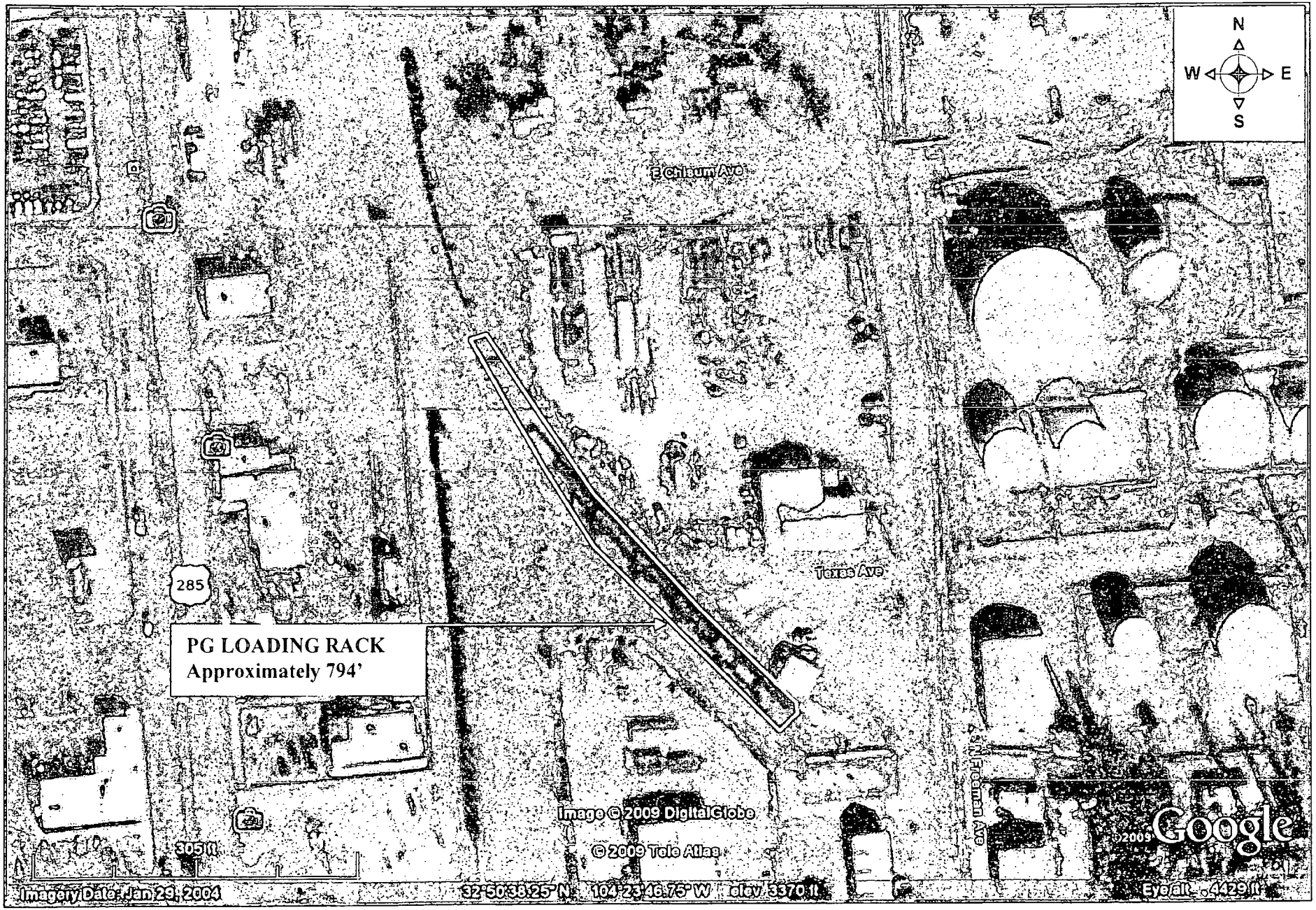
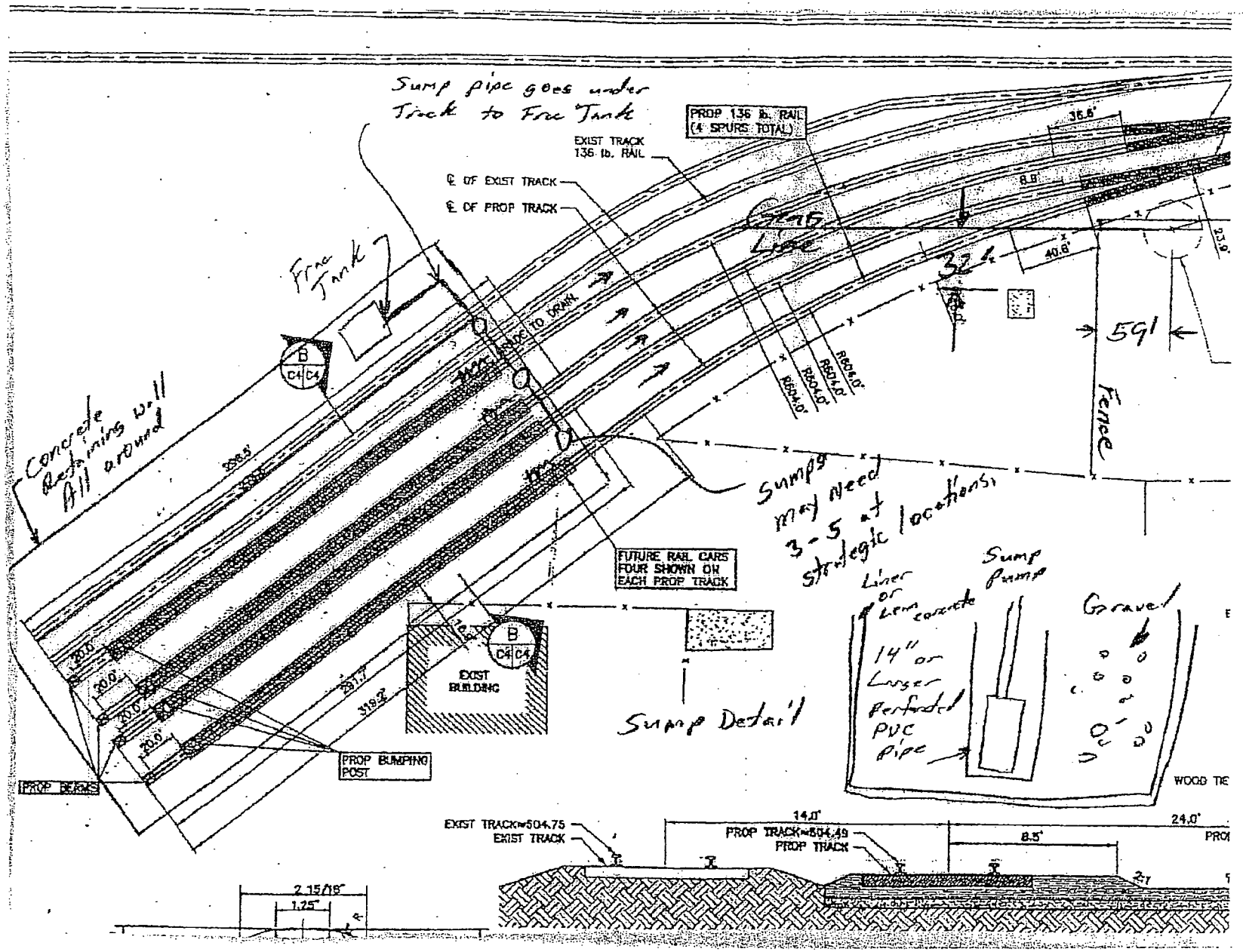
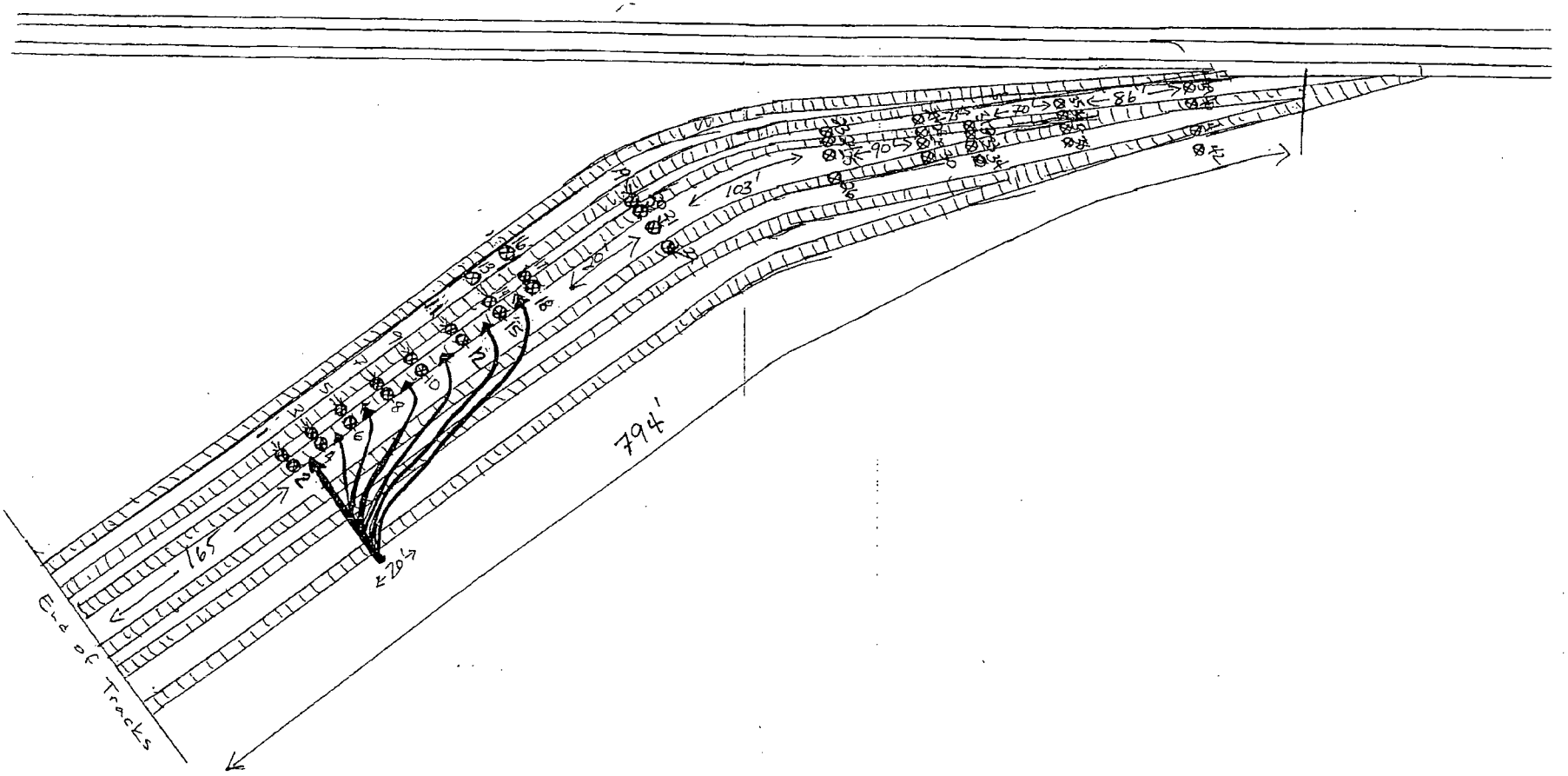

N
W
E
S
E Chisum Ave
Texas Ave
285
PG LOADING RACK
Approximately 794'
N Freeman Ave
305 ft
Image © 2009 DigitalGlobe
© 2009 Tele Atlas
2009 Google
Imagery Date: Jan 29, 2004
32°50'38.25" N 104°23'46.75" W elev 3370 ft
Eye alt 4429 ft

Figure 3
Auger Hole Locations


Sump pipe goes under Track to Frac Tank
PROP 136 lb. RAIL (4 SPURS TOTAL)
EXIST TRACK 136 lb. RAIL
℄ OF EXIST TRACK
℄ OF PROP TRACK
Frac Tank
Concrete Retaining Wall all around
SLOPE TO DRAIN
FUTURE RAIL CARS FOUR SHOWN ON EACH PROP TRACK
EXIST BUILDING
PROP BUMPING POST
PROP BERMS
Sump may need 3-5 at strategic locations
Sump Detail
Liner or Lean concrete
Sump Pump
Gravel
14" or Larger Perforated PVC Pipe
WOOD TIE
Fence
591
32
40.8'
36.6'
8.5'
EXIST TRACK=504.75
EXIST TRACK
PROP TRACK=504.49
PROP TRACK
14.0'
24.0'
8.5'
2.15/16"
1.25"


794'
165
End of Tracks

Appendix A
Analytical Results

ALS Laboratory Group

ID	TPH (GRO) (mg/Kg)	TPH (DRO) (mg/Kg)	TPH (Motor Oil Range) (mg/Kg)	Acenaphthene (mg/Kg)	Acenaphthylene (mg/Kg)	Anthracene (mg/Kg)	Benzo(a) anthracene (mg/Kg)	Benzo(a) pyrene (mg/Kg)
NMED Soil Screening Guidance, Industrial/Occupational Soil:				33,500.00	- -	100,000.00	23.40	2.34
AH #1 2-1/2'	<50	<50	<99	0.11	<0.0066	0.11	0.13	0.12
AH #2 2-1/2'	<49	<49	<99	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #3 2-1/2'	<50	<50	<100	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #4 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #5 2-1/2'	<49	<49	<98	<0.0066	<0.0066	0.0072	0.031	0.037
AH #6 2-1/2'	<49	<49	<98	<0.0066	<0.0066	0.0073	0.0069	<0.0066
AH #7 2-1/2'	<50	200	100	0.06	<0.0066	0.052	0.053	0.048
AH #8 2-1/2'	<50	140	<99	<0.0066	<0.0066	<0.0066	0.0089	0.008
AH #9 2-1/2'	<49	<49	<97	0.05	<0.0066	0.051	0.052	0.042
AH #10 2-1/2'	<49	240	150	0.089	<0.0066	0.079	0.093	0.081
AH #11 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #12 2-1/2'	<49	560	340	0.15	<0.0066	0.25	0.24	0.24
AH #13 2-1/2'	<49	<49	<99	0.02	<0.0066	0.025	0.043	0.013
AH #14 2-1/2'	<50	<50	<99	<0.0066	<0.0066	<0.0066	<0.0066	0.0066
AH #15 2-1/2'	<50	130	<99	0.096	<0.0066	0.10	0.11	0.09
AH #16 2-1/2'	<49	<49	<97	0.03	<0.0066	0.018	0.011	<0.0066
AH #17 2-1/2'	<50	55	<100	0.044	<0.0066	0.039	0.049	0.049
AH #18 2-1/2'	<50	69	<99	0.12	<0.0066	0.12	0.12	0.088
AH #19 2-1/2'	<49	180	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #20 2-1/2'	<49	100	<98	0.14	<0.0066	0.13	0.15	0.13
AH #21 2-1/2'	<49	<49	<97	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #22 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	0.0068	0.0079
AH #23 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #24 2-1/2'	<49	480	360	0.30	<0.0066	0.87	3.6	2.7
AH #25 2-1/2'	<49	<49	<97	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #26 2-1/2'	<50	<50	<99	<0.0066	<0.0066	<0.0066	0.02	0.016
AH #27 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #28 2-1/2'	NS	NS	NS	NS	NS	NS	NS	NS
AH #29 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	0.0073
AH #30 2-1/2'	<50	<50	<99	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #31 2-1/2'	<49	<49	<98	0.036	<0.0066	0.024	0.029	0.032
AH #32 2-1/2'	<49	<49	<97	0.12	<0.0066	0.17	0.22	0.18
AH #33 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #34 2-1/2'	<50	<50	<100	0.024	<0.0066	0.019	0.026	0.024
AH #35 2-1/2'	<50	<50	<100	<0.0066	<0.0066	<0.0066	0.021	0.02
AH #36 2-1/2'	<49	160	<98	0.098	<0.0066	0.076	0.076	0.083
AH #37 2-1/2'	<50	<50	<100	0.019	<0.0066	0.016	0.018	0.02
AH #38 2-1/2'	<50	<50	<100	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #39 2-1/2'	<49	<49	<98	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
AH #40 2-1/2'	<50	200	100	0.0092	<0.0066	0.011	0.015	0.011
AH #41 2-1/2'	<49	400	160	0.25	<0.0066	0.32	0.25	0.27
AH #42 2-1/2'	<49	<49	<98	0.23	<0.0066	0.27	0.23	0.17

Benzo(k) fluoranthene (mg/Kg)	Chrysene (mg/Kg)	Dibenz(a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno(1,2.3-cd) pyrene (mg/Kg)	Napthalene (mg/Kg)	Phenanthrene (mg/Kg)	Pyrene (mg/Kg)
234.00	2,310.00	2.34	24,400.00	26,500.00	23.40	300.00	20,500.00	30,900.00
0.0089	0.22	0.029	0.055	0.25	<0.0066	0.41	0.87	0.23
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.014	<0.0066
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.013	<0.0066
0.017	0.044	0.011	0.018	0.012	0.03	0.0078	0.06	0.03
<0.0066	0.016	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.039	0.014
<0.0066	0.12	0.01	0.037	0.12	<0.0066	0.19	0.46	0.12
<0.0066	0.018	<0.0066	<0.0066	0.0098	<0.0066	0.015	0.039	0.011
<0.0066	0.11	0.014	0.041	0.097	0.01	0.043	0.47	0.14
0.015	0.18	<0.0066	0.053	0.16	0.011	0.43	0.87	0.22
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.016	<0.0066
0.02	0.6	0.05	0.14	0.66	0.052	1.4	2.0	0.54
<0.0066	0.068	<0.0066	0.033	0.036	<0.0066	0.015	0.23	0.12
<0.0066	0.017	<0.0066	<0.0066	0.011	<0.0066	0.009	0.039	0.013
0.011	0.2	0.019	0.062	0.16	0.021	0.55	0.96	0.16
<0.0066	0.018	<0.0066	0.017	0.042	<0.0066	0.017	0.14	0.058
0.0091	0.11	<0.0066	0.034	0.074	0.009	0.083	0.3	0.088
0.0096	0.24	0.027	0.085	0.19	0.016	0.56	1.1	0.31
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
0.0082	0.28	0.036	0.081	0.25	0.023	0.69	1.2	0.34
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0074	<0.0066
<0.0066	0.013	<0.0066	<0.0066	0.0095	<0.0066	0.01	0.041	0.014
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.016	<0.0066
2.1	4.1	0.20	8.1	0.82	1.3	1.8	5.5	5.7
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0079	0.0069
<0.0066	0.043	0.0067	0.037	<0.0066	0.0078	<0.0066	0.034	0.038
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0076	<0.0066
NS	NS	NS	NS	NS	NS	NS	NS	NS
<0.0066	0.008	0.01	<0.0066	<0.0066	0.012	<0.0066	0.023	0.012
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0095	<0.0066
<0.0066	0.072	0.0072	0.015	0.075	0.0082	0.086	0.24	0.071
0.026	0.44	0.052	0.13	0.28	0.039	<0.0066	1.3	0.44
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0075	<0.0066
<0.0066	0.066	0.0084	0.015	0.043	0.009	0.06	0.15	0.053
0.011	0.029	<0.0066	0.031	<0.0066	0.014	0.0071	0.039	0.039
0.008	0.19	0.025	0.052	0.17	0.017	0.16	0.54	0.18
<0.0066	0.043	<0.0066	0.014	0.039	<0.0066	0.041	0.14	0.041
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0091	<0.0066
<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
<0.0066	0.027	<0.0066	0.011	0.025	0.0067	0.035	0.076	0.033
<0.0066	0.58	0.069	0.15	0.52	0.047	0.93	2.0	0.57
<0.0066	0.71	0.037	0.15	0.57	0.026	0.48	2.3	0.59

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

26-May-09

Aaron Strange
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 746-5468
Fax: (575) 746-5421

Re: PG Spill

Work Order : **0905200**

Dear Aaron,

ALS Laboratory Group received 2 samples on 5/9/2009 08:25 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 27.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-08-TX

ALS Laboratory Group

Date: 26-May-09

Client: Navajo Refining Company
Project: PG Spill
Work Order: **0905200**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0905200-01	PG Spill	Organic		5/8/2009 15:00	5/9/2009 08:25	☐
0905200-02	Trip Blank	Water		5/8/2009 15:00	5/9/2009 08:25	☑

ALS Laboratory Group *Date: 26-May-09*

Client: Navajo Refining Company
Project: PG Spill
Work Order: 0905200

Case Narrative

Batch 36033, Method 1311_SV, Sample SLCSDT1-090514: Insufficient sample for MS/ MSD
Batch R77097, Volatiles, Sample 0905200-01A: Lowest practical dilution for 5200-01A, as sample is an oil

ALS Laboratory Group

Date: *26-May-09*

Client: Navajo Refining Company
Project: PG Spill
Sample ID: PG Spill
Collection Date: 5/8/2009 03:00 PM

Work Order: 0905200
Lab ID: 0905200-01
Matrix: ORGANIC

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			**SW7470**		Prep Date: **5/14/2009**	Analyst: **JCJ**
Mercury	ND		0.000200	mg/L	1	5/14/2009 02:57 PM
TCLP METALS			**SW1311/6020**		Prep Date: **5/14/2009**	Analyst: **SKS**
Arsenic	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
Barium	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
Cadmium	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
Chromium	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
Lead	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
Selenium	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
Silver	ND		0.0500	mg/L	10	5/14/2009 04:55 PM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **5/14/2009**	Analyst: **ACN**
2,4,5-Trichlorophenol	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
2,4,6-Trichlorophenol	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
2,4-Dinitrotoluene	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Cresols, Total	**0.22**		**0.075**	**mg/L**	5	5/14/2009 08:27 PM
Hexachlorobenzene	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Hexachlorobutadiene	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Hexachloroethane	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Nitrobenzene	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Pentachlorophenol	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Pyridine	ND		0.0050	mg/L	1	5/14/2009 08:03 PM
Surr: 2,4,6-Tribromophenol	*68.7*		*42-124*	*%REC*	1	5/14/2009 08:03 PM
Surr: 2,4,6-Tribromophenol	*63.7*		*42-124*	*%REC*	5	5/14/2009 08:27 PM
Surr: 2-Fluorobiphenyl	*79.4*		*48-120*	*%REC*	1	5/14/2009 08:03 PM
Surr: 2-Fluorobiphenyl	*91.6*		*48-120*	*%REC*	5	5/14/2009 08:27 PM
Surr: 2-Fluorophenol	*60.3*		*20-120*	*%REC*	1	5/14/2009 08:03 PM
Surr: 2-Fluorophenol	*67.4*		*20-120*	*%REC*	5	5/14/2009 08:27 PM
Surr: 4-Terphenyl-d14	*72.3*		*51-135*	*%REC*	1	5/14/2009 08:03 PM
Surr: 4-Terphenyl-d14	*75.9*		*51-135*	*%REC*	5	5/14/2009 08:27 PM
Surr: Nitrobenzene-d5	*90.2*		*41-120*	*%REC*	5	5/14/2009 08:27 PM
Surr: Nitrobenzene-d5	*88.3*		*41-120*	*%REC*	1	5/14/2009 08:03 PM
Surr: Phenol-d6	*67.0*		*20-120*	*%REC*	1	5/14/2009 08:03 PM
Surr: Phenol-d6	*62.0*		*20-120*	*%REC*	5	5/14/2009 08:27 PM
TCLP VOLATILES			**SW1311/8260B**		Prep Date: **5/13/2009**	Analyst: **PC**
1,1-Dichloroethene	ND		0.10	mg/L	20	5/19/2009 09:30 PM
1,2-Dichloroethane	ND		0.10	mg/L	20	5/19/2009 09:30 PM
1,4-Dichlorobenzene	ND		0.10	mg/L	20	5/19/2009 09:30 PM
2-Butanone	ND		0.20	mg/L	20	5/19/2009 09:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *26-May-09*

Client: Navajo Refining Company
Project: PG Spill
Sample ID: PG Spill
Collection Date: 5/8/2009 03:00 PM

Work Order: 0905200
Lab ID: 0905200-01
Matrix: ORGANIC

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Benzene	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Carbon tetrachloride	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Chlorobenzene	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Chloroform	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Tetrachloroethene	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Trichloroethene	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Vinyl chloride	ND		0.10	mg/L	20	5/19/2009 09:30 PM
Surr: 1,2-Dichloroethane-d4	*110*		*70-125*	*%REC*	20	5/19/2009 09:30 PM
Surr: 4-Bromofluorobenzene	*103*		*72-125*	*%REC*	20	5/19/2009 09:30 PM
Surr: Dibromofluoromethane	*109*		*71-125*	*%REC*	20	5/19/2009 09:30 PM
Surr: Toluene-d8	*107*		*75-125*	*%REC*	20	5/19/2009 09:30 PM
VOLATILES			**SW8260**			Analyst: **PC**
Benzene	ND		6.2	mg/Kg	1250	5/20/2009 05:05 PM
Surr: 1,2-Dichloroethane-d4	*101*		*70-128*	*%REC*	1250	5/20/2009 05:05 PM
Surr: 4-Bromofluorobenzene	*93.8*		*73-126*	*%REC*	1250	5/20/2009 05:05 PM
Surr: Dibromofluoromethane	*103*		*71-128*	*%REC*	1250	5/20/2009 05:05 PM
Surr: Toluene-d8	*99.4*		*73-127*	*%REC*	1250	5/20/2009 05:05 PM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	ND		40.0	mg/Kg	1	5/13/2009
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	**60.8**		**40.0**	**mg/Kg**	1	5/13/2009
IGNITABILITY			**SW1030**			Analyst: **TDW**
Ignitability, Solid	**Negative**			**no unit**	1	5/20/2009 12:00 PM
PH			**SW9045B**			Analyst: **TDW**
pH	**5.48**		**0.100**	**pH Units**	1	5/19/2009 03:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 26-May-09

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **36031** Instrument ID **Mercury** Method: **SW7470**

MBLK Sample ID: **GBLKW2-051409-36031** Units: **mg/L** Analysis Date: **5/14/2009 02:22 PM**
Client ID: Run ID: **MERCURY_090514A** SeqNo: **1670609** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

MBLK Sample ID: **GBLKT1-051309-36031** Units: **mg/L** Analysis Date: **5/14/2009 02:55 PM**
Client ID: Run ID: **MERCURY_090514A** SeqNo: **1670617** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: **GLCSW2-051409-36031** Units: **mg/L** Analysis Date: **5/14/2009 02:24 PM**
Client ID: Run ID: **MERCURY_090514A** SeqNo: **1670610** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00477	0.00020	0.005	0	95.4	80-120	0			

MS Sample ID: **0905262-01AMS** Units: **mg/L** Analysis Date: **5/14/2009 02:42 PM**
Client ID: Run ID: **MERCURY_090514A** SeqNo: **1670613** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00482	0.00020	0.005	0.000043	95.5	75-125	0			

MSD Sample ID: **0905262-01AMSD** Units: **mg/L** Analysis Date: **5/14/2009 02:44 PM**
Client ID: Run ID: **MERCURY_090514A** SeqNo: **1670614** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00487	0.00020	0.005	0.000043	96.5	75-125	0.00482	1.03	20	

DUP Sample ID: **0905262-01ADUP** Units: **mg/L** Analysis Date: **5/14/2009 02:40 PM**
Client ID: Run ID: **MERCURY_090514A** SeqNo: **1670612** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	0.000043	0	20	

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **36036** Instrument ID **ICP7500** Method: **SW1311/6020**

MBLK Sample ID: **MBLKW1-051409-36036** Units: **mg/L** Analysis Date: **5/14/2009 03:37 PM**
Client ID: Run ID: **ICP7500_090514A** SeqNo: **1670722** Prep Date: **5/14/2009** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	0.01538	0.050								J
Lead	0.005	0.050								J
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: **MBLKT1-051309-36036** Units: **mg/L** Analysis Date: **5/14/2009 04:31 PM**
Client ID: Run ID: **ICP7500_090514A** SeqNo: **1670733** Prep Date: **5/14/2009** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	0.004662	0.050								J
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: **MLCSW1-051409-36036** Units: **mg/L** Analysis Date: **5/14/2009 03:43 PM**
Client ID: Run ID: **ICP7500_090514A** SeqNo: **1670724** Prep Date: **5/14/2009** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2411	0.050	0.25	0	96.4	80-120	0			
Barium	0.2533	0.050	0.25	0	101	80-120	0			
Cadmium	0.2468	0.050	0.25	0	98.7	80-120	0			
Chromium	0.2346	0.050	0.25	0	93.8	80-120	0			
Lead	0.2449	0.050	0.25	0	98	80-120	0			
Selenium	0.2507	0.050	0.25	0	100	80-120	0			
Silver	0.2487	0.050	0.25	0	99.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **36036** Instrument ID **ICP7500** Method: **SW1311/6020**

MS Sample ID: **0905258-01AMS** Units: **mg/L** Analysis Date: **5/14/2009 04:13 PM**
Client ID: Run ID: **ICP7500_090514A** SeqNo: **1670730** Prep Date: **5/14/2009** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2506	0.050	0.25	0.004521	98.4	75-125	0			
Barium	0.4844	0.050	0.25	0.2613	89.2	75-125	0			
Cadmium	0.2227	0.050	0.25	0.004163	87.4	75-125	0			
Chromium	0.2359	0.050	0.25	0.004476	92.6	75-125	0			
Lead	0.2329	0.050	0.25	0.006784	90.4	75-125	0			
Selenium	0.249	0.050	0.25	0.002924	98.4	75-125	0			
Silver	0.223	0.050	0.25	0.0001756	89.1	75-125	0			

MSD Sample ID: **0905258-01AMSD** Units: **mg/L** Analysis Date: **5/14/2009 04:19 PM**
Client ID: Run ID: **ICP7500_090514A** SeqNo: **1670731** Prep Date: **5/14/2009** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2313	0.050	0.25	0.004521	90.7	75-125	0.2506	8.01	25	
Barium	0.495	0.050	0.25	0.2613	93.5	75-125	0.4844	2.16	25	
Cadmium	0.2267	0.050	0.25	0.004163	89	75-125	0.2227	1.78	25	
Chromium	0.2138	0.050	0.25	0.004476	83.7	75-125	0.2359	9.83	25	
Lead	0.2384	0.050	0.25	0.006784	92.6	75-125	0.2329	2.33	25	
Selenium	0.2297	0.050	0.25	0.002924	90.7	75-125	0.249	8.06	25	
Silver	0.2215	0.050	0.25	0.0001756	88.5	75-125	0.223	0.675	25	

DUP Sample ID: **0905258-01ADUP** Units: **mg/L** Analysis Date: **5/14/2009 04:01 PM**
Client ID: Run ID: **ICP7500_090514A** SeqNo: **1670728** Prep Date: **5/14/2009** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0.004521	0	25	
Barium	0.2448	0.050	0	0	0	0-0	0.2613	6.52	25	
Cadmium	ND	0.050	0	0	0	0-0	0.004163	0	25	
Chromium	ND	0.050	0	0	0	0-0	0.004476	0	25	
Lead	0.006587	0.050	0	0	0	0-0	0.006784	0	25	J
Selenium	ND	0.050	0	0	0	0-0	0.002924	0	25	
Silver	ND	0.050	0	0	0	0-0	0.0001756	0	25	

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **36033** Instrument ID **SV-3** Method: **SW1311/8270**

MBLK Sample ID: **SBLKT1-090514-36033** Units: **µg/L** Analysis Date: **5/14/2009 03:06 PM**

Client ID: Run ID: **SV-3_090514B** SeqNo: **1671727** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	15								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	*71.49*	5.0	*100*	0	*71.5*	*42-124*	0			
Surr: 2-Fluorobiphenyl	*86.98*	5.0	*100*	0	*87*	*48-120*	0			
Surr: 2-Fluorophenol	*64.3*	5.0	*100*	0	*64.3*	*20-120*	0			
Surr: 4-Terphenyl-d14	*83.9*	5.0	*100*	0	*83.9*	*51-135*	0			
Surr: Nitrobenzene-d5	*91.66*	5.0	*100*	0	*91.7*	*41-120*	0			
Surr: Phenol-d6	*66.97*	5.0	*100*	0	*67*	*20-120*	0			

LCS Sample ID: **SLCST1-090514-36033** Units: **µg/L** Analysis Date: **5/14/2009 03:35 PM**

Client ID: Run ID: **SV-3_090514B** SeqNo: **1671728** Prep Date: **5/14/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	78.23	5.0	100	0	78.2	52-115	0			
2,4,6-Trichlorophenol	80.94	5.0	100	0	80.9	53-115	0			
2,4-Dinitrotoluene	44.24	5.0	50	0	88.5	56-115	0			
Cresols, Total	228.7	15	250	0	91.5	35-115	0			
Hexachlorobenzene	39.44	5.0	50	0	78.9	54-115	0			
Hexachlorobutadiene	39.43	5.0	50	0	78.9	51-115	0			
Hexachloroethane	39.07	5.0	50	0	78.1	54-115	0			
Nitrobenzene	40.56	5.0	50	0	81.1	40-124	0			
Pentachlorophenol	90.37	5.0	100	0	90.4	45-125	0			
Pyridine	26.55	5.0	50	0	53.1	34-115	0			
Surr: 2,4,6-Tribromophenol	*81.74*	5.0	*100*	0	*81.7*	*42-124*	0			
Surr: 2-Fluorobiphenyl	*91.19*	5.0	*100*	0	*91.2*	*48-120*	0			
Surr: 2-Fluorophenol	*73.67*	5.0	*100*	0	*73.7*	*20-120*	0			
Surr: 4-Terphenyl-d14	*80.73*	5.0	*100*	0	*80.7*	*51-135*	0			
Surr: Nitrobenzene-d5	*99.42*	5.0	*100*	0	*99.4*	*41-120*	0			
Surr: Phenol-d6	*78.88*	5.0	*100*	0	*78.9*	*20-120*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **36033** Instrument ID **SV-3** Method: **SW1311/8270**

LCSD Sample ID: **SLCSDT1-090514-36033** Units: µg/L Analysis Date: **5/14/2009 03:59 PM**

Client ID: Run ID: **SV-3_090514B** SeqNo: **1671729** Prep Date: **5/14/2009** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	83.31	5.0	100	0	83.3	52-115	78.23	6.29	25	
2,4,6-Trichlorophenol	81.77	5.0	100	0	81.8	53-115	80.94	1.02	25	
2,4-Dinitrotoluene	46.37	5.0	50	0	92.7	56-115	44.24	4.7	25	
Cresols, Total	214.1	15	250	0	85.6	35-115	228.7	6.6	25	
Hexachlorobenzene	41.78	5.0	50	0	83.6	54-115	39.44	5.77	25	
Hexachlorobutadiene	39.52	5.0	50	0	79	51-115	39.43	0.226	25	
Hexachloroethane	36.02	5.0	50	0	72	54-115	39.07	8.12	25	
Nitrobenzene	37.53	5.0	50	0	75.1	40-124	40.56	7.77	25	
Pentachlorophenol	100.4	5.0	100	0	100	45-125	90.37	10.5	25	
Pyridine	25.23	5.0	50	0	50.5	34-115	26.55	5.07	25	
Surr: 2,4,6-Tribromophenol	*82.88*	5.0	*100*	0	*82.9*	*42-124*	81.74	*1.38*	25	
Surr: 2-Fluorobiphenyl	*89.78*	5.0	*100*	0	*89.8*	*48-120*	91.19	*1.56*	25	
Surr: 2-Fluorophenol	*67.85*	5.0	*100*	0	*67.9*	*20-120*	73.67	*8.22*	25	
Surr: 4-Terphenyl-d14	*78.34*	5.0	*100*	0	*78.3*	*51-135*	80.73	*2.99*	25	
Surr: Nitrobenzene-d5	*93.14*	5.0	*100*	0	*93.1*	*41-120*	99.42	*6.52*	25	
Surr: Phenol-d6	*70.45*	5.0	*100*	0	*70.4*	*20-120*	78.88	*11.3*	25	

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **R77009** Instrument ID **VOA1** Method: **SW1311/8260**

MBLK Sample ID: **VBLKW-051909-R77009** Units: **µg/L** Analysis Date: **5/19/2009 11:53 AM**
Client ID: Run ID: **VOA1_090519A** SeqNo: **1673538** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	*49.25*	5.0	*50*	0	*98.5*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*51.8*	5.0	*50*	0	*104*	*72.4-125*	0			
Surr: Dibromofluoromethane	*51.39*	5.0	*50*	0	*103*	*71.2-125*	0			
Surr: Toluene-d8	*53.6*	5.0	*50*	0	*107*	*75-125*	0			

MBLK Sample ID: **MBLKV1-051809-R77009** Units: **µg/L** Analysis Date: **5/19/2009 12:19 PM**
Client ID: Run ID: **VOA1_090519A** SeqNo: **1673541** Prep Date: **5/18/2009** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	*1029*	100	*1000*	0	*103*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*976.8*	100	*1000*	0	*97.7*	*72.4-125*	0			
Surr: Dibromofluoromethane	*1027*	100	*1000*	0	*103*	*71.2-125*	0			
Surr: Toluene-d8	*1037*	100	*1000*	0	*104*	*75-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **R77009** Instrument ID **VOA1** Method: **SW1311/8260**

LCS Sample ID: **VLCSW-051909-R77009** Units: **µg/L** Analysis Date: **5/19/2009 11:03 AM**
Client ID: Run ID: **VOA1_090519A** SeqNo: **1673535** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.06	5.0	50	0	108	73-124	0			
1,2-Dichloroethane	52.33	5.0	50	0	105	76-120	0			
1,4-Dichlorobenzene	52.97	5.0	50	0	106	70-130	0			
2-Butanone	98.35	10	100	0	98.3	70-130	0			
Benzene	50.95	5.0	50	0	102	70-128	0			
Carbon tetrachloride	54.95	5.0	50	0	110	70-130	0			
Chlorobenzene	52.6	5.0	50	0	105	72-127	0			
Chloroform	50.84	5.0	50	0	102	70-130	0			
Tetrachloroethene	52.36	5.0	50	0	105	70-130	0			
Trichloroethene	49.93	5.0	50	0	99.9	72-129	0			
Vinyl chloride	56.06	5.0	50	0	112	70-130	0			
Surr: 1,2-Dichloroethane-d4	*50.32*	5.0	*50*	0	*101*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*52.97*	5.0	*50*	0	*106*	*72-125*	0			
Surr: Dibromofluoromethane	*51.84*	5.0	*50*	0	*104*	*71-125*	0			
Surr: Toluene-d8	*52.99*	5.0	*50*	0	*106*	*75-125*	0			

MS Sample ID: **0905361-01AMS** Units: **µg/L** Analysis Date: **5/19/2009 01:34 PM**
Client ID: Run ID: **VOA1_090519A** SeqNo: **1673545** Prep Date: **5/18/2009** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1000	100	1000	0	100	73-124	0			
1,2-Dichloroethane	1092	100	1000	0	109	76-120	0			
1,4-Dichlorobenzene	1051	100	1000	0	105	70-130	0			
2-Butanone	2073	200	2000	0	104	70-130	0			
Benzene	1022	100	1000	9.337	101	70-128	0			
Carbon tetrachloride	1033	100	1000	0	103	70-130	0			
Chlorobenzene	1031	100	1000	0	103	72-127	0			
Chloroform	1075	100	1000	0	107	70-130	0			
Tetrachloroethene	1028	100	1000	0	103	70-130	0			
Trichloroethene	979.9	100	1000	0	98	72-129	0			
Vinyl chloride	1097	100	1000	0	110	70-130	0			
Surr: 1,2-Dichloroethane-d4	*1004*	100	*1000*	0	*100*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*1122*	100	*1000*	0	*112*	*72-125*	0			
Surr: Dibromofluoromethane	*1038*	100	*1000*	0	*104*	*71-125*	0			
Surr: Toluene-d8	*1098*	100	*1000*	0	*110*	*75-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **R77009** Instrument ID **VOA1** Method: **SW1311/8260**

MSD Sample ID: **0905361-01AMSD** Units: **µg/L** Analysis Date: **5/19/2009 01:59 PM**

Client ID: Run ID: **VOA1_090519A** SeqNo: **1673547** Prep Date: **5/18/2009** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	932.9	100	1000	0	93.3	73-124	1000	6.95	20	
1,2-Dichloroethane	1095	100	1000	0	109	76-120	1092	0.255	20	
1,4-Dichlorobenzene	983.2	100	1000	0	98.3	70-130	1051	6.63	20	
2-Butanone	2272	200	2000	0	114	70-130	2073	9.15	20	
Benzene	995.5	100	1000	9.337	98.6	70-128	1022	2.67	20	
Carbon tetrachloride	909.5	100	1000	0	90.9	70-130	1033	12.7	20	
Chlorobenzene	993.7	100	1000	0	99.4	72-127	1031	3.7	20	
Chloroform	1044	100	1000	0	104	70-130	1075	2.9	20	
Tetrachloroethene	931.6	100	1000	0	93.2	70-130	1028	9.88	20	
Trichloroethene	970.1	100	1000	0	97	72-129	979.9	1.01	20	
Vinyl chloride	990.6	100	1000	0	99.1	70-130	1097	10.2	20	
Surr: 1,2-Dichloroethane-d4	*1043*	100	*1000*	0	*104*	*70-125*	1004	*3.83*	*20*	
Surr: 4-Bromofluorobenzene	*992.6*	100	*1000*	0	*99.3*	*72-125*	1122	*12.2*	*20*	
Surr: Dibromofluoromethane	*1021*	100	*1000*	0	*102*	*71-125*	1038	*1.61*	*20*	
Surr: Toluene-d8	*1027*	100	*1000*	0	*103*	*75-125*	1098	*6.69*	*20*	

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **R77097** Instrument ID **VOA1** Method: **SW8260**

MBLK Sample ID: **VBLKM-052009-R77097** Units: **µg/Kg** Analysis Date: **5/20/2009 10:50 AM**
Client ID: Run ID: **VOA1_090520D** SeqNo: **1675445** Prep Date: DF: **125**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	620								
Surr: 1,2-Dichloroethane-d4	*5826*	0	*6250*	0	*93.2*	*70-128*	0			
Surr: 4-Bromofluorobenzene	*6320*	0	*6250*	0	*101*	*73-126*	0			
Surr: Dibromofluoromethane	*6186*	0	*6250*	0	*99*	*71-128*	0			
Surr: Toluene-d8	*6546*	0	*6250*	0	*105*	*73-127*	0			

LCS Sample ID: **VLCSW-052009-R77097** Units: **µg/L** Analysis Date: **5/20/2009 10:25 AM**
Client ID: Run ID: **VOA1_090520D** SeqNo: **1675437** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.78	5.0	50	0	102	73-121	0			
Surr: 1,2-Dichloroethane-d4	*51.4*	5.0	*50*	0	*103*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*53.2*	5.0	*50*	0	*106*	*72-125*	0			
Surr: Dibromofluoromethane	*52.09*	5.0	*50*	0	*104*	*71-125*	0			
Surr: Toluene-d8	*53.08*	5.0	*50*	0	*106*	*75-125*	0			

MS Sample ID: **0905423-02AMS** Units: **µg/Kg** Analysis Date: **5/20/2009 01:45 PM**
Client ID: Run ID: **VOA1_090520D** SeqNo: **1675447** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.25	5.0	50	0	96.5	79-120	0			
Surr: 1,2-Dichloroethane-d4	*52.3*	0	*50*	0	*105*	*70-128*	0			
Surr: 4-Bromofluorobenzene	*53.62*	0	*50*	0	*107*	*73-126*	0			
Surr: Dibromofluoromethane	*52.47*	0	*50*	0	*105*	*71-128*	0			
Surr: Toluene-d8	*52.49*	0	*50*	0	*105*	*73-127*	0			

MSD Sample ID: **0905423-02AMSD** Units: **µg/Kg** Analysis Date: **5/20/2009 02:10 PM**
Client ID: Run ID: **VOA1_090520D** SeqNo: **1675448** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.39	5.0	50	0	96.8	79-120	48.25	0.297	30	
Surr: 1,2-Dichloroethane-d4	*53.76*	0	*50*	0	*108*	*70-128*	52.3	*2.74*	*30*	
Surr: 4-Bromofluorobenzene	*50.81*	0	*50*	0	*102*	*73-126*	53.62	*5.38*	*30*	
Surr: Dibromofluoromethane	*52.99*	0	*50*	0	*106*	*71-128*	52.47	*0.979*	*30*	
Surr: Toluene-d8	*52.41*	0	*50*	0	*105*	*73-127*	52.49	*0.159*	*30*	

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **R77077** Instrument ID **WetChem** Method: **SW9045B**

LCS Sample ID: **WLCSW1-051909-R77077** Units: **pH Units** Analysis Date: **5/19/2009 03:00 PM**
Client ID: Run ID: **WETCHEM_090519G** SeqNo: **1675084** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.94	0.10	6	0	99	90-110	0			

DUP Sample ID: **0905384-01adup** Units: **pH Units** Analysis Date: **5/19/2009 03:00 PM**
Client ID: Run ID: **WETCHEM_090519G** SeqNo: **1675113** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.02	0.10	0	0	0	0-0	7.95	0.877	20	

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0905200
Project: PG Spill

QC BATCH REPORT

Batch ID: **R77094** Instrument ID **WetChem** Method: **SW1030**

DUP Sample ID: **0905200-01adup** Units: **no unit** Analysis Date: **5/20/2009 12:00 PM**

Client ID: **PG Spill** Run ID: **WETCHEM_090520I** SeqNo: **1675391** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability, Solid	ND	0	0	0	0		0	0		

The following samples were analyzed in this batch: 0905200-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Date: 26-May-09

Client: Navajo Refining Company
Project: PG Spill
WorkOrder: 0905200

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
no unit	
pH Units	

ALS Laboratory Group

Date: 14-May-09

Client: ALS Laboratory Group
Project: 0905200
Work Order: **0905194**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0905194-01	0905200-01B	Organic		5/8/2009 15:00	5/12/2009 09:00	☐

ALS Laboratory Group

Date: *14-May-09*

Client: ALS Laboratory Group
Project: 0905200
Work Order: 0905194
Sample ID: 0905200-01B
Lab ID: 0905194-01
Collection Date: 5/8/2009 03:00 PM
Matrix: ORGANIC

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE			**SW7.3.3.2**		Prep Date: **5/13/2009**	Analyst: **DB**
Cyanide, Reactive	ND		40.0	mg/Kg	1	5/13/2009
SULFIDE, REACTIVE			**SW7.3.4.2**		Prep Date: **5/13/2009**	Analyst: **DB**
Sulfide, Reactive	**60.8**		**40.0**	**mg/Kg**	1	5/13/2009

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Client: ALS Laboratory Group
Work Order: 0905194
Project: 0905200

Date: *14-May-09*

QC BATCH REPORT

Batch ID: **R67874** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

MBLK Sample ID: **WBLKS1-051109-R67874** Units: **mg/Kg** Analysis Date: **5/11/2009**
Client ID: Run ID: **WETCHEM_090511F** SeqNo: **1145203** Prep Date: **5/11/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

LCS Sample ID: **WLCSS1-051109-R67874** Units: **mg/Kg** Analysis Date: **5/11/2009**
Client ID: Run ID: **WETCHEM_090511F** SeqNo: **1145204** Prep Date: **5/11/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	75-125	0			

LCSD Sample ID: **WLCSDS1-051109-R67874** Units: **mg/Kg** Analysis Date: **5/11/2009**
Client ID: Run ID: **WETCHEM_090511F** SeqNo: **1145209** Prep Date: **5/11/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	75-125	234.9	0	35	

MS Sample ID: **0905096-01A MS** Units: **mg/Kg** Analysis Date: **5/11/2009**
Client ID: Run ID: **WETCHEM_090511F** SeqNo: **1145206** Prep Date: **5/11/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	50-150	0			

MSD Sample ID: **0905096-01A MSD** Units: **mg/Kg** Analysis Date: **5/11/2009**
Client ID: Run ID: **WETCHEM_090511F** SeqNo: **1145207** Prep Date: **5/11/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	50-150	234.9	0	35	

The following samples were analyzed in this batch: 0905194-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: ALS Laboratory Group
Work Order: 0905194
Project: 0905200

QC BATCH REPORT

Batch ID: **R67876** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

MBLK Sample ID: **WBLKS1-051109-R67876** Units: **mg/Kg** Analysis Date: **5/11/2009**

Client ID: Run ID: **WETCHEM_090511G** SeqNo: **1145210** Prep Date: **5/11/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch: 0905194-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

0905194

Subcontractor:
ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424
TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #:

CHAIN-OF-CUSTODY RECORD

Date: 11-May-09
COC ID: 7671
Due Date 21-May-09

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	0905200	A Reactive Cyanide (SW-846)
Work Order		Project Number		B Reactive Sulfide (SW-846)
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp.	C
Send Report To	JayLynn F Thibault	Inv Attn	Accounts Payable	D
Address	10450 Stancliff Rd, Suite 210	Address	10450 Stancliff Rd, Suite 210	E
				F
City/State/Zip	Houston, Texas 77099-4338	City/State/Zip	Houston, Texas 77099-4338	G
Phone	(281) 530-5656	Phone	(281) 530-5656	H
Fax	(281) 530-5887	Fax	(281) 530-5887	I
eMail Address	jaylynn.thibault@alsenviro.com	eMail CC	glenda.ramos@alsenviro.com	J

Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
0905200-01B (PG Spill)	Organic	5/8/2009 15:00	(1) 4OZGNEAT	X	X								

Comments:

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report QC Level
					Std
Relinquished by:	Date/Time	Received by:	Date/Time		
	5-11-09	Katie Bair	5/12/09 9:00		

ALS Laboratory Group

Sample Receipt Checklist

Client Name ELAB-HOU

Date/Time Received: 5/12/2009 09:00

Work Order Number 0905194

Received by: ARB

Checklist completed by _____ 5/12/09
Signature Date

Reviewed by _____ 5/12/09
Initials Date

Matrix: organic

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2 C		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑

Adjusted? No Checked by _____

Login Notes:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

FedEx. PRIORITY OVERNIGHT

Emp# 405061 02:04 12MAY09

TRK# 6749 3962 7521 FORM 0201

TUE

Deliver By: 12MAY09

49424 -MI-US GRR

NT HLMA

ORIGIN ID: JGQA (281) 530-5656
SHIPPING
ALS LABORATORY GROUP
10450 STANCLIFF
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

Ship Date: 11MAY09
ActWgt: ~~40.0~~ LB
System#: 3001307/CAFE2361
Account: S *********

(616) 399-6070

TO RECEIVING
ALS LABORATORY
3352 128TH AVE.

HOLLAND, MI 49424

FedEx Express

CLS058107/22/23

Ref: Subcontract

Delivery Address Barcode

BILL SENDER

PRIORITY OVERNIGHT

TUE

Deliver By: 12MAY09

TRK# 6749 3962 7521 Form 0201

GRR AA

49424 -MI-US

NT HLMA

Seal Broken By:

Date: 5/12/09

CUSTODY SEAL

Time: 1600

Date: 5/11/09

Name: T. Sanchez

Company: ALS Laboratory Group

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

ALS

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

23-Jun-2009

Darrell Moore
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 746-5281
Fax: (505) 746-5421

Re: Navajo PG Loading Rack

Work Order: **0906137**

Dear Darrell,

ALS Laboratory Group received 42 samples on 04-Jun-2009 09:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 71.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-08-TX

ALS Laboratory Group

Date: 23-Jun-09

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0906137-01	AH#1 2-1/2'	Soil		6/1/2009 10:49	6/4/2009 09:20	☐
0906137-02	AH#2 2-1/2'	Soil		6/1/2009 10:45	6/4/2009 09:20	☐
0906137-03	AH#3 2-1/2'	Soil		6/1/2009 11:20	6/4/2009 09:20	☐
0906137-04	AH#4 2-1/2'	Soil		6/1/2009 12:05	6/4/2009 09:20	☐
0906137-05	AH#5 2-1/2'	Soil		6/1/2009 11:58	6/4/2009 09:20	☐
0906137-06	AH#6 2-1/2'	Soil		6/1/2009 12:20	6/4/2009 09:20	☐
0906137-07	AH#7 2-1/2'	Soil		6/1/2009 12:20	6/4/2009 09:20	☐
0906137-08	AH#8 2-1/2'	Soil		6/1/2009 12:40	6/4/2009 09:20	☐
0906137-09	AH#9 2-1/2'	Soil		6/1/2009 12:38	6/4/2009 09:20	☐
0906137-10	AH#10 2-1/2'	Soil		6/1/2009 13:05	6/4/2009 09:20	☐
0906137-11	AH#11 2-1/2'	Soil		6/1/2009 13:14	6/4/2009 09:20	☐
0906137-12	AH#12 2-1/2'	Soil		6/1/2009 13:25	6/4/2009 09:20	☐
0906137-13	AH#13 2-1/2'	Soil		6/1/2009 13:37	6/4/2009 09:20	☐
0906137-14	AH#14 2-1/2'	Soil		6/1/2009 13:45	6/4/2009 09:20	☐
0906137-15	AH#15 2-1/2'	Soil		6/1/2009 14:00	6/4/2009 09:20	☐
0906137-16	AH#16 2-1/2'	Soil		6/1/2009 14:00	6/4/2009 09:20	☐
0906137-17	AH#17 2-1/2'	Soil		6/1/2009 14:31	6/4/2009 09:20	☐
0906137-18	AH#18 2-1/2'	Soil		6/1/2009 14:30	6/4/2009 09:20	☐
0906137-19	AH#19 2-1/2'	Soil		6/2/2009 08:03	6/4/2009 09:20	☐
0906137-20	AH#20 2-1/2'	Soil		6/2/2009 08:00	6/4/2009 09:20	☐
0906137-21	AH#21 2-1/2'	Soil		6/2/2009 08:22	6/4/2009 09:20	☐
0906137-22	AH#22 2-1/2'	Soil		6/2/2009 08:20	6/4/2009 09:20	☐
0906137-23	AH#23 2-1/2'	Soil		6/2/2009 08:34	6/4/2009 09:20	☐
0906137-24	AH#24 2-1/2'	Soil		6/2/2009 08:48	6/4/2009 09:20	☐
0906137-25	AH#25 2-1/2'	Soil		6/2/2009 08:30	6/4/2009 09:20	☐
0906137-26	AH#26 2-1/2'	Soil		6/2/2009 08:45	6/4/2009 09:20	☐
0906137-27	AH#27 2-1/2'	Soil		6/2/2009 09:14	6/4/2009 09:20	☐
0906137-28	AH#29 2-1/2'	Soil		6/2/2009 09:38	6/4/2009 09:20	☐
0906137-29	AH#30 2-1/2'	Soil		6/2/2009 09:40	6/4/2009 09:20	☐
0906137-30	AH#31 2-1/2'	Soil		6/2/2009 09:58	6/4/2009 09:20	☐
0906137-31	AH#32 2-1/2'	Soil		6/2/2009 09:50	6/4/2009 09:20	☐
0906137-32	AH#33 2-1/2'	Soil		6/2/2009 10:10	6/4/2009 09:20	☐
0906137-33	AH#34 2-1/2'	Soil		6/2/2009 10:21	6/4/2009 09:20	☐
0906137-34	AH#35 2-1/2'	Soil		6/2/2009 10:25	6/4/2009 09:20	☐
0906137-35	AH#36 2-1/2'	Soil		6/2/2009 10:32	6/4/2009 09:20	☐
0906137-36	AH#37 2-1/2'	Soil		6/2/2009 10:37	6/4/2009 09:20	☐
0906137-37	AH#38 2-1/2'	Soil		6/2/2009 10:55	6/4/2009 09:20	☐
0906137-38	AH#39 2-1/2'	Soil		6/2/2009 11:00	6/4/2009 09:20	☐
0906137-39	AH#40 2-1/2'	Soil		6/2/2009 11:25	6/4/2009 09:20	☐
0906137-40	AH#41 2-1/2'	Soil		6/2/2009 12:06	6/4/2009 09:20	☐

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0906137-41	AH#42 2-1/2'	Soil		6/2/2009 12:28	6/4/2009 09:20	☐
0906137-42	Trip Blank	Water		6/2/2009 12:28	6/4/2009 09:20	☐

ALS Laboratory Group *Date: 23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137

Case Narrative

Semivolatiles (sample 0906137-40) recovery out of control limits for surrogate due to diution.

Batch 36441 Semivolatiles (sample 0906137-01) MS/MSD recovery out of control limits for a few compounds.

Batch 36462 Semivolatiles (sample 0905637-01) MS/MSD unrelated sample.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#1 2-1/2'
Collection Date: 6/1/2009 10:49 AM

Work Order: 0906137
Lab ID: 0906137-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/11/2009 01:32 PM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/11/2009 01:32 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/11/2009 01:32 PM
Surr: 2-Fluorobiphenyl	*124*		*70-130*	*%REC*	1	6/11/2009 01:32 PM
Surr: Trifluoromethyl benzene	*110*		*70-130*	*%REC*	1	6/11/2009 01:32 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.11**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/11/2009 10:43 PM
Anthracene	**0.11**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Benz(a)anthracene	**0.13**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Benzo(a)pyrene	**0.12**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Benzo(b)fluoranthene	**0.062**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Benzo(g,h,i)perylene	**0.053**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Benzo(k)fluoranthene	**0.0089**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Chrysene	**0.22**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Dibenz(a,h)anthracene	**0.029**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Fluoranthene	**0.055**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Fluorene	**0.25**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/11/2009 10:43 PM
Naphthalene	**0.41**		**0.033**	**mg/Kg**	5	6/18/2009 06:55 PM
Phenanthrene	**0.87**		**0.033**	**mg/Kg**	5	6/18/2009 06:55 PM
Pyrene	**0.23**		**0.0066**	**mg/Kg**	1	6/11/2009 10:43 PM
Surr: 2-Fluorobiphenyl	*74.0*		*43-125*	*%REC*	1	6/11/2009 10:43 PM
Surr: 2-Fluorobiphenyl	*78.7*		*43-125*	*%REC*	5	6/18/2009 06:55 PM
Surr: 4-Terphenyl-d14	*99.3*		*32-125*	*%REC*	1	6/11/2009 10:43 PM
Surr: 4-Terphenyl-d14	*85.7*		*32-125*	*%REC*	5	6/18/2009 06:55 PM
Surr: Nitrobenzene-d5	*73.1*		*37-125*	*%REC*	5	6/18/2009 06:55 PM
Surr: Nitrobenzene-d5	*82.4*		*37-125*	*%REC*	1	6/11/2009 10:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-09

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#2 2-1/2'
Collection Date: 6/1/2009 10:45 AM

Work Order: 0906137
Lab ID: 0906137-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 03:24 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 03:24 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/11/2009 03:24 PM
Surr: 2-Fluorobiphenyl	*128*		*70-130*	*%REC*	1	6/11/2009 03:24 PM
Surr: Trifluoromethyl benzene	*127*		*70-130*	*%REC*	1	6/11/2009 03:24 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Anthracene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Chrysene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Fluorene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Phenanthrene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Pyrene	ND		0.0066	mg/Kg	1	6/12/2009 07:57 PM
Surr: 2-Fluorobiphenyl	*63.3*		*43-125*	*%REC*	1	6/12/2009 07:57 PM
Surr: 4-Terphenyl-d14	*79.3*		*32-125*	*%REC*	1	6/12/2009 07:57 PM
Surr: Nitrobenzene-d5	*61.8*		*37-125*	*%REC*	1	6/12/2009 07:57 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-09

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#3 2-1/2'
Collection Date: 6/1/2009 11:20 AM

Work Order: 0906137
Lab ID: 0906137-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/11/2009 04:01 PM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/11/2009 04:01 PM
TPH (Motor Oil Range)	ND		100	mg/Kg	1	6/11/2009 04:01 PM
Surr: 2-Fluorobiphenyl	*126*		*70-130*	*%REC*	1	6/11/2009 04:01 PM
Surr: Trifluoromethyl benzene	*114*		*70-130*	*%REC*	1	6/11/2009 04:01 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Anthracene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Chrysene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Fluorene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Phenanthrene	**0.014**		**0.0066**	**mg/Kg**	1	6/12/2009 08:18 PM
Pyrene	ND		0.0066	mg/Kg	1	6/12/2009 08:18 PM
Surr: 2-Fluorobiphenyl	*83.4*		*43-125*	*%REC*	1	6/12/2009 08:18 PM
Surr: 4-Terphenyl-d14	*85.4*		*32-125*	*%REC*	1	6/12/2009 08:18 PM
Surr: Nitrobenzene-d5	*75.5*		*37-125*	*%REC*	1	6/12/2009 08:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#4 2-1/2'
Collection Date: 6/1/2009 12:05 PM

Work Order: 0906137
Lab ID: 0906137-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 04:39 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 04:39 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/11/2009 04:39 PM
Surr: 2-Fluorobiphenyl	*125*		*70-130*	*%REC*	1	6/11/2009 04:39 PM
Surr: Trifluoromethyl benzene	*113*		*70-130*	*%REC*	1	6/11/2009 04:39 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Anthracene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Chrysene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Fluorene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Phenanthrene	**0.013**		**0.0066**	**mg/Kg**	1	6/12/2009 08:39 PM
Pyrene	ND		0.0066	mg/Kg	1	6/12/2009 08:39 PM
Surr: 2-Fluorobiphenyl	*79.6*		*43-125*	*%REC*	1	6/12/2009 08:39 PM
Surr: 4-Terphenyl-d14	*86.0*		*32-125*	*%REC*	1	6/12/2009 08:39 PM
Surr: Nitrobenzene-d5	*75.8*		*37-125*	*%REC*	1	6/12/2009 08:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#5 2-1/2'
Collection Date: 6/1/2009 11:58 AM

Work Order: 0906137
Lab ID: 0906137-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 05:17 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 05:17 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/11/2009 05:17 PM
Surr: 2-Fluorobiphenyl	*130*		*70-130*	*%REC*	1	6/11/2009 05:17 PM
Surr: Trifluoromethyl benzene	*126*		*70-130*	*%REC*	1	6/11/2009 05:17 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		*0.0066*	*mg/Kg*	1	6/12/2009 09:00 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 09:00 PM
Anthracene	**0.0072**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Benz(a)anthracene	**0.031**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Benzo(a)pyrene	**0.037**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Benzo(b)fluoranthene	**0.049**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Benzo(g,h,i)perylene	**0.033**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Benzo(k)fluoranthene	**0.017**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Chrysene	**0.044**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Dibenz(a,h)anthracene	**0.011**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Fluoranthene	**0.018**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Fluorene	**0.012**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Indeno(1,2,3-cd)pyrene	**0.030**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Naphthalene	**0.0078**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Phenanthrene	**0.060**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Pyrene	**0.030**		**0.0066**	**mg/Kg**	1	6/12/2009 09:00 PM
Surr: 2-Fluorobiphenyl	*59.3*		*43-125*	*%REC*	1	6/12/2009 09:00 PM
Surr: 4-Terphenyl-d14	*77.0*		*32-125*	*%REC*	1	6/12/2009 09:00 PM
Surr: Nitrobenzene-d5	*58.8*		*37-125*	*%REC*	1	6/12/2009 09:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#6 2-1/2'
Lab ID: 0906137-06
Collection Date: 6/1/2009 12:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 05:54 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 05:54 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/11/2009 05:54 PM
Surr: 2-Fluorobiphenyl	*124*		*70-130*	*%REC*	1	6/11/2009 05:54 PM
Surr: Trifluoromethyl benzene	*114*		*70-130*	*%REC*	1	6/11/2009 05:54 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Anthracene	**0.0073**		**0.0066**	**mg/Kg**	1	6/12/2009 09:22 PM
Benz(a)anthracene	**0.0069**		**0.0066**	**mg/Kg**	1	6/12/2009 09:22 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Chrysene	**0.016**		**0.0066**	**mg/Kg**	1	6/12/2009 09:22 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Fluorene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/12/2009 09:22 PM
Phenanthrene	**0.039**		**0.0066**	**mg/Kg**	1	6/12/2009 09:22 PM
Pyrene	**0.014**		**0.0066**	**mg/Kg**	1	6/12/2009 09:22 PM
Surr: 2-Fluorobiphenyl	*75.6*		*43-125*	*%REC*	1	6/12/2009 09:22 PM
Surr: 4-Terphenyl-d14	*83.7*		*32-125*	*%REC*	1	6/12/2009 09:22 PM
Surr: Nitrobenzene-d5	*83.1*		*37-125*	*%REC*	1	6/12/2009 09:22 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#7 2-1/2'
Lab ID: 0906137-07
Collection Date: 6/1/2009 12:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 05:28 PM
TPH (Diesel Range)	**200**		**50**	**mg/Kg**	1	6/12/2009 05:28 PM
TPH (Motor Oil Range)	**100**		**99**	**mg/Kg**	1	6/12/2009 05:28 PM
Surr: 2-Fluorobiphenyl	*127*		*70-130*	*%REC*	1	6/12/2009 05:28 PM
Surr: Trifluoromethyl benzene	*113*		*70-130*	*%REC*	1	6/12/2009 05:28 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.060**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 09:43 PM
Anthracene	**0.052**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Benz(a)anthracene	**0.053**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Benzo(a)pyrene	**0.048**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Benzo(b)fluoranthene	**0.029**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Benzo(g,h,i)perylene	**0.020**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 09:43 PM
Chrysene	**0.12**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Dibenz(a,h)anthracene	**0.010**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Fluoranthene	**0.037**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Fluorene	**0.12**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 09:43 PM
Naphthalene	**0.19**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Phenanthrene	**0.46**		**0.026**	**mg/Kg**	4	6/18/2009 06:12 PM
Pyrene	**0.12**		**0.0066**	**mg/Kg**	1	6/12/2009 09:43 PM
Surr: 2-Fluorobiphenyl	*70.5*		*43-125*	*%REC*	1	6/12/2009 09:43 PM
Surr: 2-Fluorobiphenyl	*82.6*		*43-125*	*%REC*	4	6/18/2009 06:12 PM
Surr: 4-Terphenyl-d14	*86.7*		*32-125*	*%REC*	1	6/12/2009 09:43 PM
Surr: 4-Terphenyl-d14	*78.6*		*32-125*	*%REC*	4	6/18/2009 06:12 PM
Surr: Nitrobenzene-d5	*74.9*		*37-125*	*%REC*	4	6/18/2009 06:12 PM
Surr: Nitrobenzene-d5	*74.7*		*37-125*	*%REC*	1	6/12/2009 09:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#8 2-1/2'
Lab ID: 0906137-08
Collection Date: 6/1/2009 12:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 06:04 PM
TPH (Diesel Range)	**140**		**50**	**mg/Kg**	1	6/12/2009 06:04 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/12/2009 06:04 PM
Surr: 2-Fluorobiphenyl	*117*		*70-130*	*%REC*	1	6/12/2009 06:04 PM
Surr: Trifluoromethyl benzene	*101*		*70-130*	*%REC*	1	6/12/2009 06:04 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Anthracene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Benz(a)anthracene	**0.0089**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Benzo(a)pyrene	**0.0080**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Chrysene	**0.018**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Fluorene	**0.0098**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 10:04 PM
Naphthalene	**0.015**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Phenanthrene	**0.039**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Pyrene	**0.011**		**0.0066**	**mg/Kg**	1	6/12/2009 10:04 PM
Surr: 2-Fluorobiphenyl	*72.6*		*43-125*	*%REC*	1	6/12/2009 10:04 PM
Surr: 4-Terphenyl-d14	*80.1*		*32-125*	*%REC*	1	6/12/2009 10:04 PM
Surr: Nitrobenzene-d5	*65.3*		*37-125*	*%REC*	1	6/12/2009 10:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#9 2-1/2'
Lab ID: 0906137-09
Collection Date: 6/1/2009 12:38 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 06:31 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 06:31 PM
TPH (Motor Oil Range)	ND		97	mg/Kg	1	6/11/2009 06:31 PM
Surr: 2-Fluorobiphenyl	*123*		*70-130*	*%REC*	1	6/11/2009 06:31 PM
Surr: Trifluoromethyl benzene	*112*		*70-130*	*%REC*	1	6/11/2009 06:31 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.050**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/13/2009 01:35 AM
Anthracene	**0.051**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Benz(a)anthracene	**0.052**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Benzo(a)pyrene	**0.042**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Benzo(b)fluoranthene	**0.022**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/13/2009 01:35 AM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/13/2009 01:35 AM
Chrysene	**0.11**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Dibenz(a,h)anthracene	**0.014**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Fluoranthene	**0.041**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Fluorene	**0.097**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Indeno(1,2,3-cd)pyrene	**0.010**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Naphthalene	**0.043**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Phenanthrene	**0.47**		**0.026**	**mg/Kg**	4	6/18/2009 07:17 PM
Pyrene	**0.14**		**0.0066**	**mg/Kg**	1	6/13/2009 01:35 AM
Surr: 2-Fluorobiphenyl	*69.8*		*43-125*	*%REC*	1	6/13/2009 01:35 AM
Surr: 2-Fluorobiphenyl	*90.2*		*43-125*	*%REC*	4	6/18/2009 07:17 PM
Surr: 4-Terphenyl-d14	*85.8*		*32-125*	*%REC*	1	6/13/2009 01:35 AM
Surr: 4-Terphenyl-d14	*97.7*		*32-125*	*%REC*	4	6/18/2009 07:17 PM
Surr: Nitrobenzene-d5	*74.4*		*37-125*	*%REC*	4	6/18/2009 07:17 PM
Surr: Nitrobenzene-d5	*58.7*		*37-125*	*%REC*	1	6/13/2009 01:35 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#10 2-1/2'
Collection Date: 6/1/2009 01:05 PM

Work Order: 0906137
Lab ID: 0906137-10
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 06:40 PM
TPH (Diesel Range)	**240**		**49**	**mg/Kg**	1	6/12/2009 06:40 PM
TPH (Motor Oil Range)	**150**		**98**	**mg/Kg**	1	6/12/2009 06:40 PM
Surr: 2-Fluorobiphenyl	*129*		*70-130*	*%REC*	1	6/12/2009 06:40 PM
Surr: Trifluoromethyl benzene	*113*		*70-130*	*%REC*	1	6/12/2009 06:40 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.089**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/13/2009 01:56 AM
Anthracene	**0.079**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Benz(a)anthracene	**0.093**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Benzo(a)pyrene	**0.081**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Benzo(b)fluoranthene	**0.039**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Benzo(g,h,i)perylene	**0.028**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Benzo(k)fluoranthene	**0.015**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Chrysene	**0.18**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/13/2009 01:56 AM
Fluoranthene	**0.053**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Fluorene	**0.16**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Indeno(1,2,3-cd)pyrene	**0.011**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Naphthalene	**0.43**		**0.033**	**mg/Kg**	5	6/18/2009 07:38 PM
Phenanthrene	**0.87**		**0.033**	**mg/Kg**	5	6/18/2009 07:38 PM
Pyrene	**0.22**		**0.0066**	**mg/Kg**	1	6/13/2009 01:56 AM
Surr: 2-Fluorobiphenyl	*55.3*		*43-125*	*%REC*	1	6/13/2009 01:56 AM
Surr: 2-Fluorobiphenyl	*93.2*		*43-125*	*%REC*	5	6/18/2009 07:38 PM
Surr: 4-Terphenyl-d14	*83.3*		*32-125*	*%REC*	1	6/13/2009 01:56 AM
Surr: 4-Terphenyl-d14	*105*		*32-125*	*%REC*	5	6/18/2009 07:38 PM
Surr: Nitrobenzene-d5	*66.1*		*37-125*	*%REC*	5	6/18/2009 07:38 PM
Surr: Nitrobenzene-d5	*54.1*		*37-125*	*%REC*	1	6/13/2009 01:56 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#11 2-1/2'
Lab ID: 0906137-11
Collection Date: 6/1/2009 01:14 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 07:07 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 07:07 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/11/2009 07:07 PM
Surr: 2-Fluorobiphenyl	*121*		*70-130*	*%REC*	1	6/11/2009 07:07 PM
Surr: Trifluoromethyl benzene	*110*		*70-130*	*%REC*	1	6/11/2009 07:07 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Anthracene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Chrysene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Fluorene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Phenanthrene	**0.016**		**0.0066**	**mg/Kg**	1	6/12/2009 10:25 PM
Pyrene	ND		0.0066	mg/Kg	1	6/12/2009 10:25 PM
Surr: 2-Fluorobiphenyl	*55.3*		*43-125*	*%REC*	1	6/12/2009 10:25 PM
Surr: 4-Terphenyl-d14	*73.3*		*32-125*	*%REC*	1	6/12/2009 10:25 PM
Surr: Nitrobenzene-d5	*55.2*		*37-125*	*%REC*	1	6/12/2009 10:25 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#12 2-1/2'
Lab ID: 0906137-12
Collection Date: 6/1/2009 01:25 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 07:15 PM
TPH (Diesel Range)	**560**		**49**	**mg/Kg**	1	6/12/2009 07:15 PM
TPH (Motor Oil Range)	**340**		**98**	**mg/Kg**	1	6/12/2009 07:15 PM
Surr: 2-Fluorobiphenyl	*128*		*70-130*	*%REC*	1	6/12/2009 07:15 PM
Surr: Trifluoromethyl benzene	*99.2*		*70-130*	*%REC*	1	6/12/2009 07:15 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.15**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 10:46 PM
Anthracene	**0.25**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Benz(a)anthracene	**0.24**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Benzo(a)pyrene	**0.24**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Benzo(b)fluoranthene	**0.12**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Benzo(g,h,i)perylene	**0.085**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Benzo(k)fluoranthene	**0.020**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Chrysene	**0.60**		**0.13**	**mg/Kg**	20	6/18/2009 08:21 PM
Dibenz(a,h)anthracene	**0.050**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Fluoranthene	**0.14**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Fluorene	**0.66**		**0.13**	**mg/Kg**	20	6/18/2009 08:21 PM
Indeno(1,2,3-cd)pyrene	**0.052**		**0.0066**	**mg/Kg**	1	6/12/2009 10:46 PM
Naphthalene	**1.4**		**0.13**	**mg/Kg**	20	6/18/2009 08:21 PM
Phenanthrene	**2.0**		**0.13**	**mg/Kg**	20	6/18/2009 08:21 PM
Pyrene	**0.54**		**0.13**	**mg/Kg**	20	6/18/2009 08:21 PM
Surr: 2-Fluorobiphenyl	*47.3*		*43-125*	*%REC*	1	6/12/2009 10:46 PM
Surr: 2-Fluorobiphenyl	*97.8*		*43-125*	*%REC*	20	6/18/2009 08:21 PM
Surr: 4-Terphenyl-d14	*86.5*		*32-125*	*%REC*	1	6/12/2009 10:46 PM
Surr: 4-Terphenyl-d14	*104*		*32-125*	*%REC*	20	6/18/2009 08:21 PM
Surr: Nitrobenzene-d5	*85.2*		*37-125*	*%REC*	20	6/18/2009 08:21 PM
Surr: Nitrobenzene-d5	*63.7*		*37-125*	*%REC*	1	6/12/2009 10:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#13 2-1/2'
Collection Date: 6/1/2009 01:37 PM

Work Order: 0906137
Lab ID: 0906137-13
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 07:43 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 07:43 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/11/2009 07:43 PM
Surr: 2-Fluorobiphenyl	*121*		*70-130*	*%REC*	1	6/11/2009 07:43 PM
Surr: Trifluoromethyl benzene	*111*		*70-130*	*%REC*	1	6/11/2009 07:43 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.020**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 11:07 PM
Anthracene	**0.025**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Benz(a)anthracene	**0.043**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Benzo(a)pyrene	**0.013**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Benzo(b)fluoranthene	**0.0098**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Benzo(g,h,i)perylene	**0.0094**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 11:07 PM
Chrysene	**0.068**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 11:07 PM
Fluoranthene	**0.033**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Fluorene	**0.036**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 11:07 PM
Naphthalene	**0.015**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Phenanthrene	**0.23**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Pyrene	**0.12**		**0.0066**	**mg/Kg**	1	6/12/2009 11:07 PM
Surr: 2-Fluorobiphenyl	*75.4*		*43-125*	*%REC*	1	6/12/2009 11:07 PM
Surr: 4-Terphenyl-d14	*80.7*		*32-125*	*%REC*	1	6/12/2009 11:07 PM
Surr: Nitrobenzene-d5	*76.1*		*37-125*	*%REC*	1	6/12/2009 11:07 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-09

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#14 2-1/2'
Lab ID: 0906137-14
Collection Date: 6/1/2009 01:45 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/11/2009 09:30 PM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/11/2009 09:30 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/11/2009 09:30 PM
Surr: 2-Fluorobiphenyl	*119*		*70-130*	*%REC*	1	6/11/2009 09:30 PM
Surr: Trifluoromethyl benzene	*109*		*70-130*	*%REC*	1	6/11/2009 09:30 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Anthracene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Benzo(a)pyrene	**0.0066**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Benzo(g,h,i)perylene	**0.0067**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Chrysene	**0.017**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Fluorene	**0.011**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/12/2009 11:28 PM
Naphthalene	**0.0090**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Phenanthrene	**0.039**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Pyrene	**0.013**		**0.0066**	**mg/Kg**	1	6/12/2009 11:28 PM
Surr: 2-Fluorobiphenyl	*74.5*		*43-125*	*%REC*	1	6/12/2009 11:28 PM
Surr: 4-Terphenyl-d14	*82.6*		*32-125*	*%REC*	1	6/12/2009 11:28 PM
Surr: Nitrobenzene-d5	*74.4*		*37-125*	*%REC*	1	6/12/2009 11:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#15 2-1/2'
Lab ID: 0906137-15
Collection Date: 6/1/2009 02:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 07:51 PM
TPH (Diesel Range)	**130**		**50**	**mg/Kg**	1	6/12/2009 07:51 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/12/2009 07:51 PM
Surr: 2-Fluorobiphenyl	*125*		*70-130*	*%REC*	1	6/12/2009 07:51 PM
Surr: Trifluoromethyl benzene	*112*		*70-130*	*%REC*	1	6/12/2009 07:51 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.096**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/18/2009 05:46 AM
Anthracene	**0.10**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Benz(a)anthracene	**0.11**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Benzo(a)pyrene	**0.090**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Benzo(b)fluoranthene	**0.045**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Benzo(g,h,i)perylene	**0.029**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Benzo(k)fluoranthene	**0.011**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Chrysene	**0.20**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Dibenz(a,h)anthracene	**0.019**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Fluoranthene	**0.062**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Fluorene	**0.16**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Indeno(1,2,3-cd)pyrene	**0.021**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Naphthalene	**0.55**		**0.033**	**mg/Kg**	5	6/18/2009 06:08 AM
Phenanthrene	**0.96**		**0.033**	**mg/Kg**	5	6/18/2009 06:08 AM
Pyrene	**0.16**		**0.0066**	**mg/Kg**	1	6/18/2009 05:46 AM
Surr: 2-Fluorobiphenyl	*53.9*		*43-125*	*%REC*	1	6/18/2009 05:46 AM
Surr: 2-Fluorobiphenyl	*89.9*		*43-125*	*%REC*	5	6/18/2009 06:08 AM
Surr: 4-Terphenyl-d14	*64.2*		*32-125*	*%REC*	1	6/18/2009 05:46 AM
Surr: 4-Terphenyl-d14	*88.5*		*32-125*	*%REC*	5	6/18/2009 06:08 AM
Surr: Nitrobenzene-d5	*67.9*		*37-125*	*%REC*	5	6/18/2009 06:08 AM
Surr: Nitrobenzene-d5	*53.7*		*37-125*	*%REC*	1	6/18/2009 05:46 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#16 2-1/2'
Lab ID: 0906137-16
Collection Date: 6/1/2009 02:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/11/2009 10:05 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/11/2009 10:05 PM
TPH (Motor Oil Range)	ND		97	mg/Kg	1	6/11/2009 10:05 PM
Surr: 2-Fluorobiphenyl	*123*		*70-130*	*%REC*	1	6/11/2009 10:05 PM
Surr: Trifluoromethyl benzene	*110*		*70-130*	*%REC*	1	6/11/2009 10:05 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.030**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Anthracene	**0.018**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Benz(a)anthracene	**0.011**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Chrysene	**0.018**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Fluoranthene	**0.017**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Fluorene	**0.042**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/13/2009 12:10 AM
Naphthalene	**0.017**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Phenanthrene	**0.14**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Pyrene	**0.058**		**0.0066**	**mg/Kg**	1	6/13/2009 12:10 AM
Surr: 2-Fluorobiphenyl	*77.2*		*43-125*	*%REC*	1	6/13/2009 12:10 AM
Surr: 4-Terphenyl-d14	*80.4*		*32-125*	*%REC*	1	6/13/2009 12:10 AM
Surr: Nitrobenzene-d5	*68.1*		*37-125*	*%REC*	1	6/13/2009 12:10 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#17 2-1/2'
Lab ID: 0906137-17
Collection Date: 6/1/2009 02:31 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 08:26 PM
TPH (Diesel Range)	**55**		**50**	**mg/Kg**	1	6/12/2009 08:26 PM
TPH (Motor Oil Range)	ND		100	mg/Kg	1	6/12/2009 08:26 PM
Surr: 2-Fluorobiphenyl	*115*		*70-130*	*%REC*	1	6/12/2009 08:26 PM
Surr: Trifluoromethyl benzene	*104*		*70-130*	*%REC*	1	6/12/2009 08:26 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.044**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/13/2009 12:31 AM
Anthracene	**0.039**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Benz(a)anthracene	**0.049**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Benzo(a)pyrene	**0.049**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Benzo(b)fluoranthene	**0.027**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Benzo(g,h,i)perylene	**0.020**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Benzo(k)fluoranthene	**0.0091**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Chrysene	**0.11**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/13/2009 12:31 AM
Fluoranthene	**0.034**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Fluorene	**0.074**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Indeno(1,2,3-cd)pyrene	**0.0090**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Naphthalene	**0.083**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Phenanthrene	**0.30**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Pyrene	**0.088**		**0.0066**	**mg/Kg**	1	6/13/2009 12:31 AM
Surr: 2-Fluorobiphenyl	*65.1*		*43-125*	*%REC*	1	6/13/2009 12:31 AM
Surr: 4-Terphenyl-d14	*80.5*		*32-125*	*%REC*	1	6/13/2009 12:31 AM
Surr: Nitrobenzene-d5	*60.2*		*37-125*	*%REC*	1	6/13/2009 12:31 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#18 2-1/2'
Collection Date: 6/1/2009 02:30 PM

Work Order: 0906137
Lab ID: 0906137-18
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 09:02 PM
TPH (Diesel Range)	**69**		**50**	**mg/Kg**	1	6/12/2009 09:02 PM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/12/2009 09:02 PM
Surr: 2-Fluorobiphenyl	*128*		*70-130*	*%REC*	1	6/12/2009 09:02 PM
Surr: Trifluoromethyl benzene	*112*		*70-130*	*%REC*	1	6/12/2009 09:02 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/5/2009**	Analyst: **LG**
Acenaphthene	**0.12**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/13/2009 12:52 AM
Anthracene	**0.12**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Benz(a)anthracene	**0.12**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Benzo(a)pyrene	**0.088**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Benzo(b)fluoranthene	**0.047**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Benzo(g,h,i)perylene	**0.033**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Benzo(k)fluoranthene	**0.0096**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Chrysene	**0.24**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Dibenz(a,h)anthracene	**0.027**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Fluoranthene	**0.085**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Fluorene	**0.19**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Indeno(1,2,3-cd)pyrene	**0.016**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Naphthalene	**0.56**		**0.033**	**mg/Kg**	5	6/18/2009 06:29 AM
Phenanthrene	**1.1**		**0.033**	**mg/Kg**	5	6/18/2009 06:29 AM
Pyrene	**0.31**		**0.0066**	**mg/Kg**	1	6/13/2009 12:52 AM
Surr: 2-Fluorobiphenyl	*52.9*		*43-125*	*%REC*	1	6/13/2009 12:52 AM
Surr: 2-Fluorobiphenyl	*92.3*		*43-125*	*%REC*	5	6/18/2009 06:29 AM
Surr: 4-Terphenyl-d14	*92.8*		*32-125*	*%REC*	1	6/13/2009 12:52 AM
Surr: 4-Terphenyl-d14	*88.9*		*32-125*	*%REC*	5	6/18/2009 06:29 AM
Surr: Nitrobenzene-d5	*75.4*		*37-125*	*%REC*	5	6/18/2009 06:29 AM
Surr: Nitrobenzene-d5	*67.6*		*37-125*	*%REC*	1	6/13/2009 12:52 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#19 2-1/2'
Lab ID: 0906137-19
Collection Date: 6/2/2009 08:03 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 09:37 PM
TPH (Diesel Range)	**180**		**49**	**mg/Kg**	1	6/12/2009 09:37 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 09:37 PM
Surr: 2-Fluorobiphenyl	*119*		*70-130*	*%REC*	1	6/12/2009 09:37 PM
Surr: Trifluoromethyl benzene	*103*		*70-130*	*%REC*	1	6/12/2009 09:37 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Chrysene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Fluorene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Phenanthrene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Pyrene	ND		0.0066	mg/Kg	1	6/15/2009 02:01 PM
Surr: 2-Fluorobiphenyl	*61.9*		*43-125*	*%REC*	1	6/15/2009 02:01 PM
Surr: 4-Terphenyl-d14	*73.0*		*32-125*	*%REC*	1	6/15/2009 02:01 PM
Surr: Nitrobenzene-d5	*59.3*		*37-125*	*%REC*	1	6/15/2009 02:01 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#20 2-1/2'
Lab ID: 0906137-20
Collection Date: 6/2/2009 08:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 10:13 PM
TPH (Diesel Range)	**100**		**49**	**mg/Kg**	1	6/12/2009 10:13 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 10:13 PM
Surr: 2-Fluorobiphenyl	*119*		*70-130*	*%REC*	1	6/12/2009 10:13 PM
Surr: Trifluoromethyl benzene	*104*		*70-130*	*%REC*	1	6/12/2009 10:13 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.14**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 03:53 PM
Anthracene	**0.13**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Benz(a)anthracene	**0.15**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Benzo(a)pyrene	**0.13**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Benzo(b)fluoranthene	**0.071**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Benzo(g,h,i)perylene	**0.050**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Benzo(k)fluoranthene	**0.0082**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Chrysene	**0.28**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Dibenz(a,h)anthracene	**0.036**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Fluoranthene	**0.081**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Fluorene	**0.25**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Indeno(1,2,3-cd)pyrene	**0.023**		**0.0066**	**mg/Kg**	1	6/15/2009 03:53 PM
Naphthalene	**0.69**		**0.066**	**mg/Kg**	10	6/18/2009 10:08 PM
Phenanthrene	**1.2**		**0.066**	**mg/Kg**	10	6/18/2009 10:08 PM
Pyrene	**0.34**		**0.066**	**mg/Kg**	10	6/18/2009 10:08 PM
Surr: 2-Fluorobiphenyl	*67.2*		*43-125*	*%REC*	1	6/15/2009 03:53 PM
Surr: 2-Fluorobiphenyl	*103*		*43-125*	*%REC*	10	6/18/2009 10:08 PM
Surr: 4-Terphenyl-d14	*105*		*32-125*	*%REC*	1	6/15/2009 03:53 PM
Surr: 4-Terphenyl-d14	*101*		*32-125*	*%REC*	10	6/18/2009 10:08 PM
Surr: Nitrobenzene-d5	*93.8*		*37-125*	*%REC*	10	6/18/2009 10:08 PM
Surr: Nitrobenzene-d5	*76.6*		*37-125*	*%REC*	1	6/15/2009 03:53 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#21 2-1/2'
Collection Date: 6/2/2009 08:22 AM

Work Order: 0906137
Lab ID: 0906137-21
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 12:31 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 12:31 AM
TPH (Motor Oil Range)	ND		97	mg/Kg	1	6/12/2009 12:31 AM
Surr: 2-Fluorobiphenyl	*116*		*70-130*	*%REC*	1	6/12/2009 12:31 AM
Surr: Trifluoromethyl benzene	*108*		*70-130*	*%REC*	1	6/12/2009 12:31 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Chrysene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Fluorene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Phenanthrene	**0.0074**		**0.0066**	**mg/Kg**	1	6/15/2009 12:58 PM
Pyrene	ND		0.0066	mg/Kg	1	6/15/2009 12:58 PM
Surr: 2-Fluorobiphenyl	*75.7*		*43-125*	*%REC*	1	6/15/2009 12:58 PM
Surr: 4-Terphenyl-d14	*76.2*		*32-125*	*%REC*	1	6/15/2009 12:58 PM
Surr: Nitrobenzene-d5	*76.2*		*37-125*	*%REC*	1	6/15/2009 12:58 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#22 2-1/2'
Lab ID: 0906137-22
Collection Date: 6/2/2009 08:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 02:18 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 02:18 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 02:18 AM
Surr: 2-Fluorobiphenyl	*126*		*70-130*	*%REC*	1	6/12/2009 02:18 AM
Surr: Trifluoromethyl benzene	*115*		*70-130*	*%REC*	1	6/12/2009 02:18 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Benz(a)anthracene	**0.0068**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Benzo(a)pyrene	**0.0079**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Chrysene	**0.013**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Fluorene	**0.0095**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 02:23 PM
Naphthalene	**0.010**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Phenanthrene	**0.041**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Pyrene	**0.014**		**0.0066**	**mg/Kg**	1	6/15/2009 02:23 PM
Surr: 2-Fluorobiphenyl	*61.9*		*43-125*	*%REC*	1	6/15/2009 02:23 PM
Surr: 4-Terphenyl-d14	*73.0*		*32-125*	*%REC*	1	6/15/2009 02:23 PM
Surr: Nitrobenzene-d5	*62.2*		*37-125*	*%REC*	1	6/15/2009 02:23 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#23 2-1/2'
Lab ID: 0906137-23
Collection Date: 6/2/2009 08:34 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 02:54 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 02:54 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 02:54 AM
Surr: 2-Fluorobiphenyl	*127*		*70-130*	*%REC*	1	6/12/2009 02:54 AM
Surr: Trifluoromethyl benzene	*113*		*70-130*	*%REC*	1	6/12/2009 02:54 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Anthracene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Chrysene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Fluoranthene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Fluorene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Naphthalene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Phenanthrene	**0.016**		**0.0066**	**mg/Kg**	1	6/18/2009 08:37 AM
Pyrene	ND		0.0066	mg/Kg	1	6/18/2009 08:37 AM
Surr: 2-Fluorobiphenyl	*66.6*		*43-125*	*%REC*	1	6/18/2009 08:37 AM
Surr: 4-Terphenyl-d14	*61.0*		*32-125*	*%REC*	1	6/18/2009 08:37 AM
Surr: Nitrobenzene-d5	*60.1*		*37-125*	*%REC*	1	6/18/2009 08:37 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#24 2-1/2'
Collection Date: 6/2/2009 08:48 AM

Work Order: 0906137
Lab ID: 0906137-24
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/13/2009 01:11 AM
TPH (Diesel Range)	**480**		**49**	**mg/Kg**	1	6/13/2009 01:11 AM
TPH (Motor Oil Range)	**360**		**99**	**mg/Kg**	1	6/13/2009 01:11 AM
Surr: 2-Fluorobiphenyl	*129*		*70-130*	*%REC*	1	6/13/2009 01:11 AM
Surr: Trifluoromethyl benzene	*111*		*70-130*	*%REC*	1	6/13/2009 01:11 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.30**		**0.0066**	**mg/Kg**	1	6/19/2009 07:07 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 07:07 PM
Anthracene	**0.87**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Benz(a)anthracene	**3.6**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Benzo(a)pyrene	**2.7**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Benzo(b)fluoranthene	**3.0**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Benzo(g,h,i)perylene	**1.2**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Benzo(k)fluoranthene	**2.1**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Chrysene	**4.1**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Dibenz(a,h)anthracene	**0.20**		**0.0066**	**mg/Kg**	1	6/19/2009 07:07 PM
Fluoranthene	**8.1**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Fluorene	**0.82**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Indeno(1,2,3-cd)pyrene	**1.3**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Naphthalene	**1.8**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Phenanthrene	**5.5**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Pyrene	**5.7**		**0.33**	**mg/Kg**	50	6/18/2009 10:51 PM
Surr: 2-Fluorobiphenyl	*87.9*		*43-125*	*%REC*	50	6/18/2009 10:51 PM
Surr: 2-Fluorobiphenyl	*40.0*	S	*43-125*	*%REC*	1	6/19/2009 07:07 PM
Surr: 4-Terphenyl-d14	*98.4*		*32-125*	*%REC*	50	6/18/2009 10:51 PM
Surr: 4-Terphenyl-d14	*64.2*		*32-125*	*%REC*	1	6/19/2009 07:07 PM
Surr: Nitrobenzene-d5	*69.7*		*37-125*	*%REC*	1	6/19/2009 07:07 PM
Surr: Nitrobenzene-d5	*72.0*		*37-125*	*%REC*	50	6/18/2009 10:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#25 2-1/2'
Lab ID: 0906137-25
Collection Date: 6/2/2009 08:30 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 03:29 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 03:29 AM
TPH (Motor Oil Range)	ND		97	mg/Kg	1	6/12/2009 03:29 AM
Surr: 2-Fluorobiphenyl	*112*		*70-130*	*%REC*	1	6/12/2009 03:29 AM
Surr: Trifluoromethyl benzene	*104*		*70-130*	*%REC*	1	6/12/2009 03:29 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Chrysene	**0.0070**		**0.0066**	**mg/Kg**	1	6/15/2009 03:05 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Fluorene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 03:05 PM
Phenanthrene	**0.0079**		**0.0066**	**mg/Kg**	1	6/15/2009 03:05 PM
Pyrene	**0.0069**		**0.0066**	**mg/Kg**	1	6/15/2009 03:05 PM
Surr: 2-Fluorobiphenyl	*68.6*		*43-125*	*%REC*	1	6/15/2009 03:05 PM
Surr: 4-Terphenyl-d14	*71.4*		*32-125*	*%REC*	1	6/15/2009 03:05 PM
Surr: Nitrobenzene-d5	*63.1*		*37-125*	*%REC*	1	6/15/2009 03:05 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#26 2-1/2'
Collection Date: 6/2/2009 08:45 AM

Work Order: 0906137
Lab ID: 0906137-26
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 04:05 AM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/12/2009 04:05 AM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/12/2009 04:05 AM
Surr: 2-Fluorobiphenyl	*123*		*70-130*	*%REC*	1	6/12/2009 04:05 AM
Surr: Trifluoromethyl benzene	*112*		*70-130*	*%REC*	1	6/12/2009 04:05 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/18/2009 08:59 AM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/18/2009 08:59 AM
Anthracene	ND		0.0066	mg/Kg	1	6/18/2009 08:59 AM
Benz(a)anthracene	**0.020**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Benzo(a)pyrene	**0.016**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Benzo(b)fluoranthene	**0.017**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Benzo(g,h,i)perylene	**0.0096**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/18/2009 08:59 AM
Chrysene	**0.043**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Dibenz(a,h)anthracene	**0.0067**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Fluoranthene	**0.037**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Fluorene	ND		0.0066	mg/Kg	1	6/18/2009 08:59 AM
Indeno(1,2,3-cd)pyrene	**0.0078**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Naphthalene	ND		0.0066	mg/Kg	1	6/18/2009 08:59 AM
Phenanthrene	**0.034**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Pyrene	**0.038**		**0.0066**	**mg/Kg**	1	6/18/2009 08:59 AM
Surr: 2-Fluorobiphenyl	*85.5*		*43-125*	*%REC*	1	6/18/2009 08:59 AM
Surr: 4-Terphenyl-d14	*78.0*		*32-125*	*%REC*	1	6/18/2009 08:59 AM
Surr: Nitrobenzene-d5	*80.2*		*37-125*	*%REC*	1	6/18/2009 08:59 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#27 2-1/2'
Lab ID: 0906137-27
Collection Date: 6/2/2009 09:14 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 04:40 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 04:40 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 04:40 AM
Surr: 2-Fluorobiphenyl	*98.6*		*70-130*	*%REC*	1	6/12/2009 04:40 AM
Surr: Trifluoromethyl benzene	*91.8*		*70-130*	*%REC*	1	6/12/2009 04:40 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Chrysene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Fluorene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Phenanthrene	**0.0076**		**0.0066**	**mg/Kg**	1	6/15/2009 04:57 PM
Pyrene	ND		0.0066	mg/Kg	1	6/15/2009 04:57 PM
Surr: 2-Fluorobiphenyl	*83.6*		*43-125*	*%REC*	1	6/15/2009 04:57 PM
Surr: 4-Terphenyl-d14	*98.0*		*32-125*	*%REC*	1	6/15/2009 04:57 PM
Surr: Nitrobenzene-d5	*86.7*		*37-125*	*%REC*	1	6/15/2009 04:57 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#29 2-1/2'
Lab ID: 0906137-28
Collection Date: 6/2/2009 09:38 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 05:16 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 05:16 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 05:16 AM
Surr: 2-Fluorobiphenyl	*118*		*70-130*	*%REC*	1	6/12/2009 05:16 AM
Surr: Trifluoromethyl benzene	*111*		*70-130*	*%REC*	1	6/12/2009 05:16 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Anthracene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Benzo(a)pyrene	0.0073		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Benzo(g,h,i)perylene	0.010		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Chrysene	0.0080		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Dibenz(a,h)anthracene	0.010		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Fluorene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Indeno(1,2,3-cd)pyrene	0.012		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/19/2009 07:49 PM
Phenanthrene	0.023		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Pyrene	0.012		**0.0066**	**mg/Kg**	1	6/19/2009 07:49 PM
Surr: 2-Fluorobiphenyl	*93.3*		*43-125*	*%REC*	1	6/19/2009 07:49 PM
Surr: 4-Terphenyl-d14	*118*		*32-125*	*%REC*	1	6/19/2009 07:49 PM
Surr: Nitrobenzene-d5	*91.7*		*37-125*	*%REC*	1	6/19/2009 07:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#30 2-1/2'
Collection Date: 6/2/2009 09:40 AM

Work Order: 0906137
Lab ID: 0906137-29
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 07:03 AM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/12/2009 07:03 AM
TPH (Motor Oil Range)	ND		99	mg/Kg	1	6/12/2009 07:03 AM
Surr: 2-Fluorobiphenyl	*125*		*70-130*	*%REC*	1	6/12/2009 07:03 AM
Surr: Trifluoromethyl benzene	*115*		*70-130*	*%REC*	1	6/12/2009 07:03 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Chrysene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Fluorene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Phenanthrene	**0.0095**		**0.0066**	**mg/Kg**	1	6/15/2009 05:39 PM
Pyrene	ND		0.0066	mg/Kg	1	6/15/2009 05:39 PM
Surr: 2-Fluorobiphenyl	*87.4*		*43-125*	*%REC*	1	6/15/2009 05:39 PM
Surr: 4-Terphenyl-d14	*98.5*		*32-125*	*%REC*	1	6/15/2009 05:39 PM
Surr: Nitrobenzene-d5	*80.9*		*37-125*	*%REC*	1	6/15/2009 05:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-09

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#31 2-1/2'
Lab ID: 0906137-30
Collection Date: 6/2/2009 09:58 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 02:32 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 02:32 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 02:32 PM
Surr: 2-Fluorobiphenyl	*119*		*70-130*	*%REC*	1	6/12/2009 02:32 PM
Surr: Trifluoromethyl benzene	*106*		*70-130*	*%REC*	1	6/12/2009 02:32 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.036**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/22/2009 02:46 PM
Anthracene	**0.024**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Benz(a)anthracene	**0.029**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Benzo(a)pyrene	**0.032**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Benzo(b)fluoranthene	**0.021**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Benzo(g,h,i)perylene	**0.012**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/22/2009 02:46 PM
Chrysene	**0.072**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Dibenz(a,h)anthracene	**0.0072**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Fluoranthene	**0.015**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Fluorene	**0.075**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Indeno(1,2,3-cd)pyrene	**0.0082**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Naphthalene	**0.086**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Phenanthrene	**0.24**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Pyrene	**0.071**		**0.0066**	**mg/Kg**	1	6/22/2009 02:46 PM
Surr: 2-Fluorobiphenyl	*86.5*		*43-125*	*%REC*	1	6/22/2009 02:46 PM
Surr: 4-Terphenyl-d14	*88.6*		*32-125*	*%REC*	1	6/22/2009 02:46 PM
Surr: Nitrobenzene-d5	*83.7*		*37-125*	*%REC*	1	6/22/2009 02:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#32 2-1/2'
Lab ID: 0906137-31
Collection Date: 6/2/2009 09:50 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 03:08 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 03:08 PM
TPH (Motor Oil Range)	ND		97	mg/Kg	1	6/12/2009 03:08 PM
Surr: 2-Fluorobiphenyl	*122*		*70-130*	*%REC*	1	6/12/2009 03:08 PM
Surr: Trifluoromethyl benzene	*110*		*70-130*	*%REC*	1	6/12/2009 03:08 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.12**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 06:22 PM
Anthracene	**0.17**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Benz(a)anthracene	**0.22**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Benzo(a)pyrene	**0.18**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Benzo(b)fluoranthene	**0.091**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Benzo(g,h,i)perylene	**0.074**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Benzo(k)fluoranthene	**0.026**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Chrysene	**0.44**		**0.033**	**mg/Kg**	5	6/22/2009 03:19 PM
Dibenz(a,h)anthracene	**0.052**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Fluoranthene	**0.13**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Fluorene	**0.28**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Indeno(1,2,3-cd)pyrene	**0.039**		**0.0066**	**mg/Kg**	1	6/15/2009 06:22 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 06:22 PM
Phenanthrene	**1.3**		**0.033**	**mg/Kg**	5	6/22/2009 03:19 PM
Pyrene	**0.44**		**0.033**	**mg/Kg**	5	6/22/2009 03:19 PM
Surr: 2-Fluorobiphenyl	*68.6*		*43-125*	*%REC*	1	6/15/2009 06:22 PM
Surr: 2-Fluorobiphenyl	*99.5*		*43-125*	*%REC*	5	6/22/2009 03:19 PM
Surr: 4-Terphenyl-d14	*107*		*32-125*	*%REC*	1	6/15/2009 06:22 PM
Surr: 4-Terphenyl-d14	*115*		*32-125*	*%REC*	5	6/22/2009 03:19 PM
Surr: Nitrobenzene-d5	*74.9*		*37-125*	*%REC*	5	6/22/2009 03:19 PM
Surr: Nitrobenzene-d5	*71.0*		*37-125*	*%REC*	1	6/15/2009 06:22 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#33 2-1/2'
Collection Date: 6/2/2009 10:10 AM

Work Order: 0906137
Lab ID: 0906137-32
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 07:38 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 07:38 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 07:38 AM
Surr: 2-Fluorobiphenyl	*117*		*70-130*	*%REC*	1	6/12/2009 07:38 AM
Surr: Trifluoromethyl benzene	*110*		*70-130*	*%REC*	1	6/12/2009 07:38 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Anthracene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Chrysene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Fluorene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Phenanthrene	**0.0075**		**0.0066**	**mg/Kg**	1	6/15/2009 07:47 PM
Pyrene	ND		0.0066	mg/Kg	1	6/15/2009 07:47 PM
Surr: 2-Fluorobiphenyl	*61.1*		*43-125*	*%REC*	1	6/15/2009 07:47 PM
Surr: 4-Terphenyl-d14	*79.2*		*32-125*	*%REC*	1	6/15/2009 07:47 PM
Surr: Nitrobenzene-d5	*57.3*		*37-125*	*%REC*	1	6/15/2009 07:47 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#34 2-1/2'
Lab ID: 0906137-33
Collection Date: 6/2/2009 10:21 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 01:55 PM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/12/2009 01:55 PM
TPH (Motor Oil Range)	ND		100	mg/Kg	1	6/12/2009 01:55 PM
Surr: 2-Fluorobiphenyl	*122*		*70-130*	*%REC*	1	6/12/2009 01:55 PM
Surr: Trifluoromethyl benzene	*112*		*70-130*	*%REC*	1	6/12/2009 01:55 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.024**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 09:36 PM
Anthracene	**0.019**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Benz(a)anthracene	**0.026**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Benzo(a)pyrene	**0.024**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Benzo(b)fluoranthene	**0.014**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Benzo(g,h,i)perylene	**0.013**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 09:36 PM
Chrysene	**0.066**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Dibenz(a,h)anthracene	**0.0084**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Fluoranthene	**0.015**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Fluorene	**0.043**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Indeno(1,2,3-cd)pyrene	**0.0090**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Naphthalene	**0.060**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Phenanthrene	**0.15**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Pyrene	**0.053**		**0.0066**	**mg/Kg**	1	6/19/2009 09:36 PM
Surr: 2-Fluorobiphenyl	*84.0*		*43-125*	*%REC*	1	6/19/2009 09:36 PM
Surr: 4-Terphenyl-d14	*101*		*32-125*	*%REC*	1	6/19/2009 09:36 PM
Surr: Nitrobenzene-d5	*82.1*		*37-125*	*%REC*	1	6/19/2009 09:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#35 2-1/2'
Lab ID: 0906137-34
Collection Date: 6/2/2009 10:25 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 08:14 AM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/12/2009 08:14 AM
TPH (Motor Oil Range)	ND		100	mg/Kg	1	6/12/2009 08:14 AM
Surr: 2-Fluorobiphenyl	*113*		*70-130*	*%REC*	1	6/12/2009 08:14 AM
Surr: Trifluoromethyl benzene	*103*		*70-130*	*%REC*	1	6/12/2009 08:14 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/19/2009 09:57 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 09:57 PM
Anthracene	ND		0.0066	mg/Kg	1	6/19/2009 09:57 PM
Benz(a)anthracene	**0.021**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Benzo(a)pyrene	**0.020**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Benzo(b)fluoranthene	**0.021**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Benzo(g,h,i)perylene	**0.015**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Benzo(k)fluoranthene	**0.011**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Chrysene	**0.029**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/19/2009 09:57 PM
Fluoranthene	**0.031**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Fluorene	ND		0.0066	mg/Kg	1	6/19/2009 09:57 PM
Indeno(1,2,3-cd)pyrene	**0.014**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Naphthalene	**0.0071**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Phenanthrene	**0.039**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Pyrene	**0.039**		**0.0066**	**mg/Kg**	1	6/19/2009 09:57 PM
Surr: 2-Fluorobiphenyl	*89.8*		*43-125*	*%REC*	1	6/19/2009 09:57 PM
Surr: 4-Terphenyl-d14	*99.1*		*32-125*	*%REC*	1	6/19/2009 09:57 PM
Surr: Nitrobenzene-d5	*86.3*		*37-125*	*%REC*	1	6/19/2009 09:57 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#36 2-1/2'
Lab ID: 0906137-35
Collection Date: 6/2/2009 10:32 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/13/2009 12:36 AM
TPH (Diesel Range)	**160**		**49**	**mg/Kg**	1	6/13/2009 12:36 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/13/2009 12:36 AM
Surr: 2-Fluorobiphenyl	*119*		*70-130*	*%REC*	1	6/13/2009 12:36 AM
Surr: Trifluoromethyl benzene	*103*		*70-130*	*%REC*	1	6/13/2009 12:36 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.098**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 10:18 PM
Anthracene	**0.076**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Benz(a)anthracene	**0.076**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Benzo(a)pyrene	**0.083**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Benzo(b)fluoranthene	**0.043**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Benzo(g,h,i)perylene	**0.035**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Benzo(k)fluoranthene	**0.0080**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Chrysene	**0.19**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Dibenz(a,h)anthracene	**0.025**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Fluoranthene	**0.052**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Fluorene	**0.17**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Indeno(1,2,3-cd)pyrene	**0.017**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Naphthalene	**0.16**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Phenanthrene	**0.54**		**0.026**	**mg/Kg**	4	6/19/2009 10:39 PM
Pyrene	**0.18**		**0.0066**	**mg/Kg**	1	6/19/2009 10:18 PM
Surr: 2-Fluorobiphenyl	*57.2*		*43-125*	*%REC*	1	6/19/2009 10:18 PM
Surr: 2-Fluorobiphenyl	*68.2*		*43-125*	*%REC*	4	6/19/2009 10:39 PM
Surr: 4-Terphenyl-d14	*104*		*32-125*	*%REC*	1	6/19/2009 10:18 PM
Surr: 4-Terphenyl-d14	*95.8*		*32-125*	*%REC*	4	6/19/2009 10:39 PM
Surr: Nitrobenzene-d5	*66.6*		*37-125*	*%REC*	4	6/19/2009 10:39 PM
Surr: Nitrobenzene-d5	*39.0*		*37-125*	*%REC*	1	6/19/2009 10:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#37 2-1/2'
Lab ID: 0906137-36
Collection Date: 6/2/2009 10:37 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/13/2009
TPH (Diesel Range)	ND		50	mg/Kg	1	6/13/2009
TPH (Motor Oil Range)	ND		100	mg/Kg	1	6/13/2009
Surr: 2-Fluorobiphenyl	*111*		*70-130*	*%REC*	1	6/13/2009
Surr: Trifluoromethyl benzene	*99.8*		*70-130*	*%REC*	1	6/13/2009
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	**0.019**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 11:00 PM
Anthracene	**0.016**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Benz(a)anthracene	**0.018**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Benzo(a)pyrene	**0.020**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Benzo(b)fluoranthene	**0.011**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Benzo(g,h,i)perylene	**0.0076**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 11:00 PM
Chrysene	**0.043**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/19/2009 11:00 PM
Fluoranthene	**0.014**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Fluorene	**0.039**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/19/2009 11:00 PM
Naphthalene	**0.041**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Phenanthrene	**0.14**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Pyrene	**0.041**		**0.0066**	**mg/Kg**	1	6/19/2009 11:00 PM
Surr: 2-Fluorobiphenyl	*83.0*		*43-125*	*%REC*	1	6/19/2009 11:00 PM
Surr: 4-Terphenyl-d14	*103*		*32-125*	*%REC*	1	6/19/2009 11:00 PM
Surr: Nitrobenzene-d5	*82.3*		*37-125*	*%REC*	1	6/19/2009 11:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#38 2-1/2'
Lab ID: 0906137-37
Collection Date: 6/2/2009 10:55 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 08:49 AM
TPH (Diesel Range)	ND		50	mg/Kg	1	6/12/2009 08:49 AM
TPH (Motor Oil Range)	ND		100	mg/Kg	1	6/12/2009 08:49 AM
Surr: 2-Fluorobiphenyl	*114*		*70-130*	*%REC*	1	6/12/2009 08:49 AM
Surr: Trifluoromethyl benzene	*108*		*70-130*	*%REC*	1	6/12/2009 08:49 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Anthracene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Chrysene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Fluorene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Phenanthrene	**0.0091**		**0.0066**	**mg/Kg**	1	6/22/2009 03:52 PM
Pyrene	ND		0.0066	mg/Kg	1	6/22/2009 03:52 PM
Surr: 2-Fluorobiphenyl	*87.3*		*43-125*	*%REC*	1	6/22/2009 03:52 PM
Surr: 4-Terphenyl-d14	*115*		*32-125*	*%REC*	1	6/22/2009 03:52 PM
Surr: Nitrobenzene-d5	*81.5*		*37-125*	*%REC*	1	6/22/2009 03:52 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#39 2-1/2'
Lab ID: 0906137-38
Collection Date: 6/2/2009 11:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 09:25 AM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 09:25 AM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 09:25 AM
Surr: 2-Fluorobiphenyl	*129*		*70-130*	*%REC*	1	6/12/2009 09:25 AM
Surr: Trifluoromethyl benzene	*120*		*70-130*	*%REC*	1	6/12/2009 09:25 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **ACN**
Acenaphthene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Anthracene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Benz(a)anthracene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Benzo(a)pyrene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Benzo(b)fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Benzo(g,h,i)perylene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Chrysene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Fluoranthene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Fluorene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Naphthalene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Phenanthrene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Pyrene	ND		0.0066	mg/Kg	1	6/19/2009 11:43 PM
Surr: 2-Fluorobiphenyl	*89.9*		*43-125*	*%REC*	1	6/19/2009 11:43 PM
Surr: 4-Terphenyl-d14	*97.4*		*32-125*	*%REC*	1	6/19/2009 11:43 PM
Surr: Nitrobenzene-d5	*86.1*		*37-125*	*%REC*	1	6/19/2009 11:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Sample ID: AH#40 2-1/2'
Collection Date: 6/2/2009 11:25 AM

Work Order: 0906137
Lab ID: 0906137-39
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		50	mg/Kg	1	6/12/2009 11:23 PM
TPH (Diesel Range)	**200**		**50**	**mg/Kg**	1	6/12/2009 11:23 PM
TPH (Motor Oil Range)	**100**		**100**	**mg/Kg**	1	6/12/2009 11:23 PM
Surr: 2-Fluorobiphenyl	*122*		*70-130*	*%REC*	1	6/12/2009 11:23 PM
Surr: Trifluoromethyl benzene	*105*		*70-130*	*%REC*	1	6/12/2009 11:23 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **LG**
Acenaphthene	**0.0092**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 06:43 PM
Anthracene	**0.011**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Benz(a)anthracene	**0.015**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Benzo(a)pyrene	**0.011**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Benzo(b)fluoranthene	*ND*		*0.0066*	*mg/Kg*	1	6/15/2009 06:43 PM
Benzo(g,h,i)perylene	**0.0070**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 06:43 PM
Chrysene	**0.027**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	6/15/2009 06:43 PM
Fluoranthene	**0.011**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Fluorene	**0.025**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Indeno(1,2,3-cd)pyrene	**0.0067**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Naphthalene	**0.035**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Phenanthrene	**0.076**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Pyrene	**0.033**		**0.0066**	**mg/Kg**	1	6/15/2009 06:43 PM
Surr: 2-Fluorobiphenyl	*83.6*		*43-125*	*%REC*	1	6/15/2009 06:43 PM
Surr: 4-Terphenyl-d14	*103*		*32-125*	*%REC*	1	6/15/2009 06:43 PM
Surr: Nitrobenzene-d5	*84.2*		*37-125*	*%REC*	1	6/15/2009 06:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#41 2-1/2'
Lab ID: 0906137-40
Collection Date: 6/2/2009 12:06 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 10:48 PM
TPH (Diesel Range)	**400**		**49**	**mg/Kg**	1	6/12/2009 10:48 PM
TPH (Motor Oil Range)	**160**		**98**	**mg/Kg**	1	6/12/2009 10:48 PM
Surr: 2-Fluorobiphenyl	*123*		*70-130*	*%REC*	1	6/12/2009 10:48 PM
Surr: Trifluoromethyl benzene	*102*		*70-130*	*%REC*	1	6/12/2009 10:48 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **LG**
Acenaphthene	**0.25**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 07:04 PM
Anthracene	**0.32**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Benz(a)anthracene	**0.25**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Benzo(a)pyrene	**0.27**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Benzo(b)fluoranthene	**0.16**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Benzo(g,h,i)perylene	**0.079**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 07:04 PM
Chrysene	**0.58**		**0.066**	**mg/Kg**	10	6/20/2009 12:04 AM
Dibenz(a,h)anthracene	**0.069**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Fluoranthene	**0.15**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Fluorene	**0.52**		**0.066**	**mg/Kg**	10	6/20/2009 12:04 AM
Indeno(1,2,3-cd)pyrene	**0.047**		**0.0066**	**mg/Kg**	1	6/15/2009 07:04 PM
Naphthalene	**0.93**		**0.066**	**mg/Kg**	10	6/20/2009 12:04 AM
Phenanthrene	**2.0**		**0.066**	**mg/Kg**	10	6/20/2009 12:04 AM
Pyrene	**0.57**		**0.066**	**mg/Kg**	10	6/20/2009 12:04 AM
Surr: 2-Fluorobiphenyl	*48.9*		*43-125*	*%REC*	1	6/15/2009 07:04 PM
Surr: 2-Fluorobiphenyl	*73.5*		*43-125*	*%REC*	10	6/20/2009 12:04 AM
Surr: 4-Terphenyl-d14	*139*	S	*32-125*	*%REC*	1	6/15/2009 07:04 PM
Surr: 4-Terphenyl-d14	*122*		*32-125*	*%REC*	10	6/20/2009 12:04 AM
Surr: Nitrobenzene-d5	*72.8*		*37-125*	*%REC*	10	6/20/2009 12:04 AM
Surr: Nitrobenzene-d5	*71.1*		*37-125*	*%REC*	1	6/15/2009 07:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *23-Jun-09*

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
Work Order: 0906137
Sample ID: AH#42 2-1/2'
Lab ID: 0906137-41
Collection Date: 6/2/2009 12:28 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **6/5/2009**	Analyst: **KMB**
TPH (Gasoline Range)	ND		49	mg/Kg	1	6/12/2009 12:06 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	6/12/2009 12:06 PM
TPH (Motor Oil Range)	ND		98	mg/Kg	1	6/12/2009 12:06 PM
Surr: 2-Fluorobiphenyl	*117*		*70-130*	*%REC*	1	6/12/2009 12:06 PM
Surr: Trifluoromethyl benzene	*109*		*70-130*	*%REC*	1	6/12/2009 12:06 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **6/8/2009**	Analyst: **LG**
Acenaphthene	**0.23**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	6/15/2009 07:25 PM
Anthracene	**0.27**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Benz(a)anthracene	**0.23**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Benzo(a)pyrene	**0.17**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Benzo(b)fluoranthene	**0.11**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Benzo(g,h,i)perylene	**0.056**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Benzo(k)fluoranthene	ND		0.0066	mg/Kg	1	6/15/2009 07:25 PM
Chrysene	**0.71**		**0.033**	**mg/Kg**	5	6/18/2009 09:26 PM
Dibenz(a,h)anthracene	**0.037**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Fluoranthene	**0.15**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Fluorene	**0.57**		**0.033**	**mg/Kg**	5	6/18/2009 09:26 PM
Indeno(1,2,3-cd)pyrene	**0.026**		**0.0066**	**mg/Kg**	1	6/15/2009 07:25 PM
Naphthalene	**0.48**		**0.033**	**mg/Kg**	5	6/18/2009 09:26 PM
Phenanthrene	**2.3**		**0.13**	**mg/Kg**	20	6/18/2009 09:47 PM
Pyrene	**0.59**		**0.033**	**mg/Kg**	5	6/18/2009 09:26 PM
Surr: 2-Fluorobiphenyl	*54.5*		*43-125*	*%REC*	1	6/15/2009 07:25 PM
Surr: 2-Fluorobiphenyl	*93.1*		*43-125*	*%REC*	5	6/18/2009 09:26 PM
Surr: 2-Fluorobiphenyl	*100*		*43-125*	*%REC*	20	6/18/2009 09:47 PM
Surr: 4-Terphenyl-d14	*96.4*		*32-125*	*%REC*	1	6/15/2009 07:25 PM
Surr: 4-Terphenyl-d14	*112*		*32-125*	*%REC*	5	6/18/2009 09:26 PM
Surr: 4-Terphenyl-d14	*113*		*32-125*	*%REC*	20	6/18/2009 09:47 PM
Surr: Nitrobenzene-d5	*80.4*		*37-125*	*%REC*	20	6/18/2009 09:47 PM
Surr: Nitrobenzene-d5	*73.8*		*37-125*	*%REC*	1	6/15/2009 07:25 PM
Surr: Nitrobenzene-d5	*86.0*		*37-125*	*%REC*	5	6/18/2009 09:26 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 23-Jun-09

Client: Navajo Refining Company

Work Order: 0906137

Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36426** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-090605-36426** Units: **mg/Kg** Analysis Date: **6/11/2009 11:43 AM**

Client ID: Run ID: **FID-8_090605A** SeqNo: **1695695** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	ND	49								
TPH (Diesel Range)	ND	49								
TPH (Motor Oil Range)	ND	49								
Surr: 2-Fluorobiphenyl	*31.2*	0	*24.44*	0	*128*	*70-130*	0			
Surr: Trifluoromethyl benzene	*30.05*	0	*24.44*	0	*123*	*70-130*	0			

LCS Sample ID: **FLCSS1-090605-36426** Units: **mg/Kg** Analysis Date: **6/16/2009 11:14 AM**

Client ID: Run ID: **FID-8_090605A** SeqNo: **1695743** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	277.3	50	250	0	111	70-130	0			
TPH (Diesel Range)	304.1	50	250	0	122	70-130	0			
TPH (Motor Oil Range)	238.2	50	250	0	95.3	70-130	0			
Surr: 2-Fluorobiphenyl	*31.41*	0	*25*	0	*126*	*70-130*	0			
Surr: Trifluoromethyl benzene	*28.02*	0	*25*	0	*112*	*70-130*	0			

LCSD Sample ID: **FLCSDS1-090605-36426** Units: **mg/Kg** Analysis Date: **6/16/2009 12:01 PM**

Client ID: Run ID: **FID-8_090605A** SeqNo: **1695744** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	256.2	50	250	0	102	70-130	277.3	7.92	30	
TPH (Diesel Range)	271.9	50	250	0	109	70-130	304.1	11.2	30	
TPH (Motor Oil Range)	209.7	50	250	0	83.9	70-130	238.2	12.7	30	
Surr: 2-Fluorobiphenyl	*28.16*	0	*25*	0	*113*	*70-130*	31.41	*10.9*	*30*	
Surr: Trifluoromethyl benzene	*25.75*	0	*25*	0	*103*	*70-130*	28.02	*8.44*	*30*	

MS Sample ID: **0906137-01AMS** Units: **mg/Kg** Analysis Date: **6/11/2009 02:09 PM**

Client ID: **AH#1 2-1/2'** Run ID: **FID-8_090605A** SeqNo: **1695699** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	237	50	247.8	2.789	94.5	70-130	0			
TPH (Diesel Range)	322.9	50	247.8	27.9	119	70-130	0			
TPH (Motor Oil Range)	221.5	50	247.8	2.092	88.6	70-130	0			
Surr: 2-Fluorobiphenyl	*28.27*	0	*24.78*	0	*114*	*70-130*	0			
Surr: Trifluoromethyl benzene	*24.63*	0	*24.78*	0	*99.4*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36426** Instrument ID **FID-8** Method: **SW8015M**

MSD Sample ID: **0906137-01AMSD** Units: **mg/Kg** Analysis Date: **6/11/2009 02:46 PM**

Client ID: **AH#1 2-1/2'** Run ID: **FID-8_090605A** SeqNo: **1695701** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	266.6	49	246.8	2.789	107	70-130	237	11.7	30	
TPH (Diesel Range)	315.1	49	246.8	27.9	116	70-130	322.9	2.44	30	
TPH (Motor Oil Range)	192.8	49	246.8	2.092	77.3	70-130	221.5	13.9	30	
Surr: 2-Fluorobiphenyl	*31.24*	0	*24.68*	0	*127*	*70-130*	28.27	*9.97*	*30*	
Surr: Trifluoromethyl benzene	*28.12*	0	*24.68*	0	*114*	*70-130*	24.63	*13.2*	*30*	

The following samples were analyzed in this batch:

0906137-01A	0906137-02A	0906137-03A
0906137-04A	0906137-05A	0906137-06A
0906137-07A	0906137-08A	0906137-09A
0906137-10A	0906137-11A	0906137-12A
0906137-13A	0906137-14A	0906137-15A
0906137-16A	0906137-17A	0906137-18A
0906137-19A	0906137-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36427** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS2-090605-36427** Units: **mg/Kg** Analysis Date: **6/11/2009 10:42 PM**
Client ID: Run ID: **FID-8_090605B** SeqNo: **1695875** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	ND	50								
TPH (Diesel Range)	ND	50								
TPH (Motor Oil Range)	ND	50								
Surr: 2-Fluorobiphenyl	*32.44*	0	*25*	0	*130*	*70-130*	0			
Surr: Trifluoromethyl benzene	*30.25*	0	*25*	0	*121*	*70-130*	0			

LCS Sample ID: **FLCSS2-090605-36427** Units: **mg/Kg** Analysis Date: **6/16/2009 12:37 PM**
Client ID: Run ID: **FID-8_090605B** SeqNo: **1695825** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	274.8	50	250	0	110	70-130	0			
TPH (Diesel Range)	285.2	50	250	0	114	70-130	0			
TPH (Motor Oil Range)	212.4	50	250	0	85	70-130	0			
Surr: 2-Fluorobiphenyl	*31.09*	0	*25*	0	*124*	*70-130*	0			
Surr: Trifluoromethyl benzene	*28.07*	0	*25*	0	*112*	*70-130*	0			

LCSD Sample ID: **FLCSDS2-090605-36427** Units: **mg/Kg** Analysis Date: **6/16/2009 01:12 PM**
Client ID: Run ID: **FID-8_090605B** SeqNo: **1695826** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	245.9	50	250	0	98.4	70-130	274.8	11.1	30	
TPH (Diesel Range)	266.9	50	250	0	107	70-130	285.2	6.62	30	
TPH (Motor Oil Range)	226.6	50	250	0	90.6	70-130	212.4	6.46	30	
Surr: 2-Fluorobiphenyl	*27.19*	0	*25*	0	*109*	*70-130*	31.09	*13.4*	*30*	
Surr: Trifluoromethyl benzene	*25.07*	0	*25*	0	*100*	*70-130*	28.07	*11.3*	*30*	

MS Sample ID: **0906137-21AMS** Units: **mg/Kg** Analysis Date: **6/12/2009 01:06 AM**
Client ID: **AH#21 2-1/2'** Run ID: **FID-8_090605B** SeqNo: **1695878** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	243.8	49	243.4	2.293	99.2	70-130	0			
TPH (Diesel Range)	259.7	49	243.4	0	107	70-130	0			
TPH (Motor Oil Range)	208.5	49	243.4	1.876	84.9	70-130	0			
Surr: 2-Fluorobiphenyl	*28.72*	0	*24.34*	0	*118*	*70-130*	0			
Surr: Trifluoromethyl benzene	*24.81*	0	*24.34*	0	*102*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36427** Instrument ID **FID-8** Method: **SW8015M**

MSD Sample ID: **0906137-21AMSD** Units: **mg/Kg** Analysis Date: **6/12/2009 01:42 AM**

Client ID: **AH#21 2-1/2'** Run ID: **FID-8_090605B** SeqNo: **1695880** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	245.3	49	243	2.293	100	70-130	243.8	0.614	30	
TPH (Diesel Range)	272.8	49	243	0	112	70-130	259.7	4.91	30	
TPH (Motor Oil Range)	200.3	49	243	1.876	81.7	70-130	208.5	4.05	30	
Surr: 2-Fluorobiphenyl	*28.62*	0	*24.3*	0	*118*	*70-130*	28.72	*0.334*	*30*	
Surr: Trifluoromethyl benzene	*24.71*	0	*24.3*	0	*102*	*70-130*	24.81	*0.407*	*30*	

The following samples were analyzed in this batch:

0906137-21A	0906137-22A	0906137-23A
0906137-24A	0906137-25A	0906137-26A
0906137-27A	0906137-28A	0906137-29A
0906137-30A	0906137-31A	0906137-32A
0906137-33A	0906137-34A	0906137-35A
0906137-36A	0906137-37A	0906137-38A
0906137-39A	0906137-40A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36428** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS3-090605-36428** Units: **mg/Kg** Analysis Date: **6/12/2009 10:01 AM**
Client ID: Run ID: **FID-8_090605C** SeqNo: **1695965** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	ND	50								
TPH (Diesel Range)	ND	50								
TPH (Motor Oil Range)	ND	50								
Surr: 2-Fluorobiphenyl	*32.2*	0	*25*	0	*129*	*70-130*	0			
Surr: Trifluoromethyl benzene	*32.34*	0	*25*	0	*129*	*70-130*	0			

LCS Sample ID: **FLCSS3-090605-36428** Units: **mg/Kg** Analysis Date: **6/16/2009 01:49 PM**
Client ID: Run ID: **FID-8_090605C** SeqNo: **1695963** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	270.5	50	250	0	108	70-130	0			
TPH (Diesel Range)	288.9	50	250	0	116	70-130	0			
TPH (Motor Oil Range)	225.2	50	250	0	90.1	70-130	0			
Surr: 2-Fluorobiphenyl	*30.27*	0	*25*	0	*121*	*70-130*	0			
Surr: Trifluoromethyl benzene	*27.61*	0	*25*	0	*110*	*70-130*	0			

LCSD Sample ID: **FLCSDS3-090605-36428** Units: **mg/Kg** Analysis Date: **6/16/2009 02:25 PM**
Client ID: Run ID: **FID-8_090605C** SeqNo: **1695964** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	242.2	50	250	0	96.9	70-130	270.5	11	30	
TPH (Diesel Range)	249.8	50	250	0	99.9	70-130	288.9	14.5	30	
TPH (Motor Oil Range)	200.5	50	250	0	80.2	70-130	225.2	11.6	30	
Surr: 2-Fluorobiphenyl	*26.85*	0	*25*	0	*107*	*70-130*	30.27	*12*	*30*	
Surr: Trifluoromethyl benzene	*24.72*	0	*25*	0	*98.9*	*70-130*	27.61	*11.1*	*30*	

MS Sample ID: **0906137-41AMS** Units: **mg/Kg** Analysis Date: **6/12/2009 12:42 PM**
Client ID: **AH#42 2-1/2'** Run ID: **FID-8_090605C** SeqNo: **1695967** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	227.9	49	244.4	2.863	92.1	70-130	0			
TPH (Diesel Range)	258.5	49	244.4	3.073	105	70-130	0			
TPH (Motor Oil Range)	212.6	49	244.4	3.241	85.7	70-130	0			
Surr: 2-Fluorobiphenyl	*26.32*	0	*24.44*	0	*108*	*70-130*	0			
Surr: Trifluoromethyl benzene	*23.21*	0	*24.44*	0	*95*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36428** Instrument ID **FID-8** Method: **SW8015M**

MSD Sample ID: **0906137-41AMSD** Units: **mg/Kg** Analysis Date: **6/12/2009 01:18 PM**

Client ID: **AH#42 2-1/2'** Run ID: **FID-8_090605C** SeqNo: **1695968** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	240.8	49	244.6	2.863	97.3	70-130	227.9	5.49	30	
TPH (Diesel Range)	267.7	49	244.6	3.073	108	70-130	258.5	3.47	30	
TPH (Motor Oil Range)	191.6	49	244.6	3.241	77	70-130	212.6	10.4	30	
Surr: 2-Fluorobiphenyl	*27.03*	0	*24.46*	0	*110*	*70-130*	26.32	*2.64*	*30*	*
Surr: Trifluoromethyl benzene	*24.14*	0	*24.46*	0	*98.7*	*70-130*	23.21	*3.91*	*30*	

The following samples were analyzed in this batch: 0906137-41A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36441** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKS3-090605-36441** Units: **µg/Kg** Analysis Date: **6/11/2009 04:19 PM**

Client ID: Run ID: **SV-4_090611B** SeqNo: **1693964** Prep Date: **6/5/2009** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.6								
Acenaphthylene	ND	6.6								
Anthracene	ND	6.6								
Benz(a)anthracene	ND	6.6								
Benzo(a)pyrene	ND	6.6								
Benzo(b)fluoranthene	ND	6.6								
Benzo(g,h,i)perylene	ND	6.6								
Benzo(k)fluoranthene	ND	6.6								
Chrysene	ND	6.6								
Dibenz(a,h)anthracene	ND	6.6								
Fluoranthene	ND	6.6								
Fluorene	ND	6.6								
Indeno(1,2,3-cd)pyrene	ND	6.6								
Naphthalene	ND	6.6								
Phenanthrene	ND	6.6								
Pyrene	ND	6.6								
Surr: 2-Fluorobiphenyl	*130.5*	6.6	*166.7*	0	*78.3*	*43-125*		0		
Surr: 4-Terphenyl-d14	*125.1*	6.6	*166.7*	0	*75.1*	*32-125*		0		
Surr: Nitrobenzene-d5	*128.2*	6.6	*166.7*	0	*76.9*	*37-125*		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36441** Instrument ID **SV-4** Method: **SW8270**

LCS Sample ID: **SLCSS3-090605-36441** Units: **µg/Kg** Analysis Date: **6/11/2009 04:45 PM**

Client ID: Run ID: **SV-4_090611B** SeqNo: **1693982** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	152.7	6.6	166.7	0	91.6	50-120	0			
Acenaphthylene	150.7	6.6	166.7	0	90.4	50-120	0			
Anthracene	164.1	6.6	166.7	0	98.5	50-123	0			
Benz(a)anthracene	166.2	6.6	166.7	0	99.7	50-131	0			
Benzo(a)pyrene	160.9	6.6	166.7	0	96.5	50-130	0			
Benzo(b)fluoranthene	174.6	6.6	166.7	0	105	50-137	0			
Benzo(g,h,i)perylene	159.2	6.6	166.7	0	95.5	50-130	0			
Benzo(k)fluoranthene	162.1	6.6	166.7	0	97.2	50-143	0			
Chrysene	153.5	6.6	166.7	0	92.1	50-130	0			
Dibenz(a,h)anthracene	175.4	6.6	166.7	0	105	50-130	0			
Fluoranthene	160.3	6.6	166.7	0	96.2	50-131	0			
Fluorene	154	6.6	166.7	0	92.4	50-125	0			
Indeno(1,2,3-cd)pyrene	177.8	6.6	166.7	0	107	45-139	0			
Naphthalene	156.8	6.6	166.7	0	94.1	50-125	0			
Phenanthrene	167.1	6.6	166.7	0	100	50-125	0			
Pyrene	159.5	6.6	166.7	0	95.7	45-130	0			
Surr: 2-Fluorobiphenyl	*147.9*	6.6	*166.7*	0	*88.7*	*43-125*	0			
Surr: 4-Terphenyl-d14	*135.6*	6.6	*166.7*	0	*81.3*	*32-125*	0			
Surr: Nitrobenzene-d5	*150.1*	6.6	*166.7*	0	*90.1*	*37-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36441** Instrument ID **SV-4** Method: **SW8270**

MS Sample ID: **0906137-01AMS** Units: **µg/Kg** Analysis Date: **6/11/2009 11:06 PM**

Client ID: **AH#1 2-1/2'** Run ID: **SV-4_090611B** SeqNo: **1693967** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	230.1	6.6	166.6	113.2	70.2	50-120	0			
Acenaphthylene	157.8	6.6	166.6	0	94.8	50-120	0			
Anthracene	295.3	6.6	166.6	110.4	111	50-123	0			
Benz(a)anthracene	308.7	6.6	166.6	133.1	105	50-131	0			
Benzo(a)pyrene	292.1	6.6	166.6	121.8	102	50-130	0			
Benzo(b)fluoranthene	243.6	6.6	166.6	62.42	109	50-137	0			
Benzo(g,h,i)perylene	214.3	6.6	166.6	53.18	96.7	50-130	0			
Benzo(k)fluoranthene	165.2	6.6	166.6	8.936	93.8	50-143	0			
Chrysene	428.5	6.6	166.6	216.6	127	50-130	0			E
Dibenz(a,h)anthracene	229.1	6.6	166.6	29.3	120	50-130	0			
Fluoranthene	217.8	6.6	166.6	54.56	98	50-131	0			
Fluorene	398.8	6.6	166.6	247.1	91.1	50-125	0			E
Indeno(1,2,3-cd)pyrene	214.9	6.6	166.6	0	129	45-139	0			
Naphthalene	531.5	6.6	166.6	433.2	59	50-125	0			E
Phenanthrene	846.2	6.6	166.6	627.1	132	50-125	0			SE
Pyrene	448	6.6	166.6	231.5	130	45-130	0			SE
Surr: 2-Fluorobiphenyl	*130.1*	6.6	*166.6*	0	*78.1*	*43-125*	0			
Surr: 4-Terphenyl-d14	*183.5*	6.6	*166.6*	0	*110*	*32-125*	0			
Surr: Nitrobenzene-d5	*141.4*	6.6	*166.6*	0	*84.9*	*37-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36441** Instrument ID **SV-4** Method: **SW8270**

MSD Sample ID: **0906137-01AMSD** Units: **µg/Kg** Analysis Date: **6/11/2009 11:29 PM**

Client ID: **AH#1 2-1/2'** Run ID: **SV-4_090611B** SeqNo: **1693968** Prep Date: **6/5/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	224.8	6.6	166.3	113.2	67.1	50-120	230.1	2.34	30	
Acenaphthylene	156.9	6.6	166.3	0	94.3	50-120	157.8	0.575	30	
Anthracene	276.6	6.6	166.3	110.4	99.9	50-123	295.3	6.55	30	
Benz(a)anthracene	280.5	6.6	166.3	133.1	88.6	50-131	308.7	9.56	30	
Benzo(a)pyrene	293.6	6.6	166.3	121.8	103	50-130	292.1	0.503	30	
Benzo(b)fluoranthene	252.2	6.6	166.3	62.42	114	50-137	243.6	3.48	30	
Benzo(g,h,i)perylene	229.9	6.6	166.3	53.18	106	50-130	214.3	7.03	30	
Benzo(k)fluoranthene	176.2	6.6	166.3	8.936	101	50-143	165.2	6.48	30	
Chrysene	394.8	6.6	166.3	216.6	107	50-130	428.5	8.18	30	E
Dibenz(a,h)anthracene	244.9	6.6	166.3	29.3	130	50-130	229.1	6.65	30	
Fluoranthene	206.5	6.6	166.3	54.56	91.3	50-131	217.8	5.32	30	
Fluorene	392.1	6.6	166.3	247.1	87.2	50-125	398.8	1.7	30	E
Indeno(1,2,3-cd)pyrene	293.9	6.6	166.3	0	177	45-139	214.9	31	30	SR
Naphthalene	539	6.6	166.3	433.2	63.6	50-125	531.5	1.41	30	E
Phenanthrene	772.8	6.6	166.3	627.1	87.6	50-125	846.2	9.07	30	E
Pyrene	433	6.6	166.3	231.5	121	45-130	448	3.41	30	E
Surr: 2-Fluorobiphenyl	*121.6*	6.6	*166.3*	0	*73.1*	*43-125*	130.1	*6.78*	*30*	
Surr: 4-Terphenyl-d14	*172.2*	6.6	*166.3*	0	*104*	*32-125*	183.5	*6.31*	*30*	
Surr: Nitrobenzene-d5	*133.2*	6.6	*166.3*	0	*80.1*	*37-125*	141.4	*6.02*	*30*	

The following samples were analyzed in this batch:

0906137-01A	0906137-02A	0906137-03A
0906137-04A	0906137-05A	0906137-06A
0906137-07A	0906137-08A	0906137-09A
0906137-10A	0906137-11A	0906137-12A
0906137-13A	0906137-14A	0906137-15A
0906137-16A	0906137-17A	0906137-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36461** Instrument ID **SV-2** Method: **SW8270**

MBLK Sample ID: **SBLKS1-090608-36461** Units: **µg/Kg** Analysis Date: **6/15/2009 12:16 PM**

Client ID: Run ID: **SV-2_090615A** SeqNo: **1699724** Prep Date: **6/8/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.6								
Acenaphthylene	ND	6.6								
Anthracene	ND	6.6								
Benz(a)anthracene	ND	6.6								
Benzo(a)pyrene	ND	6.6								
Benzo(b)fluoranthene	ND	6.6								
Benzo(g,h,i)perylene	ND	6.6								
Benzo(k)fluoranthene	ND	6.6								
Chrysene	ND	6.6								
Dibenz(a,h)anthracene	ND	6.6								
Fluoranthene	ND	6.6								
Fluorene	ND	6.6								
Indeno(1,2,3-cd)pyrene	ND	6.6								
Naphthalene	ND	6.6								
Phenanthrene	ND	6.6								
Pyrene	ND	6.6								
Surr: 2-Fluorobiphenyl	*126.2*	6.6	*166.7*	0	*75.7*	*43-125*		0		
Surr: 4-Terphenyl-d14	*133.8*	6.6	*166.7*	0	*80.3*	*32-125*		0		
Surr: Nitrobenzene-d5	*126.2*	6.6	*166.7*	0	*75.7*	*37-125*		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36461** Instrument ID **SV-2** Method: **SW8270**

LCS Sample ID: **SLCSS1-090608-36461** Units: **µg/Kg** Analysis Date: **6/15/2009 12:37 PM**

Client ID: Run ID: **SV-2_090615A** SeqNo: **1699725** Prep Date: **6/8/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	144.4	6.6	166.7	0	86.6	50-120	0			
Acenaphthylene	148.1	6.6	166.7	0	88.9	50-120	0			
Anthracene	148.7	6.6	166.7	0	89.2	50-123	0			
Benz(a)anthracene	147.7	6.6	166.7	0	88.6	50-131	0			
Benzo(a)pyrene	143.4	6.6	166.7	0	86	50-130	0			
Benzo(b)fluoranthene	147.9	6.6	166.7	0	88.7	50-137	0			
Benzo(g,h,i)perylene	137.8	6.6	166.7	0	82.7	50-130	0			
Benzo(k)fluoranthene	138.4	6.6	166.7	0	83	50-143	0			
Chrysene	145.8	6.6	166.7	0	87.5	50-130	0			
Dibenz(a,h)anthracene	124.7	6.6	166.7	0	74.8	50-130	0			
Fluoranthene	148.3	6.6	166.7	0	89	50-131	0			
Fluorene	149.3	6.6	166.7	0	89.6	50-125	0			
Indeno(1,2,3-cd)pyrene	142	6.6	166.7	0	85.2	45-139	0			
Naphthalene	142	6.6	166.7	0	85.2	50-125	0			
Phenanthrene	151.5	6.6	166.7	0	90.9	50-125	0			
Pyrene	148.4	6.6	166.7	0	89.1	45-130	0			
Surr: 2-Fluorobiphenyl	*141.4*	6.6	*166.7*	0	*84.9*	*43-125*	0			
Surr: 4-Terphenyl-d14	*132.1*	6.6	*166.7*	0	*79.2*	*32-125*	0			
Surr: Nitrobenzene-d5	*136.8*	6.6	*166.7*	0	*82.1*	*37-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36461** Instrument ID **SV-2** Method: **SW8270**

MS Sample ID: **0906137-21AMS** Units: **µg/Kg** Analysis Date: **6/15/2009 01:19 PM**

Client ID: **AH#21 2-1/2'** Run ID: **SV-2_090615A** SeqNo: **1699726** Prep Date: **6/8/2009** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	81.15	6.6	166.6	0	48.7	50-120	0			S
Acenaphthylene	86.32	6.6	166.6	0	51.8	50-120	0			
Anthracene	112.1	6.6	166.6	0	67.3	50-123	0			
Benz(a)anthracene	122.8	6.6	166.6	0	73.7	50-131	0			
Benzo(a)pyrene	122.5	6.6	166.6	0	73.5	50-130	0			
Benzo(b)fluoranthene	126	6.6	166.6	0	75.6	50-137	0			
Benzo(g,h,i)perylene	121.8	6.6	166.6	0	73.1	50-130	0			
Benzo(k)fluoranthene	116.8	6.6	166.6	0	70.1	50-143	0			
Chrysene	123.6	6.6	166.6	0	74.2	50-130	0			
Dibenz(a,h)anthracene	121.7	6.6	166.6	0	73	50-130	0			
Fluoranthene	125.3	6.6	166.6	0	75.2	50-131	0			
Fluorene	94.67	6.6	166.6	0	56.8	50-125	0			
Indeno(1,2,3-cd)pyrene	133.8	6.6	166.6	0	80.3	45-139	0			
Naphthalene	72.75	6.6	166.6	0	43.7	50-125	0			S
Phenanthrene	117	6.6	166.6	7.351	65.8	50-125	0			
Pyrene	125.8	6.6	166.6	0	75.5	45-130	0			
Surr: 2-Fluorobiphenyl	*82.23*	6.6	*166.6*	0	*49.4*	*43-125*	0			
Surr: 4-Terphenyl-d14	*110*	6.6	*166.6*	0	*66*	*32-125*	0			
Surr: Nitrobenzene-d5	*72.5*	6.6	*166.6*	0	*43.5*	*37-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36461** Instrument ID **SV-2** Method: **SW8270**

MSD Sample ID: **0906137-21AMSD** Units: **µg/Kg** Analysis Date: **6/15/2009 01:40 PM**

Client ID: **AH#21 2-1/2'** Run ID: **SV-2_090615A** SeqNo: **1699729** Prep Date: **6/8/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	125.9	6.6	166.5	0	75.6	50-120	81.15	43.2	30	R
Acenaphthylene	132.4	6.6	166.5	0	79.5	50-120	86.32	42.1	30	R
Anthracene	143.2	6.6	166.5	0	86	50-123	112.1	24.4	30	
Benz(a)anthracene	144.2	6.6	166.5	0	86.6	50-131	122.8	16	30	
Benzo(a)pyrene	135.2	6.6	166.5	0	81.2	50-130	122.5	9.82	30	
Benzo(b)fluoranthene	146.2	6.6	166.5	0	87.8	50-137	126	14.9	30	
Benzo(g,h,i)perylene	136.4	6.6	166.5	0	81.9	50-130	121.8	11.2	30	
Benzo(k)fluoranthene	121.9	6.6	166.5	0	73.2	50-143	116.8	4.24	30	
Chrysene	142.8	6.6	166.5	0	85.7	50-130	123.6	14.4	30	
Dibenz(a,h)anthracene	136.2	6.6	166.5	0	81.8	50-130	121.7	11.2	30	
Fluoranthene	145.6	6.6	166.5	0	87.4	50-131	125.3	14.9	30	
Fluorene	130	6.6	166.5	0	78	50-125	94.67	31.4	30	R
Indeno(1,2,3-cd)pyrene	139.2	6.6	166.5	0	83.6	45-139	133.8	3.95	30	
Naphthalene	125.7	6.6	166.5	0	75.5	50-125	72.75	53.4	30	R
Phenanthrene	148.6	6.6	166.5	7.351	84.8	50-125	117	23.8	30	
Pyrene	146.8	6.6	166.5	0	88.2	45-130	125.8	15.4	30	
Surr: 2-Fluorobiphenyl	*126.3*	6.6	*166.5*	0	*75.9*	*43-125*	82.23	*42.3*	*30*	*R*
Surr: 4-Terphenyl-d14	*129*	6.6	*166.5*	0	*77.5*	*32-125*	110	*15.9*	*30*	
Surr: Nitrobenzene-d5	*119.8*	6.6	*166.5*	0	*72*	*37-125*	72.5	*49.2*	*30*	*R*

The following samples were analyzed in this batch:

0906137-19A	0906137-20A	0906137-21A
0906137-22A	0906137-23A	0906137-24A
0906137-25A	0906137-26A	0906137-27A
0906137-28A	0906137-29A	0906137-30A
0906137-31A	0906137-32A	0906137-33A
0906137-34A	0906137-35A	0906137-36A
0906137-37A	0906137-38A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36462** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKS2-090608-36462** Units: **µg/Kg** Analysis Date: **6/9/2009 02:44 PM**

Client ID: Run ID: **SV-4_090609A** SeqNo: **1693419** Prep Date: **6/8/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.6								
Acenaphthylene	ND	6.6								
Anthracene	ND	6.6								
Benz(a)anthracene	ND	6.6								
Benzo(a)pyrene	ND	6.6								
Benzo(b)fluoranthene	ND	6.6								
Benzo(g,h,i)perylene	ND	6.6								
Benzo(k)fluoranthene	ND	6.6								
Chrysene	ND	6.6								
Dibenz(a,h)anthracene	ND	6.6								
Fluoranthene	ND	6.6								
Fluorene	ND	6.6								
Indeno(1,2,3-cd)pyrene	ND	6.6								
Naphthalene	ND	6.6								
Phenanthrene	ND	6.6								
Pyrene	ND	6.6								
Surr: 2-Fluorobiphenyl	*105.5*	6.6	*166.7*	0	*63.3*	*43-125*		0		
Surr: 4-Terphenyl-d14	*108.5*	6.6	*166.7*	0	*65.1*	*32-125*		0		
Surr: Nitrobenzene-d5	*109.5*	6.6	*166.7*	0	*65.7*	*37-125*		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36462** Instrument ID **SV-4** Method: **SW8270**

LCS Sample ID: **SLCSS2-090608-36462** Units: **µg/Kg** Analysis Date: **6/9/2009 05:46 PM**

Client ID: Run ID: **SV-4_090609A** SeqNo: **1693420** Prep Date: **6/8/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	107.2	6.6	166.7	0	64.3	50-120	0			
Acenaphthylene	98.18	6.6	166.7	0	58.9	50-120	0			
Anthracene	121.7	6.6	166.7	0	73	50-123	0			
Benz(a)anthracene	118.2	6.6	166.7	0	70.9	50-131	0			
Benzo(a)pyrene	127.2	6.6	166.7	0	76.3	50-130	0			
Benzo(b)fluoranthene	155.8	6.6	166.7	0	93.5	50-137	0			
Benzo(g,h,i)perylene	116.5	6.6	166.7	0	69.9	50-130	0			
Benzo(k)fluoranthene	118.9	6.6	166.7	0	71.3	50-143	0			
Chrysene	118.4	6.6	166.7	0	71	50-130	0			
Dibenz(a,h)anthracene	118.8	6.6	166.7	0	71.3	50-130	0			
Fluoranthene	120.3	6.6	166.7	0	72.2	50-131	0			
Fluorene	117.3	6.6	166.7	0	70.4	50-125	0			
Indeno(1,2,3-cd)pyrene	134.2	6.6	166.7	0	80.5	45-139	0			
Naphthalene	115.3	6.6	166.7	0	69.2	50-125	0			
Phenanthrene	119.3	6.6	166.7	0	71.6	50-125	0			
Pyrene	120.5	6.6	166.7	0	72.3	45-130	0			
Surr: 2-Fluorobiphenyl	*109.5*	6.6	*166.7*	0	*65.7*	*43-125*	0			
Surr: 4-Terphenyl-d14	*107.2*	6.6	*166.7*	0	*64.3*	*32-125*	0			
Surr: Nitrobenzene-d5	*109.5*	6.6	*166.7*	0	*65.7*	*37-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36462** Instrument ID **SV-4** Method: **SW8270**

MS Sample ID: **0905637-01CMS** Units: **µg/Kg** Analysis Date: **6/9/2009 06:30 PM**

Client ID: Run ID: **SV-4_090609A** SeqNo: **1693423** Prep Date: **6/8/2009** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	411.5	33	166.4	192	132	50-120	0			S
Acenaphthylene	217.9	33	166.4	71.19	88.2	50-120	0			
Anthracene	304.8	33	166.4	124.4	108	50-123	0			
Benz(a)anthracene	503.9	33	166.4	384	72	50-131	0			
Benzo(a)pyrene	514.4	33	166.4	361.9	91.7	50-130	0			
Benzo(b)fluoranthene	345.9	33	166.4	89.37	154	50-137	0			S
Benzo(g,h,i)perylene	264.4	33	166.4	126.8	82.7	50-130	0			
Benzo(k)fluoranthene	321.7	33	166.4	136.5	111	50-143	0			
Chrysene	872.2	33	166.4	519.3	212	50-130	0			S
Dibenz(a,h)anthracene	174.9	33	166.4	0	105	50-130	0			
Fluoranthene	305.7	33	166.4	157.3	89.2	50-131	0			
Fluorene	835.2	33	166.4	502.9	200	50-125	0			S
Indeno(1,2,3-cd)pyrene	291.1	33	166.4	122.7	101	45-139	0			
Naphthalene	342.9	33	166.4	85.81	155	50-125	0			S
Phenanthrene	1986	33	166.4	1462	314	50-125	0			SEO
Pyrene	1161	33	166.4	1151	6.52	45-130	0			SO
Surr: 2-Fluorobiphenyl	*189.3*	33	*166.4*	0	*114*	*43-125*	0			
Surr: 4-Terphenyl-d14	*155.2*	33	*166.4*	0	*93.3*	*32-125*	0			
Surr: Nitrobenzene-d5	*176.7*	33	*166.4*	0	*106*	*37-125*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0906137
Project: Navajo PG Loading Rack

QC BATCH REPORT

Batch ID: **36462** Instrument ID **SV-4** Method: **SW8270**

MSD Sample ID: **0905637-01CMSD** Units: **µg/Kg** Analysis Date: **6/9/2009 06:51 PM**

Client ID: Run ID: **SV-4_090609A** SeqNo: **1693425** Prep Date: **6/8/2009** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	198.9	33	166.6	192	4.16	50-120	411.5	69.6	30	SR
Acenaphthylene	208.2	33	166.6	71.19	82.3	50-120	217.9	4.54	30	
Anthracene	97.65	33	166.6	124.4	-16.1	50-123	304.8	103	30	SR
Benz(a)anthracene	716.5	33	166.6	384	200	50-131	503.9	34.8	30	SR
Benzo(a)pyrene	ND	33	166.6	361.9	-217	50-130	514.4	0	30	S
Benzo(b)fluoranthene	288.4	33	166.6	89.37	119	50-137	345.9	18.1	30	
Benzo(g,h,i)perylene	ND	33	166.6	126.8	-76.1	50-130	264.4	0	30	S
Benzo(k)fluoranthene	241.9	33	166.6	136.5	63.3	50-143	321.7	28.3	30	
Chrysene	798.6	33	166.6	519.3	168	50-130	872.2	8.81	30	S
Dibenz(a,h)anthracene	57.04	33	166.6	0	34.2	50-130	174.9	102	30	SR
Fluoranthene	256.5	33	166.6	157.3	59.6	50-131	305.7	17.5	30	
Fluorene	924.3	33	166.6	502.9	253	50-125	835.2	10.1	30	S
Indeno(1,2,3-cd)pyrene	54.26	33	166.6	122.7	-41.1	45-139	291.1	137	30	SR
Naphthalene	215.3	33	166.6	85.81	77.7	50-125	342.9	45.7	30	R
Phenanthrene	1946	33	166.6	1462	290	50-125	1986	2	30	SEO
Pyrene	2298	33	166.6	1151	688	45-130	1161	65.7	30	SREO
Surr: 2-Fluorobiphenyl	*183.8*	33	*166.6*	0	*110*	*43-125*	189.3	*2.92*	*30*	
Surr: 4-Terphenyl-d14	*151.8*	33	*166.6*	0	*91.1*	*32-125*	155.2	*2.17*	*30*	
Surr: Nitrobenzene-d5	*112.8*	33	*166.6*	0	*67.7*	*37-125*	176.7	*44.2*	*30*	*R*

The following samples were analyzed in this batch: 0906137-39A 0906137-40A 0906137-41A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Project: Navajo PG Loading Rack
WorkOrder: 0906137

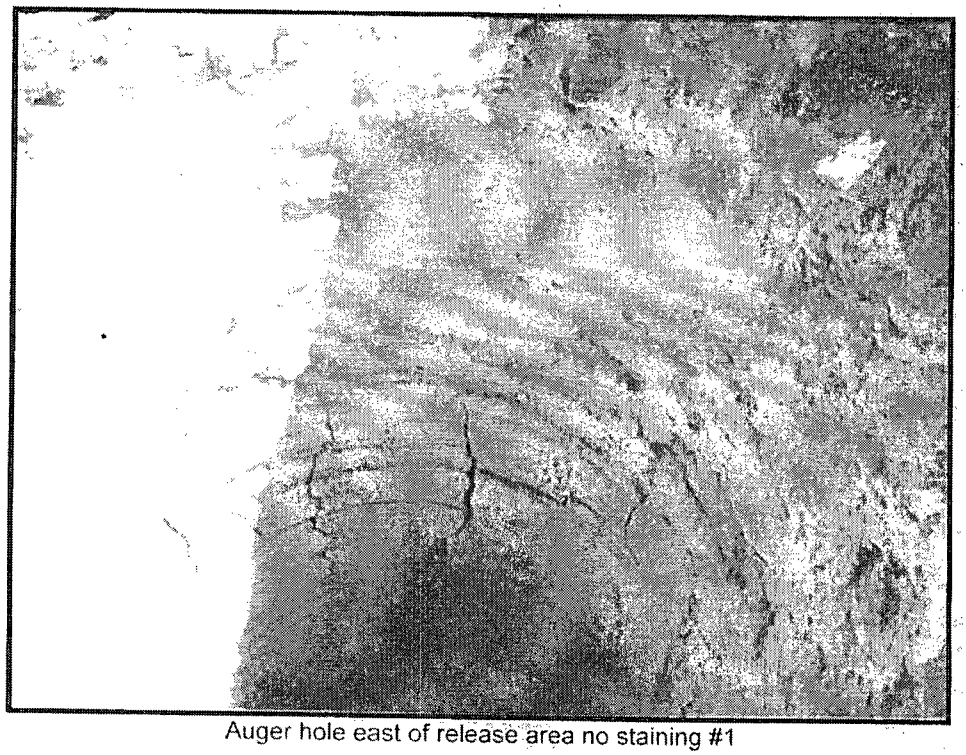
QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

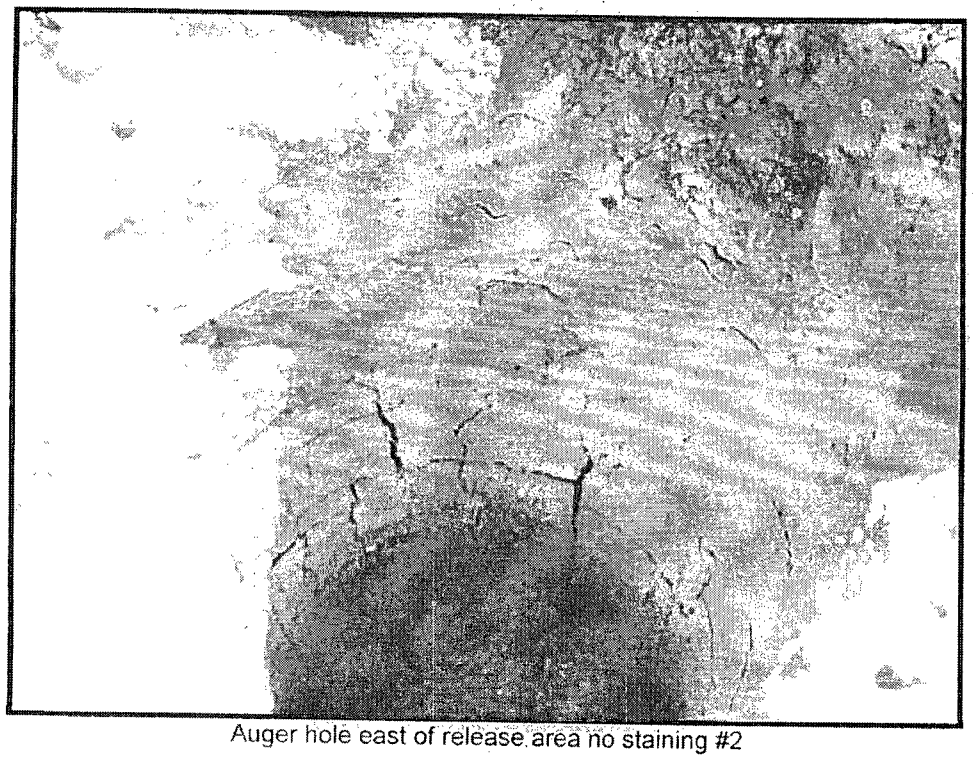
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/Kg	Milligrams per Kilogram

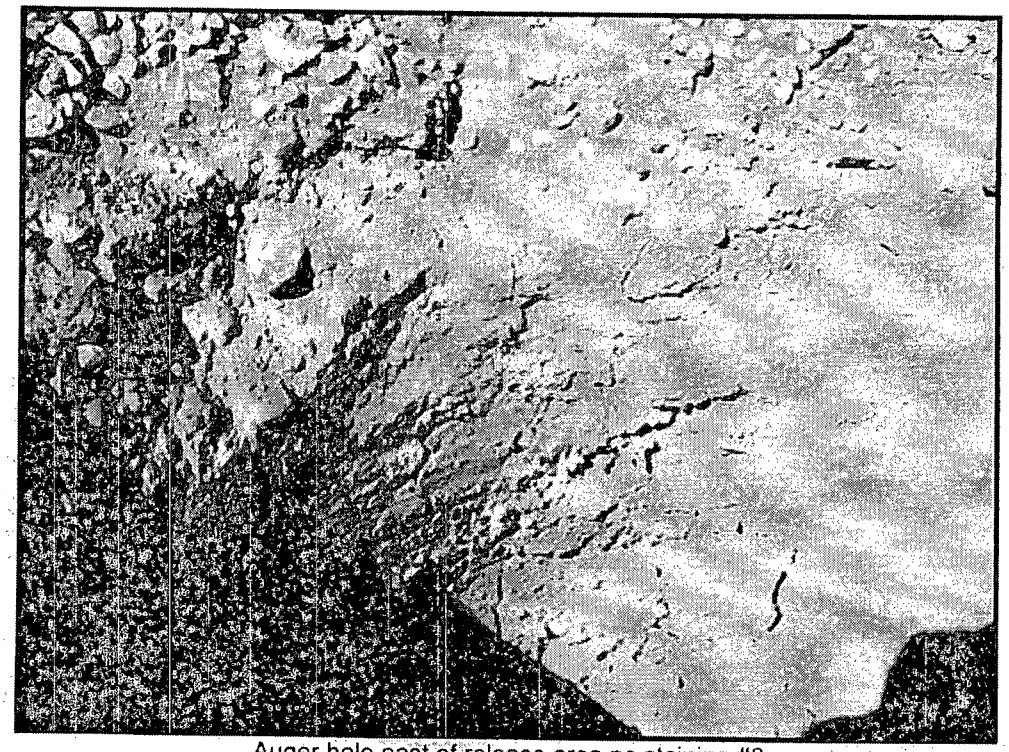
Appendix B
Site Photos



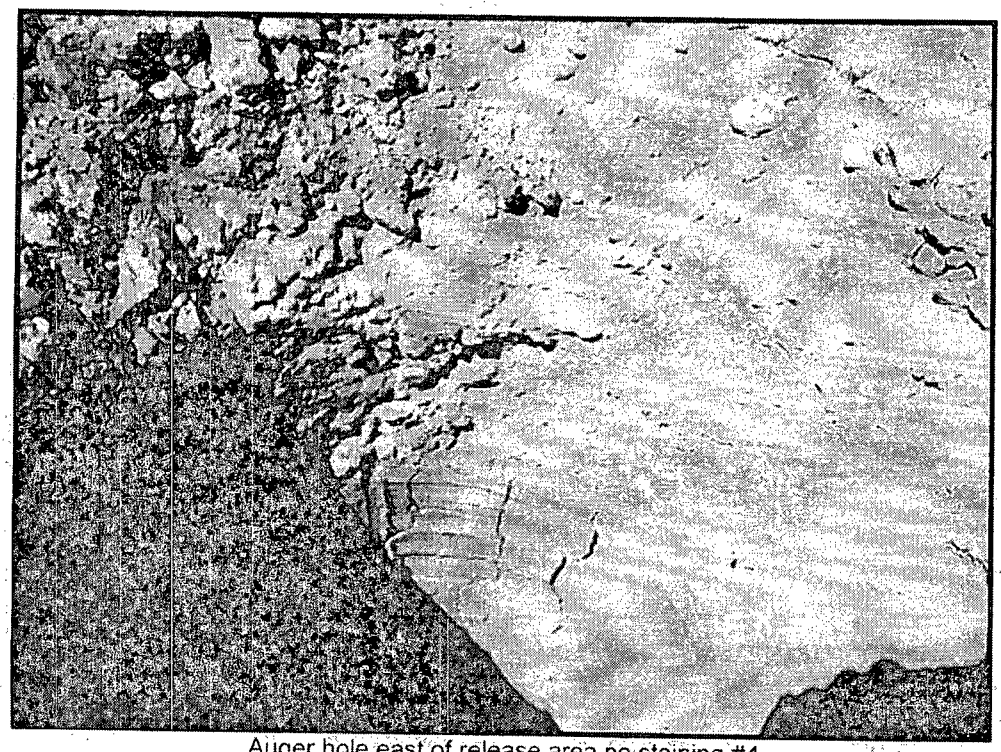
Auger hole east of release area no staining #1



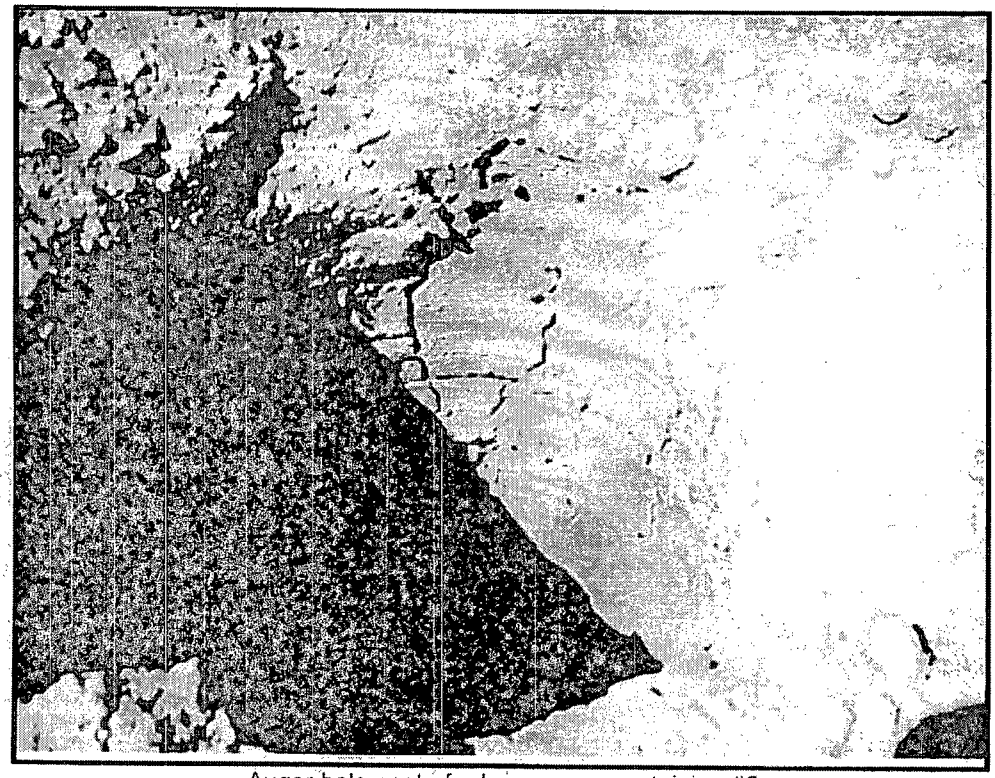
Auger hole east of release area no staining #2



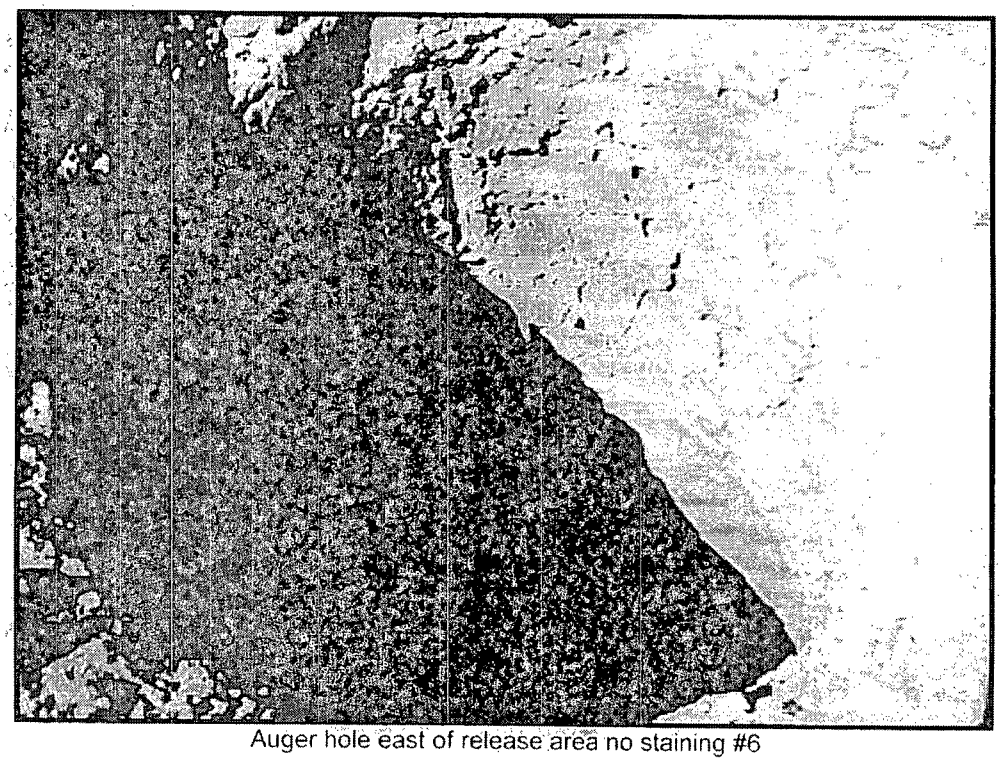
Auger hole east of release area no staining #3



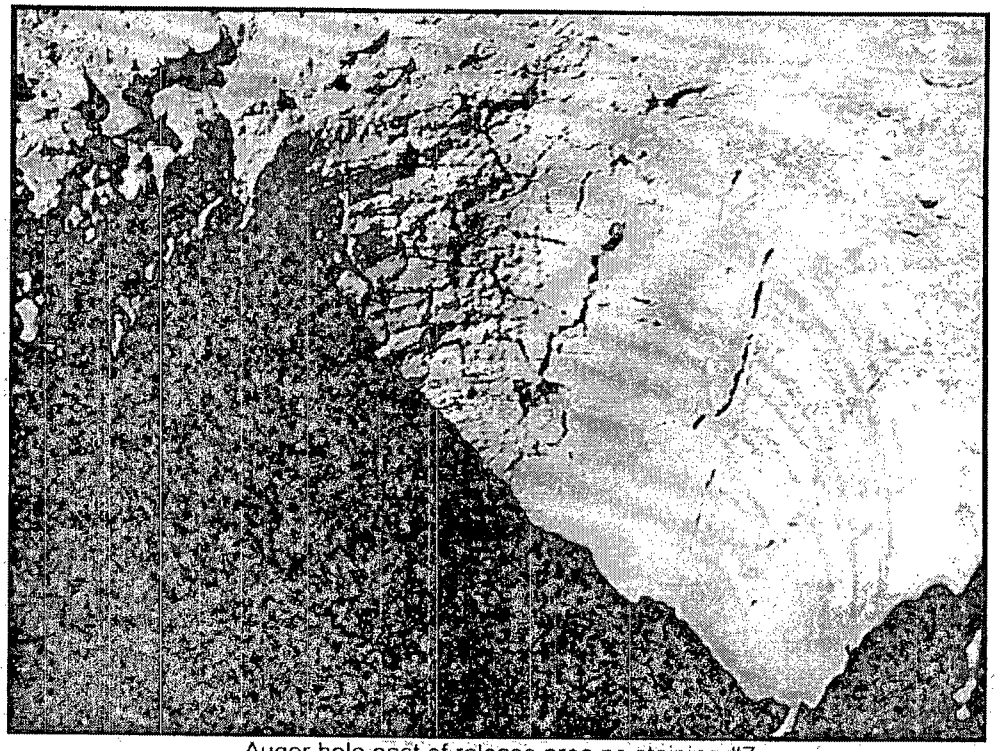
Auger hole east of release area no staining #4



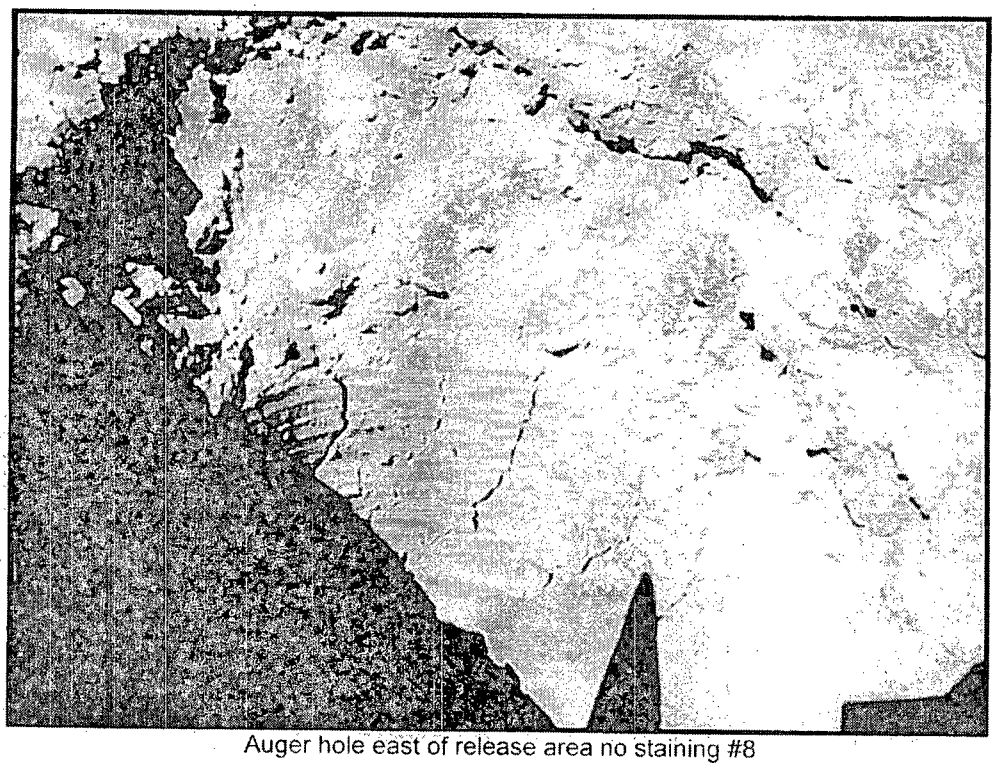
Auger hole east of release area no staining #5



Auger hole east of release area no staining #6

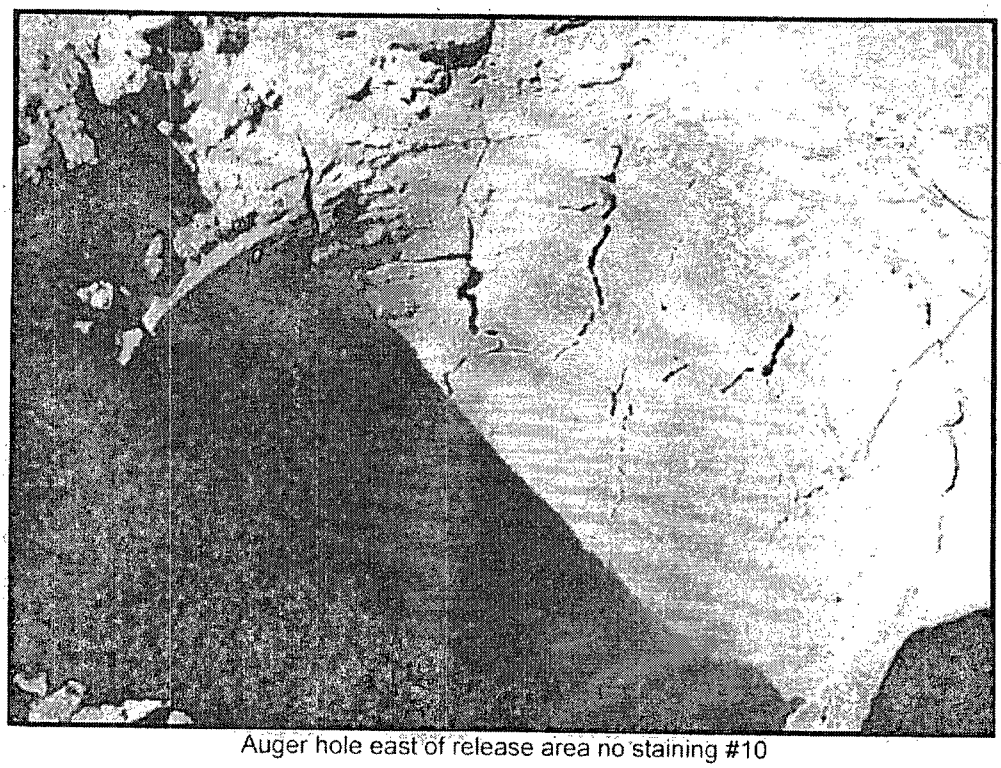


Auger hole east of release area no staining #7

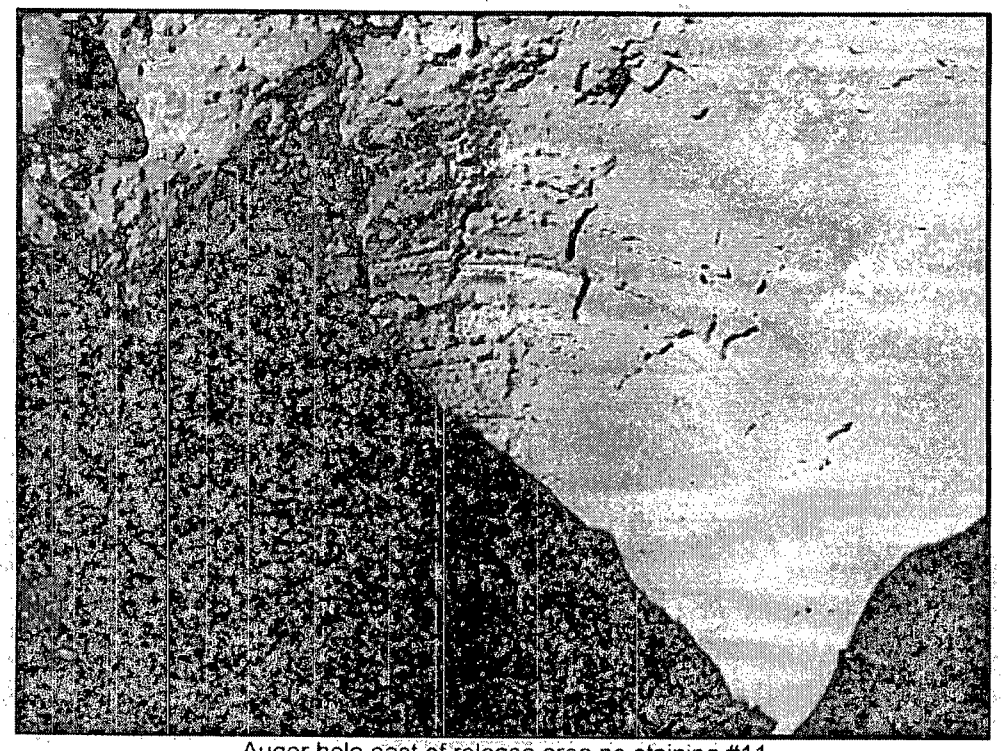


Auger hole east of release area no staining #8

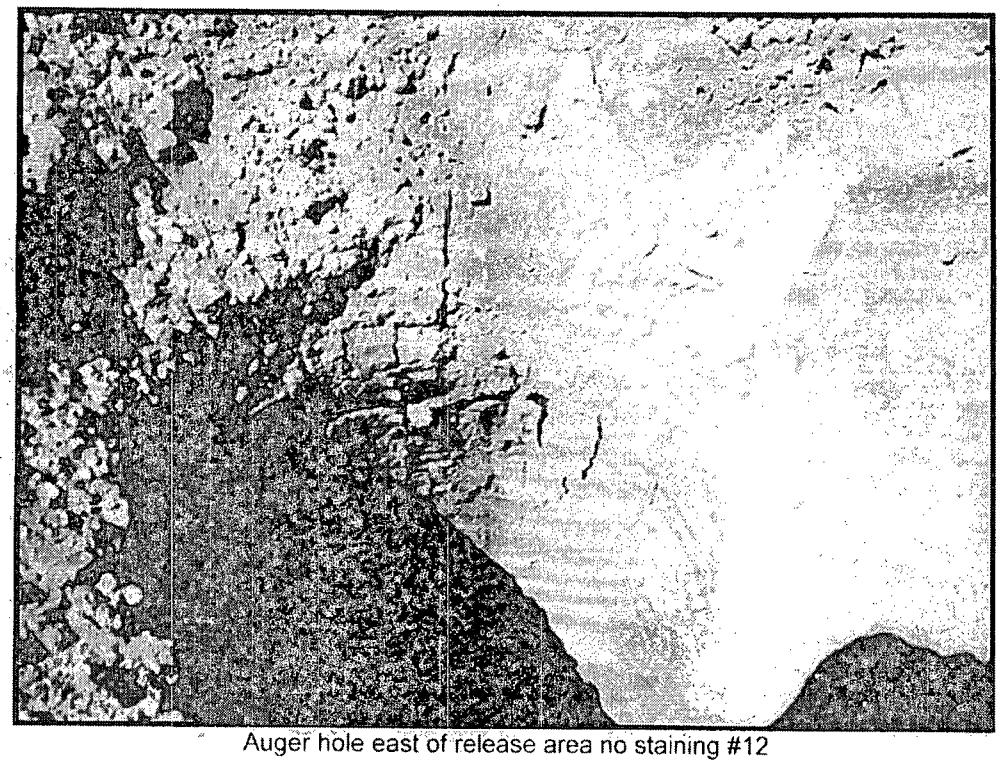
Auger hole east of release area no staining #9



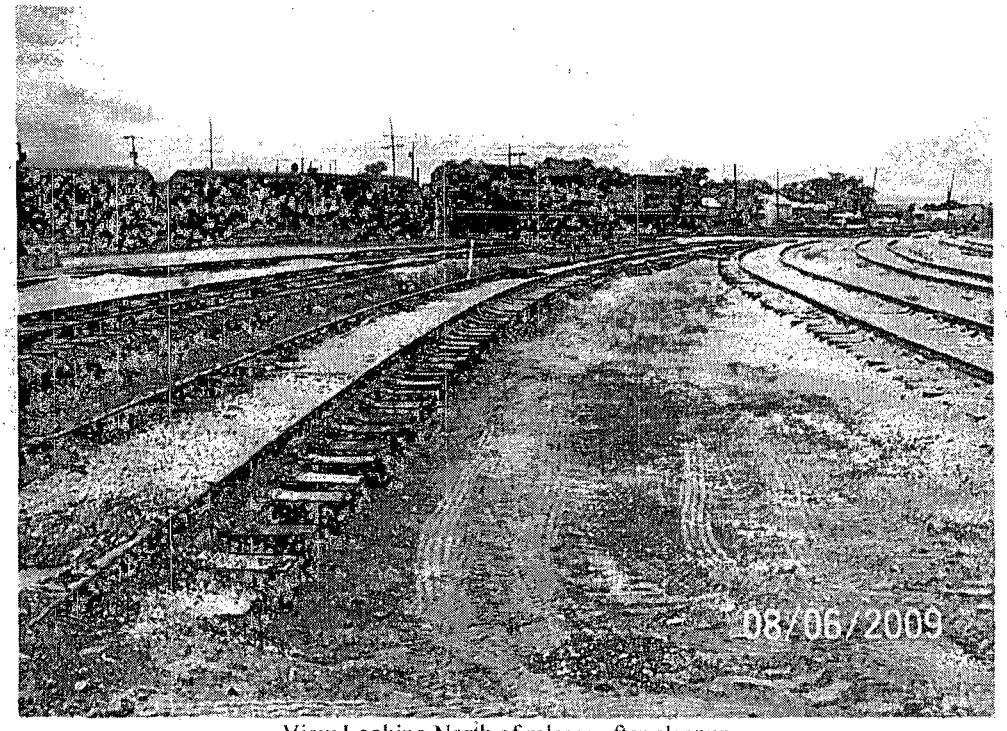
Auger hole east of release area no staining #10



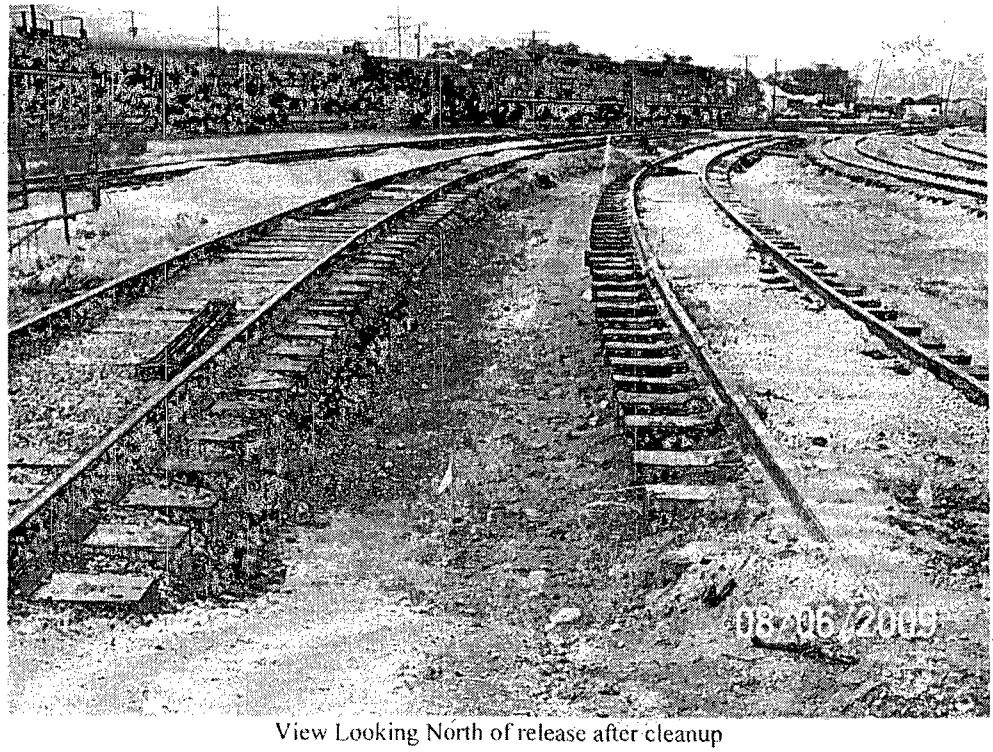
Auger hole east of release area no staining #11



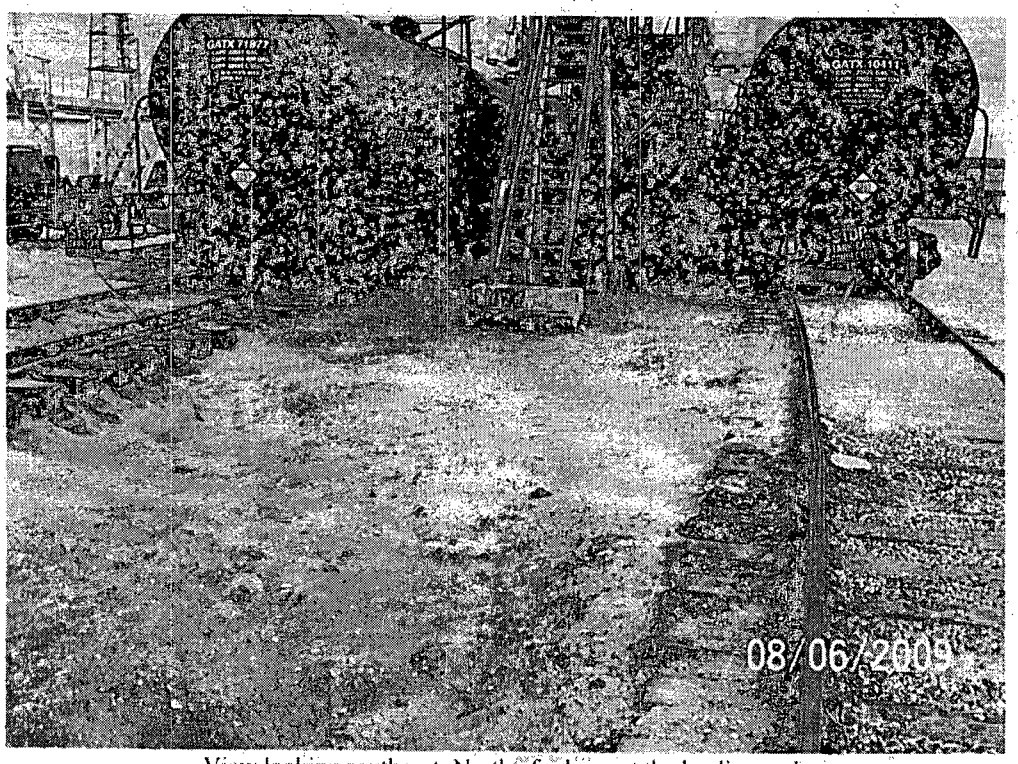
Auger hole east of release area no staining #12



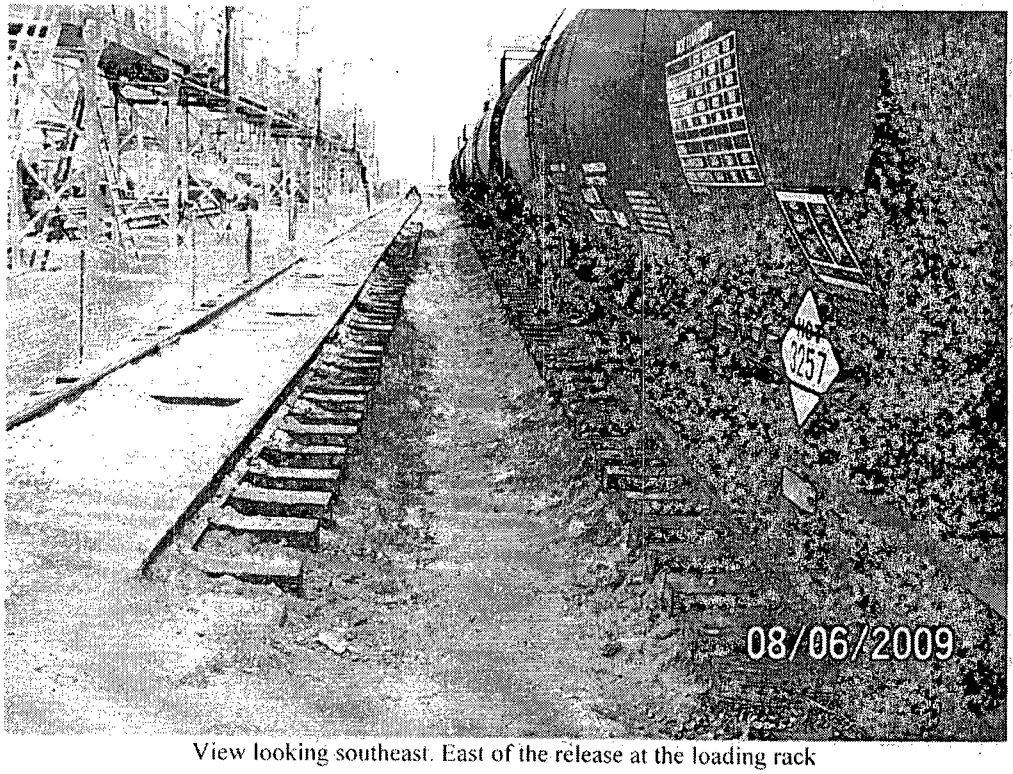
View Looking North of release after cleanup



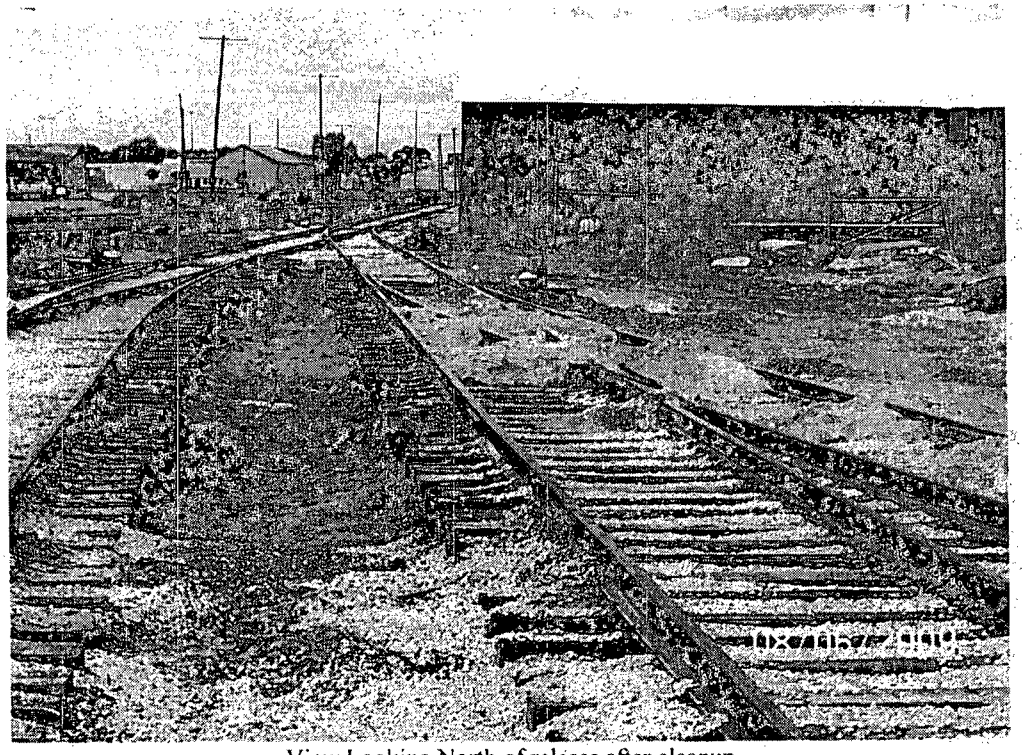
View Looking North of release after cleanup



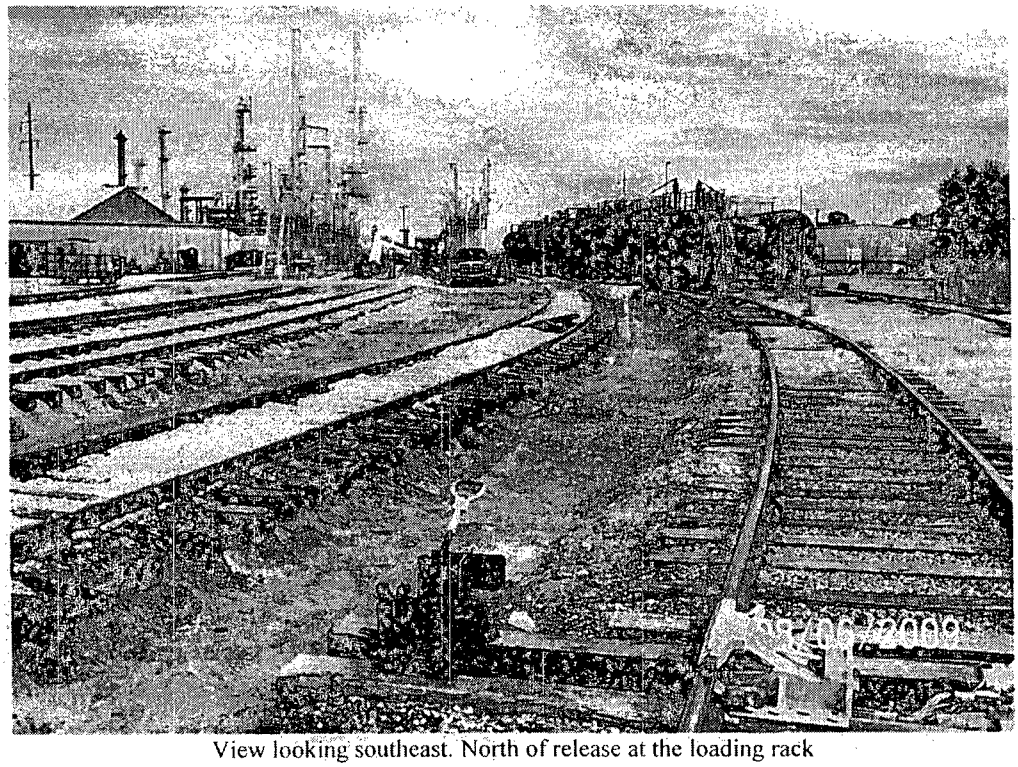
View looking southeast. North of release at the loading rack



View looking southeast. East of the release at the loading rack



View Looking North of release after cleanup



View looking southeast. North of release at the loading rack

View Looking North of release after cleanup

Appendix C
C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

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

NON-HAZARDOUS WASTE MANIFEST 33235

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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	10yds				

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.

Carri Hunard
Signature of Generator's Authorized Agent

Date and Time of Shipment

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

Name SBrothers
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

06-08-09
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 11:39 AM
Date and Time Received.

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST 33231

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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 10yds

P.C. 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 SBrothers
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

06.04.09
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

6-4-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33234

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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	10yds

P.G. Lack

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 SBrothers
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

06-05-09
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

6-05-09
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 Ashpalt					
Brn # 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 Shinn 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

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 Ashpalt 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.

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

6-10-09 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.

Dirt

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.

Signature of Transporter's Agent _____ Date and Time Received 6-10-09

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 6-10-09

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
~~Contaminated Soil~~ ~~12 yds~~ 10yds
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

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

6-11-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33227

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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	10yds				

PO 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 SBrothers
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

01-03-09
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

1-3-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST 33233

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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 10yds

PC 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 SBrothers
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

06-02-09
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

6-2-09
Date and Time Received

THE COLOR PRINTER #7520-A

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.w # 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

6-1-07
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

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.** **(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

6-1-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST 33229

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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	10yds
P.C. 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.

Carrie Hunnam
Signature of Generator's Authorized Agent

Date and Time of Shipment

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

Name SBrothers
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

6-01-09
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

33232

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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	10yds

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.

Connie Hernandez
Signature of Generator's Authorized Agent

Date and Time of Shipment

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

Name SBrothers
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

06-01-09
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 12:34 PM
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33228

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159
(505) 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	10yds
P.C. 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.

Carrie Hernandez
Signature of Generator's Authorized Agent

Date and Time of Shipment

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

Name SBrothers
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

06-01-09
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

33291

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	
Trash & Debris	~~Tank~~
ASPHALT P&A, Rod	10 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

5-29-09 Date and Time of Shipment

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

Name S Brothers

Address _____ Telephone No.

City/State _____ 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.** **(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

5-29-09 Date and Time Received

THE COLOR PRINTER #7520-A

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	
~~Scrap~~ ASPHALT	~~Loads~~ 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

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

9:29 AM
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

THE COLOR PRINTER #7520-A

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	
~~Collected & Debris~~ ASPHALT	~~12 yds~~ 10 yds
P.G. 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

The Print Shop #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					
PGR Binder 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.** **(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
5-29-09 — Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

32156

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

~~Cont. Soil~~ ~~12 yds~~

Asphalt PC 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

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.

KENG

Signature of Facility Agent

5-29-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

32157

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

~~Cont. Soil~~ 12 yds

Asphalt PC 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

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

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

32159

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

~~Cont. Soil~~ ~~12 yds~~

Asphalt PC 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.

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.

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

05-29-09
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

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

29249

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 [redacted] 10 yds
ASPHALT

P.G. Ruck

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

5-28-09
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

5-28-09
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

5-28-09
Date and Time Received

The Print Shop #7520-A

NON-HAZARDOUS WASTE MANIFEST

29250

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

~~Contaminated Soil~~ 10 yds
ASPHALT

P.G. 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.

Carrie Hernandez
Signature of Generator's Authorized Agent

5-28-09
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

5-28-09
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

5-28-09
Date and Time Received.

The Print Shop #7520-A

NON-HAZARDOUS WASTE MANIFEST

33270

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

( ) 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

P. G Ashpalt 12 Yds

Bin # RB29151 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.

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.

Gary Shamo — 5/28/09
Signature of Transporter's Agent — 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 — 5-28-09 Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33268

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

Bone Yard Bin #2056

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 Sluma Signature of Transporter's Agent

5/28/09 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.

Rene Mendez Signature of Facility Agent

5-28-09 Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

32154

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
~~Cont. Soil 12 yds~~
-Asphalt-
DG 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

5/28/09
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

5-28-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

32155

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
~~Contaminated Soil~~ Asphalt 12 yds
PG 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.

Connie Hinandez
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

5-25-07
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

5-28-07
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

Bin # 20554 ~~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.

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 Shema — 5/27/09
Signature of Transporter's Agent — 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.

Rene Martinez — 5-27-09
Signature of Facility Agent — Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

32153

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

~~Cont. Soil~~ 12 yds

PG Rack - Asphalt -

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

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.

Signature of Facility Agent

5-27-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33230

PART I: Generator Navajo Refining Co.
Address PO Box 159 (505) 748-3311
City/State Artesia, NM 88211-0159 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	10yds				

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 SBrothers
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

06-03-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079**
Address **P.O. Box 388** Telephone No.
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

6-3-09
Date and Time Received

THE COLOR PRINTER #7520-A

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, August 20, 2009 4:39 PM
To: 'Strange, Aaron'
Subject: RE: C-141 Release Notification Artesia Refinery (GW-028)

Information received. 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")

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Thursday, August 20, 2009 4:14 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: Release Notification

Carl and Hope,

Please see the attached C-141.

Thanks,

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Oil Conservation Division
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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: Feed Preheater Exchanger (X-9852) head in Unit #64 (Hydrogen Plant #2)	Date and Hour of Occurrence: 8/18/09 ~ 23:28	Date and Hour of Discovery: 8/18/09 ~ 23:30
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 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 exchanger. The feed gas consists of hydrogen with some CO2, CO, methane and steam. Maintenance repaired the leak by replacing the gasket.

Describe Area Affected and Cleanup Action Taken.*
The fire occurred in Unit #64 from the Feed Preheater Exchanger (X-9852) head. The fire was extinguished using steam hoses and damage was very minor. Some of the insulation on the exchangers was removed and replaced. 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: 8/20/09 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, July 22, 2009 7:59 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Strange, Aaron; Lackey, Johnny
Subject: Fire at Navajo's Artesia Plant

Carl and Hope

We just had a fire at our Artesia Plant...very minor in nature. I don't have the full details yet but there was a minor fire associated with a Heat Exchanger in the FCC unit. The fire was put out immediately and damage was very minor. We will fill out a C-141 and get that to you as soon as we get the full details.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, July 22, 2009 2:06 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Subject: RE: Fire at Navajo's Artesia Plant
Attachments: 2009-07-22 exchanger fire.pdf

Carl and Hope,

Please see the attached C-141 for the fire that occurred today.

Thanks,

Aaron Strange
Environmental Technician, Senior
Off: (575) 746-5468
Cell: (575) 703-5057

From: Moore, Darrell
Sent: Wednesday, July 22, 2009 7:59 AM
To: 'Chavez, Carl J, EMNRD'; 'Monzeglio, Hope, NMENV'
Cc: Strange, Aaron; Lackey, Johnny
Subject: Fire at Navajo's Artesia Plant

Carl and Hope

We just had a fire at our Artesia Plant...very minor in nature. I don't have the full details yet but there was a minor fire associated with a Heat Exchanger in the FCC unit. The fire was put out immediately and damage was very minor. We will fill out a C-141 and get that to you as soon as we get the full details.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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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: ~ 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

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Revised October 10, 2003

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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

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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: ~ 10 barrels	Volume Recovered: ~ 8 barrels
Source of Release: Sewers at D-80 and North of the ISOM unit.	Date and Hour of Occurrence: 6/12/09 ~ 04:00	Date and Hour of Discovery: 6/12/09 ~ 06:30
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 6/12/09 at ~ 04:00 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

Chavez, Carl J, EMNRD

From: Jones, Brad A., EMNRD
Sent: Thursday, May 21, 2009 12:54 PM
To: Chavez, Carl J, EMNRD
Subject: FW: Small fire at Navajo
Attachments: Fire .pdf

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Thursday, May 21, 2009 9:46 AM
To: Jones, Brad A., EMNRD
Subject: Small fire at Navajo

Brad

Attached is a C-141 describing a flash fire we had at the refinery this morning.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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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

Chavez, Carl J, EMNRD

From: Jones, Brad A., EMNRD
Sent: Tuesday, May 12, 2009 7:31 AM
To: Chavez, Carl J, EMNRD
Subject: FW: Release Notification
Attachments: 2009-05-11 T-63 K-170 Spill.pdf

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Monday, May 11, 2009 5:33 PM
To: Jones, Brad A., EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification

Brad and Hope,

Please see the attached Release Notification and Corrective Action form.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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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

Chavez, Carl J, EMNRD

From: Jones, Brad A., EMNRD
Sent: Monday, May 11, 2009 9:03 AM
To: Chavez, Carl J, EMNRD
Subject: FW: Release Notification
Attachments: Release Notification and Corrective Action.pdf

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Friday, May 08, 2009 5:00 PM
To: Jones, Brad A., EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification

Brad and Hope,

Please see the attached Release Notification and Corrective Action form.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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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

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, May 07, 2009 9:30 AM
To: Monzeglio, Hope, NMENV
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Jones, Brad A., EMNRD
Subject: RE: K170 spill

Unfortunately, no this was a separate incident. We did call you along with Brad Jones at OCD. You weren't in your office but we left a message on your voicemail. WE did document those calls.

The incident at CRI is separate from the spill we had yesterday although they both involve K170 from the Tk 63 cleaning. As you mentioned, our vacuum trucks brakes failed and it rolled into a frac tank that contained K170 waste. This broke the manifold on the tank and K170 spilled out. 290 barrels total. We are cleaning up the spilland the waste is being treated as hazardous K170 waste. We have filled out a C-141 and will send that along today.

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, May 07, 2009 9:14 AM
To: Moore, Darrell
Cc: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Jones, Brad A., EMNRD
Subject: K170 spill

Darrell

We received a fax yesterday May 6, 2009 from the National Response Center stating that Navajo had a release; 75 barrels of Listed Hazardous Waste K170 product spilled from a storage tank. A vacuum truck was in the middle of a transfer operation with the storage tank, and the truck rolled back against the tank, breaking the manifold on the tank.

Is this part of the same incident you called about on May 4th or separate? As a reminder, releases must be reported to NMED with 24 hours, refer to Section 1.5.13 (Twenty - four Hour Reporting) of the Post-Closure Care Permit.

Please provide NMED and OCD with additional details to this situation.

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

Chavez, Carl J, EMNRD

From: Jones, Brad A., EMNRD
Sent: Thursday, May 07, 2009 11:16 AM
To: Chavez, Carl J, EMNRD
Subject: FW: Release Notification
Attachments: Release Notification & Corrective Actio.pdf

From: Strange, Aaron [mailto:aaron.strange@hollycorp.com]
Sent: Thursday, May 07, 2009 10:46 AM
To: Jones, Brad A., EMNRD; Monzeglio, Hope, NMENV
Cc: Moore, Darrell
Subject: Release Notification

Brad and Hope,

Please see the attached Release Notification and Corrective Action form.

Aaron Strange
Environmental Technician, Senior
Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

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Form C-141
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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

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, April 22, 2009 11:23 AM
To: Jones, Brad A., EMNRD; Chavez, Carl J, EMNRD
Subject: Tk 409 Fire
Attachments: Tk 409 Fire.pdf

Attached is the C-141 for the fire in Tk 409.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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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	

Chavez, Carl J, EMNRD

From: Jones, Brad A., EMNRD
Sent: Tuesday, April 21, 2009 11:32 AM
To: Chavez, Carl J, EMNRD
Subject: FW: Fire at Artesias Plant

From: Bratcher, Mike, EMNRD
Sent: Tuesday, April 21, 2009 11:32 AM
To: Jones, Brad A., EMNRD; Fesmire, Mark, EMNRD; VonGonten, Glenn, EMNRD; Bonham, Sherry, EMNRD
Subject: RE: Fire at Artesias Plant

I just met with Darrell Moore w/Navajo. The tank had been emptied to prep for cleaning. The man-way cover had been removed a few days ago but LELs were too elevated to allow for personnel entry yesterday. The cause of the explosion and resulting fire is still under investigation. There were no injuries.

L:\Artesia\Pictures\Navajo_Refinery\4.21.09

Mike Bratcher

From: Jones, Brad A., EMNRD
Sent: Tuesday, April 21, 2009 10:29 AM
To: Fesmire, Mark, EMNRD; VonGonten, Glenn, EMNRD; Bonham, Sherry, EMNRD
Cc: Bratcher, Mike, EMNRD
Subject: FW: Fire at Artesias Plant

FYI...

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Tuesday, April 21, 2009 10:26 AM
To: Jones, Brad A., EMNRD
Cc: Chavez, Carl J, EMNRD; Lackey, Johnny
Subject: Fire at Artesias Plant

Gentlemen,

At approximately 9:45 am on April 21, 2009, Tk 409 exploded at this plant. This tank is a De Asphalted Oil (DAO) tank that provides feed to the FCC Unit. There was a fire and a huge cloud of black smoke that drifted to the south. Hiway 82 was closed by the Artesia PD for about 30 minutes. The fire was extinguished within 5 minutes of the explosion using foam. It is my understanding that there were no serious injuries. I called Brad Jones to make notification at about 10:10 am on April 21, 2009. We will fill out a C-141 with details.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Tuesday, April 21, 2009 10:26 AM
To: Jones, Brad A., EMNRD
Cc: Chavez, Carl J, EMNRD; Lackey, Johnny
Subject: Fire at Artesias Plant

Gentlemen,

At approximately 9:45 am on April 21, 2009, Tk 409 exploded at this plant. This tank is a De Asphalted Oil (DAO) tank that provides feed to the FCC Unit. There was a fire and a huge cloud of black smoke that drifted to the south. Hiway 82 was closed by the Artesia PD for about 30 minutes. The fire was extinguished within 5 minutes of the explosion using foam. It is my understanding that there were no serious injuries. I called Brad Jones to make notification at about 10:10 am on April 21, 2009. We will fill out a C-141 with details.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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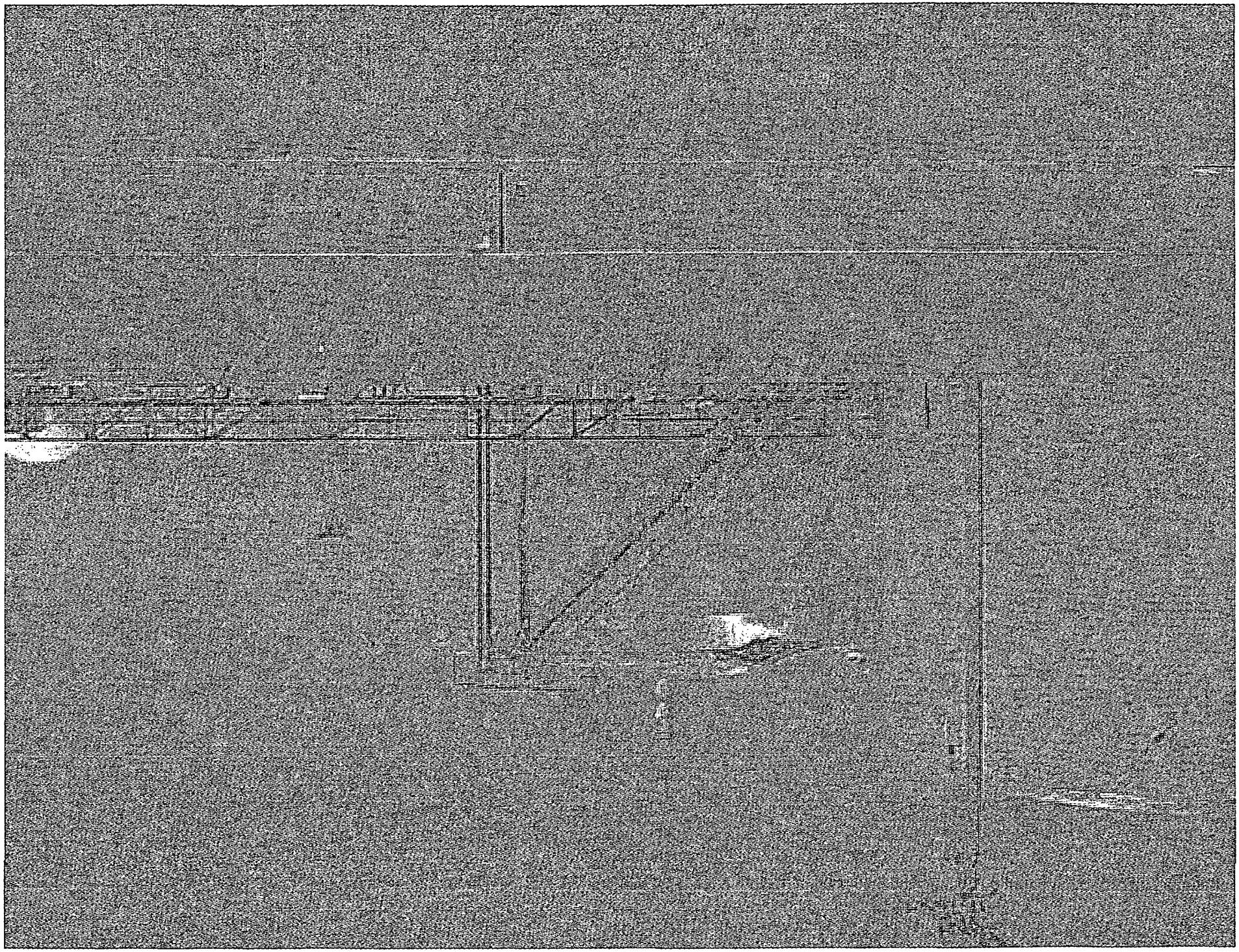

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, February 02, 2009 3:01 PM
To: Chavez, Carl J, EMNRD
Subject: Produced Water Spill

Carl

Ive tried to call you to give you verbal notification but I keep getting a busy signal. Yesterday (February 1, 2009) at about 10 am we had a spill of about 50 bbls of produced water to ground. As part of our ongoing turnaround, we had hooked up a diaphragm pump to pump around a blocked in section of sewer. The pump broke and we spilled 50 bbls of water to ground. The area affected is just north and east of the Alky Unit. The water pooled up in a low spot and we vacuumed up about 40 bbls and put it into the waste water API. Since we are in turnaround the water soiled was wash water and we observed no sheen. We will clean up the area and sample accordingly. I wills end a C-141 along also. If you have any questions, please call me at 575-746-5281.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, February 04, 2009 8:53 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Subject: FW: Release Notification
Attachments: Release Notification .pdf

Carl

Attached is the release notification from the wash water spill I notified you about.

From: Hernandez, Carrie
Sent: Wednesday, February 04, 2009 8:51 AM
To: Moore, Darrell
Subject: Release Notification

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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		

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, January 26, 2009 10:17 AM
To: Chavez, Carl J, EMNRD
Cc: Lackey, Johnny
Subject: North Plant fare Fire
Attachments: North Plant Flare Fire.pdf

Carl

Please find attached the C-141 for a fire that occurred at the plant this morning. Very minor and was put out within minutes. No damage at all.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Revised October 10, 2003

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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

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, December 10, 2008 8:54 AM
To: 'Moore, Darrell'
Subject: Navajo Refining Company- Artesia Refinery C-141 Alky Unit Fire (GW-28)

Darrell:

Good morning. Did the fire shut down operations and are operations currently shut down until the pump is replaced, repaired, etc.? What corrective actions are being taken to replace or replace the pump, electrical damage, etc.? When will the corrective actions expected to be complete and what did the corrective actions consist of, i.e, the pump or seal was replaced on 12/?/2008. Was anyone injured and was the problem resolved?

Thanks.

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) 476-3491
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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Wednesday, December 10, 2008 8:43 AM
To: Chavez, Carl J, EMNRD
Subject:

Here is the C-141 for the minor fire we had Saturday.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, December 10, 2008 8:43 AM
To: Chavez, Carl J, EMNRD
Attachments: 2008-12-10 Release Notification & Corrective Action.pdf

Here is the C-141 for the minor fire we had Saturday.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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State of New Mexico
Energy Minerals and Natural Resources

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

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 LLC	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 Butane/Propane	Volume of Release Unknown	Volume Recovered None
Source of Release Depropanizer pump in Alky Unit	Date and Hour of Occurrence Dec 6, 2008 6:20 pm	Date and Hour of Discovery Dec 6, 2008 6:20 pm
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.*
A pump seal failed on Pump P 692 in the Alky Unit. When the seal failed, propane/butane were released and flashed causing a minor fire. The pump was immediately shut down. Since the released components were butane and propane, there were no remedial actions to take.

Describe Area Affected and Cleanup Action Taken.*
The area affected was around Pump P-692 and consisted of some melted electric lines.

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@navajo-refining.com	Conditions of Approval:	Attached ☐
Date: December 10, 2008 Phone:575-746-5281		

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, December 09, 2008 8:01 AM
To: 'Moore, Darrell'
Cc: Price, Wayne, EMNRD
Subject: RE: Small fire at Artesia Plant

Darrell:

Good morning. Please submit a C-141 to document the fire and the corrective action taken to address the problem. Also, any release of fluids, type and estimated volume of any release. 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) 476-3491
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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Monday, December 08, 2008 9:55 AM
To: Chavez, Carl J, EMNRD
Subject: Small fire at Artesia Plant

Carl

We had a small fire here at the plant on Saturday at 6:20 pm. A depropanizer pump in the Alky Unit blew a seal and the escaping C4/C5 flashed. There were no injuries and very minor damage (melted electric lines). This is the first time we have reported a fire as per our discharge permit. Is this e mail enough or do we need to fill out a form? If so, which form do we fill out?

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Tuesday, November 18, 2008 9:03 AM
To: Chavez, Carl J, EMNRD
Subject: FW: Dirt Spill on Hiway
Attachments: Release Notification & corrective Action.pdf

Carl,

Attached is the C-141 from the dirt spill on the Hiway that I emailed you about on October 28, 2008.

From: Hernandez, Carrie
Sent: Tuesday, November 18, 2008 9:02 AM
To: Moore, Darrell
Subject:

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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 P O Box 159 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 Soil	Volume of Release 15 yds	Volume Recovered 15 yds
Source of Release Belly Dump Truck	Date and Hour of Occurrence 10/28/08 6:00 am	Date and Hour of Discovery 10/28/08 6:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl Chaves by e mail	
By Whom? Darrell Moore	Date and Hour 10/28/08 8:05 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.* S Brothers (The company that hauls our non-hazardous waste to CRI) had a mechanical problem on one of their belly-dump trucks. After loading diesel contaminated soil, the truck left the plant. Once he got on the highway, there was a mechanical malfunction on the doors of the belly dump and about 15 yds of dirt was spread on the Lovington Highway from the refinery to Bolton Rd. The State Highway Department sent a dump truck, sweeper, and front end loader and cleaned the dirt up. However, traffic was detoured for about an hour from about 6:30 until 7:30 am. The picked up dirt was brought back into the refinery and dumped back in its original pile.

Describe Area Affected and Cleanup Action Taken.*
The area affected was US Hiway 82 from the the refinery to Bolton Road. The New Mexico State Highway Dept. used a dump truck, front end loader, and sweeper to clean up the dirt. The dirt was brought back to the refinery.

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: November 18, 2008 Phone:		

* Attach Additional Sheets If Necessary

Darrell:

Be sure to submit a final C-141 with photos, C-138, and analytical data verifying that the release was cleaned up. I will be following up with the refinery on all C-141s next year to see if compliance was met with refineries. All C-141s are placed on the OCD Online for follow-up early next year. Thanks.

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) 476-3491
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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Wednesday, October 22, 2008 2:21 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Subject:

Carl and Hope

Attached is the release notification for a leak at the refinery.

Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, October 22, 2008 2:21 PM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Attachments: Release Notification.pdf

Carl and Hope

Attached is the release notification for a leak at the refinery.

Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Energy Minerals and Natural Resources

Oil Conservation Division
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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	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 Fuel Oil	Volume of Release 15 bbls	Volume Recovered 10 bbls
Source of Release Pump at P G Rack	Date and Hour of Occurrence 7:30 pm 10/18/08	Date and Hour of Discovery 7:30 pm 10/18/08
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.*
During loading operations, the wrong pump was turned on. The pump that was turned on was not hooked to the rail car. The pump was turned off and vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
The area affected is about 30' by 10 ' on the south end of loading rack.. Vacuum truck came and recovered 10 bbls. The contaminated soil will be dug up and sampled. Disposal will be determined by 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: 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: 10/22/08 Phone: 746-5281		

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, July 11, 2008 3:50 PM
To: Chavez, Carl J, EMNRD; Bratcher, Mike, EMNRD; Monzeglio, Hope, NMENV
Subject: Fuel Oil Spill
Attachments: Fuel Oil Spill 71108.pdf

Attached is a C-141 for a Fuel Oil Spill at the refinery in Artesia. Bottom Hole results alomh with manifests and photos will follow.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

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Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Navajo Refining Co. LLC	Contact Darrell Moore
Address PO Box 159 Artesia, NM 88211-0159	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 Fuel Oil	Volume of Release 15 Bbls	Volume Recovered 7 Bbls
Source of Release Employee left check valve open	Date and Hour of Occurrence 7/11/08 12:30 am	Date and Hour of Discovery 7/11/08 12:30 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.* Employee left check valve open, then kicked pump on while filling rail car. Once he noticed the leak, he closed valve. Vacuum truck was called to pick up free liquid.

Describe Area Affected and Cleanup Action Taken.* Area affected is under rail cars at PG Rack. About 8' x 30' area. Contaminated soil will be removed and bottom hole samples 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 & Waste	Approval Date: / Expiration Date:
E-mail Address: darrell.moore@hollycorp.com	Conditions of Approval: / Attached ☐
Date: 7/11/08 Phone: 575-746-5281	

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, July 10, 2008 2:49 PM
To: Chavez, Carl J, EMNRD
Subject: T 437 spill
Attachments: T-437 Bottom Hole Final.pdf

Carl

Here is the Bottom Hole sample from the T437 spill

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

08-Jul-08

Aaron Strange
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 746-5468
Fax: (505) 746-5421

Re: T-437 Bottom Hole

Work Order : **0807044**

Dear Aaron,

ALS Laboratory Group received 1 sample on 7/2/2008 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 8.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Glenda H. Ramos

Jeffrey L Croston
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-08-TX

ALS Laboratory Group

Date: 08-Jul-08

Client: Navajo Refining Company
Project: T-437 Bottom Hole
Work Order: **0807044**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0807044-01	T-437 Bottom Hole	Soil		7/1/2008 15:40	7/2/2008 09:15	☐

ALS Laboratory Group

Date: *08-Jul-08*

Client: Navajo Refining Company
Project: T-437 Bottom Hole
Sample ID: T-437 Bottom Hole
Collection Date: 7/1/2008 03:40 PM

Work Order: 0807044
Lab ID: 0807044-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH SW8015D MODIFIED			**SW8015M**		Prep Date: **7/3/2008**	Analyst: **JFT**
TPH (Gasoline Range)	ND		50	mg/Kg	1	7/6/2008 04:43 PM
TPH (Diesel Range)	ND		50	mg/Kg	1	7/6/2008 04:43 PM
Surr: 2-Fluorobiphenyl	*93.8*		*70-130*	*%REC*	1	7/6/2008 04:43 PM
Surr: Trifluoromethyl benzene	*89.0*		*70-130*	*%REC*	1	7/6/2008 04:43 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

ALS Laboratory Group

Client: Navajo Refining Company
Work Order: 0807044
Project: T-437 Bottom Hole

Date: *08-Jul-08*

QC BATCH REPORT

Batch ID: **30650** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS2-080703-30650** Units: **mg/Kg** Analysis Date: **7/6/2008 02:21 PM**
Client ID: Run ID: **FID-7_080703A** SeqNo: **1434932** Prep Date: **7/3/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	ND	50								
TPH (Diesel Range)	ND	50								
Surr: 2-Fluorobiphenyl	*49.31*	0	*50*	0	*98.6*	*70-130*	0			
Surr: Trifluoromethyl benzene	*47.39*	0	*50*	0	*94.8*	*70-130*	0			

LCS Sample ID: **FLCSS2-080703-30650** Units: **mg/Kg** Analysis Date: **7/6/2008 03:09 PM**
Client ID: Run ID: **FID-7_080703A** SeqNo: **1434933** Prep Date: **7/3/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	226.8	50	250	0	90.7	70-130	0			
TPH (Diesel Range)	291.1	50	250	0	116	70-130	0			
Surr: 2-Fluorobiphenyl	*51.59*	0	*50*	0	*103*	*70-130*	0			
Surr: Trifluoromethyl benzene	*59.06*	0	*50*	0	*118*	*70-130*	0			

LCSD Sample ID: **FLCSDS2-080703-30650** Units: **mg/Kg** Analysis Date: **7/6/2008 03:56 PM**
Client ID: Run ID: **FID-7_080703A** SeqNo: **1434934** Prep Date: **7/3/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	193.6	50	250	0	77.4	70-130	226.8	15.8	30	
TPH (Diesel Range)	235.8	50	250	0	94.3	70-130	291.1	21	30	
Surr: 2-Fluorobiphenyl	*43.09*	0	*50*	0	*86.2*	*70-130*	51.59	*18*	*30*	
Surr: Trifluoromethyl benzene	*56.25*	0	*50*	0	*113*	*70-130*	59.06	*4.86*	*30*	

MS Sample ID: **0807044-01AMS** Units: **mg/Kg** Analysis Date: **7/6/2008 05:31 PM**
Client ID: **T-437 Bottom Hole** Run ID: **FID-7_080703A** SeqNo: **1434936** Prep Date: **7/3/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	197	50	248.5	0	79.3	70-130	0			
TPH (Diesel Range)	231.6	50	248.5	0	93.2	70-130	0			
Surr: 2-Fluorobiphenyl	*40.08*	0	*49.7*	0	*80.6*	*70-130*	0			
Surr: Trifluoromethyl benzene	*54.94*	0	*49.7*	0	*111*	*70-130*	0			

D - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Navajo Refining Company
Work Order: 0807044
Project: T-437 Bottom Hole

QC BATCH REPORT

Batch ID: **30650** Instrument ID **FID-7** Method: **SW8015M**

MSD Sample ID: **0807044-01AMSD** Units: ***mg/Kg*** Analysis Date: **7/6/2008 06:18 PM**

Client ID: **T-437 Bottom Hole** Run ID: **FID-7_080703A** SeqNo: **1434937** Prep Date: **7/3/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	225.4	50	248.8	0	90.6	70-130	197	13.5	30	
TPH (Diesel Range)	288	50	248.8	0	116	70-130	231.6	21.7	30	
Surr: 2-Fluorobiphenyl	*46.27*	0	*49.75*	0	*93*	*70-130*	40.08	*14.3*	*30*	
Surr: Trifluoromethyl benzene	*59.06*	0	*49.75*	0	*119*	*70-130*	54.94	*7.24*	*30*	

The following samples were analyzed in this batch: 0807044-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

e-Lab Analytical
QUALITY • INTEGRITY • SERVICE

10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Chain of Custody Form

Page 1 of 1

The Chain of Custody is a Legal Document. All information must be completed accurately.

e-Lab Project Manager:

e-Lab Work Order #: 0805044

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	T-437 Bottom Hole	A	TPH (8015)
Work Order		Project Number		B	
Company Name		Bill To Company		C	
Send Report To	Aaron Strange	Invoice Attn		D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

#	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	T-437 Bottom Hole	7/1/08	1540	S	Y	1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
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: 7/1/08 Time: 1615

Relinquished by: Date: Time:

Received by: Date: Time:

Received by (Laboratory): 7-2-08 0915

Logged by (Laboratory): Date: Time:

Checked by (Laboratory):

Notes:

e-Lab Analytical Cooler ID:

Trip Blank Number:

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-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 e-Lab Analytical, Inc.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Copyright 2006 by e-Lab Analytical, Ir

ALS Group USA, Corp.

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 7/2/2008 09:15

Work Order Number 0807044

Received by: RSZ

Checklist completed by [signature] Signature 7/2/08 Date

Reviewed by [initials] Initials 07/03/08 Date

Matrix: S

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.9c	002	
Cooler(s)/Kit(s):	1365		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑

Adjusted? Checked by

Login Notes:

Client contacted: Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 7/1 08 Time: 1815
Name: Alan Strange
Company: Navajo Refining Co.

Seal Broken By:

Date: 7-2-08

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, July 09, 2008 12:46 PM
To: 'Moore, Darrell'; Bratcher, Mike, EMNRD
Subject: RE: TK 65 Pipe leak

Darrell:

Please provide bottom hole analytical data from Tk 65 pipe leak to me. 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) 476-3491
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")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Friday, May 30, 2008 2:46 PM
To: Chavez, Carl J, EMNRD; Bratcher, Mike, EMNRD
Subject: TK 65 Pipe leak

Carl and Mike

Attached is the notification for a leak at the refinery. We have collected bottom hole samples and will forward those as soon as we get them.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

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Chavez, Carl J, EMNRD

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Sent: Friday, May 30, 2008 2:46 PM
To: Chavez, Carl J, EMNRD; Bratcher, Mike, EMNRD
Subject: TK 65 Pipe leak
Attachments: TK 65 Pipe Leak.pdf

Carl and Mike

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Darrell Moore
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Navajo Refining Company, L.P.
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Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

CONFIDENTIAL

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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 Darrell Moore
Address 501 E. Main, Artesia, NM 88210	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 Diesel	Volume of Release 8 bbls	Volume Recovered 4 bbls
Source of Release Leak in pipe	Date and Hour of Occurrence	Date and Hour of Discovery 6:00pm 5/20/
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.* Leak in above ground pipe inside dike of TK G1 & G5. Free liquid removed by vaccuum truck.

Describe Area Affected and Cleanup Action Taken.* Area is inside dike of Tk G1 & G5. Contaminated soil was removed and bottom hole samples 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 & Waste	Approval Date: / Expiration Date:
E-mail Address: darrell.moore@navajo-refinig.com	Conditions of Approval: / Attached ☐
Date: 5/30/08 Phone: 575-746-5281	

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Thursday, June 12, 2008 7:50 AM
To: Chavez, Carl J, EMNRD
Subject: RE: MW-90 Log

Thanks Carl

Hope

From: Chavez, Carl J, EMNRD
Sent: Wednesday, June 11, 2008 9:30 AM
To: Monzeglio, Hope, NMENV; Bratcher, Mike, EMNRD
Cc: rforrest@artesianm.com
Subject: FW: MW-90 Log

FYI, MW-90 is due east of the sewer line hot spot within the western boundary of the refinery (just E of Hwy. 285).

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) 476-3491
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")

From: Hall, Sharon [mailto:Sharon.Hall@arcadis-us.com]
Sent: Wednesday, June 11, 2008 8:02 AM
To: Byrd, Jeff; Chavez, Carl J, EMNRD
Cc: Lian, Kuohui
Subject: MW-90 Log

Here you go Gentlemen, the MW-90 log. Thank you Kuohui.
Regards,
Sharon

From: Lian, Kuohui
Sent: Wednesday, June 11, 2008 8:52 AM
To: Hall, Sharon
Subject: RE: MW-90 results (limited

From: Hall, Sharon
Sent: Wednesday, June 11, 2008 8:39 AM
To: Byrd, Jeff
Cc: Chavez, Carl J, EMNRD; Lian, Kuohui
Subject: RE: MW-90 results (limited

Jeff, our draftsman is working on a number of logs now for a report submittal. I asked him to do MW-90 first. He will have them completed this week. I will be on vacation for the rest of the week beginning noon today. Kuohui will email you the log when it is complete.
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From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Wednesday, June 11, 2008 8:28 AM
To: Hall, Sharon
Cc: Chavez, Carl J, EMNRD
Subject: FW: MW-90 results (limited

Sharon:

Could you provide me and Carl with the lithologic log for MW-90?

Thanks;

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, June 10, 2008 5:00 PM
To: Byrd, Jeff
Subject: RE: MW-90 results (limited

Jeff:

Please send me the lithologic log for MW-90 too. Thank you Sir.

Carl J. Chavez, CHMM
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
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From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Tuesday, June 10, 2008 3:57 PM
To: Chavez, Carl J, EMNRD
Subject: MW-90 results (limited

Carl:

My apologies for not sending these earlier, I thought I had. Attached are the results for the sampling of MW-90. The VOA's where broken in shipment and has since been resampled. I will forward those as soon as I get them.

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, June 11, 2008 9:30 AM
To: 'Hall, Sharon'
Subject: RE: MW-90 Log

Thanks Sharon.

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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
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(Pollution Prevention Guidance is under "Publications")

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, June 11, 2008 9:52 AM
To: 'rforrest@artesianm.com'
Cc: Bratcher, Mike, EMNRD; 'Byrd, Jeff'; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Gum, Tim, EMNRD
Subject: FW: MW-90 analytical data & well log
Attachments: 805400 Navajo Artesia Refinery Semi Annual Final.pdf; MW-90 (2).pdf

Robert:

FYI, analytical data w/o VOAs (they broke in transit and new water samples were collected and delivered to the lab for analysis). OCD expects the water samples to contain organics based on MW-90 well log (see attachment). VOA analysis will be forwarded upon receipt.

The MW-90 well log indicates that heavy staining and odors were encountered at 10 ft. bgl with Organic Vapor Monitor (OVM) readings also changing at about 10 ft. with moisture noticed at 11 ft. bgl. The top of the basal clay layer known to be present beneath the refinery does not appear to have been reached at the TD of 20 ft. bgl. The top of the basal clay layer appears to be dipping eastward toward the refinery and away from the sewer line discovery hot spot, which is consistent with NMED and OCD seasonal monitoring of the easterly GW flow direction at the refinery. Again, the NMED and OCD believe that the source of contamination from the sewer line hot spot sample(s) is from a westerly source.

Please contact me to discuss. 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) 476-3491
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, June 11, 2008 9:30 AM
To: Monzeglio, Hope, NMENV; Bratcher, Mike, EMNRD
Cc: 'rforrest@artesianm.com'
Subject: FW: MW-90 Log
Attachments: MW-90.pdf

FYI, MW-90 is due east of the sewer line hot spot within the western boundary of the refinery (just E of Hwy. 285).

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
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Subject: MW-90 results (limited

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My apologies for not sending these earlier, I thought I had. Attached are the results for the sampling of MW-90. The VOA's where broken in shipment and has since been resampled. I will forward those as soon as I get them.

Regards;

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

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Chavez, Carl J, EMNRD

From: Hall, Sharon [Sharon.Hall@arcadis-us.com]
Sent: Wednesday, June 11, 2008 8:02 AM
To: Byrd, Jeff; Chavez, Carl J, EMNRD
Cc: Lian, Kuohui
Subject: MW-90 Log
Attachments: MW-90.pdf

Here you go Gentlemen, the MW-90 log. Thank you Kuohui.
Regards,
Sharon

From: Lian, Kuohui
Sent: Wednesday, June 11, 2008 8:52 AM
To: Hall, Sharon
Subject: RE: MW-90 results (limited

From: Hall, Sharon
Sent: Wednesday, June 11, 2008 8:39 AM
To: Byrd, Jeff
Cc: Chavez, Carl J, EMNRD; Lian, Kuohui
Subject: RE: MW-90 results (limited

Jeff, our draftsman is working on a number of logs now for a report submittal. I asked him to do MW-90 first. He will have them completed this week. I will be on vacation for the rest of the week beginning noon today. Kuohui will email you the log when it is complete.
Regards,
Sharon

From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Wednesday, June 11, 2008 8:28 AM
To: Hall, Sharon
Cc: Chavez, Carl J, EMNRD
Subject: FW: MW-90 results (limited

Sharon:

Could you provide me and Carl with the lithologic log for MW-90?

Thanks;

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, June 10, 2008 5:00 PM

To: Byrd, Jeff
Subject: RE: MW-90 results (limited

Jeff:

Please send me the lithologic log for MW-90 too. Thank you Sir.

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) 476-3491
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")

From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Tuesday, June 10, 2008 3:57 PM
To: Chavez, Carl J, EMNRD
Subject: MW-90 results (limited

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Chavez, Carl J, EMNRD

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 10, 2008 5:00 PM
To: 'Byrd, Jeff'
Subject: RE: MW-90 results (limited

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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) 476-3491
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")

From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Tuesday, June 10, 2008 3:57 PM
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Cell: 575-703-5068

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 10, 2008 5:01 PM
To: Monzeglio, Hope, NMENV
Subject: FW: MW-90 results (limited
Attachments: 805400 Navajo Artesia Refinery Semi Annual Final.pdf

Hope:

Re: MW-90 info.

I also requested the litho log for MW-90. VOAs will be forthcoming. Thanks.

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) 476-3491
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 10, 2008 3:29 PM
To: 'Byrd, Jeff'
Subject: RE: Groundwater Essentials Pumps

Jeff:

Do you have the well log and sample results on MW-90 to share with me yet? Thanks.

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) 476-3491
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")

From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Monday, May 19, 2008 11:23 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Groundwater Essentials Pumps

Thanks for the update.

Also, I sampled monitoring well MW-90 on Friday and asked for the results by this coming Friday. I also noted that the water was clear and had no noticeable odor.

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, May 19, 2008 9:51 AM
To: Byrd, Jeff
Subject: FW: Groundwater Essentials Pumps

Jeff:

FYI. I gave her your phone number. Their stainless steel monsoon pump fits into 2 inch wells and hooks up to a 2' x 3' solar panel that will run a deep cycle 24/7. The pumps work on very little amperage.
She seemed interested in going down to Artesia to talk with you. Thanks.

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E-mail: CarlJ.Chavez@state.nm.us

Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Thursday, May 15, 2008 3:45 PM
To: Chavez, Carl J, EMNRD; Groundwater Essentials
Subject: Groundwater Essentials Pumps

Julie:

No one from Navajo Refining will be available to attend the meeting you have scheduled with Carl. Any chance you could make a swing down to Artesia or provide us with your product brochure?

Regards,

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

-----Original Appointment-----
From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, May 15, 2008 8:14 AM
To: Byrd, Jeff; Jim.Lieb@wnr.com; Groundwater Essentials
Cc: Price, Wayne, EMNRD; VonGonten, Glenn, EMNRD; Jones, Brad A., EMNRD; Hansen, Edward J., EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
Subject: Groundwater Essentials Pumps
When: Monday, May 19, 2008 8:00 AM-9:00 AM (GMT-07:00) Mountain Time (US & Canada).
Where: OCD Conf. Rm. Santa Fe

Meet to discuss solar pumps for free product recovery. Please call Julie to schedule a meeting at your workplace to learn more. Thanks.

Thank you Carl,
Monday the 19th at 8 am confirmed.
In answer to your question, we have options of pumps to lift free product for 2 inch wells. Explaining these options comes after my understanding the applications - i.e., dedicating, portable option? run time, recovery vs sampling...

I'm confident our meeting will make these Q&A and options more clear. Is there any option to have a phone conference with these refineries while meeting with you?

I have left message for Darrell, Jim, Randy.
As for my needs for projectors, etc, thank you but not nessesary. I will skip power point presentations as will have the pump systems on hand so you can see how they work and leave time for Q&A.

Thank you in advance, and looking forward to our meeting.
Julie
"Chavez, Carl J, EMNRD" <CarlJ.Chavez@state.nm.us> wrote:

- v\:* {behavior:url(#default#VML);} o\:* {behavior:url(#default#VML);} w\:* {behavior:url

Chavez, Carl J, EMNRD

From: Byrd, Jeff [Jeff.Byrd@hollycorp.com]
Sent: Tuesday, June 10, 2008 3:57 PM
To: Chavez, Carl J, EMNRD
Subject: MW-90 results (limited
Attachments: 805400 Navajo Artesia Refinery Semi Annual Final.pdf

Carl:

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Cell: 575-703-5068

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Wednesday, May 21, 2008 3:58 PM

To: Wells, John, NMENV

Cc: Price, Wayne, EMNRD; 'Moore, Darrell'; Monzeglio, Hope, NMENV

Subject: Navajo Refinery Company, LLC Artesia Refinery (GW-28) & May 16, 2008 Waste Water Treatment/Sanitary Effluent Recycle Project Letter (letter)

Mr. Wells:

Good afternoon. The NM Oil Conservation Division (OCD) met with Navajo Refinery Personnel on May 8, 2008, to discuss the renewal of their discharge permit and resolution of their Class V Provision of the OCD Discharge Permit. There was discussion about NMED concerns about the existing sanitary system at the refinery and there have been some recent City of Artesia sanitary sewer line changes adjacent to the refinery.

The Navajo Refinery would like to submit a work plan and project schedule for implementing an upgrade to its waste water treatment plant as specified in Mr. Jim Resinger's (Navajo) letter of May 16, 2008 (you were copied in the letter). Mr. Resinger has indicated that the upgrade could be completed within the next 24 months and would address NMED and OCD concerns associated with its sanitary sewer system(s).

The OCD would like to set target dates for completion of the upgrade into the OCD discharge permit. Consequently, I am writing to communicate with the NMED and determine whether this upgrade would address the NMED's current concerns? Similar to another refinery in Gallup, NM where the OCD required the company to complete a pilot study for the best handling and treatment of its sanitary effluent at the refinery, we are making great progress on upgrades that will prevent pollution while conserving water and saving the company money.

I would appreciate a response from NMED related to Mr. Resinger's letter as I am working to complete the discharge permit for the Navajo Artesia Refinery by the end of May 2008, which will require public notice, etc. and posting of the discharge permit on the OCD Website. This is an opportune time for the agencies (OCD and NMED) to move forward and allow the refinery to implement a solution to existing sanitary issues. I look forward to hearing from you.

Please contact me to discuss. Thanks for your cooperation in this matter.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
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Office: (505) 476-3491
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(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Monday, May 19, 2008 11:33 AM
To: 'rforrest@artesianm.com'; 'jiml@secnm.com'; Monzeglio, Hope, NMENV; Bratcher, Mike, EMNRD
Cc: 'jeff.byrd@hollycorp.com'
Subject: FW: Groundwater Essentials Pumps

Mr. Forrest:

The OCD will forward water quality data and a well log from MW-90, which is located on refinery property near Hwy. 285 and due east of the sewer line hot spot upon receipt. MW-90 is believed to be down gradient of the hot spot. Thank you.

Carl J. Chavez, CHMM
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Cc: Price, Wayne, EMNRD; VonGonten, Glenn, EMNRD; Jones, Brad A., EMNRD; Hansen, Edward J., EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
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:. Rose:
Will the pumps fit into 2 inch DIA wells? If so, please contact Darrrell Moore at (575) 746-5281. Navajo Refinery is looking into free product pumps for 2 inch diameter wells. I am available on 5/19 from 8 to 9 a.m. Let me know if you present your products to the OCD in a small conference room. We can set up a projector. Thanks.

rl 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) 476-3491
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")

om: Groundwater Essentials [mailto:julie@groundwateressentials.com]
Sent: Thursday, May 08, 2008 3:28 PM
To: Chavez, Carl J, EMNRD
Subject: Follow up to pump presentation and meeting.

Hello Carl.
I had attempted to download the information you emailed to me to no avail. However spoke with my manufacturer about the possible traces of LNPL in the wells. It was confirmed our pumps are capable to handle this, all that is needed is a sample from the wells.

was my understanding the refineries are in need of a method to simplify, expedite and make their field work more cost and time efficient. Based on our conversation there is an urgency to attend to Bloomfield site.

iis is precisely the intent of presenting our pump systems to you and the refineries. These pumps have proven time and time again to be an economical solution for short and long term remediation and sampling, as well as hydro carbon recovery.

velcome a meeting with you as I will be in Santa Fe the week of May 19th - 22th.
I look forward to hearing from you.

Groundwater Essentials, LLC
Julie Rose
Owner
Woman Owned Business Enterprise

877-994-9376 (Toll Free Phone)
845-818-4006 (Fax)

ww.groundwateressentials.com

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Chavez, Carl J, EMNRD

From: Byrd, Jeff [Jeff.Byrd@hollycorp.com]
Sent: Monday, May 19, 2008 11:23 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Groundwater Essentials Pumps

Thanks for the update.

Also, I sampled monitoring well MW-90 on Friday and asked for the results by this coming Friday. I also noted that the water was clear and had no noticeable odor.

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, May 19, 2008 9:51 AM
To: Byrd, Jeff
Subject: FW: Groundwater Essentials Pumps

Jeff:

FYI. I gave her your phone number. Their stainless steel monsoon pump fits into 2 inch wells and hooks up to a 2' x 3' solar panel that will run a deep cycle 24/7. The pumps work on very little amperage.
She seemed interested in going down to Artesia to talk with you. Thanks.

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) 476-3491
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")

From: Byrd, Jeff [mailto:Jeff.Byrd@hollycorp.com]
Sent: Thursday, May 15, 2008 3:45 PM
To: Chavez, Carl J, EMNRD; Groundwater Essentials
Subject: Groundwater Essentials Pumps

Julie:

No one from Navajo Refining will be available to attend the meeting you have scheduled with Carl. Any chance you could make a swing down to Artesia or provide us with your product brochure?

Regards,

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

-----Original Appointment-----
From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, May 15, 2008 8:14 AM
To: Byrd, Jeff; Jim.Lieb@wnr.com; Groundwater Essentials
Cc: Price, Wayne, EMNRD; VonGonten, Glenn, EMNRD; Jones, Brad A., EMNRD; Hansen, Edward J., EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
Subject: Groundwater Essentials Pumps
When: Monday, May 19, 2008 8:00 AM-9:00 AM (GMT-07:00) Mountain Time (US & Canada).
Where: OCD Conf. Rm. Santa Fe

Meet to discuss solar pumps for free product recovery. Please call Julie to schedule a meeting at your workplace to learn more. Thanks.

Thank you Carl,
Monday the 19th at 8 am confirmed.
In answer to your question, we have options of pumps to lift free product for 2 inch wells. Explaining these options comes after my understanding the applications - i.e., dedicating, portable option? run time, recovery vs sampling...

I'm confident our meeting will make these Q&A and options more clear. Is there any option to have a phone conference with these refineries while meeting with you?

I have left message for Darrell, Jim, Randy.
As for my needs for projectors, etc, thank you but not nessesary. I will skip power point presentations as will have the pump systems on hand so you can see how they work and leave time for Q&A.

Thank you in advance, and looking forward to our meeting.
Julie
"Chavez, Carl J, EMNRD" <CarlJ.Chavez@state.nm.us> wrote:

- v\:* {behavior:url(#default#VML);} o\:* {behavior:url(#default#VML);} w\:* {behavior:url (#default#VML);} .shape {behavior:url(#default#VML);} st1\:*{behavior:url(#default#ieooui) } <!-- /* Font Definitions */ @font-face {font-family:Tahoma; panose-1:2 11 6 4 3 5 4 4 2 4;} /* Style Definitions */ p.MsoNormal, li.MsoNormal, div.MsoNormal {margin:0in; margin-bottom:.0001pt; font-size:12.0pt; font-family:"Times New Roman";} a:link, span.MsoHyperlink {color:blue; text-decoration:underline;} a:visited, span.MsoHyperlinkFollowed {color:blue; text-decoration:underline;} span.EmailStyle19 {mso-style-type:personal-reply; font-family:Arial; color:blue;} @page Section1 {size:8.5in 11.0in; margin:1.0in 1.25in 1.0in 1.25in;} div.Section1 {page:Section1;} -->

:. Rose:
Will the pumps fit into 2 inch DIA wells? If so, please contact Darrell Moore at (575) 746-5281. Navajo Refinery is looking into free product pumps for 2 inch diameter wells. I am available on 5/19 from 8 to 9 a.m. Let me know if you present your products to the OCD in a small conference room. We can set up a projector. Thanks.

rl 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

ïice: (505) 476-3491
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")

ɔm: Groundwater Essentials [mailto:julie@groundwateressentials.com]
Sent: Thursday, May 08, 2008 3:28 PM
To: Chavez, Carl J, EMNRD
Subject: Follow up to pump presentation and meeting.

Hello Carl.
I had attempted to download the information you emailed to me to no avail. However spoke with my manufacturer about the possible traces of LNPL in the wells. It was confirmed our pumps are capable to handle this, all that is needed is a sample from the wells.

was my understanding the refineries are in need of a method to simplify, expedite and make their field work more cost and time efficient. Based on our conversation there is an urgency to attend to Bloomfield site.

ıis is precisely the intent of presenting our pump systems to you and the refineries. These pumps have proven time and time again to be an economical solution for short and long term remediation and sampling, as well as hydro carbon recovery.

ɣelcome a meeting with you as I will be in Santa Fe the week of May 19th - 22th.
I look forward to hearing from you.

Groundwater Essentials, LLC
Julie Rose
Owner
Woman Owned Business Enterprise

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, May 15, 2008 9:51 AM
To: Samsell, James L., NMDOT
Subject: RE: Artesia photos

James:

I'll be over at around 1:15 p.m. today. Thnx.

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) 476-3491
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")

From: Samsell, James L., NMDOT
Sent: Thursday, May 15, 2008 8:53 AM
To: Chavez, Carl J, EMNRD
Cc: Wainwright, Alane, NMDOT
Subject: RE: Artesia photos

OK see you then

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 14, 2008 13:39
To: Samsell, James L., NMDOT
Subject: RE: Artesia photos

Thanks James. I'll try and get them after 4 p.m and before 5 p.m. today. Thanks.

Carl J. Chavez, CHMM
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From: Samsell, James L., NMDOT
Sent: Wednesday, May 14, 2008 12:50 PM
To: Chavez, Carl J, EMNRD
Cc: Wainwright, Alane, NMDOT
Subject: Artesia photos

Hello – We have a CD with the Artesia aerial photos. You can pick it up or have it picked up any time during normal business hours.

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 14, 2008 1:39 PM
To: Samsell, James L., NMDOT
Subject: RE: Artesia photos

Thanks James. I'll try and get them after 4 p.m and before 5 p.m. today. Thanks.

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1220 South St. Francis Dr., Santa Fe, New Mexico 87505
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 8:47 AM
To: Samsell, James L., NMDOT
Subject: RE: NMDOT Aerial Photography

Thanks James. See you around 9:00 a.m. this morning.

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) 476-3491
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")

From: Samsell, James L., NMDOT
Sent: Thursday, May 08, 2008 2:51 PM
To: Chavez, Carl J, EMNRD
Cc: Wainwright, Alane, NMDOT
Subject: NMDOT Aerial Photography

Hello – Here is a list of aerial photography that would cover the Artesia. Attached is a sample photo taken in 1995 to give you an idea of the coverage you can expect. Please feel free to look at our negatives. We can also provide hard copy or digital images of any of the existing negatives. Unfortunately our roll film scanner is waiting for repairs so it will be a while before we can get to them.

<< File: ArtesiaEast_09-06-95.jpg >>

LAKE ARTHUR TO ARTESIA ON US 285 Part 2	10-08-__	4000'	CAN #02
ARTESIA URBAN	10-09-62	7500'	EDDY CO.
ARTESIA TO 3 MI. N. OF ARTESIA	04-12-65	6000'	EDDY CO.
ARTESIA N. FOR 10 MI. ON US 285(TO BE BUILT)	07-07-65	2500'	CAN #4C
10 MI. N. OF ARTESIA S. TO ARTESEA ON US 285	11-30-66	2500'	CAN #5D
1.5 MI. E. OF ARTESIA W. FOR 5 MI. ON US 82 5D	11-30-66	6000'	CAN #
ARTESIA URBAN	11-30-66	2500'	CAN #5D
ARTESIA N. - 1 MI. N. OF ARTESIA W. FOR 4 MI. ON SR 357 5D	1 1-30-66	2500'	CAN #
ARTESIA E. FOR 4 MI. ON US 82 #11	05-11-72	1500'	CON.
ARTESIA E. FOR 4 MI. ON US 82 #11	05-11-72	3000'	CON.

ARTESIA E. FOR 4 MI. ON US 82 #11	05-11-72	6000'	CON
ARTESIA E. ON US 82	11-25-74	3000	CAN #18
ARTESIA E. ON SR 82 FOR 6 MI. 16	06-04-74	3000'	CAN #
2 MI. W. OF ARTESIA W. FOR 1.5 MI. ON SR 82(JUNK YARD)	05-15-78	1500'	CAN B
3 MI. N. OF ARTESIA S. FOR 18 MI. TO SEVEN RIVERS ON US 285	05-06-86	3000'	CAN #74 **(A)**
1 MI. N. OF ARTESIA NE TO LAKE ARTHUR ON ALT. US 285 (Neg. too thin)	11-03-88	3000'	CON #75
ARTESIA N. TO LAKE ARTHUR ON ALT. US 285	09-28-88	3000'	CON #75

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 8:45 AM
To: Bratcher, Mike, EMNRD
Subject: FW: NMDOT Aerial Photography

Attachments: ArtesiaEast_09-06-95.jpg

FYI. Aerial photos in the Artesia area at MDOT. I'm going to look this am. Thx.

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) 476-3491
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ArtesiaEast_09-06-95.jpg (10 M...

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:19 AM
To: Monzeglio, Hope, NMENV
Subject: FW: Attachment from Burn Construction[1/3]

Attachments: img-4280823-0001.pdf

img-4280823-0001.pdf (311 KB)

Analyitcals..... more to follow.....

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) 476-3491
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")

-----Original Message-----
From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:03 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[1/3]

This should be the rest of the analytical data from the "Sewer Line Incident" This is one of three.

Mike

-----Original Message-----
From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[1/3]

Attached is the remaining results from Cardinal Laboratories. This is the 1st of 3 emails I will forward you. Please keep me informed.
Hopefully we will get some answers soon!

Thanks
Rachel

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Chavez, Carl J, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:03 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[1/3]

Attachments: img-4280823-0001.pdf

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Mike

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Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[1/3]

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Hopefully we will get some answers soon!

Thanks
Rachel

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Monday, May 19, 2008 9:38 AM
To: 'jeff.byrd@hollycorp.com'
Subject: FW: Groundwater Essentials Pumps

Jeff:

FYI. I gave her your phone number. Their stainless steel monsoon pump fits into 2 inch wells and hooks up to a 2' x 3' solar panel that will run a deep cycle 24/7. The pumps work on very little amperage.
She seemed interested in going down to Artesia to talk with you. Thanks.

Carl J. Chavez, CHMM
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Sent: Thursday, May 15, 2008 3:45 PM
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Subject: Groundwater Essentials Pumps

Julie:

No one from Navajo Refining will be available to attend the meeting you have scheduled with Carl. Any chance you could make a swing down to Artesia or provide us with your product brochure?

Regards,

Jefferson L. Byrd, EI
Environmental Scientist
Off: 575-746-5468
Cell: 575-703-5068

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Cc: Price, Wayne, EMNRD; VonGonten, Glenn, EMNRD; Jones, Brad A., EMNRD; Hansen, Edward J., EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
Subject: Groundwater Essentials Pumps
When: Monday, May 19, 2008 8:00 AM-9:00 AM (GMT-07:00) Mountain Time (US & Canada).
Where: OCD Conf. Rm. Santa Fe

Meet to discuss solar pumps for free product recovery. Please call Julie to schedule a meeting at your workplace to learn more. Thanks.

Thank you Carl,
Monday the 19th at 8 am confirmed.
In answer to your question, we have options of pumps to lift free product for 2 inch wells. Explaining these options comes after my understanding the applications - i.e., dedicating, portable option? run time, recovery vs sampling...

I'm confident our meeting will make these Q&A and options more clear. Is there any option to have a phone conference with these refineries while meeting with you?

I have left message for Darrell, Jim, Randy.
As for my needs for projectors, etc, thank you but not nessesary. I will skip power point presentations as will have the pump systems on hand so you can see how they work and leave time for Q&A.

Thank you in advance, and looking forward to our meeting.
Julie
"Chavez, Carl J, EMNRD" <CarlJ.Chavez@state.nm.us> wrote:

- v\:* {behavior:url(#default#VML);} o\:* {behavior:url(#default#VML);} w\:* {behavior:url (#default#VML);} .shape {behavior:url(#default#VML);} st1\:*{behavior:url(#default#ieooui) } <!-- /* Font Definitions */ @font-face {font-family:Tahoma; panose-1:2 11 6 4 3 5 4 4 2 4;} /* Style Definitions */ p.MsoNormal, li.MsoNormal, div.MsoNormal {margin:0in; margin-bottom:.0001pt; font-size:12.0pt; font-family:"Times New Roman";} a:link, span.MsoHyperlink {color:blue; text-decoration:underline;} a:visited, span.MsoHyperlinkFollowed {color:blue; text-decoration:underline;} span.EmailStyle19 {mso-style-type:personal-reply; font-family:Arial; color:blue;} @page Section1 {size:8.5in 11.0in; margin:1.0in 1.25in 1.0in 1.25in;} div.Section1 {page:Section1;} -->

:. Rose:
Will the pumps fit into 2 inch DIA wells? If so, please contact Darrrell Moore at (575) 746-5281. Navajo Refinery is looking into free product pumps for 2 inch diameter wells. I am available on 5/19 from 8 to 9 a.m. Let me know if you present your products to the OCD in a small conference room. We can set up a projector. Thanks.

.rl 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) 476-3491
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")

ɔm: Groundwater Essentials [mailto:julie@groundwateressentials.com]
Sent: Thursday, May 08, 2008 3:28 PM
To: Chavez, Carl J, EMNRD
Subject: Follow up to pump presentation and meeting.
Hello Carl.
I had attempted to download the information you emailed to me to no avail. However spoke with my manufacturer about the possible traces of LNPL in the wells. It was confirmed our pumps are capable to handle this, all that is needed is a sample from the wells.

was my understanding the refineries are in need of a method to simplify, expedite and make their field work more cost and time efficient. Based on our conversation there is an urgency to attend to Bloomfield site.

iis is precisely the intent of presenting our pump systems to you and the refineries. These pumps have proven time and time again to be an economical solution for short and long term remediation and sampling, as well as hydro carbon recovery.

velcome a meeting with you as I will be in Santa Fe the week of May 19th - 22th.
I look forward to hearing from you.

Groundwater Essentials, LLC
Julie Rose
Owner
Woman Owned Business Enterprise

877-994-9376 (Toll Free Phone)
845-818-4006 (Fax)
www.groundwateressentials.com

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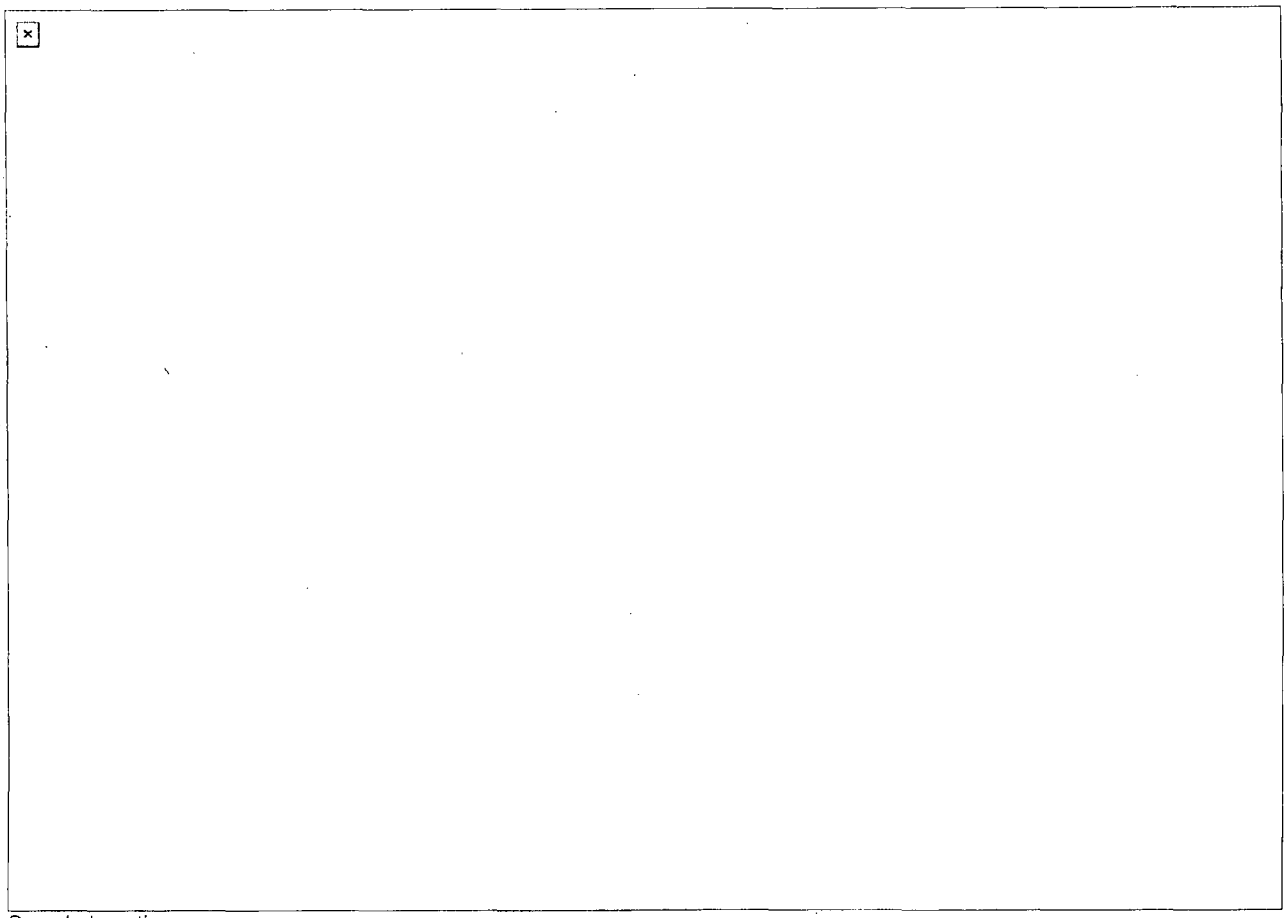
This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, May 15, 2008 5:04 PM
To: 'rforrest@artesianm.com'; 'jiml@secnm.com'
Cc: Price, Wayne, EMNRD; Gum, Tim, EMNRD; Bratcher, Mike, EMNRD; Monzeglio, Hope, NMENV
Subject: Sewer Line Pipeline Project Discovery of Contamination & NMED/OCD Follow-up (Artesia, NM)
Attachments: img-4280823-0003.pdf; img-4280823-0001.pdf; img-4280823-0002.pdf

Mr. Forrest, et. al:
Please find attached a map of sample locations and analytical sample results from the recent discovery of soil and ground water contamination west of Hwy. 283 and west of the Navajo Artesia Refinery. The New Mexico Environment Department (NMED)-Hazardous Waste Bureau and NM Oil Conservation Division (OCD) (agencies) regulate the Navajo Artesia Refinery and have completed our preliminary assessment of the contamination along the sewer line adjacent to Hwy. 285 in Artesia, NM. The agencies do not think the contamination is coming from the Artesia Refinery, but from a source toward the west of the hot spot depicted in the photo below. A preliminary assessment of NMED Petroleum Storage Tank Cleanup Sites indicates that some environmental cleanups have occurred toward the west near the hot spot. Based on GW flow toward the east, the agencies believe the source is from the west. Consequently, the agencies believe that the City of Artesia should consider pursuing the matter further toward the west.
I will be sending more information (storage tank cleanup sites, aerial photos, etc.) tomorrow.
Map:



Sample Locations:
Regarding correlation of sample location descriptors with site map with T1 through T4 descriptors, my T codes correspond as follows:
T1= North End Cannon Street (N 32.85123 W 104.39832)
T2= I believe it is the water sample collected just north of the T3 Hotspot? (N 32.84974 W 104.39825)
T3= Midway (Hot Spot) (N 32.84935 W 104.39819)
T4= South End JJ Clark (N 32.84779 W 104.39825)
Please contact me after you have reviewed all of the information that I will be sending you to communicate and see what the City of Artesia thinks. 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) 476-3491
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")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Friday, May 16, 2008 8:14 AM

To: 'rforrest@artesianm.com'; 'jiml@secnm.com'

Cc: Price, Wayne, EMNRD; Gum, Tim, EMNRD; Bratcher, Mike, EMNRD; Monzeglio, Hope, NMENV; 'jeff.byrd@hollycorp.com'; 'Moore, Darrell'

Subject: NMED Petroleum Storage Tank Historical Cleanup Sites in Vicinity of Sewer Line Contamination Discovery (W side of Hwy. 285)

Attachments: NMDOT Pt. Srcs. Aerial Photos 5-9-08.tif

Mr. Forrest, et. al:

Please find attached some information on potential point sources from west of the hot spot along the sewer line project with contact information.
There is also a page of contacts from NM DOT; however, DOT only get involved when they are assessing areas for road construction, etc.

It appears that BTEX in soil and ground water from a point source(s) W of Hwy. 285 has impacted the sewer line corridor above the perched clay zone at around 14 ft.
BTEX in ground water is estimated to be moving eastward across Hwy.285; however, the manmade pipeline corridor may influence flow along the pipeline corridor as
opposed to continued migration eastward onto Navajo Refinery property. Navajo Refinery has identified MW# 90 was recently installed on refinery property due east of the hot spot along
the sewer line and Navajo is working to provide a well log with any analytical data. If no analytical data exists, Navajo is planning to sample the well.

By receipt of this e-mail message, I am requesting that Navajo copy the City of Artesia when they send the information to me.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 3:13 PM
To: Price, Wayne, EMNRD
Subject: FW: Compiled Analytical Data from Sewer Line Discovery W of Artesia Refinery

FYI.

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) 476-3491
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")

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 3:12 PM
To: Bratcher, Mike, EMNRD
Cc: Monzeglio, Hope, NMENV
Subject: Compiled Analytical Data

Mike:

FYI, for your records please find a summary review of analytical data from samples collected along the sewer line discovery west of the refinery. TCLPs indicate hazardous waste considerations are NOT applicable.

It would appear that the GRO/DRO soil levels were excessive at the hot spot (T3) in relation to the OCD's map. Max. TPH at T3 was at about 2300 ppm..

OCD Soil Cleanup Criteria (>19 Risk Factor) under R116 releases:

Total Ranking Score >19 10 - 19 0 - 9

Benzene(ppm)* 10 10 10

BTEX(ppm)* 50 50 50

TPH(ppm)** 100 1000 5000

All water samples were below WQCC WQSs.

OCD Water Criteria (per WQCC):

Benzene: 0.01 mg/L
Toluene: 0.75 mg/L
Ethyl Benzene: 0.75 mg/L
Xylenes: 0.62 mg/L

* A field soil vapor headspace measurement (Section V.B.1) of 100 ppm may be substituted for a *laboratory analysis of the Benzene and* BTEX *concentration limits.*

8
** The contaminant concentration for TPH is the concentration above background levels.

Please contact me if you have questions. Thanks.

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
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 3:12 PM
To: Bratcher, Mike, EMNRD
Cc: Monzeglio, Hope, NMENV
Subject: Compiled Analytical Data

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* A field soil vapor headspace measurement (Section V.B.1) of 100 ppm may be substituted for a laboratory analysis of the Benzene and BTEX concentration limits.
8
** The contaminant concentration for TPH is the concentration above background levels.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 10:32 AM
To: Moore, Audrey J., NMDOT; Jones, Doug, NMDOT; Samsell, James L., NMDOT
Cc: Price, Wayne, EMNRD
Subject: NMDOT Aerial Photos & Resource Assistance

Audrey, Doug & James:

Thank you for NMDOT assistance this morning. The OCD appreciated it. Thanks for the recommended historical map service company
info. (i.e., ERD and First Search). The OCD will need to consider an account with them in the future. Thanks again.

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) 476-3491
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 10:37 AM
To: Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; Frischkorn, Cheryl, NMENV
Cc: Price, Wayne, EMNRD; Gum, Tim, EMNRD; Bratcher, Mike, EMNRD
Subject: Artesia Sewer Line Discovery Potential Point Source Info. w/ Historical Aerial Photos to follow
Attachments: NMDOT Pt. Srcs. Aerial Photos 5-9-08.tif

FYI, some potential petroleum storage tank info. (see attachment) to consider west of the Hwy. 285 to consider when talking to City of
Artesia. Historical aerial photos (electronic) to follow, once I receive them. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Wednesday, May 07, 2008 1:53 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Artesia Sewer Main Project

Exactly!! Thanks Carl.

Mike

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:26 AM
To: Bratcher, Mike, EMNRD
Subject: RE: Artesia Sewer Main Project

Good job Mike! Lord help us as we plog forward into that dark still night.....

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) 476-3491
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Bratcher, Mike, EMNRD
Sent: Wednesday, May 07, 2008 9:59 AM
To: RachelBustos@burnconstruction.com
Cc: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Gum, Tim, EMNRD
Subject: Artesia Sewer Main Project

Rachel,

As per our conversation yesterday, the OCD does have some concerns with the presence of hydrocarbons found in the soil samples taken from the area along First Street (US 285 Artesia, NM) where your company is installing a new sewer line for the City of Artesia. To determine the possible source will require further investigation, which I believe, can be continued outside the boundaries of your company's current project. At this time, the OCD does not feel it necessary to stop or otherwise impede progress of this project. I would advise you to proceed with extreme caution regarding working safety in the areas H2S gas has been detected. Constant monitoring and appropriate safety equipment will be necessary. I would ask that, if possible, you would have these areas documented utilizing GPS data, depth and levels encountered, and make that documentation available to OCD upon completion of that portion of the project. Also, please contact me if you encounter anything else that you feel we may be interested in knowing to continue our investigation.

Thank you for the notification and please feel free to contact me if I can be of assistance in any way.

Sincerely,

Mike Bratcher
NMOCD District II
Office (575)748-1283x108
Cell (575)626-0857

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, May 09, 2008 8:38 AM
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Bratcher, Mike, EMNRD; Gum, Tim, EMNRD
Subject: FW: Projector

Re: Western Refining SW- Gallup Refinery Meeting

Hope:

FYI, next Thursday's update meeting on treatment system, etc., in Santa Fe with Western Refining- Gallup from 10 – Noon.

Re: Sewer Line Discovery W of Artesia Refinery

Hope:

The City of Artesia's Water Department contact from yesterday's meeting is Jamey Schwiger at 575-746-9821. Since the refinery is reluctant to conduct sampling E of the hot spot, and it is the City's sewer line corridor project, Dave Cobrain thinks the City may want to look for past business toward the west to identify a potential responsible party (s). I am planning to call him/her to touch base and then can share the analytical data in advance of the call. I am available today or NMED may want to call? Next week will be very hectic for me. Let me know.

Tim Gum and Mike Bratcher (OCD- Artesia):

Based on the discharge permit meeting at the Artesia Refinery yesterday, it is believed that the clay at a depth of around 14 ft. bgl along the sewer line discovery area W of the refinery is the fop of the basal clay layer for the water table aquifer dipping eastward toward the refinery. NMED and OCD are monitoring the aquifer and there is a new MW within the refinery premises that is directly due east of the hot spot area. We are working to ID the well and search for water quality data through Jeff Byrd. Since GW flow is generally E-SE in the aquifer, the point source for the BTEX/DRO/GRO detected in GW at the hot spot detected in GW is believed to be coming from the West. There was no elevated level of chlorides detected at the hot spot nor esoteric chemicals that would implicate the refinery at this time. Please contact me if you have questions.

Regarding correlation of sample location descriptors with site map with T1 through T4 descriptors, my T codes correspond as follows:

T1= North End Cannon Street

T2= I believe it is the water sample collected just north of the T3 Hotspot?

T3= Midway (Hot Spot)

T4= South End JJ Clark

Thanks.

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) 476-3491

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")

From: Ed Cote [mailto:Ed.Cote@rmtinc.com]
Sent: Thursday, May 08, 2008 6:25 AM
To: Chavez, Carl J, EMNRD
Cc: ed.riege@wnr.com
Subject: Projector

Carl:

Yes, please provide a projector for the meeting next Thursday. I will bring a laptop computer as I did last time.

Best Regards,
Ed

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:20 AM
To: Monzeglio, Hope, NMENV
Subject: FW: Attachment from Burn Construction[3/3]

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) 476-3491
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Chavez, Carl J, EMNRD
Sent: Tuesday, May 06, 2008 9:43 AM
To: Bratcher, Mike, EMNRD; Price, Wayne, EMNRD
Cc: Gum, Tim, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

I recommend the project continue with samples to document any contamination discovered. Worker safety is first and unless this prevent the pipeline from continuing and makes cleanup mandatory, they should proceed. It would be nice if they could provide any H2S and/or sampling locations via GPS while they are conducting their work. Good idea on the pipe resilience to contamination present Mike.

Sample Locations

OCD will need to go over to DOT to look at historical aerial photos and evaluate the area west of the highway. I am very reluctant to point the finger at the refinery until the photos are examined to assess potential source areas to the west. Even if we find a source from the west, there appears to be new owner issues, etc. to contend with that may require reclamation fund money to address. As for cleanup under the highway, Soil Vapor Extraction may be a solution if we have a responsible party. I am inclined to ask the refinery to do work on the other side (eastern side) of the highway from the hot spot to see if there is

any link to the refinery, but I will need to examine aerial photos. I plan to do it this week. Glenn said DOT has historical aerial photos from major roadways in NM, but they are not available electronically. A web search for free aerials was fruitless as even USGS is charging.

Stay tuned.....

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
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Bratcher, Mike, EMNRD
Sent: Tuesday, May 06, 2008 8:12 AM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Cc: Gum, Tim, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

Wayne,

I think that without further investigation, what we know so far is inconclusive. There are some hydrocarbons present as indicated by the analytical data. With the exception of I think one, the other constituents tested for are at or below EPA limits. If we want to determine the source of the hydrocarbons, we would have to pull samples from other areas. I would start across the highway towards the refinery to see what is there at the depth they collected samples in the sewer line trench. At this point, I can't really see holding up the project or even having them haul off impacted material. As was discussed at the meeting with the contractors and the City, they should get with the pipe manufacturer and be sure that what is in the ground will not have an adverse affect on the new pipe they are installing, or possibly take measures to insulate the pipe through that area, and then take appropriate actions to ensure the safety of workers in regards to the H2S that was encountered.

The next question would then be, if we did want to pursue the source, who would take lead on that project (OCD, ED, Navajo)? I also think that we would run into quite a bit of opposition in doing a remediation under a US highway. Rachel Bustos (Burn Construction) wants a call back from me, and unless you guys think otherwise, I am inclined to have them proceed with the project. Let me know what you think.

Mike

From: Price, Wayne, EMNRD
Sent: Monday, May 05, 2008 4:52 PM
To: Bratcher, Mike, EMNRD; Chavez, Carl J, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

So, id this Oil field??

From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:05 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Three of three

From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Wednesday, May 07, 2008 1:48 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Artesia Sewer Main Project

Carl

Thanks for all the updates.

Hope

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:25 AM
To: Monzeglio, Hope, NMENV
Subject: FW: Artesia Sewer Main Project

FYI.

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) 476-3491
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Subject: Artesia Sewer Main Project

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Mike Bratcher
NMOCD District II
Office (575)748-1283x108
Cell (575)626-0857

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:19 AM
To: Monzeglio, Hope, NMENV
Subject: FW: Attachment from Burn Construction[3/3]
Attachments: img-4280823-0003.pdf

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) 476-3491
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")

From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:05 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Three of three

From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:19 AM
To: Monzeglio, Hope, NMENV
Subject: FW: Attachment from Burn Construction[3/3]

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) 476-3491
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Bratcher, Mike, EMNRD
Sent: Tuesday, May 06, 2008 8:12 AM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Cc: Gum, Tim, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

Wayne,

I think that without further investigation, what we know so far is inconclusive. There are some hydrocarbons present as indicated by the analytical data. With the exception of I think one, the other constituents tested for are at or below EPA limits. If we want to determine the source of the hydrocarbons, we would have to pull samples from other areas. I would start across the highway towards the refinery to see what is there at the depth they collected samples in the sewer line trench. At this point, I can't really see holding up the project or even having them haul off impacted material. As was discussed at the meeting with the contractors and the City, they should get with the pipe manufacturer and be sure that what is in the ground will not have an adverse affect on the new pipe they are installing, or possibly take measures to insulate the pipe through that area, and then take appropriate actions to ensure the safety of workers in regards to the H2S that was encountered.

The next question would then be, if we did want to pursue the source, who would take lead on that project (OCD, ED, Navajo)? I also think that we would run into quite a bit of opposition in doing a remediation under a US highway. Rachel Bustos (Burn Construction) wants a call back from me, and unless you guys think otherwise, I am inclined to have them proceed with the project. Let me know what you think.

Mike

From: Price, Wayne, EMNRD
Sent: Monday, May 05, 2008 4:52 PM
To: Bratcher, Mike, EMNRD; Chavez, Carl J, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

So, id this Oil field??

From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:05 PM

To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Three of three

From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:19 AM
To: Monzeglio, Hope, NMENV
Subject: FW: Attachment from Burn Construction[2/3]
Attachments: img-4280823-0002.pdf

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) 476-3491
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")

From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:04 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[2/3]

Two of three

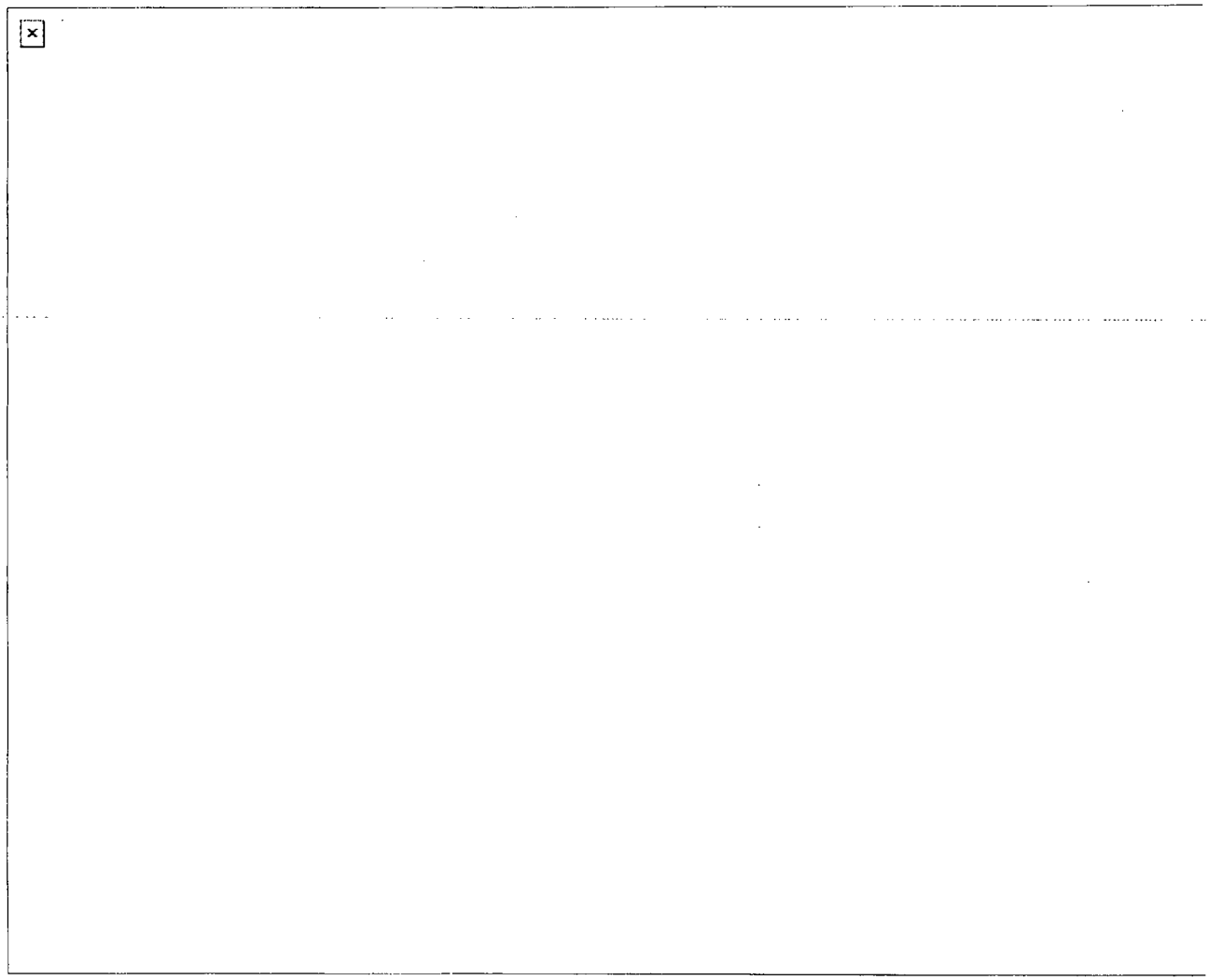
From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[2/3]

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:18 AM
To: Monzeglio, Hope, NMENV
Cc: Bratcher, Mike, EMNRD; Gum, Tim, EMNRD; Price, Wayne, EMNRD
Subject: GW-028 Navajo Artesia Refinery Sewer Line Discovery W of Navajo Refinery

Hope:

I am planning to discuss the recent sewer line contamination (see photo w/ sample locations below) with Darrell tomorrow. I will be
forwarding the analytical results via various e-mails in a little while due to time constraints so you can look at what was detected.



The OCD will be asking the refinery to conduct some sampling east of the hot spot (see photo above). While the source is still
ellusive, in that the H2S gas source is unknown, historical aerial photos have yet to be reviewed sources to the west, the refinery

could conduct some quick trench work down to 15 to 25 feet to see if the contamination exists on the east side of the Hwy. The sewer
line is along the western fringe of the Hwy. and slightly beneath it, so the question of remediation is going to be interesting. Even if
we identify potential sources toward the west, there are probably new owners of the properties located there.

Let OCD know what you think? Please consider for tomorrow's meeting. Thanks.

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Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Wednesday, May 07, 2008 9:59 AM
To: RachelBustos@burnconstruction.com
Cc: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Gum, Tim, EMNRD
Subject: Artesia Sewer Main Project

Rachel,

As per our conversation yesterday, the OCD does have some concerns with the presence of hydrocarbons found in the soil samples taken from the area along First Street (US 285 Artesia, NM) where your company is installing a new sewer line for the City of Artesia. To determine the possible source will require further investigation, which I believe, can be continued outside the boundaries of your company's current project. At this time, the OCD does not feel it necessary to stop or otherwise impede progress of this project. I would advise you to proceed with extreme caution regarding working safety in the areas H2S gas has been detected. Constant monitoring and appropriate safety equipment will be necessary. I would ask that, if possible, you would have these areas documented utilizing GPS data, depth and levels encountered, and make that documentation available to OCD upon completion of that portion of the project. Also, please contact me if you encounter anything else that you feel we may be interested in knowing to continue our investigation.

Thank you for the notification and please feel free to contact me if I can be of assistance in any way.

Sincerely,

Mike Bratcher
NMOCD District II
Office (575)748-1283x108
Cell (575)626-0857

Chavez, Carl J, EMNRD

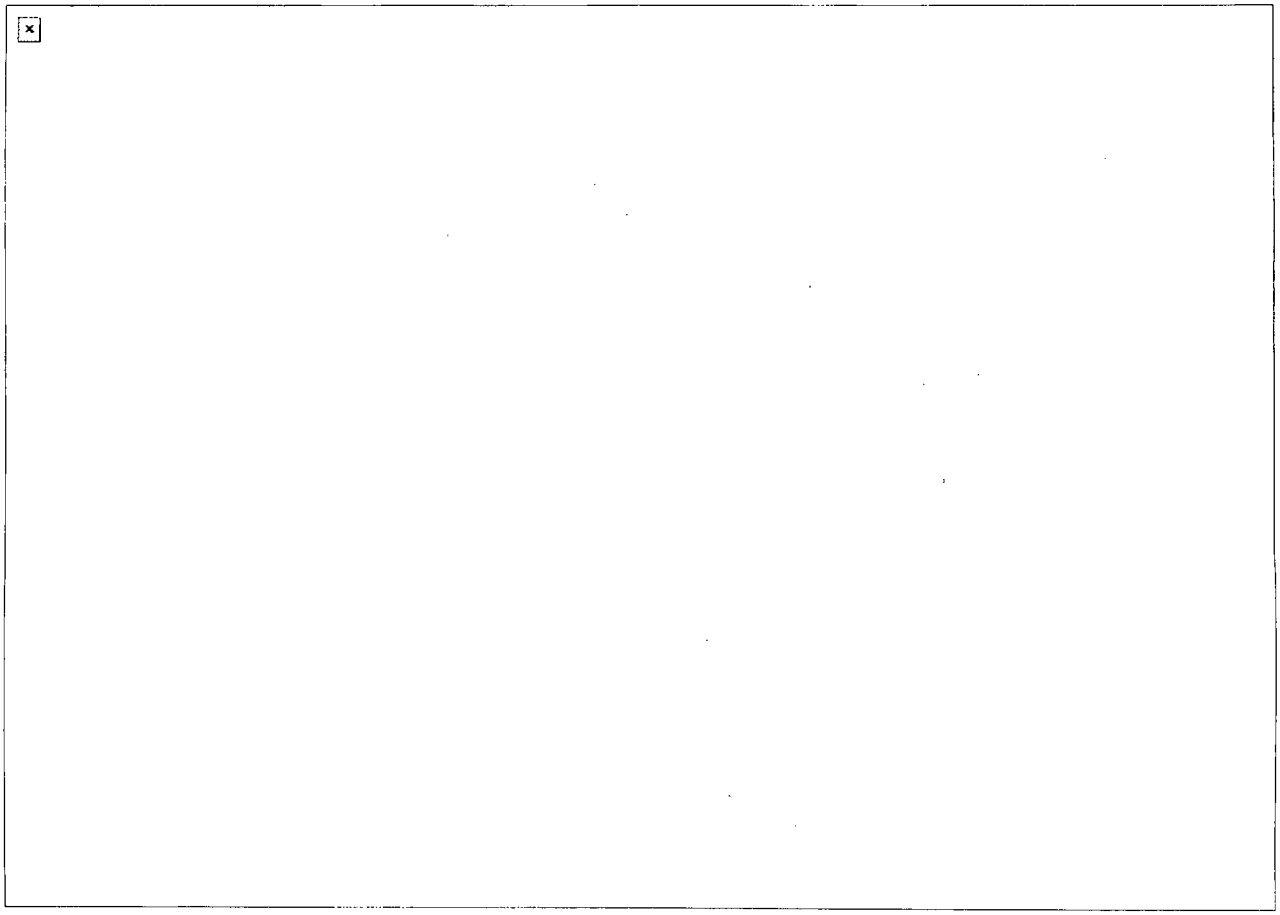
From: Monzeglio, Hope, NMENV
Sent: Wednesday, May 07, 2008 11:15 AM
To: Chavez, Carl J, EMNRD
Cc: Cobrain, Dave, NMENV; Frischkorn, Cheryl, NMENV
Subject: RE: GW-028 Navajo Artesia Refinery Sewer Line Discovery W of Navajo Refinery

Thanks Carl

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 07, 2008 11:18 AM
To: Monzeglio, Hope, NMENV
Cc: Bratcher, Mike, EMNRD; Gum, Tim, EMNRD; Price, Wayne, EMNRD
Subject: GW-028 Navajo Artesia Refinery Sewer Line Discovery W of Navajo Refinery

Hope:

I am planning to discuss the recent sewer line contamination (see photo w/ sample locations below) with Darrell tomorrow. I will be forwarding the analytical results via various e-mails in a little while due to time constraints so you can look at what was detected.



The OCD will be asking the refinery to conduct some sampling east of the hot spot (see photo above). While the source is still ellusive, in that the H2S gas source is unknown, historical aerial photos have yet to be reviewed sources to the west, the refinery could conduct some quick trench work down to 15 to 25 feet to see if the contamination exists on the east side of the Hwy. The sewer
line is along the western fringe of the Hwy. and slightly beneath it, so the question of remediation is going to be interesting. Even if

we identify potential sources toward the west, there are probably new owners of the properties located there.

Let OCD know what you think? Please consider for tomorrow's meeting. Thanks.

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East Logan Avenue
West Cannon Avenue
T1 North Spot 4/21/08
Spot End of Contamination 4/21/08
Tollin Avenue
West Tollin Avenue
T2 North Spot 4/21/08
T3 Sewer Line Hotspot 4/21/08
Fairview Avenue
North Hamilton Street
T4 Water Sample 4/21/08
Woodland Circle Drive
North Logan Street
Morley Avenue
West Holcomb Avenue
285
West Tyler Avenue
East Main Street
82
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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 W. AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/07
Reporting Date: 04/25/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1ST STREET

Sampling Date: 04/16/08
Sample Type: GROUNDWATER & SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		04/23/08	04/22/08	04/24/08	04/21/08	04/21/08	04/21/08	04/25/08	04/22/08
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H14666-1	S. END JJ CLARK	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H14666-2	N. END CANNON ST.	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H14666-3	MIDWAY WELL	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H14666-4	MIDWAY 13.5'	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H14666-5	MIDWAY 14'	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
H14666-6	MIDWAY 14.5'	< 1	< 1	< 5	< 0.1	< 1	< 1	< 0.02	< 0.1
Quality Control		0.052	1.03	20.4	0.94	1.95	1.02	0.0019	0.051
True Value QC		0.050	1.00	25.0	1.00	2.00	1.00	0.0020	0.050
% Recovery		104	103	81.6	93.5	97.5	102	95.0	102
Relative Standard Deviation		9.6	0.4	0.7	< 0.1	< 0.1	4.1	5.1	2.4
METHODS: EPA 600/4-91/010 1311		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

04-25-08
Date

H14666TM BURN CONSTRUCTION

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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 WEST AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/25/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET

Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM/BC

LAB NO.	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		04/25/08	04/25/08	04/22/08	04/22/08
H14666-4	MIDWAY 13.5'	Not reactive	Not reactive	7.93	>140
H14666-5	MIDWAY 14'	Not reactive	Not reactive	7.95	>140
H14666-6	MIDWAY 14.5'	Not reactive	Not reactive	7.87	>140
Quality Control		NR	NR	6.91	79
True Value QC		NR	NR	7.00	81+/- 2
% Recovery		NR	NR	96.5	NR
Relative Percent Difference		NR	NR	2.0	NR

METHOD: EPA SW-846 7.3, 7.2, 1010A (ASTM D 93-80), 1311, *40 CFR 261*

Chemist

4/25/08
Date

H14666R2 BURN

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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 WEST AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/25/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET

Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM/BC

LAB NO.	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		04/25/08	04/25/08	04/22/08	04/22/08
H14666-1	SOUTH END JJ CLARK	Not reactive	Not reactive	7.58	>140
H14666-2	NORTH END CANNON ST.	Not reactive	Not reactive	7.60	>140
H14666-3	MIDWAY WELL	Not reactive	Not reactive	7.56	>140
Quality Control		NR	NR	6.91	79
True Value QC		NR	NR	7.00	81+/- 2
% Recovery		NR	NR	96.5	NR
Relative Percent Difference		NR	NR	2.0	NR

METHOD: EPA SW-846 7.3, 7.2, 1010A (ASTM D 93-80), 1311, *40 CFR 261*

Chemist

4/25/08
Date

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ANALYTICAL RESULTS FOR
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2100 WEST AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/23/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET

Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		04/16/08	04/16/08	04/16/08	04/16/08
H14666-1	SOUTH END JJ CLARK	<0.001	<0.001	<0.001	<0.003
H14666-2	NORTH END CANNON ST.	<0.001	<0.001	<0.001	<0.003
H14666-3	MIDWAY WELL	<0.001	<0.001	<0.001	<0.003
Quality Control		0.105	0.094	0.089	0.288
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	94.6	89.2	96.0
Relative Percent Difference		2.8	1.1	0.2	0.1

METHOD: EPA SW-846 8021B

Chemist

04/23/08
Date

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H14666 BURN

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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 WEST AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/23/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET

Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		04/16/08	04/16/08	04/16/08	04/16/08
H14666-4	MIDWAY 13.5'	0.057	0.227	0.304	0.847
H14666-5	MIDWAY 14'	0.061	0.263	0.359	0.978
H14666-6	MIDWAY 14.5'	0.103	0.431	0.450	0.990
Quality Control		0.105	0.094	0.089	0.288
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	94.6	89.2	96.0
Relative Percent Difference		0.2	0.6	1.0	0.8

METHOD: EPA SW-846 8021B

Chemist

04/23/08
Date

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H14666B2 BURN

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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 W. AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/07
Reporting Date: 04/23/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1ST STREET

Analysis Date: 04/17/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: KS

LAB NUMBER	SAMPLE ID	Cl⁻ (mg/L)
H14666-1	SOUTH END OF JJ CLARK	660
H14666-2	NORTH END OF CANNON ST.	100
H14666-3	MIDWAY WELL	284
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-ClB

Chemist

04/23/08
Date

H14666 BURN

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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 WEST AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 528-1714

Receiving Date: 04/16/08
Reporting Date: 04/21/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1ST STREET

Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: CK

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/L)	DRO (>C_{10}-C_{28}) (mg/L)
ANALYSIS DATE		04/18/08	04/18/08
H14666-1	SOUTH END JJ CLARK	<3.00	<3.00
H14666-2	NORTH END CANNON ST.	<3.00	<3.00
H14666-3	MIDWAY WELL	<3.00	<3.00
Quality Control		37.9	38.2
True Value QC		40.0	40.0
% Recovery		94.8	95.5
Relative Percent Difference		4.5	5.6

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist

04/21/08
Date

H14666T BURN

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FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/17/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET

Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC/KS

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		04/16/08	04/16/08	04/17/08
H14666-4	MIDWAY 13.5'	174	1,250	80
H14666-5	MIDWAY 14'	270	1,980	64
H14666-6	MIDWAY 14.5'	300	1,850	80
Quality Control		1,050	964	500
True Value QC		1,000	1,000	500
% Recovery		105	96.4	100
Relative Percent Difference		0.9	5.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB
*Analyses performed on 1:4 w:v aqueous extracts.

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04/23/08
Date

H14666A2 BURN

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LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-1
Sample ID: SOUTH END JJ CLARK

Analysis Date: 04/21/08 & 04/22/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP PESTICIDES & HERBICIDES (mg/L)	EPA Limit	Sample Result H14666-1	Method Blank	QC Observed	QC %IA	QC True Value
Endrin	0.020	<0.014	<0.007	0.052	103	0.050
Lindane (gamma-BHC)	0.400	<0.010	<0.005	0.053	107	0.050
Heptachlor	0.008	<0.008	<0.004	0.051	103	0.050
Heptachlor epoxide	0.008	<0.010	<0.005	0.050	100	0.050
Methoxychlor	10	<0.006	<0.003	0.052	103	0.050
Chlordane	0.03	<0.030	<0.015	0.105	105	0.100
Toxaphene	0.5	<0.200	<0.100	0.440	110	0.400
2,4-D	10	<0.100	<0.050	0.544	109	0.500
2,4,5-T-P (Silvex)	1	<0.100	<0.050	0.485	97.0	0.500

	% Recovery
Nitrobenzene-d5	48.5
2-Fluorobiphenyl	47.6
Terphenyl-d14	57.2

METHODS: EPA SW-846 1311, 3510, 8270

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H14666R1 BURN

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-2
Sample ID: NORTH END CANNON ST.

Analysis Date: 04/21/08 & 04/22/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP PESTICIDES & HERBICIDES (mg/L)	EPA Limit	Sample Result H14666-2	Method Blank	QC Observed	QC %IA	QC True Value
Endrin	0.020	<0.014	<0.007	0.052	103	0.050
Lindane (gamma-BHC)	0.400	<0.010	<0.005	0.053	107	0.050
Heptachlor	0.008	<0.008	<0.004	0.051	103	0.050
Heptachlor epoxide	0.008	<0.010	<0.005	0.050	100	0.050
Methoxychlor	10	<0.006	<0.003	0.052	103	0.050
Chlordane	0.03	<0.030	<0.015	0.105	105	0.100
Toxaphene	0.5	<0.200	<0.100	0.440	110	0.400
2,4-D	10	<0.100	<0.050	0.544	109	0.500
2,4,5-T-P (Silvex)	1	<0.100	<0.050	0.485	97.0	0.500

	% Recovery
Nitrobenzene-d5	66.0
2-Fluorobiphenyl	55.8
Terphenyl-d14	59.2

METHODS: EPA SW-846 1311, 3510, 8270

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-3
Sample ID: MIDWAY WELL

Analysis Date: 04/21/08 & 04/22/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP PESTICIDES & HERBICIDES (mg/L)	EPA Limit	Sample Result H14666-3	Method Blank	QC Observed	QC %IA	QC True Value
Endrin	0.020	<0.014	<0.007	0.052	103	0.050
Lindane (gamma-BHC)	0.400	<0.010	<0.005	0.053	107	0.050
Heptachlor	0.008	<0.008	<0.004	0.051	103	0.050
Heptachlor epoxide	0.008	<0.010	<0.005	0.050	100	0.050
Methoxychlor	10	<0.006	<0.003	0.052	103	0.050
Chlordane	0.03	<0.030	<0.015	0.105	105	0.100
Toxaphene	0.5	<0.200	<0.100	0.440	110	0.400
2,4-D	10	<0.100	<0.050	0.544	109	0.500
2,4,5-T-P (Silvex)	1	<0.100	<0.050	0.485	97.0	0.500

	% Recovery
Nitrobenzene-d5	64.9
2-Fluorobiphenyl	50.2
Terphenyl-d14	55.7

METHODS: EPA SW-846 1311, 3510, 8270

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-4
Sample ID: MIDWAY 13.5'

Analysis Date: 04/21/08 & 04/22/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP PESTICIDES & HERBICIDES (mg/L)	EPA Limit	Sample Result H14666-4	Method Blank	QC Observed	QC %IA	QC True Value
Endrin	0.020	<0.014	<0.007	0.052	103	0.050
Lindane (gamma-BHC)	0.400	<0.010	<0.005	0.053	107	0.050
Heptachlor	0.008	<0.008	<0.004	0.051	103	0.050
Heptachlor epoxide	0.008	<0.010	<0.005	0.050	100	0.050
Methoxychlor	10	<0.006	<0.003	0.052	103	0.050
Chlordane	0.03	<0.030	<0.015	0.105	105	0.100
Toxaphene	0.5	<0.200	<0.100	0.440	110	0.400
2,4-D	10	<0.100	<0.050	0.544	109	0.500
2,4,5-T-P (Silvex)	1	<0.100	<0.050	0.485	97.0	0.500

	% Recovery
Nitrobenzene-d5	65.0
2-Fluorobiphenyl	43.6
Terphenyl-d14	45.5

METHODS: EPA SW-846 1311, 3510, 8270

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H14666P4 BURN

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-5
Sample ID: MIDWAY 14'

Analysis Date: 04/21/08 & 04/22/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP PESTICIDES & HERBICIDES (mg/L)	EPA Limit	Sample Result H14666-5	Method Blank	QC Observed	QC %IA	QC True Value
Endrin	0.020	<0.014	<0.007	0.052	103	0.050
Lindane (gamma-BHC)	0.400	<0.010	<0.005	0.053	107	0.050
Heptachlor	0.008	<0.008	<0.004	0.051	103	0.050
Heptachlor epoxide	0.008	<0.010	<0.005	0.050	100	0.050
Methoxychlor	10	<0.006	<0.003	0.052	103	0.050
Chlordane	0.03	<0.030	<0.015	0.105	105	0.100
Toxaphene	0.5	<0.200	<0.100	0.440	110	0.400
2,4-D	10	<0.100	<0.050	0.544	109	0.500
2,4,5-T-P (Silvex)	1	<0.100	<0.050	0.485	97.0	0.500

	% Recovery
Nitrobenzene-d5	54.5
2-Fluorobiphenyl	40.6
Terphenyl-d14	51.8

METHODS: EPA SW-846 1311, 3510, 8270

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-6
Sample ID: MIDWAY 14.5'

Analysis Date: 04/21/08 & 04/22/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP PESTICIDES & HERBICIDES (mg/L)	EPA Limit	Sample Result H14666-6	Method Blank	QC Observed	QC %IA	QC True Value
Endrin	0.020	<0.014	<0.007	0.052	103	0.050
Lindane (gamma-BHC)	0.400	<0.010	<0.005	0.053	107	0.050
Heptachlor	0.008	<0.008	<0.004	0.051	103	0.050
Heptachlor epoxide	0.008	<0.010	<0.005	0.050	100	0.050
Methoxychlor	10	<0.006	<0.003	0.052	103	0.050
Chlordane	0.03	<0.030	<0.015	0.105	105	0.100
Toxaphene	0.5	<0.200	<0.100	0.440	110	0.400
2,4-D	10	<0.100	<0.050	0.544	109	0.500
2,4,5-T-P (Silvex)	1	<0.100	<0.050	0.485	97.0	0.500

	% Recovery
Nitrobenzene-d5	76.0
2-Fluorobiphenyl	60.7
Terphenyl-d14	56.2

METHODS: EPA SW-846 1311, 3510, 8270

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-1
Sample ID: SOUTH END JJ CLARK

Analysis Date: 04/21/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H14666-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.010	0.009	17.0	0.050
1,4-Dichlorobenzene	7.50	<0.010	<0.005	0.025	50.8	0.050
o-Cresol	200	<0.020	<0.010	0.034	68.2	0.050
m, p-Cresol	200	<0.010	<0.005	0.028	56.4	0.050
Hexachloroethane	3.00	<0.010	<0.005	0.028	55.0	0.050
Nitrobenzene	2.00	<0.010	<0.005	0.048	97.0	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.010	0.030	60.8	0.050
2,4,6-Trichlorophenol	2.00	<0.010	<0.005	0.049	97.6	0.050
2,4,5-Trichlorophenol	400	<0.010	<0.005	0.047	93.6	0.050
2,4-Dinitrotoluene	0.130	<0.016	<0.008	0.052	104	0.050
Hexachlorobenzene	0.130	<0.010	<0.005	0.046	91.2	0.050
Pentachlorophenol	100	<0.040	<0.020	0.024	48.8	0.050

	% RECOVERY
Fluorophenol	31.8
Phenol-d5	28.4
Nitrobenzene-d5	48.5
2-Fluorobiphenyl	47.6
2,4,6-Tribromophenol	52.2
Terphenyl-d14	57.2

METHODS: EPA SW-846 1311, 8270, 3510

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-2
Sample ID: NORTH END CANNON ST.

Analysis Date: 04/21/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H14666-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.010	0.009	17.0	0.050
1,4-Dichlorobenzene	7.50	<0.010	<0.005	0.025	50.8	0.050
o-Cresol	200	<0.020	<0.010	0.034	68.2	0.050
m, p-Cresol	200	<0.010	<0.005	0.028	56.4	0.050
Hexachloroethane	3.00	<0.010	<0.005	0.028	55.0	0.050
Nitrobenzene	2.00	<0.010	<0.005	0.048	97.0	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.010	0.030	60.8	0.050
2,4,6-Trichlorophenol	2.00	<0.010	<0.005	0.049	97.6	0.050
2,4,5-Trichlorophenol	400	<0.010	<0.005	0.047	93.6	0.050
2,4-Dinitrotoluene	0.130	<0.016	<0.008	0.052	104	0.050
Hexachlorobenzene	0.130	<0.010	<0.005	0.046	91.2	0.050
Pentachlorophenol	100	<0.040	<0.020	0.024	48.8	0.050

	% RECOVERY
Fluorophenol	29.7
Phenol-d5	23.6
Nitrobenzene-d5	66.0
2-Fluorobiphenyl	55.8
2,4,6-Tribromophenol	59.1
Terphenyl-d14	59.2

METHODS: EPA SW-846 1311, 8270, 3510

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LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-3
Sample ID: MIDWAY WELL

Analysis Date: 04/21/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H14666-3	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.010	0.009	17.0	0.050
1,4-Dichlorobenzene	7.50	<0.010	<0.005	0.025	50.8	0.050
o-Cresol	200	<0.020	<0.010	0.034	68.2	0.050
m, p-Cresol	200	<0.010	<0.005	0.028	56.4	0.050
Hexachloroethane	3.00	<0.010	<0.005	0.028	55.0	0.050
Nitrobenzene	2.00	<0.010	<0.005	0.048	97.0	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.010	0.030	60.8	0.050
2,4,6-Trichlorophenol	2.00	<0.010	<0.005	0.049	97.6	0.050
2,4,5-Trichlorophenol	400	<0.010	<0.005	0.047	93.6	0.050
2,4-Dinitrotoluene	0.130	<0.016	<0.008	0.052	104	0.050
Hexachlorobenzene	0.130	<0.010	<0.005	0.046	91.2	0.050
Pentachlorophenol	100	<0.040	<0.020	0.024	48.8	0.050

	% RECOVERY
Fluorophenol	26.5
Phenol-d5	24.8
Nitrobenzene-d5	64.9
2-Fluorobiphenyl	50.1
2,4,6-Tribromophenol	53.3
Terphenyl-d14	55.7

METHODS: EPA SW-846 1311, 8270, 3510

Chemist

04/23/08
Date

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ANALYTICAL RESULTS FOR
BURN CONSTRUCTION
ATTN: RACHEL BUSTOS
2100 WEST AMADOR
LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-4
Sample ID: MIDWAY 13.5'

Analysis Date: 04/21/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H14666-4	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.010	0.008	17.0	0.050
1,4-Dichlorobenzene	7.50	<0.010	<0.005	0.025	50.8	0.050
o-Cresol	200	<0.020	<0.010	0.034	68.2	0.050
m, p-Cresol	200	<0.010	<0.005	0.028	56.4	0.050
Hexachloroethane	3.00	<0.010	<0.005	0.028	55.0	0.050
Nitrobenzene	2.00	<0.010	<0.005	0.048	97.0	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.010	0.030	60.8	0.050
2,4,6-Trichlorophenol	2.00	<0.010	<0.005	0.049	97.6	0.050
2,4,5-Trichlorophenol	400	<0.010	<0.005	0.047	93.6	0.050
2,4-Dinitrotoluene	0.130	<0.016	<0.008	0.052	104	0.050
Hexachlorobenzene	0.130	<0.010	<0.005	0.046	91.2	0.050
Pentachlorophenol	100	<0.040	<0.020	0.024	48.8	0.050

	% RECOVERY
Fluorophenol	38.0
Phenol-d5	34.4
Nitrobenzene-d5	65.0
2-Fluorobiphenyl	43.6
2,4,6-Tribromophenol	63.2
Terphenyl-d14	45.5

METHODS: EPA SW-846 1311, 8270, 3510

Chemist

04/23/08
Date

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-5
Sample ID: MIDWAY 14'

Analysis Date: 04/21/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H14666-5	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.010	0.009	17.0	0.050
1,4-Dichlorobenzene	7.50	<0.010	<0.005	0.025	50.8	0.050
o-Cresol	200	<0.020	<0.010	0.034	68.2	0.050
m, p-Cresol	200	<0.010	<0.005	0.028	56.4	0.050
Hexachloroethane	3.00	<0.010	<0.005	0.028	55.0	0.050
Nitrobenzene	2.00	<0.010	<0.005	0.048	97.0	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.010	0.030	60.8	0.050
2,4,6-Trichlorophenol	2.00	<0.010	<0.005	0.049	97.6	0.050
2,4,5-Trichlorophenol	400	<0.010	<0.005	0.047	93.6	0.050
2,4-Dinitrotoluene	0.130	<0.016	<0.008	0.052	104	0.050
Hexachlorobenzene	0.130	<0.010	<0.005	0.046	91.2	0.050
Pentachlorophenol	100	<0.040	<0.020	0.024	48.8	0.050

	% RECOVERY
Fluorophenol	34.5
Phenol-d5	28.4
Nitrobenzene-d5	54.5
2-Fluorobiphenyl	40.6
2,4,6-Tribromophenol	58.7
Terphenyl-d14	51.8

METHODS: EPA SW-846 1311, 8270, 3510

Chemist

04/23/08
Date

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-6
Sample ID: MIDWAY 14.5'

Analysis Date: 04/21/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H14666-6	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.010	0.009	17.0	0.050
1,4-Dichlorobenzene	7.50	0.010	<0.005	0.025	50.8	0.050
o-Cresol	200	<0.020	<0.010	0.034	68.2	0.050
m, p-Cresol	200	<0.010	<0.005	0.028	56.4	0.050
Hexachloroethane	3.00	<0.010	<0.005	0.028	55.0	0.050
Nitrobenzene	2.00	<0.010	<0.005	0.048	97.0	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.010	0.030	60.8	0.050
2,4,6-Trichlorophenol	2.00	<0.010	<0.005	0.049	97.6	0.050
2,4,5-Trichlorophenol	400	<0.010	<0.005	0.047	93.6	0.050
2,4-Dinitrotoluene	0.130	<0.016	<0.008	0.052	104	0.050
Hexachlorobenzene	0.130	<0.010	<0.005	0.046	91.2	0.050
Pentachlorophenol	100	<0.040	<0.020	0.024	48.8	0.050

	% RECOVERY
Fluorophenol	52.0
Phenol-d5	41.6
Nitrobenzene-d5	76.0
2-Fluorobiphenyl	60.7
2,4,6-Tribromophenol	81.9
Terphenyl-d14	56.2

METHODS: EPA SW-846 1311, 8270, 3510

Chemist

04/23/08
Date

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FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/23/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OFARTESIA
Project Location: 1st STREET
Lab Number: H14666-1
Sample ID: SOUTH END JJ CLARK

Analysis Date: 04/23/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H14666-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	96.5	0.100
1,1-Dichloroethylene	0.7	<0.003	<0.003	0.116	116	0.100
Methyl Ethyl Ketone	200	<0.075	<0.075	0.086	85.6	0.100
Chloroform	6.0	0.012	<0.005	0.114	114	0.100
1,2-Dichloroethane	0.5	<0.002	<0.002	0.110	110	0.100
Benzene	0.5	<0.002	<0.002	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.003	<0.003	0.091	91.2	0.100
Trichloroethylene	0.5	<0.003	<0.003	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.087	86.6	0.100
Chlorobenzene	100	<0.004	<0.004	0.096	95.7	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.025	0.095	94.9	0.100

	% RECOVERY
Dibromofluoromethane	99
Toluene-d8	105
Bromofluorobenzene	98

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

4/23/08
Date

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-2
Sample ID: NORTH END CANNON ST.

Analysis Date: 04/16/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H14666-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	96.5	0.100
1,1-Dichloroethylene	0.7	<0.003	<0.003	0.118	118	0.100
Methyl Ethyl Ketone	200	<0.075	<0.075	0.086	85.6	0.100
Chloroform	6.0	<0.005	<0.005	0.114	114	0.100
1,2-Dichloroethane	0.5	<0.002	<0.002	0.110	110	0.100
Benzene	0.5	<0.002	<0.002	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.003	<0.003	0.091	91.2	0.100
Trichloroethylene	0.5	<0.003	<0.003	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.087	86.6	0.100
Chlorobenzene	100	<0.004	<0.004	0.096	95.7	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.025	0.095	94.9	0.100

	% RECOVERY
Dibromofluoromethane	119
Toluene-d8	114
Bromofluorobenzene	113

METHODS: EPA SW 846-8260, 1311

Burgess J. Cooke, Ph. D.

4/22/08
Date

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Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-3
Sample ID: MIDWAY WELL

Analysis Date: 04/18/08
Sampling Date: 04/16/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H14666-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	96.5	0.100
1,1-Dichloroethylene	0.7	<0.003	<0.003	0.116	116	0.100
Methyl Ethyl Ketone	200	0.082	<0.075	0.086	85.6	0.100
Chloroform	6.0	<0.005	<0.005	0.114	114	0.100
1,2-Dichloroethane	0.5	<0.002	<0.002	0.110	110	0.100
Benzene	0.5	<0.002	<0.002	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.003	<0.003	0.091	91.2	0.100
Trichloroethylene	0.5	<0.003	<0.003	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.087	86.6	0.100
Chlorobenzene	100	<0.004	<0.004	0.096	95.7	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.025	0.095	94.9	0.100

	% RECOVERY
Dibromofluoromethane	118
Toluene-d8	107
Bromofluorobenzene	119

METHODS: EPA SW 846-8260, 1311

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4/22/08
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Receiving Date: 04/16/08
Reporting Date: 04/23/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-4
Sample ID: MIDWAY 13.5'

Analysis Date: 04/23/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H14666-4	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	96.5	0.100
1,1-Dichloroethylene	0.7	<0.003	<0.003	0.116	116	0.100
Methyl Ethyl Ketone	200	<0.075	<0.075	0.086	85.6	0.100
Chloroform	6.0	<0.005	<0.005	0.114	114	0.100
1,2-Dichloroethane	0.5	<0.002	<0.002	0.110	110	0.100
Benzene	0.5	<0.002	<0.002	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.003	<0.003	0.091	91.2	0.100
Trichloroethylene	0.5	<0.003	<0.003	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.087	86.6	0.100
Chlorobenzene	100	<0.004	<0.004	0.096	95.7	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.025	0.095	94.9	0.100

	% RECOVERY
Dibromofluoromethane	82
Toluene-d8	110
Bromofluorobenzene	81

METHODS: EPA SW 846-8260, 1311

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FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-5
Sample ID: MIDWAY 14'

Analysis Date: 04/18/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H14666-5	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	96.5	0.100
1,1-Dichloroethylene	0.7	<0.003	<0.003	0.116	116	0.100
Methyl Ethyl Ketone	200	<0.075	<0.075	0.086	85.6	0.100
Chloroform	6.0	0.007	<0.005	0.114	114	0.100
1,2-Dichloroethane	0.5	<0.002	<0.002	0.110	110	0.100
Benzene	0.5	<0.002	<0.002	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.003	<0.003	0.091	91.2	0.100
Trichloroethylene	0.5	<0.003	<0.003	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.087	86.6	0.100
Chlorobenzene	100	<0.004	<0.004	0.096	95.7	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.025	0.095	94.9	0.100

	% RECOVERY
Dibromofluoromethane	104
Toluene-d8	120
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311

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4/22/08
Date

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LAS CRUCES, NM 88005
FAX TO: (575) 526-1714

Receiving Date: 04/16/08
Reporting Date: 04/22/08
Project Owner: CITY OF ARTESIA
Project Name: CITY OF ARTESIA
Project Location: 1st STREET
Lab Number: H14666-6
Sample ID: MIDWAY 14.5'

Analysis Date: 04/18/08
Sampling Date: 04/16/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H14666-6	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	96.5	0.100
1,1-Dichloroethylene	0.7	<0.003	<0.003	0.116	116	0.100
Methyl Ethyl Ketone	200	<0.075	<0.075	0.086	85.6	0.100
Chloroform	6.0	0.012	<0.005	0.114	114	0.100
1,2-Dichloroethane	0.5	<0.002	<0.002	0.110	110	0.100
Benzene	0.5	0.013	<0.002	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.003	<0.003	0.091	91.2	0.100
Trichloroethylene	0.5	<0.003	<0.003	0.102	102	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.087	86.6	0.100
Chlorobenzene	100	<0.004	<0.004	0.096	95.7	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.025	0.095	94.9	0.100

	% RECOVERY
Dibromofluoromethane	110
Toluene-d8	117
Bromofluorobenzene	107

METHODS: EPA SW 846-8260, 1311

Burgess J.A. Cooke, Ph. D.

4/22/08
Date

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

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Burns Construction	**BILL TO**	
Project Manager:	Rachel Bustos	P.O. #:	
Address:	2100 W Avenue	Company:	
City:	Las Cruces State: NM Zip: 88005	Attn:	
Phone #:	575-526-4421 Fax #: 575-526-1714	Address:	
Project #:	Artesia Project Owner: City of Artesia	City:	
Project Name:	Sewer	State: Zip:	
Project Location:	1st Street	Phone #:	
Sampler Name:	Jim Boca	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH	BTEX	TCLP Full (Ant/Bas, SV via RCI, metals)	Chloride
H14616-1	South End JJ Clark		4	✓							✓		4/16/08	11:27	✓	✓	✓	✓
-2	North End Conoco St.		4	✓							✓			11:50	✓	✓	✓	✓
-3	Midway Well		4	✓							✓			11:10	✓	✓	✓	✓
-4	Midway 13.5'		1			✓					✓			11:15	✓	✓	✓	✓
-5	14'		1			✓					✓			11:15	✓	✓	✓	✓
-6	14.5'		1			✓					✓			11:15	✓	✓	✓	✓

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Relinquished By:	Date:	Received By:	
	Time:		
Relinquished By:	Date: 4/16/08	Received By:	
	Time: 14:05		
Delivered By: (Circle One)		Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) CDK
Sampler - UPS - Bus - Other:			

Phone Result:	☐ Yes	☐ No	Add'l Phone #:
Fax Result:	☐ Yes	☐ No	Add'l Fax #:
REMARKS:	cell - 621-3452 Jim Boca		

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

Chavez, Carl J, EMNRD

From: Price, Wayne, EMNRD
Sent: Tuesday, May 06, 2008 8:25 AM
To: Bratcher, Mike, EMNRD; Chavez, Carl J, EMNRD
Cc: Gum, Tim, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

Mike, thank you for the feedback and I agree with your assessment. I will have Carl notify Navajo since they may be the closest source.

From: Bratcher, Mike, EMNRD
Sent: Tuesday, May 06, 2008 8:12 AM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Cc: Gum, Tim, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

Wayne,

I think that without further investigation, what we know so far is inconclusive. There are some hydrocarbons present as indicated by the analytical data. With the exception of I think one, the other constituents tested for are at or below EPA limits. If we want to determine the source of the hydrocarbons, we would have to pull samples from other areas. I would start across the highway towards the refinery to see what is there at the depth they collected samples in the sewer line trench. At this point, I can't really see holding up the project or even having them haul off impacted material. As was discussed at the meeting with the contractors and the City, they should get with the pipe manufacturer and be sure that what is in the ground will not have an adverse affect on the new pipe they are installing, or possibly take measures to insulate the pipe through that area, and then take appropriate actions to ensure the safety of workers in regards to the H2S that was encountered.

The next question would then be, if we did want to pursue the source, who would take lead on that project (OCD, ED, Navajo)? I also think that we would run into quite a bit of opposition in doing a remediation under a US highway. Rachel Bustos (Burn Construction) wants a call back from me, and unless you guys think otherwise, I am inclined to have them proceed with the project. Let me know what you think.

Mike

From: Price, Wayne, EMNRD
Sent: Monday, May 05, 2008 4:52 PM
To: Bratcher, Mike, EMNRD; Chavez, Carl J, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

So, id this Oil field??

From: Bratcher, Mike, EMNRD
Sent: Monday, April 28, 2008 5:05 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

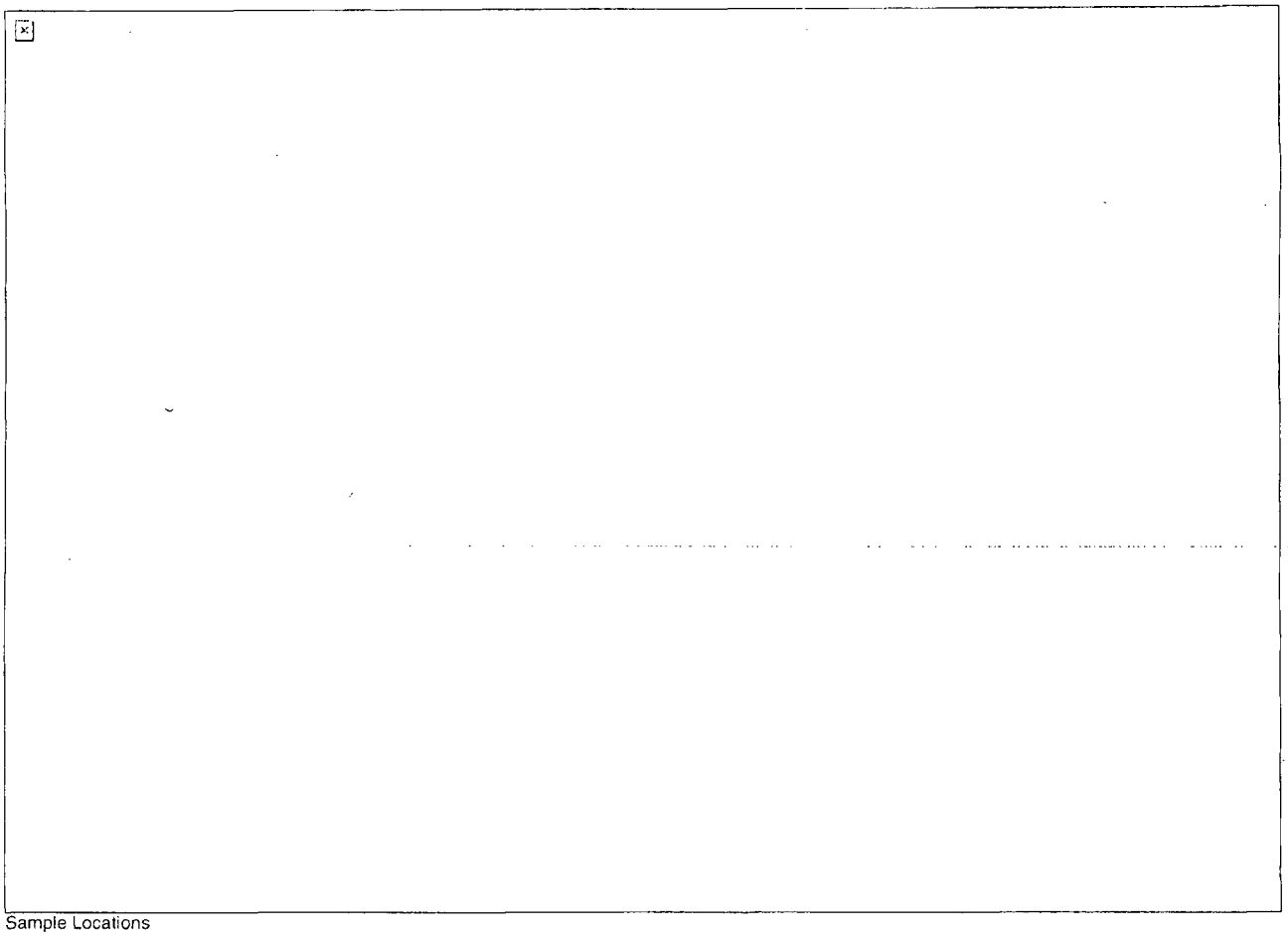
Three of three

From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, May 06, 2008 9:43 AM
To: Bratcher, Mike, EMNRD; Price, Wayne, EMNRD
Cc: Gum, Tim, EMNRD
Subject: RE: Attachment from Burn Construction[3/3]

I recommend the project continue with samples to document any contamination discovered. Worker safety is first and unless this prevent the pipeline from continuing and makes cleanup mandatory, they should proceed. It would be nice if they could provide any H2S and/or sampling locations via GPS while they are conducting their work. Good idea on the pipe resilience to contamination present Mike.



Sample Locations

OCD will need to go over to DOT to look at historical aerial photos and evaluate the area west of the highway. I am very reluctant to point the finger at the refinery until the photos are examined to assess potential source areas to the west. Even if we find a source from the west, there appears to be new owner issues, etc. to contend with that may require reclamation fund money to address. As for cleanup under the highway, Soil Vapor Extraction may be a solution if we have a responsible party. I am inclined to ask the refinery to do work on the other side (eastern side) of the highway from the hot spot to see if there is any link to the refinery, but I will need to examine aerial photos. I plan to do it this week. Glenn said DOT has historical aerial photos from major roadways in NM, but they are not available electronically. A web search for free aerials was fruitless as even USGS is charging.

Stay tuned.....

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) 476-3491
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")

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Subject: FW: Attachment from Burn Construction[3/3]

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Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, April 29, 2008 8:48 AM
To: Guye, Gerry, EMNRD
Cc: Bratcher, Mike, EMNRD
Subject: RE: Artesia Sewer Line Incident

Gerry:

Ok. Thanks.

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) 476-3491
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")

From: Guye, Gerry, EMNRD
Sent: Monday, April 28, 2008 7:20 AM
To: Chavez, Carl J, EMNRD
Cc: Bratcher, Mike, EMNRD
Subject: RE: Artesia Sewer Line Incident

Carl
There are many places that offer Aerial Photos, some are free and others can be rather expensive.
I would recommend a Google search for Historical Aerial Photos and just start at the top.
USGS site may have what you want.

Gerry Guye
Compliance Officer
NMOCD - Artesia
Office (505)748-1283x105
Mobile (505)626-0843
E-Mail: gerry.guye@state.nm.us

From: Chavez, Carl J, EMNRD
Sent: Thursday, April 24, 2008 3:14 PM
To: Price, Wayne, EMNRD; Bratcher, Mike, EMNRD
Cc: Guye, Gerry, EMNRD
Subject: RE: Artesia Sewer Line Incident

Wayne:

We're going to wait to review all of the analytical data before we act. Also, the potential point sources from west of the highway is not very well understood at this. The H2S gas detected could be coming from multiple sources

including the refinery, If the refinery has a leak in any of its H2S units, etc., the gas could be migrating down preferential pathways like existing or historical man made sewer lines, etc. Due to the windy nature of the season, OCD did not detect any H2S on 4/21.

By receipt of this e-mail, I am copying Jerry Guy as Mike indicated on 4/21/08 that he may be able to obtain historical aerial photos for OCD to look at in west and northwest of the Artesia Refinery? Can you help with aerials Jerry or direct me to a website that you think I could obtain them? I know there are mapping companies that provide this type of service.

Thanks.

Carl J. Chavez, CHMM
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Website: http://www.emnrd.state.nm.us/ocd/index.htm
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Sent: Thursday, April 24, 2008 2:53 PM
To: Bratcher, Mike, EMNRD; Chavez, Carl J, EMNRD
Subject: RE: Artesia Sewer Line Incident

Carl, if you are Mike think it might be Navajo, go ahead and approach them on the clean-up.

From: Bratcher, Mike, EMNRD
Sent: Thursday, April 24, 2008 2:45 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: Artesia Sewer Line Incident

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Mike

L:\Artesia\Artesia Sewer Line Incident

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Sent: Monday, April 28, 2008 5:05 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[3/3]
Attachments: img-4280823-0003.pdf

Three of three

From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
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Subject: FW: Attachment from Burn Construction[3/3]

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Sent: Monday, April 28, 2008 5:04 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Attachment from Burn Construction[2/3]
Attachments: img-4280823-0002.pdf

Two of three

From: Rachel Bustos [mailto:RachelBustos@burnconstruction.com]
Sent: Monday, April 28, 2008 8:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: Attachment from Burn Construction[2/3]

Chavez, Carl J, EMNRD

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Thanks.

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Mike

L:\Artesia\Artesia Sewer Line Incident

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, July 01, 2008 2:17 PM
To: Monzeglio, Hope, NMENV
Subject: RE: Table 1 Navajo Refining Company Groundwater Monitoring Schedule

Perfect. J

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) 476-3491
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")

From: Monzeglio, Hope, NMENV
Sent: Tuesday, July 01, 2008 2:10 PM
To: Chavez, Carl J, EMNRD
Cc: Cobrain, Dave, NMENV
Subject: RE: Table 1 Navajo Refining Company Groundwater Monitoring Schedule

Carl

Below is a revision, I do not want to be too specific in the footnotes as requirements maybe missed. Any product recover additions or specific requirements maybe better stated as line items in the discharge plan? Let me know if the below works.

Note: All recovery trenches and all wells with phase-separated hydrocarbons (PSHs) must be checked at a minimum of once per month and recorded on a spreadsheet. The data must be presented in table form listing all of the recovery wells, date inspected, product thickness measured to 0.01 of a foot, and amount of product/water recovered. If PSHs are observed in a monitoring well, recovery well or trench of 0.5 ft or less a passive recovery system must be installed, if 0.5 ft of PHS or greater is present, then an active recovery system must installed to recover the PSHs using the best available technology and approved by NMED and OCD. This information must be provided in the annual groundwater report.

Hope

From: Chavez, Carl J, EMNRD
Sent: Tuesday, July 01, 2008 12:41 PM
To: Monzeglio, Hope, NMENV
Subject: RE: Table 1 Navajo Refining Company Groundwater Monitoring Schedule

Hope:

Hi. What about the footnote for PSH's at the bottom of table? As we discussed yesterday with Dave, I believe we wanted to include language for active PSH recovery systems in wells containing PSH greater than 0.5 ft. and designated systems at other well where PSHs are present, but at less than 0.5 ft. If you can adjust the language in your footnote, I can incorporate it into the free-product (PSH) section of the DP. Thnx.

Carl J. Chavez, CHMM
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Monzeglio, Hope, NMENV
Sent: Tuesday, July 01, 2008 10:51 AM
To: Chavez, Carl J, EMNRD; Moore, Darrell
Cc: Cobrain, Dave, NMENV
Subject: Table 1 Navajo Refining Company Groundwater Monitoring Schedule

Carl and Darrell

As Carl is updating the OCD discharge plan, I have revised Table I (Navajo Refining Company Groundwater Monitoring Schedule) which is originally from the Groundwater Monitoring Plan required by NMED's Permit. I have added newly installed monitoring wells MW-72 through MW-102. These are highlighted in yellow. Let me know if you have any questions.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000
Fax: (505)-476-6060
hope.monzeglio@state.nm.us

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

Chavez, Carl J, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Thursday, April 24, 2008 2:45 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: Artesia Sewer Line Incident

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L:\Artesia\Artesia Sewer Line Incident

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, June 26, 2008 3:22 PM
To: 'Moore, Darrell'; Monzeglio, Hope, NMENV; Bratcher, Mike, EMNRD
Subject: RE: tk 437 spill

Darrell:

Please forward a C-138(s) for disposal volumes of the contaminated dirt disposed at an OCD permitted facility as verification of soil remediation with the excavation bottom samples. 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) 476-3491
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Thursday, June 26, 2008 11:19 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Bratcher, Mike, EMNRD
Subject: tk 437 spill

Carl, Hope and Mike

Attached is the C-141 from a spill that happened at the plant yesterday. We have picked up all contaminated soil and will take bottom hole samples today. When those results are in we will forward to you. If you have any questions, please call me at 575-746-5281 or on my cell at 575-703-5058. Thanks

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

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Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, June 26, 2008 11:19 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Bratcher, Mike, EMNRD
Subject: tk 437 spill
Attachments: tk 437 spill.pdf

Carl, Hope and Mike

Attached is the C-141 from a spill that happened at the plant yesterday. We have picked up all contaminated soil and will take bottom hole samples today. When those results are in we will forward to you. If you have any questions, please call me at 575-746-5281 or on my cell at 575-703-5058. Thanks

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
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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 Darrell Moore
Address 501 E. Main Artesia, 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 Crude Oil	Volume of Release 180 bbls	Volume Recovered 140 bbls
Source of Release Tk 437	Date and Hour of Occurrence 6/25/08 3:30 AM	Date and Hour of Discovery Same
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left Message on Artesia OCD phone system	
By Whom? Jeff Byrd	Date and Hour 6/25/08 4:00 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.* While cleaning Tk 437(crude tk) the manway was removed. A dam of sediment inside the tank apparently held a substantial amount of crude b behind it. While washing with water, the dam broke and the super sucker couldn't keep up with the rush of fluids.

Describe Area Affected and Cleanup Action Taken.* Area affected is inside the dike of Tk 437. After the intial flush, the super sucker sucked up the standing crude oil and put it in vacuum boxes. Contaminated soil will be removed and disposed. Bottom hole samples will be 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 & Waste.	Approval Date: / Expiration Date:
E-mail Address: darrell.moore@navajo-refining.com	Conditions of Approval: / Attached ☐
Date: 6/26/08 Phone: 575-703-5058	

* 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
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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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	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 180 bbls. Volume Recovered 140 bbls.
Source of Release Tk 437	Date and Hour of Occurrence 6/25/08 ~3:30am Date and Hour of Discovery Same
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left message on Artesia OCD phone system
By Whom? Jeff Byrd	Date and Hour 6/25/08 4:00 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.* While cleaning Tk 437 (Crude Tank) the man-way was removed. A dam of sediment inside the tank apparently held a substantial amount of crude behind it. While washing with water, the dam broke and the super sucker couldn't keep up with the rush of fluids.

Describe Area Affected and Cleanup Action Taken.* Area affected is inside the dike of Tk 437. After the initial flush, the super sucker sucked up the standing crude oil and put it in vacuum boxes. Contaminated soil will be removed and disposed. Bottom hole samples will be 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:	OIL CONSERVATION DIVISION	
Printed Name: Darrell Moore	Approved by District Supervisor:	
Title: Env. Mgr for Waterm Waste	Approval Date:	Expiration Date:
E-mail Address: darrell.moore@navajo-refining.com	Conditions of Approval:	Attached ☐
Date: 6/26/08 Phone: 575-703-5058		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

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: Darrell Moore
Address: 501 E. Main	Telephone No.: 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refining

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

NATURE OF RELEASE

Type of Release: Slop Oil	Volume of Release: 5 bbls.	Volume Recovered: 2 bbls.
Source of Release: Run over of sump	Date and Hour of Occurrence: 5/3/08 10:00pm	Date and Hour of Discovery: 5/3/08 10:00pm
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 10:00pm on May 3, 2008 the plant lost power. Since our lift pumps are electric, we had no way to pump the sump. We got the steam pump started at 10:45 pm to stop the over flow.

Describe Area Affected and Cleanup Action Taken.* Area affected is around the waste water treatment area and near the North East corner of the Alkylation Unit. Contaminated soil has been removed and bottom hole samples 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&& Waste	Approval Date: / Expiration Date:
Date: 5/8/08 Phone: 748-3311	Conditions of Approval: / Attached ☐

* Attach Additional Sheets If Necessary

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, May 30, 2008 2:27 PM
To: Chavez, Carl J, EMNRD
Subject: API SPILL
Attachments: 805485 API Bottom Hole Final.pdf; API Spill.pdf

Carl,

Attached are the Bottom Hole Results from the API spill we reported to you. The spill occurred on May 3, 2008. I have also attached a copy of the original notification.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

29-May-08

Jeff Byrd
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: API Bottom Hole

Work Order : **0805485**

Dear Jeff,

e-Lab Analytical, Inc. received 1 sample on 5/21/2008 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Glenda H. Ramos

Jeffrey L Croston
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-08-TX

e-Lab Analytical, Inc.

Date: 29-May-08

Client: Navajo Refining Company
Project: API Bottom Hole
Work Order: **0805485**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0805485-01	API B.H.	Soil		5/20/2008 13:20	5/21/2008 09:15	☐

e-Lab Analytical, Inc.

Date: *29-May-08*

Client:	Navajo Refining Company		
Project:	API Bottom Hole	**Work Order:**	0805485
Sample ID:	API B.H.	**Lab ID:**	0805485-01
Collection Date:	5/20/2008 01:20 PM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH SW8015D MODIFIED			**SW8015M**		Prep Date: **5/22/2008**	Analyst: **JFT**
TPH (Gasoline Range)	ND		49	mg/Kg	1	5/23/2008 06:07 PM
TPH (Diesel Range)	ND		49	mg/Kg	1	5/23/2008 06:07 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- E - Value above quantitation range
- H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Client: Navajo Refining Company
Work Order: 0805485
Project: API Bottom Hole

Date: *29-May-08*

QC BATCH REPORT

Batch ID: **29868** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-080522** Units: **mg/Kg** Analysis Date: **5/23/2008 03:48 AM**
Client ID: Run ID: **FID-7_080522C** SeqNo: **1405742** Prep Date: **5/22/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	ND	50								
TPH (Diesel Range)	ND	50								

LCS Sample ID: **FLCSS1-080522** Units: **mg/Kg** Analysis Date: **5/23/2008 04:35 AM**
Client ID: Run ID: **FID-7_080522C** SeqNo: **1405745** Prep Date: **5/22/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	224.3	50	250	0	89.7	70-130	0			
TPH (Diesel Range)	187.5	50	250	0	75	70-130	0			

LCSD Sample ID: **FLCSDS1-080522** Units: **mg/Kg** Analysis Date: **5/23/2008 05:22 AM**
Client ID: Run ID: **FID-7_080522C** SeqNo: **1405749** Prep Date: **5/22/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	223.5	50	250	0	89.4	70-130	224.3	0.366	30	
TPH (Diesel Range)	195.2	50	250	0	78.1	70-130	187.5	4.01	30	

MS Sample ID: **0805494-02BMS** Units: **mg/Kg** Analysis Date: **5/23/2008 06:08 AM**
Client ID: Run ID: **FID-7_080522C** SeqNo: **1405751** Prep Date: **5/22/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	237.3	50	248.8	0	95.4	70-130	0			
TPH (Diesel Range)	290.3	50	248.8	49.44	96.8	70-130	0			

MSD Sample ID: **0805494-02BMSD** Units: **mg/Kg** Analysis Date: **5/23/2008 06:55 AM**
Client ID: Run ID: **FID-7_080522C** SeqNo: **1405752** Prep Date: **5/22/2008** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Gasoline Range)	266.2	50	249.8	0	107	70-130	237.3	11.5	30	
TPH (Diesel Range)	329.8	50	249.8	49.44	112	70-130	290.3	12.7	30	

The following samples were analyzed in this batch: 0805485-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

e-Lab
QUALITY • INTEGRITY • SERVICE

10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Page 1 of 1

3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

ALS

Project Manager: | Work Order #: 805415

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	API Bottom Hole	A	TCLP VOA
Work Order		Project Number		B	TCLP Semi VOA
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	TPH 8015M
Send Report To		Invoice Attn		D	
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		e-Mail Address		J	

Sample Description	Date	Time	Matrix	Pres	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
API B.H.	5/20/08	1320	S	4	1			X								

Sampler(s) Please Print & Sign: [signature] | Shipment Method: FedEx | Required Turnaround Time: (Check Box) [X] Std. 10 WK Days [ ] 5 WK Days [ ] 2 WK Days [ ] 24 Hour [ ] Other | Results Due Date:

Relinquished by: [signature]	Date: 5/20/08	Time: 1615	Received by: [signature]	Notes:	
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] 5/21/08 09:15	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-NaHSO 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)
- [ ] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Check
- [ ] TRRP Level IV

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

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Lab Analytical, Inc.

Sample Receipt Checklist

Client Name: NAVAJO REFINING | Date/Time Received: 5/21/2008 09:15

Work Order Number 0805485 | Received by: RNG

Checklist completed by [signature] Signature | 5/21/08 Date | Reviewed by [initials] Initials | 5/22/08 Date

Matrix: S | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No	
All samples received within holding time?	Yes ☑	No	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.7c	002	
Cooler(s)/Kit(s):	1807		
Water - VOA vials have zero headspace?	Yes ☐	No ☑	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	N/A ☐

Adjusted? | Checked by

Login Notes:

Client contacted: | Date contacted: | Person contacted

Contacted by: | Regarding:

Comments:

Corrective Action

STANDARD OVERNIGHT WED

Emp# 515149 09:55 21MAY08

Deliver By:
21MAY08

TRK# 9391 8021 6628 FORM 0201

IAH

77099 -TX-US AB JGQA