

UIC - 1 - 8

C-141s

**Mewbourne
Well No. 1**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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

Form C-141
Revised August 8, 2011

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

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: Mike Holder	
Address: 501 E. Main Street, Artesia, NM 88210	Telephone No. 575-746-5487	
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 _____ Longitude _____

NATURE OF RELEASE

Type of Release: Refinery wastewater	Volume of Release: Not determined.	Volume Recovered: Not applicable (NA) – See below.
Source of Release: Refinery Wastewater Treatment Plant (WWTP)	Date and Hour of Occurrence Sample taken on 11/4/13 at 5:35 a.m.; discharge on 11/2/13 at 5:55 a.m.	Date and Hour of Discovery: Upon receipt of laboratory analytical results on 11/6/13 at 1:37 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD Sante Fe, Carl Chavez; left message NMED Santa Fe, David Cobrain; left message	
By Whom? Mike Holder	Date and Hour: 11/6/13 at 8:45 p.m. (OCD); 11/6/13 at 8:50 p.m. (NMED)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*

NA

Describe Cause of Problem and Remedial Action Taken.*

The Artesia Refinery is authorized to discharge wastewater from its onsite WWTP to three underground injection control wells pursuant to OCD Permit Nos. UIC-008-01 (WDW-1), UIC-008-2 (WDW-2), and UIC-008-3 (WDW-3). As reported in our immediate notice, on November 6, 2013, the Refinery received laboratory analytical results from a single lab for our wastewater discharge to the three wells on November 4, 2013. The results reported total selenium of 0.98 milligrams/liter (mg/l), and selenium of 1.1 mg/l using the Toxicity Characteristic Leachate Procedure (TCLP). Also, the data received on November 6 indicated that the discharge to the three wells from WWTP Tank 836 on November 2, 2013 may have been greater than the TCLP level of 1.0 mg/l. As explained in our immediate notice, the average of earlier analytical results from two different labs of samples taken of Tank 836 on November 1, 2013 reported total selenium of 0.974 mg/l and selenium of 1.13 mg/l using the TCLP. Tank 836 was not discharging on November 1, and until receipt of the November 4 discharge data, Navajo did not believe that its discharge on November 2 would have been above the TCLP level for selenium. The November 6 data changed Navajo's thinking on this, and we conservatively reported the November 2 discharge. Navajo ceased discharging to the wells on November 5, 2013 concurrently with receipt of the sampling data for October 31 that resulted in our November 5 self-report.

The composition of the wastewater discharge on November 2 and November 4 was generally the same as the Refinery's typical wastewater discharge to the wells, and Navajo has identified certain anomalies in recently reported selenium results, including that selenium levels based on the TCLP are in some instances greater than selenium levels based on a total selenium analysis. Navajo has engaged experts to further analyze whether these results are accurate and valid.

Selenium is a naturally-occurring constituent of the crude oil received and processed at the Refinery, as well as in water used in Refinery processes. Navajo is examining long-term engineering solutions to reduce selenium levels in the Refinery's wastewater discharge, including consideration of various technologies, and has retained an outside engineering firm to assist with this analysis. In addition, the Refinery is promptly taking steps to assess interim, shorter-term methods to lower selenium levels that can be implemented quickly. Navajo will provide OCD with updates on selenium reduction measures consistent with requirements under the ACO.

Describe Area Affected and Cleanup Action Taken.*

As explained above, the wastewater discharge was to three underground injection controls wells permitted by OCD. The discharge is not expected to cause damage or injury because, among other reasons (i) the discharge was not to a watercourse as defined by OCD, (ii) upon injection, the wastewater was added to large volumes of wastewater already in the well formation such that resulting concentrations would be less than the TCLP threshold; (iii) the wells are located beneath the lowest formation that could be an underground source of drinking water, (iv) the wells already contain total dissolved solids greater than 10,000 mg/l, and (v) the wastewater discharge was only slightly above the TCLP level of 1.0 mg/l. As a result, the Company has not identified any harm resulting from the discharge, and no immediate cleanup actions were needed or taken. The Company is continuing to take steps to identify the source of elevated selenium and to take corrective measures.

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.

		<u>OIL CONSERVATION DIVISION</u>	
Signature: 		Approved by Environmental Specialist:	
Printed Name: Mike Holder			
Title: Environmental Manager		Approval Date:	Expiration Date:
E-mail Address: Mike.Holder@hollyfrontier.com		Conditions of Approval:	
Date: November 13, 2013 Phone: 575-746-5487		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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1220 South St. Francis Dr.
Santa Fe, NM 87505

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: Mike Holder
Address: 501 E. Main Street, Artesia, NM 88210	Telephone No. 575-746-5487
Facility Name: Artesia Refinery	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	API No.
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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: Refinery wastewater	Volume of Release: Not determined.	Volume Recovered: Not applicable (NA) – See below.
Source of Release: Refinery Wastewater Treatment Plant (WWTP)	Date and Hour of Occurrence Sample taken on 10/31/13 at 5:25 a.m.	Date and Hour of Discovery: Upon receipt of second set of laboratory analytical results for split sample, on 11/5/13 at 1:58 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD Sante Fe, Carl Chavez; left message NMED Santa Fe, David Cobrain; left message	
By Whom? Mike Holder	Date and Hour: 11/5/13 at 4:02 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*

NA

Describe Cause of Problem and Remedial Action Taken.*

The Artesia Refinery is authorized to discharge wastewater from its onsite WWTP to three underground injection control wells pursuant to OCD Permit Nos. UIC-CLI-008 (I-008) (WDW-1), UIC-CLI-008-1 (I-008-1) (WDW-2), and UICI-008-0 (WDW-3). As reported in our immediate notice, on November 4 and 5, 2013, the Refinery received laboratory analytical results from samples from two different labs of WWTP Tank 836 contents, taken on October 31, 2013. Tank 836 was discharging to the wells on that date. Taking the average of these results, as required under our recently signed Agreed Compliance Order (ACO) with OCD, the results reported total selenium of 0.996 milligrams/liter (mg/l), and selenium of 1.23 mg/l using the Toxicity Characteristic Leachate Procedure (TCLP). A sample at the downstream discharge point also taken on October 31, 2013 reported 1.24 mg/l selenium based on the TCLP. Navajo ceased discharging to the wells on November 5, 2013 concurrently with receipt of the sampling data for October 31 that resulted in our November 5 self-report. Note that Navajo also received laboratory analytical results from split samples from two different labs of WWTP Tank 801 contents, likewise taken on October 31, 2013. Tank 801 was not discharging on that date, and further, although one of these samples reported selenium at 1.09 mg/l using the TCLP, the other sample reported selenium at 0.8 mg/l using TCLP, with a resulting average less than the TCLP level of 1.0 mg/l (at 0.945 mg/l).

The composition of the wastewater discharge on October 31 was generally the same as the Refinery's typical wastewater discharge to the wells, and Navajo has identified certain anomalies in recently reported selenium results, including that selenium levels based on the TCLP are in some instances greater than selenium levels based on a total selenium analysis. Navajo has engaged experts to further analyze whether these results are accurate and valid.

Selenium is a naturally-occurring constituent of the crude oil received and processed at the Refinery, as well as in water used in Refinery processes. Navajo is examining long-term engineering solutions to reduce selenium levels in the Refinery's wastewater discharge, including consideration of various technologies, and has retained an outside engineering firm to assist with this analysis. In addition, the Refinery is promptly taking steps to assess interim, shorter-term methods to lower selenium levels that can be implemented quickly. Navajo will provide OCD with updates on selenium reduction measures consistent with requirements under the ACO.

Describe Area Affected and Cleanup Action Taken.*

As explained above, the wastewater discharge was to three underground injection controls wells permitted by OCD. The discharge is not expected to cause damage or injury because, among other reasons (i) the discharge was not to a watercourse as defined by OCD, (ii) upon injection, the wastewater was added to large volumes of wastewater already in the well formation such that resulting concentrations would be less than the TCLP threshold; (iii) the wells are located beneath the lowest formation that could be an underground source of drinking water, (iv) the wells already contain total dissolved solids greater than 10,000 mg/l, and (v) the wastewater discharge was only slightly above the TCLP level of 1.0 mg/l. As a result, the Company has not identified any harm resulting from the discharge, and no immediate cleanup actions were needed or taken. The Company is continuing to take steps to identify the source of elevated selenium and to take corrective measures.

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.

<u>OIL CONSERVATION DIVISION</u>	
Signature:  Printed Name: Mike Holder Title: Environmental Manager E-mail Address: Michael.Holder@hollyfrontier.com Date: November 11, 2013 Phone: 575-746-5487	Approved by Environmental Specialist: Approval Date: Expiration Date: Conditions of Approval:
Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

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 to determine disposal fl 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 to determine waste water 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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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.
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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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: 	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 <input type="checkbox"/>
Date: 06/07/2010	Phone: 575-703-5057	

* Attach Additional Sheets If Necessary