

**GW - 28**

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**PERMITS,  
RENEWALS,  
& MODS**

# Navajo Waste Water Management

Status	September 2011	October 2014	Planned
WWTP effluent to wells (gpm)	550	350	0
Wastewater flow to POTW (gpm) *	165	100	400*
RO Reject / High TDS streams to wells (gpm)	0	0	200
RO Reject to land application (gpm)	300	300	0
Well Injection system capacity (gpm)	700	465	Unknown
Well Head pressure at max rate (psig)	700	1350	1350
Well estimated life at operating pressure – static analysis (years)	5 – 7	2 – 3	Unknown
Total Waste Water (gpm)	1015	750	600

\*POTW will require expansion to increase discharge from Navajo. POTW design is 2.6 MGD. Navajo increase to 400 gpm will take POTW to 2.1 MGD.

# Navajo Waste Water Management

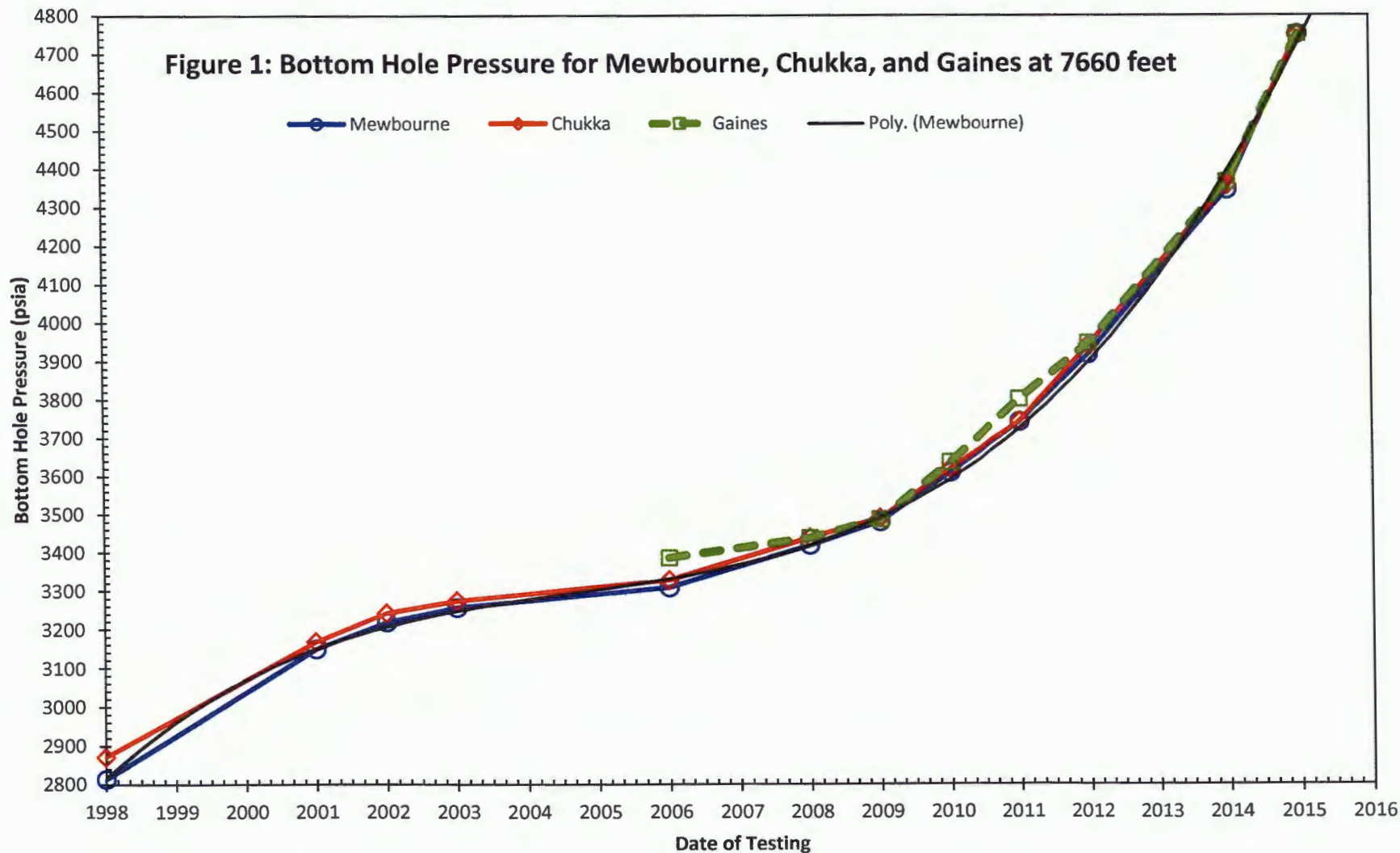
## **Wastewater Management Strategy 2011 through 2012**

- Reduce dry weather wastewater flow sufficient to add RO Reject stream to deep well injection
- Reduce total volume of RO reject via installation of Secondary RO
- Discontinue land application by directing RO reject to deep well injection with wastewater
- Predicated on being able to inject at 600 gpm

## **Current Wastewater Management Strategy (due to injection well projections)**

- Divert all WWTP effluent to Artesia POTW – 400 gpm
- Direct high TDS Streams only to Injection Wells (RO Reject – FCC Scrubber – Boiler Blowdown)
- Installation of 4<sup>th</sup> injection well and permitting for hazardous materials to allow for stream concentration
- Neither the injection wells nor POTW have insufficient capacity to independently receive all wastewater generated by the refinery.
- Wastewater management strategy is contingent upon meeting pending POTW pretreatment standards.

# Navajo Waste Water Management Injection Well Performance Data





# Navajo Waste Water Management

## Injection Well Performance Projections

Predicted Rates and Volumes Through End of 2015

	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15
Surface Pressure (psig)	1350	1350	1350	1350	1350	1350	1350
Injection Rates (GPM)*	372	368	362	355	349	343	337
Monthly Volume (gal)	16,070,400	16,408,875	16,137,536	14,330,759	15,594,858	14,829,212	15,052,180

	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Surface Pressure (psig)	1400	1400	1400	1400	1400	1400	1400
Injection Rates (GPM)*	343	337	331	324	318	312	306
Monthly Volume (gal)	14,833,819	15,046,891	14,765,502	14,016,884	14,202,725	13,472,261	13,639,947

Based on average injectivity decrease each week over previous six months from May, 2014 to December, 2014

# Navajo Waste Water Management

Known constituents needing reduction for discharge to POTW

Constituent	Strategy
Selenium	Remove via SeRT Unit
Total Dissolved Solids (TDS)	Send high TDS streams to injection wells*

\*Evaluation of high TDS streams indicate acceptability by receiving formation  
Note: POTW will require expansion to receive additional Navajo discharge.

Additional constituents potentially needing reduction for discharge to POTW

Constituent	Strategy
Total Nitrogen	Install additional capital at POTW for improved nitrogen removal to increase Navajo limit (3 year project)
Cyanide	Segregate high CN bearing water for well injection (2 year project)

# Navajo Waste Water Management

Additional Wastewater Management/Conservation Strategies under engineering review

- Return Hydrogen Plant Condensate to the Boiler Feed Water System
  - Will reduce Cooling Tower Blowdown to wastewater and decrease the volume of fresh water needed for boiler feed water.
- Install water quality based capital upgrades to improve reliability toward meeting Artesia POTW pretreatment standards:
  - Desalter oil/water separation improvements
  - Revamp of existing SeRT unit to improve Selenium removal.
  - Segregation of CN bearing water for future well disposal.
- Install fourth injection well as contingency for high TDS streams and seek permitting for hazardous wastewaters
- Reuse of stormwater in refinery processes



# Waste Water Management Planning

## Sequence of Events

<b>October 2011</b>	Navajo distributed RFP for Phase 1 Waste Water and RO Reject Alternatives Study
<b>December 2011</b>	Proposals received to develop list of all treatment alternatives for 3 objectives <ol style="list-style-type: none"> <li>1. Selenium Reduction</li> <li>2. RO Reject and High TDS stream management</li> <li>3. Treatment requirements for potential future direct and/or POTW discharge</li> </ol>
<b>January 2012</b>	Finalized consultant choice – CH2M Hill awarded project – Held Initial kickoff meeting
<b>February - April 2012</b>	Project start delayed due to refinery Turnaround – unable to get representative samples Navajo begins independent selenium treatment process evaluations of available technologies
<b>June 2012</b>	Official Phase 1 project kickoff: List and description of available technologies based on Navajo waste water quality.
<b>August 2012</b>	Phase 1 technical memorandums received
<b>September 2012</b>	CH2M Hill kickoff on Phase 2 of project: Detailed analysis of alternatives
<b>January 2013</b>	Phase 2 report and analysis received from CH2M Hill
<b>January - February 2013</b>	Navajo review of detailed alternatives analysis Two alternatives chosen for each objective for further development

# Waste Water Management Planning

## Sequence of Events - Continued

<b>March 2013</b>	CH2M Hill kickoff on Phase 3 of project: Class 4 design and cost of chosen alternatives
<b>April 2013</b>	Subsurface study results indicate injection well life at < 12 months at current pump pressure
<b>June 2013</b>	Permit modification request to install booster pumps at wells
<b>August 2013</b>	Phase 3 technical memorandums received
<b>September 2013</b>	Navajo distributed RFP for process engineering of chosen alternatives <ol style="list-style-type: none"> <li>1. Selenium Reduction: SeRT Unit Design</li> <li>2. RO Reject / high TDS streams: Secondary RO and transfer system to injection wells</li> <li>3. Direct/POTW Discharge: Navajo WWTP revamp to enable RO treatment of waste water.</li> </ol>
<b>October 2013</b>	Proposal clarifications made and accepted Installed the FeCl injection to reduce waste water effluent selenium concentration
<b>November 2013</b>	Process Engineering Kickoff
<b>November-December 2013</b>	CH2M Hill redirected from engineering to assist with Selenium issue Startup of Booster Pumps at wells
<b>January 2014</b>	Process Engineering of alternatives restarted
<b>July 2014</b>	Engineering complete – all design documents received



# Waste Water Management Planning

## Sequence of Events - Continued

<b>August 2014</b>	Navajo distributed RFP for Secondary RO (SRO) detail design and construction
<b>September 2014</b>	Contractor chosen for SRO detail design and construction Navajo distributed RFP for SeRT detail design and construction Navajo receives updated projections on injection well life based on 2014 PFOTs
<b>October 2014</b>	Working final clarifications with chosen SRO contractor. Design and construction schedule 7 months from official award (November 2014 start)
<b>November 2014</b>	Navajo to receive proposals and choose contractor for SeRT detail design and construction

# Artesia POTW Pretreatment Standard

## Sequence of Events

<b>January 2011</b>	City of Artesia POTW issued draft pretreatment standards for Navajo review Standards based on ordinances at other New Mexico POTW's
<b>October 2011</b>	Navajo seeks consultant to develop treatment and discharge strategies including POTW
<b>July 2013</b>	POTW agrees to use CH2M Hill to set Navajo pretreatment standards per EPA guidelines and Technically Based Local Limits (TBLL) development procedure.
<b>August 2013</b>	POTW NPDES renewal includes provisions to develop pretreatment standards per Significant Industrial User (SIU) requirements (including TBLL development) <ul style="list-style-type: none"> <li>• Proposal and Schedule provided by CH2M Hill (funded by Navajo – 1 year schedule)</li> <li>• 8 months to develop limits for approval – target completion June 2014</li> <li>• 4 months for administrative closure – target completion October 2014</li> </ul>
<b>September - October 2013</b>	CH2M Hill review of NPDES permit, POTW site, and City wastewater collection system
<b>October 2013</b>	CH2M Hill performs influent scan for Pollutants of Concern (POC's)
<b>March – June 2014</b>	TBLL sampling event delayed due to POTW maintenance issues and need to startup standby treatment train Review of City Industrial Pretreatment Ordinance



# Artesia POTW Pretreatment Standard

## Sequence of Events - Continued

<b>July 2014</b>	<p>Startup of standby treatment train (both trains in service)</p> <p>Passage of Industrial Pre-treatment Ordinance by City of Artesia</p>
<b>July – August 2014</b>	POTW working through maintenance and optimization issues for operating both trains simultaneously
<b>September 2014</b>	<p>Additional TBLL sampling event delay due to heavy rain</p> <p>Meeting with POTW to discuss Navajo discharge increase</p> <ul style="list-style-type: none"> <li>• POTW agreeable with Navajo assistance on needed expansion to accommodate increased discharge over long term.</li> </ul>
<b>October 2014</b>	<p>Sampling event scheduled for week of October 27</p> <p>Limits calculations and preparation for approval complete 8 weeks after sampling event</p>
<b>January 2015</b>	<p>Limits identified to determine Navajo treatment requirements</p> <ul style="list-style-type: none"> <li>• TDS, Chloride, and Selenium positively identified during study work to date</li> <li>• Total Nitrogen and Cyanide potential limits of concern pending final TBLL work</li> </ul>

# Navajo Water Conservation Topics / Strategies

Lose water rights credits on loss of RO Reject land application - 52.6 million gallons per year

- Navajo actively pursuing additional water rights

Artesia City Water Emergency Conservation Ordinance – November 2014

Stormwater retention pond/tank and filtering equipment to enable re-use of water captured during heavy rain events.

Install capital upgrades at the WWTP to enable water treatment and recovery via waste water RO system.

- Upgrade the Dissolved Air Flootation (DAF) system for enhanced oil and metals removal.
- Install new Membrane Bio Reactors (MBR) to further reduce constituents that can foul RO equipment.
- Install Ultra-Filtration System to minimize constituents that can plug RO equipment.
- Install RO system to treat final Waste Water effluent and enable 60% re-use

Steam and condensate system capital upgrades to minimize condensate losses to wastewater.

Recycle POTW effluent as refinery makeup water

Installation of 4<sup>th</sup> well and permitting for hazardous use

# Waste Water and RO Reject Treatment Alternatives Evaluated

## Selenium Reduction

- Phillips 66 SeRT adsorption process (only process in refinery operation)
- MAR Systems adsorption process (pilot plants only)
- Siemens chemical conversion process (pilot plants only)
- Anoxic Reduction (used in power plants and mining industry)

## RO Reject and High TDS Stream Management

- Expand RO capacity to increase water recovery and reduce RO Reject volume
- Identify and collect additional high TDS streams for RO treatment
  - Reject discharge options
    - Injection wells
    - Evaporation Pond
    - Evaporator/Crystallizer (No known plants in refineries)



# Waste Water and RO Reject Treatment Alternatives Evaluated

Treatment requirements for potential future direct and/or POTW discharge

Cyanide Reduction (if needed)

- Install independent FCC sour water system and send stripped water to injection wells

Total Nitrogen Reduction (if needed) - Options

- Install anoxic step and revamp existing WWTP
- Seed POTW with BOD additive to enhance nitrogen removal
- Revamp POTW to increase nitrogen removal capability

Comparison of Navajo WWTP and POTW Revamp scope to meet effluent requirements

- Revamp of Navajo WWTP has advantage due to lower volume
  - Navajo - 0.6 MGD
  - POTW 2.1 MGD



September 3, 2015

Oil Conservation Division  
NM Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Certified Mail/Return Receipt

7014 3490 0000 6269 9022

**RE: WQA-OCD-CO-2015-002**  
**Application for Modification; Proof of Notice**  
**Discharge Permit GW-028**  
**Navajo Refining Company, L.L.C.**

Dear Sirs:

Navajo Refining Company (Navajo), Artesia Refinery, hereby submits the following and enclosed proof of notice of the application for a modification to Discharge Permit GW-028, in accordance 20.6.2.3108.B New Mexico Administrative Code (NMAC) and 20.6.2.3108.D NMAC:

- (1) Attachment 1: Affidavit of Postings with Exhibits "A" and "B" (20.6.2.3108.B(1) NMAC);
- (2) Attachment 2: Affidavit of Mailings and List of Property Owners with Exhibits "A" and "B" (20.6.2.3108.B(2) NMAC); and
- (3) Attachment 3: Publisher's Affidavit of Publication of a synopsis of the public notice in the *Artesia Daily Press*. (20.6.2.3108.B(4) NMAC)

If you have any questions or comments, please do not hesitate to contact me at 575-746-5487 or Robert A. Combs at 575-746-5382.

Sincerely,

Scott M. Denton  
Environmental Manager

Enclosures

cc. HFC: D. McWatters, R. O'Brien, M. Holder  
OCD: A. Marks, B. Brancard

**Navajo Refining Company, L.L.C.**  
501 East Main • Artesia, NM 88210  
(575) 748-3311 • <http://www.hollyfrontier.com>

## **Public Notice Information**

Navajo is providing the information below as required by 20.6.2.3108B NMAC regarding public notice of the permit modification request.

### **20.6.2.3108B(1) Location of Public Notice Display**

A synopsis of the public notice will be posted for 30 days in both English and Spanish and at least two feet by three feet in size in two locations: 1) on the Refinery fence near the northwest corner of the North RO reject field, and 2) outside of the main Refinery offices at 501 East Main, Artesia, NM 88210.

### **20.6.2.3108B(2) Nearby Property Owners**

Notice of the proposed modification will be mailed to property owners located within 1/3 mile of the Refinery boundary, or to the nearest adjacent landowner.

### **20.6.2.3108B(2) Discharge Site Owner Notification**

Navajo owns the discharge location property; therefore, this section is not applicable.

### **20.6.2.3108B(4) Newspaper Publication**

A synopsis of the public notice will be published once by Navajo in the *Artesia Daily Press* in both English and Spanish and in a display ad at least three inches by four inches in size and not in the classified or legal advertisements section.

### **20.6.2.3108D Proof of Public Notice**

Within 15 days of completion of public notice requirements, Navajo will submit to OCD an affidavit of mailings and property owners, an affidavit of posting, and proof of publication from the *Artesia Daily Press*.

## Attachment 1



STATE OF NEW MEXICO )  
COUNTY OF EDDY )

Groundwater Discharge Permit GW-028

**AFFIDAVIT OF POSTINGS**

In accordance with WQCC Rule 3108.B (20.6.2.3108.B NMAC) and WQCC Rule 3108.D. (20.6.2.3108.D NMAC), I hereby certify that a synopsis of the public notice of the application by Navajo Refining Company, L.L.C. for a modification of Groundwater Discharge Permit GW-028 was posted on July 30, 2015. The synopsis was posted in both English and Spanish on signage each at least two feet by three feet in size in two locations: 1) on the Artesia Refinery fence near the northwest corner of the North Reverse Osmosis reject fluids discharge field, facing W. Richey Avenue; and 2) outside the Artesia Refinery's main administrative offices at 501 East Main, Artesia, NM 88210. The language of the synopsis, as posted in English and Spanish, is provided in "Exhibit A," and photographs of the two postings are provided in "Exhibit B."

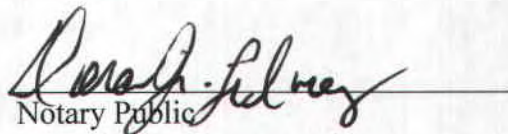
Date: SEPTEMBER 3, 2015



Scott M. Denton  
Environmental Manager  
The HollyFrontier Companies  
Navajo Refining Company  
P.O. Box 159  
Artesia, NM 88211-0159

Attachments

SUBSCRIBED AND SWORN to before me on this 3rd day of September 2015.

  
Notary Public

My Commission Expires:

9/30/15



## NOTICE OF PERMIT MODIFICATION REQUEST

On May 22, 2015, the Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico, Refinery (the Refinery), applied to the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD) for a modification of Groundwater Discharge Permit (GW-028). The modification includes the addition of a temporary reverse osmosis (RO) unit at the Refinery to treat water for utility use and an increase in the amount of RO reject water authorized for land application in the permitted discharge. As specified in 20.6.2.3108B New Mexico Administrative Code (NMAC), the Refinery is providing this notice of permit modification request to all persons on the facility mailing list. This notice includes the information required by 20.6.2.3108F NMAC.

The Refinery operates two permanent RO units to treat raw water for use as boiler feed water or cooling tower makeup water in the Refinery process. An additional RO unit has been installed to serve as a back-up unit for the existing permanent RO units in the event of a maintenance shutdown and to supplement the capacity of the two existing permanent RO units operating at the facility. Due to the increased processing capacity of the Refinery and the corresponding demand for boiler feed water and cooling tower makeup water, use of the temporary RO unit has increased over time.

The water treatment process produces reject fluids that are authorized in the Discharge Permit to be applied within the Refinery's property at a daily maximum of approximately 10,000 bbl/day. Navajo is requesting that the discharge limit in Discharge Permit GW-028 be increased to approximately 20,000 bbl/day (calculated on a 12-month rolling average basis) due to increased refining capacity and the need for a corresponding increase in boiler and cooling tower operations. Per Discharge Permit GW-028, land application of RO reject water is scheduled to terminate on or before October 21, 2016.

Ground water that may be affected by the discharge occurs at a depth of approximately 25 feet below ground surface with a total dissolved solids concentration of approximately 2,500 mg/L. The requested increased discharge volume is not expected to affect existing groundwater quality. Based on analysis of the RO reject fluids to date, chloride, fluoride, sulfate, and total dissolved solids are potential constituents of concern.

The Refinery is located at 501 East Main, Artesia, NM, 88210 in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County. The discharge, increased in volume, will continue to be applied to the surface of an open space within the Refinery boundaries, which is located on the northern part of the Refinery east of US-285 and south of East Richey Avenue. The northern discharge point is located 1255 feet south of East Richey Avenue and 1569 feet east of US-285. The southern discharge point is located 2532 feet south of East Richey Avenue and 2208 feet east of US-285.

Comments, questions, and requests for a copy of the application (either a paper copy or an electronic copy via the internet) should be sent to the following OCD contact:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
[carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us)

The OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons wishing to receive future notices.

## **AVISO DE SOLICITUD DE MODIFICACIÓN DEL PERMISO DIVISIÓN DE CONSERVACIÓN DE PETRÓLEO**

El día 22 de Mayo de 2015, la Refinería Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico (NM) (la Refinería), solicitó a la División de Conservación de Petróleo (Oil Conservation Division) (OCD) del Departamento the Energía, Minerales y Recursos Naturales de Nuevo México (New Mexico Energy, Minerals & Natural Resources Department) una modificación del Permiso de Descarga de Agua Subterránea (Formulario GW-028). La modificación abarca la adición una unidad de ósmosis inversa (OI) temporaria en la Refinería para tratar agua utilitaria, como así también un aumento en la cantidad autorizada de agua de rechazo de la OI a ser aplicada al campo como parte de las descarga permitida. Conforme al Código Administrativo de Nuevo México (NMAC) 20.6.2.3108 B, la Refinería publica el presente aviso de solicitud de modificación del permiso a todas las personas en la lista de contactos de la Refinería. Este aviso incluye la información requerida por NMAC Sección 20.6.2.3108F.

La Refinería opera dos unidades OI permanentes para tratar aguas no tratadas para uso en calderas o en torres de enfriamiento en el proceso de la Refinería. Una unidad OI adicional ha sido instalada para servir como unidad de respaldo para las unidades OI permanentes durante la desactivación para mantenimiento, y para suplementar la capacidad de las unidades OI permanentes que operan en la instalación. Debido al aumento de capacidad de procesamiento de la Refinería y la correspondiente demanda de agua tratada para calderas y torres de enfriamiento, el uso de la unidad OI temporaria ha incrementado.

El proceso de tratamiento de agua produce fluidos de rechazo autorizados en el Permiso de Descarga, los cuales serán depositados dentro de la propiedad de la Refinería en una cantidad diaria máxima de 10.000 barriles por día (bbl/día). Navajo solicita que el límite de descarga en el Permiso de Descarga GW-028 sea aumentado a 20.000 bbl/día (calculado a la media móvil de 12 meses) debido al aumento de la capacidad refinera y al correspondiente aumento operacional de calderas y torres de enfriamiento. Conforme al permiso de descarga GW-028, la aplicación del agua de rechazo al campo ha de finalizar el 21 de Octubre de 2016, o con anterioridad esa fecha.

El agua subterránea potencialmente afectada por la descarga se encuentra a una profundidad aproximada de 25 pies (7,6 metros) bajo la superficie de terreno, con una concentración total aproximada de sólidos disueltos (total dissolved solids) de 2.500 miligramos por litro (mg/L). No se anticipa que el aumento del volumen de descarga solicitado produzca ningún impacto negativo en la calidad existente del agua subterránea. Sobre la base del análisis de los fluidos de OI realizados hasta la fecha, componentes tales como cloruro, fluoruro, sulfato y cantidad total de sólidos disueltos merecen atención.

La Refinería está ubicada en 501 East Main, Artesia, NM, 88210 en SE/4 de la Sección 1, E/2 de la Sección 8, W/2 de la Sección 9, N/2 de la Sección 12, poblado 17 sur, Rango 26 este, NMPM, condado de Eddy. La descarga, de mayor volumen continuará siendo aplicada a una superficie abierta dentro de los límites de la propiedad de la Refinería, la cual está ubicada en la parte norte de la Refinería, al este de la carretera US-285, y sur de la Avenida East Richey. El punto norte de descarga está ubicado a 1255 pies al sur de la avenida East Richey y a 1569 pies al este de la autopista US-285. El punto sur de descarga está a 2532 pies al sur de la avenida East Richey y a 2208 pies al este de la autopista US-285.

Comentarios, preguntas, y petición de una copia de la presente solicitud (en papel o electrónica, vía in internet), pueden ser enviados al siguiente contacto de la OCD:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
[carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us)

La OCD aceptará comentarios y declaraciones de interés con respecto a esta solicitud y creará una lista de contactos específica para todas personas que deseen recibir avisos en el futuro.





**Exhibit B – Posting outside of the main Refinery  
offices at 501 East Main, Artesia, NM 88210**



**Exhibit B – Posting on the Refinery fence near the northwest corner of the north RO field**



## Attachment 2



STATE OF NEW MEXICO )  
COUNTY OF EDDY )

Groundwater Discharge Permit GW-028

**AFFIDAVIT OF MAILINGS AND PROPERTY OWNERS**

In accordance with WQCC Rule 3108.B (20.6.2.3108.B NMAC) and WQCC Rule 3108.D. (20.6.2.3108.D NMAC), I hereby certify that a copy of the attached notice ("Exhibit A") of the application by Navajo Refining Company, L.L.C. for a modification of Groundwater Discharge Permit GW-028 was deposited with the United States Postal Service on Friday, July 31, 2015. Each notice was mailed, postage pre-paid, to the mailing addresses of the owners of record ("Exhibit B") of all properties within a 1/3 mile distance from the property boundary of the Navajo Refining Company, L.L.C. Artesia Refinery, where the discharge site is located.

Date: SEPTEMBER 3, 2015



Scott M. Denton

Environmental Manager

The HollyFrontier Companies

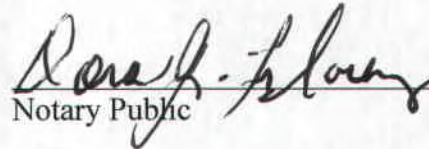
Navajo Refining Company

P.O. Box 159

Artesia, NM 88211-0159

Attachments

SUBSCRIBED AND SWORN to before me on this 3rd day of September 2015.

  
Notary Public

My Commission Expires:

9/30/2015

## **AVISO DE SOLICITUD DE MODIFICACIÓN DEL PERMISO DIVISIÓN DE CONSERVACIÓN DE PETRÓLEO**

El día 22 de Mayo de 2015, la Refinería Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico (NM) (la Refinería), solicitó a la División de Conservación de Petróleo (Oil Conservation Division) (OCD) del Departamento the Energía, Minerales y Recursos Naturales de Nuevo México (New Mexico Energy, Minerals & Natural Resources Department) una modificación del Permiso de Descarga de Agua Subterránea (Formulario GW-028). La modificación abarca la adición una unidad de ósmosis inversa (OI) temporaria en la Refinería para tratar agua utilitaria, como así también un aumento en la cantidad autorizada de agua de rechazo de la OI a ser aplicada al campo como parte de las descarga permitida. Conforme al Código Administrativo de Nuevo México (NMAC) 20.6.2.3108 B, la Refinería publica el presente aviso de solicitud de modificación del permiso a todas las personas en la lista de contactos de la Refinería. Este aviso incluye la información requerida por NMAC Sección 20.6.2.3108F.

La Refinería opera dos unidades OI permanentes para tratar aguas no tratadas para uso en calderas o en torres de enfriamiento en el proceso de la Refinería. Una unidad OI adicional ha sido instalada para servir como unidad de respaldo para las unidades OI permanentes durante la desactivación para mantenimiento, y para suplementar la capacidad de las unidades OI permanentes que operan en la instalación. Debido al aumento de capacidad de procesamiento de la Refinería y la correspondiente demanda de agua tratada para calderas y torres de enfriamiento, el uso de la unidad OI temporaria ha incrementado.

El proceso de tratamiento de agua produce fluidos de rechazo autorizados en el Permiso de Descarga, los cuales serán depositados dentro de la propiedad de la Refinería en una cantidad diaria máxima de 10.000 barriles por día (bbl/día). Navajo solicita que el límite de descarga en el Permiso de Descarga GW-028 sea aumentado a 20.000 bbl/día (calculado a la media móvil de 12 meses) debido al aumento de la capacidad refinera y al correspondiente aumento operacional de calderas y torres de enfriamiento. Conforme al permiso de descarga GW-028, la aplicación del agua de rechazo al campo ha de finalizar el 21 de Octubre de 2016, o con anterioridad esa fecha.

El agua subterránea potencialmente afectada por la descarga se encuentra a una profundidad aproximada de 25 pies (7,6 metros) bajo la superficie de terreno, con una concentración total aproximada de sólidos disueltos (total dissolved solids) de 2.500 miligramos por litro (mg/L). No se anticipa que el aumento del volumen de descarga solicitado produzca ningún impacto negativo en la calidad existente del agua subterránea. Sobre la base del análisis de los fluidos de OI realizados hasta la fecha, componentes tales como cloruro, fluoruro, sulfato y cantidad total de sólidos disueltos merecen atención.

La Refinería está ubicada en 501 East Main, Artesia, NM, 88210 en SE/4 de la Sección 1, E/2 de la Sección 8, W/2 de la Sección 9, N/2 de la Sección 12, poblado 17 sur, Rango 26 este, NMPM, condado de Eddy. La descarga, de mayor volumen continuará siendo aplicada a una superficie abierta dentro de los límites de la propiedad de la Refinería, la cual está ubicada en la parte norte de la Refinería, al este de la carretera US-285, y sur de la Avenida East Richey. El punto norte de descarga está ubicado a 1255 pies al sur de la avenida East Richey y a 1569 pies al este de la autopista US-285. El punto sur de descarga está a 2532 pies al sur de la avenida East Richey y a 2208 pies al este de la autopista US-285.

Comentarios, preguntas, y petición de una copia de la presente solicitud (en papel o electrónica, vía in internet), pueden ser enviados al siguiente contacto de la OCD:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
carlj.chavez@state.nm.us

La OCD aceptará comentarios y declaraciones de interés con respecto a esta solicitud y creará una lista de contactos específica para todas personas que deseen recibir avisos en el futuro.



## NOTICE OF PERMIT MODIFICATION REQUEST

On May 22, 2015, the Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico , Refinery (the Refinery), applied to the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD) for a modification of Groundwater Discharge Permit (GW-028). The modification includes the addition of a temporary reverse osmosis (RO) unit at the Refinery to treat water for utility use and an increase in the amount of RO reject water authorized for land application in the permitted discharge. As specified in 20.6.2.3108B New Mexico Administrative Code (NMAC), the Refinery is providing this notice of permit modification request to all persons on the facility mailing list. This notice includes the information required by 20.6.2.3108F NMAC.

The Refinery operates two permanent RO units to treat raw water for use as boiler feed water or cooling tower makeup water in the Refinery process. An additional RO unit has been installed to serve as a back-up unit for the existing permanent RO units in the event of a maintenance shutdown and to supplement the capacity of the two existing permanent RO units operating at the facility. Due to the increased processing capacity of the Refinery and the corresponding demand for boiler feed water and cooling tower makeup water, use of the temporary RO unit has increased over time.

The water treatment process produces reject fluids that are authorized in the Discharge Permit to be applied within the Refinery's property at a daily maximum of approximately 10,000 bbl/day. Navajo is requesting that the discharge limit in Discharge Permit GW-028 be increased to approximately 20,000 bbl/day (calculated on a 12-month rolling average basis) due to increased refining capacity and the need for a corresponding increase in boiler and cooling tower operations. Per Discharge Permit GW-028, land application of RO reject water is scheduled to terminate on or before October 21, 2016.

Ground water that may be affected by the discharge occurs at a depth of approximately 25 feet below ground surface with a total dissolved solids concentration of approximately 2,500 mg/L. The requested increased discharge volume is not expected to affect existing groundwater quality. Based on analysis of the RO reject fluids to date, chloride, fluoride, sulfate, and total dissolved solids are potential constituents of concern.

The Refinery is located at 501 East Main, Artesia, NM, 88210 in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County. The discharge, increased in volume, will continue to be applied to the surface of an open space within the Refinery boundaries, which is located on the northern part of the Refinery east of US-285 and south of East Richey Avenue. The northern discharge point is located 1255 feet south of East Richey Avenue and 1569 feet east of US-285. The southern discharge point is located 2532 feet south of East Richey Avenue and 2208 feet east of US-285.

Comments, questions, and requests for a copy of the application (either a paper copy or an electronic copy via the internet) should be sent to the following OCD contact:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
[carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us)

The OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons wishing to receive future notices.



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Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: FRANCISCO M OLIVAS  
C/O ERNESTINA RAMIREZ  
102 CAMPBELL AVE  
HEREFORD, TX 79045  
PS Form 3800, July 2014 See Reverse for Instructions

U.S. Postal Service  
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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: TONY & SYLVIA VASQUEZ  
806 N ROSELAWN AVE  
ARTESIA, NM 88210  
PS Form 3800, July 2014 See Reverse for Instructions

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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: MARY ANN VALENZUELA  
1208 N 4TH ST  
ARTESIA, NM 88210  
PS Form 3800, July 2014 See Reverse for Instructions

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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: ALEJANDRO H & ESPERANZA VASQUEZ  
1802 MAPLE  
ARTESIA, NM 88210  
PS Form 3800, July 2014 See Reverse for Instructions

U.S. Postal Service  
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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: MARIA F VASQUEZ  
ARTURO F & ANNETTE V VASQUEZ  
1103 MAHONE  
ARTESIA, NM 88210  
PS Form 3800, July 2014 See Reverse for Instructions

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: OLGA I VEGA  
710 N 4TH ST  
ARTESIA, NM 88210  
PS Form 3800, July 2014 See Reverse for Instructions

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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: VIDEO INDEPENDENT THEATRES, INC  
AKA CARMIKE CINEMAS INC  
PO BOX 391  
COLUMBUS, GA 31994  
PS Form 3800, July 2014 See Reverse for Instructions

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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: VICTORY LIFE FELLOWSHIP OF ARTESIA  
PO BOX 1087  
ARTESIA, NM 88211  
PS Form 3800, July 2014 See Reverse for Instructions

U.S. Postal Service  
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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: LUIS VELOZ  
296 EAST MORGAN  
HAGERMAN, NM 88232  
PS Form 3800, July 2014 See Reverse for Instructions

U.S. Postal Service  
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**OFFICIAL USE**  
Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage \$  
Sent To: MELISSA SOLARES  
1004 N 4TH  
ARTESIA, NM 88210  
PS Form 3800, July 2014 See Reverse for Instructions



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<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total Postage &amp; Fees JOE B BACA PO BOX 984 ARTESIA, NM 88211</div><div>Sent To Street, Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total BELEN C SAMORA &amp; KENT D CHANEY 1011 N ROSELAWN ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div><td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total RAFAEL &amp; MARIA RUIZ 1009 N ROSELAWN AVENUE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total BELEN C SAMORA &amp; KENT D CHANEY 1011 N ROSELAWN ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total RAFAEL &amp; MARIA RUIZ 1009 N ROSELAWN AVENUE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total RAFAEL &amp; MARIA RUIZ 1009 N ROSELAWN AVENUE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div>
<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO DANIEL RUIZ MARIA PATRICIA BALDERRAMA 910 N FOURTH STREET ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO LINDA RUBI ROMERO 1011 N 6TH ST ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div><td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO LEODEGARIO &amp; MARIA VASQUEZ 802 CARPER DR ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO LINDA RUBI ROMERO 1011 N 6TH ST ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO LEODEGARIO &amp; MARIA VASQUEZ 802 CARPER DR ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO LEODEGARIO &amp; MARIA VASQUEZ 802 CARPER DR ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div>
<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total Postage &amp; Fees BOB W ATOLE 1707 N OAK ST ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO MARIA L VEGA 408 CLEVELAND AVENUE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div><td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total NELLIE VELASQUEZ &amp; NANCY AGUILAR CYNTHIA MARTINEZ 7322 N VALDEZ ST HOBBS, NM 88242-9602</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO MARIA L VEGA 408 CLEVELAND AVENUE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total NELLIE VELASQUEZ &amp; NANCY AGUILAR CYNTHIA MARTINEZ 7322 N VALDEZ ST HOBBS, NM 88242-9602</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total NELLIE VELASQUEZ &amp; NANCY AGUILAR CYNTHIA MARTINEZ 7322 N VALDEZ ST HOBBS, NM 88242-9602</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div>
<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO JESUS R &amp; ALEXANDRA R VELO 1003 N ROSELAWN ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total DOMINGO &amp; FELICITAS ACOSTA C/O DANIEL BOONE 1111 CANNON PLACE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div><td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO PATRICIA &amp; SERGIO F GUTIERREZ 1309 E CASTLEBERRY RD ARTESIA, NM 88210-9725</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total DOMINGO &amp; FELICITAS ACOSTA C/O DANIEL BOONE 1111 CANNON PLACE ARTESIA, NM 88210</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div> <td><div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO PATRICIA &amp; SERGIO F GUTIERREZ 1309 E CASTLEBERRY RD ARTESIA, NM 88210-9725</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div></td>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div></div><div>Total PO PATRICIA &amp; SERGIO F GUTIERREZ 1309 E CASTLEBERRY RD ARTESIA, NM 88210-9725</div><div>Sent To Street &amp; Apt. No. or PO Box No. City, State, ZIP+4®</div><div>PS Form 3800, July 2014 See Reverse for Instructions</div></div>



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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: BAAR LLC  
410 E MAIN STREET  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

PS Form 3800, July 2014

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ARTESIA VETERINARY ASSOCIATES LLC  
110 W MAHONE  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: JOSE HERNANDEZ & MANUEL  
HERNANDEZ  
C/O MARGARET RUIZ  
PO BOX 11585  
FRESNO, CA 93774-1585

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
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Sent To: ARTESIA PUBLIC SCHOOLS DIST 16  
1106 W QUAY AVE  
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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Sent To: SANTANA M HOWARD  
412 W CLEVELAND AVE  
ARTESIA, NM 88210

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: MANUEL & DELMA MORENO  
901 W MAHONE DRIVE  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: SYLVIA M MORENO  
PO BOX 1662  
ARTESIA, NM 88211

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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Sent To: NORMA MORILLON  
1617 N OAK STREET  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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Sent To: ARMANDO MORILLON  
37 WINDY RIDGE RD  
ARTESIA, NM 88210

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Sent To: MIKE D & MONSE B MUNOZ  
1713 N FREEMAN  
ARTESIA, NM 88210

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Sent To: ARTESIA NM INVESTMENT CO  
1631 W BEVERLY BLVD SECOND FLOOR  
LOS ANGELES, CA 90026

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Total Postage & Fees	\$

Sent To: HORTENCIA & ISMAEL CARDOZA  
1610 N OAK  
ARTESIA, NM 88210

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Total Postage & Fees	\$

Sent To: CRUZ M & ERMA N NATIVIDAD  
104 CLEVELAND AVENUE  
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Sent To: MURDOCK MACHINE SHOP INC  
PO BOX 1438  
ARTESIA, NM 88211

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Sent To: AUSBERTO CARDONA  
113 CLEVELAND AVE  
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Sent To: G E BOONE PA-C LIMITED  
301 S ROSELAWN AVE  
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Sent To: EZEQUIEL R & CONCEPCION V CANO  
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Sent To: ERVEY R & BIANCA CANO  
710 N ROSELAWN AVENUE  
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Sent To: JACOBO CARBAJAL  
1206 N ROSELAWN AVE  
ARTESIA, NM 88210

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Sent To: TOMMY P & PETRA CADENA  
801 N FIFTH STREET  
ARTESIA, NM 88210

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Sent To: JOSE R & TOMASA N CABEZUELA  
1712 PINE STREET  
ARTESIA, NM 88210

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Sent To: CIRILDO V & ADELA A CABEZUELA  
1108 CANNON COURT  
ARTESIA, NM 88210

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Sent To: ARMANDO & MARIA CABEZUELA  
1602 OAK  
ARTESIA, NM 88210

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Total Postage & Fees	

Sent To: RACHEL C BUSTOS  
6050 VISTA CT  
LAS CRUCES, NM 88005

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Sent To: ESTHER S BUSTOS  
PO BOX 593  
ARTESIA, NM 88211

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Sent To: MARGARET BUSTAMANTE  
204 W GAGE AVE  
ARTESIA, NM 88210

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Sent To: ELSIE A BUSTAMANTE  
704 N ROSELAWN AVE  
ARTESIA, NM 88210

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Sent To: GENE G & YOLANDA BURGOS  
404 E QUAIL  
ARTESIA, NM 88210

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Sent To: ROBERT N & GAYLENE BURGESS  
SUSAN L KLEIN QSST TRUST  
PO BOX 435  
ARTESIA, NM 88211

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Sent To: JIMMY ANDY BRITO  
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Sent To: DANIEL L & CARMEN J BRITO  
1008 N 4TH ST  
ARTESIA, NM 88210  
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Sent To: BREWER OIL CO  
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SANTA FE, NM 87501  
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: DAVID & ANGELA BRATCHER  
PO BOX 94  
ARTESIA, NM 88211  
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Sent To: STEPHEN E & JANA S BORLAND  
PO BOX 371  
ARTESIA, NM 88211  
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: LUIS ALFREDO BORJA & ELIZABETH B VASQUEZ-BORJA  
510 E RICHEY AVENUE  
ARTESIA, NM 88210  
Street, Apt. No. 1, or PO Box No.  
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Restricted Delivery Fee (Endorsement Required)	
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Sent To: ROBERT E & LISA M BOANS  
R342 S HALDEMAN RURAL RD  
ARTESIA, NM 88210  
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Total Postage & Fees	

Sent To: BNSF RAILWAY COMPANY  
PO BOX 961089  
FORT WORTH, TX 76161  
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Sent To: BELL GAS INC  
PO BOX 490  
ROSWELL, NM 88202  
Street, Apt. No. 1, or PO Box No.  
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Sent To: PILAR & CHRISTINA BECERRA  
805 N 4TH ST  
ARTESIA, NM 88210  
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Sent To: ROSENDO P BERNAL  
804 N FIFTH  
ARTESIA, NM 88210  
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Sent To: RUBEN & SOCORRO BEAS  
707 N ROSELAWN AVE  
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JARROD & TABATHA MOREAU  
302 W MISSOURI  
ARTESIA, NM 88210  
Street, Apt. No. 1, or PO Box No.  
City, State, ZIP+4<sup>®</sup>

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Total Postage & Fees	

Sent To: LUPE B & JESUS BELTRAN  
306 W KEMP AVENUE  
ARTESIA, NM 88210  
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Total Postage & Fees	

Sent To: FRED F & DEBORAH T BEARD  
ALL PURPOSE ICE CO  
185 MEANS RD  
CARLSBAD, NM 88220  
Street, Apt. No. 1, or PO Box No.  
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Sent To: DOLLY D BASSETT  
PO BOX 3364  
MILAN, NM 87021  
Street, Apt. No. 1, or PO Box No.  
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Total Postage	

Sent To: ARTESIA LUMBER COMPANY  
PO BOX 5564  
MIDLAND, TX 79701

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Sent To: MARY JANE BARRON REVOCABLE TRUST  
#10 RIO BONITO CIRCLE  
ROSWELL, NM 88201

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Restricted Delivery Fee (Endorsement Required)	
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Sent To: BOBBY & HILDA BAEZA  
6396 SEVEN RIVERS HWY  
ARTESIA, NM 88210

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Sent To: ARTESIA ELKS LODGE NO 1717  
PO BOX 1271  
ARTESIA, NM 88211

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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Sent To: LUZ U & SOCORRO BARRERA  
306 LOGAN AVENUE  
ARTESIA, NM 88210

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Sent To: ARTESIA CREDIT UNION INC  
PO BOX 406  
ARTESIA, NM 88211

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Sent To: ARTESIA GENERAL HOSPITAL  
AUXILIARY THRIFT SHOP  
PO BOX 1007  
ARTESIA, NM 88211

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Sent To: ROBERTO & MIRIAM MORALES  
2410 W CENTRE AVE  
ARTESIA, NM 88210

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Sent To: ARTESIA ARTS COUNCIL INC  
PO BOX 782  
ARTESIA, NM 88211

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Sent To: CARL W BARTLETT  
PO BOX 1750  
ARTESIA, NM 88211

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Sent To: MANUEL L & RAMONA A BARRAGAN  
1103 W CHISUM AVE  
ARTESIA, NM 88210

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Sent To: ARTESIA ALFALFA GROWERS ASSOC  
PO BOX 930  
ARTESIA, NM 88211

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Sent To: CARL W BARTLETT  
C/O LUZ MILA LEYVA  
317 W MAIN  
ARTESIA, NM 88210

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Sent To: BRIAN BAILEY  
1114 S UNION AVE  
ROSWELL, NM 88202

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Sent To: ELIZABETH ARREDONDO  
1712 N OAK AVENUE  
ARTESIA, NM 88210

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Sent To: G G & SON ARMSTRONG  
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ROS WELL, NM 88202

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Sent To: STEVE A & CYNTHIA A ANDERSON  
1012 W CASTLEBERRY  
ARTESIA, NM 88210

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Sent To: RAYMOND H ANAYA  
115 CLEVELAND  
ARTESIA, NM 88210

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Sent To: AMY'S FIREWORKS INC  
PO BOX 2343  
ROS WELL, NM 88202

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Sent To: PAUL M & JUDY M ALVAREZ  
PO BOX 1171  
ARTESIA, NM 88211

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Sent To: JOE G ALVARADO  
211 W GAGE AVE  
ARTESIA, NM 88210

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Sent To: AIRGAS USA LLC  
PO BOX 1152  
TULSA, OK 74101

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Sent To: CELINA B & DOMINGO H AGUIRRE  
811 N ROSELAWN AVENUE  
ARTESIA, NM 88210

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Sent To: ROBERT M JR AGUILAR  
37 CHIMESO RD  
ARTESIA, NM 88210

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Sent To: AGAVE ENERGY CO  
PO BOX 158  
ARTESIA, NM 88211

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Restricted Delivery Fee (Endorsement Required)	
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Sent To: JESSE P & EMMA ACOSTA  
702 N FOURTH STREET  
ARTESIA, NM 88210

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Sent To: BEVERLY J STILL  
805 W MISSOURI  
ARTESIA, NM 88210

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Sent To: JESUS M SR & JESUS M JR ACOSTA  
804 N 4TH ST  
ARTESIA, NM 88210

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Sent To: ABO PETROLEUM  
PO BOX 900  
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Sent To: MICHAEL E & BETH A SPENCER  
303 W GRAND AVE  
ARTESIA, NM 88210

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

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Total Post \$

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ATTN: PROPERTY TAX DEPT  
PO BOX 1979  
DENVER, CO 80201

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☐ Return Receipt (electronic) \$  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
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CORP  
1915 SAN JOSE BLVD  
CARLSBAD, NM 88220

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Sent To  
OSCAR & MARY HELEN SOSA  
612 N 14TH ST  
ARTESIA, NM 88210

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Postage \$  
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Sent To  
SHARON SNOWDEN  
117 W GRAND  
ARTESIA, NM 88210

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
SJS COMPANY  
C/O CHARLENE WARD  
101 S 2ND ST  
ARTESIA, NM 88210

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☐ Return Receipt (electronic) \$  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
MARIA B SIFUENTES  
4721 RIVERS EDGE LANE  
SANTA FE, NM 87507

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
AMELIA R SMITH  
303 W MCARTHUR AVE  
ARTESIA, NM 88210

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
BUDDY L & BRENDA J SIMMONS  
420 QUAIL  
ARTESIA, NM 88210

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
BULMARO RAMIREZ SIFUENTES  
ROSEMARY LOPEZ DURAN  
203 W KEMP AVE  
ARTESIA, NM 88210

PS Form 3849, July 2015

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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
MIGUEL SEPULVEDA  
LORENA SEPULVEDA-HERNANDEZ  
811 N 5TH ST  
ARTESIA, NM 88210

PS Form 3849, July 2015

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
SELLCROW HOLDINGS LLC  
1022 CAMINO DEL LLANO  
ARTESIA, NM 88210

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
SERGIO A & ORALIA SEGURA  
C/O ROSA SEGURA  
902 CLEVELAND AVE  
ARTESIA, NM 88210

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
RUBEN & ROSA SEGURA  
902 W CLEVELAND  
ARTESIA, NM 88210

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
SCHLUMBERGER TECHNOLOGY CORP  
C/O DUFF & PHELPS #809  
PO BOX 2629  
ADDISON, TX 75001

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Post \$

Sent To  
DAVID L & DEBI M SANT  
PO BOX 306  
HAGERMAN, NM 88232

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SOUTHWESTERN PUBLIC SERVICE CO  
ATTN: PROPERTY TAX DEPT  
PO BOX 1979  
DENVER, CO 80201

PS Form

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SOUTHEAST NM COMMUNITY ACTION  
CORP  
1915 SAN JOSE BLVD  
CARLSBAD, NM 88220

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

OSCAR & MARY HELEN SOSA  
612 N 14TH ST  
ARTESIA, NM 88210

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SHARON SNOWDEN  
117 W GRAND  
ARTESIA, NM 88210

PS Form

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SJS COMPANY  
C/O CHARLENE WARD  
101 S 2ND ST  
ARTESIA, NM 88210

PS Form

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

MARIA B SIFUENTES  
4721 RIVERS EDGE LANE  
SANTA FE, NM 87507

PS Form

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☐ Return Receipt (hardcopy)  
☐ Return Receipt (electronic)  
☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

AMELIA R SMITH  
303 W MCARTHUR AVE  
ARTESIA, NM 88210

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☐ Return Receipt (electronic)  
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☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

BUDDY L & BRENDA J SIMMONS  
420 QUAIL  
ARTESIA, NM 88210

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☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

BULMARO RAMIREZ SIFUENTES  
ROSEMARY LOPEZ DURAN  
203 W KEMP AVE  
ARTESIA, NM 88210

PS Form

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☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

MIGUEL SEPULVEDA  
LORENA SEPULVEDA-HERNANDEZ  
811 N 5TH ST  
ARTESIA, NM 88210

PS Form

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☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SELLCROW HOLDINGS LLC  
1012 CAMINO DEL LLANO  
ARTESIA, NM 88210

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☐ Return Receipt (hardcopy)  
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☐ Certified Mail Restricted Delivery  
☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SERGIO A & ORALIA SEGURA  
C/O ROSA SEGURA  
902 CLEVELAND AVE  
ARTESIA, NM 88210

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☐ Return Receipt (electronic)  
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☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

RUBEN & ROSA SEGURA  
902 W CLEVELAND  
ARTESIA, NM 88210

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☐ Adult Signature Required  
☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

SCHLUMBERGER TECHNOLOGY CORP  
C/O DUFF & PHELPS #809  
PO BOX 2629  
ADDISON, TX 75001

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☐ Adult Signature Restricted Delivery

Postage  
Total Post  
Sent To  
Street and  
City, State

DAVID L & DEBI M SANT  
PO BOX 306  
HAGERMAN, NM 88232

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
NORA SANCHEZ  
304 CLEVELAND AVE  
ARTESIA, NM 88210

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City, State, ZIP+4®  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
MARGARITA L SANCHEZ  
1112 N 10TH  
ARTESIA, NM 88210

City, State, ZIP+4®  
City, State, ZIP+4®  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
JOSEFINA A SANCHEZ  
PO BOX 1157  
ARTESIA, NM 88211

City, State, ZIP+4®  
City, State, ZIP+4®  
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☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
BENJAMIN M SANCHEZ  
RAYMUNDO SANCHEZ  
PO BOX 1157  
ARTESIA, NM 88211

City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
OSCAR M & ROSA P SANCHEZ  
316 JJ CLARK  
ARTESIA, NM 88210

City, State, ZIP+4®  
City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
JOHN ALBERT SAMORA  
PO BOX 1081  
ARTESIA, NM 88211

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City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
DEANNIE A SAMORA  
1504 BUSH  
ARTESIA, NM 88210

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City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
BEATRICE A & KENNETH J SAMORA  
1504 W BUSH AVE  
ARTESIA, NM 88210

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City, State, ZIP+4®  
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☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
DEBRA SUE SALLEE  
202 E GRAND  
ARTESIA, NM 88210

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City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
REFUGIA SALDANA  
1901 N FREEMAN AVE  
ARTESIA, NM 88210

City, State, ZIP+4®  
City, State, ZIP+4®  
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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
JAMES D & SANDY VILLA  
310 JJ CLARKE DR  
ARTESIA, NM 88210

City, State, ZIP+4®  
City, State, ZIP+4®  
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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
VISION OUTREACH INC  
PO BOX 1087  
ARTESIA, NM 88211

City, State, ZIP+4®  
City, State, ZIP+4®  
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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
FRANK G & JAMES D & SANDRA VILLA  
312 JJ CLARKE DR  
ARTESIA, NM 88210

City, State, ZIP+4®  
City, State, ZIP+4®  
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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
JOE VILLA  
C/O MARY HERNANDEZ  
1705 BOOKER AVE  
ARTESIA, NM 88210

City, State, ZIP+4®  
City, State, ZIP+4®  
PS Form 3800, June 2015

U.S. Postal Service  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
VISIONARY BUILDERS INC  
PO BOX 1836  
RUIDOSO, NM 88355

City, State, ZIP+4®  
City, State, ZIP+4®  
PS Form 3800, June 2015



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**CERTIFIED MAIL RECEIPT**  
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Postage \$  
Certified Fee \$  
Return Receipt Fee (if requested) \$  
Additional Delivery Fee (if requested) \$  
Additional Postage (if requested) \$

Postmark Here

Sent to: VERONICA LOPEZ  
DELMA MORENO  
277 W BLEVINS  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88210

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)

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Postage \$  
Certified Fee \$  
Return Receipt Fee (if requested) \$  
Additional Delivery Fee (if requested) \$  
Additional Postage (if requested) \$

Postmark Here

Sent to: JOHNNY I LOPEZ  
713 N ROSELAWN AVE  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88210

U.S. Postal Service  
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Sent to: JOHNNY A LOPEZ  
211 W KEMP AVE  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88210

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Sent to: MARTIN O LOPEZ  
5805 SEVEN RIVERS HWY  
ARTESIA, NM 88210

Sent on: 05/11/2015  
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Zip: 88210

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Sent to: GREGORIO G & ANATALIA O LOPEZ  
1609 N OAK ST  
ARTESIA, NM 88210

Sent on: 05/11/2015  
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State: NM  
Zip: 88210

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204 W LOGAN  
ARTESIA, NM 88210

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484 W BLEVINS RD  
ARTESIA, NM 88210

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Sent to: ABEL L NUNEZ  
LORETTA NUNEZ  
PO BOX 946  
ARTESIA, NM 88211

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88211

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Sent to: CHRISTINE V NUNEZ  
PO BOX 946  
ARTESIA, NM 88211

Sent on: 05/11/2015  
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State: NM  
Zip: 88211

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Sent to: MANUEL & CARMEN O LOPEZ  
404 JJ CLARKE AVE  
ARTESIA, NM 88210

Sent on: 05/11/2015  
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State: NM  
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Sent to: JIMMY M & DELIA M OLGUIN  
402 CASTLEBERRY RD  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
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Sent to: CELIA M OLIVAS  
1614 OAK STREET  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88210

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Sent to: JUSTIN M LOPEZ  
307 N 4TH STREET  
ARTESIA, NM 88210

Sent on: 05/11/2015  
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Zip: 88210

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Sent to: ANATALIA R OLIVAS  
JULIANA JUAREZ  
1609 N OAK  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88210

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Sent to: JUAN DANIEL OLIVAS  
304 W KEMP AVE  
ARTESIA, NM 88210

Sent on: 05/11/2015  
City: Artesia  
State: NM  
Zip: 88210



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<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To WASHINGTON PROPERTIES LLC PO BOX 247 ARTESIA, NM 88211</div><div>PS Form 3800, July 2014</div></div>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To WESTERN BANK PO DRAWER 500 ARTESIA, NM 88211</div><div>PS Form 3800, July 2014</div></div>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To ROBERT E &amp; SUZANNE H WHEATON 4716 E VALLEY VISTA LANE PARADISE VALLEY, AZ 85253</div><div>PS Form 3800, July 2014</div></div>
<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To WILBANKS COMMERCIAL HOLDINGS LLC PO BOX 185 MAYHILL, NM 88339</div><div>PS Form 3800, July 2014</div></div>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To RONALD L &amp; KATHY L WILBANKS JEFFERY L &amp; SUSAN E WALKER 1001 N 6TH ST ARTESIA, NM 88210</div><div>PS Form 3800, July 2014</div></div>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To RICHARD C &amp; BRENDA J WILES 401 W TEXAS ARTESIA, NM 88210</div><div>PS Form 3800, July 2014</div></div>
<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To RANDY D &amp; MARY K WILSON KWIK CAR WASH 110 COMANCHE DR CARLSBAD, NM 88220</div><div>PS Form 3800, July 2014</div></div>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To DEE WITHERSPOON 106 S 7TH ST ARTESIA, NM 88210</div><div>PS Form 3800, July 2014</div></div>	<div><div>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only</div><div>For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>.</div><div>OFFICIAL USE</div><div><div>Postage \$</div><div>Certified Fee</div><div>Return Receipt Fee (Endorsement Required)</div><div>Restricted Delivery Fee (Endorsement Required)</div><div>Total Postage</div></div><div>Sent To JOSEPHINE WOOTEN C/O DARLENE LANGSTON 718 MISSION LANE LANCASTER, TX 75146</div><div>PS Form 3800, July 2014</div></div>
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ARTURO MENDOZA  
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ARTESIA, NM 88211

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Sent To: JANICE J MENDOZA  
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ARTESIA, NM 88210

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Sent To: ELDON W & MICKIE A MCFATRIDGE  
1914 W RAY AVE  
ARTESIA, NM 88210

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ONE MCDONALDS PLAZA  
OAK BROOK, IL 60523

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Sent To: WANDA F MAUPIN  
TERRY MAUPIN  
1211 W MAIN ST  
ARTESIA, NM 88210

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Sent To: JIMMY GLENN & BARBARA J MASON  
BENNIE'S WESTERN WEAR  
205 W MAIN  
ARTESIA, NM 88210

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Sent To: SANDRA MASCORRO  
1815 N FREEMAN AVE  
ARTESIA, NM 88210

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Sent To: JESUS M & MARIA MASCORRO  
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ARTESIA, NM 88210

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Sent To: JAVIER & MARIA MARTINEZ  
110 CLEVELAND AVE  
ARTESIA, NM 88210

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Sent To: REBECA MARTINEZ  
ISELA SEDILLO  
806 N 5TH STREET  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	

Sent To: DAVID MARTINEZ  
BETHY CONTRERAS  
301 W RICHEY AVENUE  
ARTESIA, NM 88210

Street, Apt. No. or PO Box No.  
City, State, ZIP+4<sup>®</sup>

PS Form 3800, August 2004



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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	

Sent To: CARLOS & MAYRA MARTINEZ  
708 N 16TH STREET  
ARTESIA, NM 88210

Street, Apt. No. or PO Box No.  
City, State, ZIP+4<sup>®</sup>

PS Form 3800, August 2004





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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: IRVIN R & KAREN A MARTIN  
PO BOX 133  
ARTESIA, NM 88211  
City, State, Zi

PS Form 3800, September 2009

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: MARTHA MARISCAL  
ELIA LEYBA  
#20 CARDINAL ROAD  
ARTESIA, NM 88210  
City, State, Zi

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: OSCAR M & OSCAR D JR MALDONADO  
ELIDA M MARTINEZ  
202 W LOGAN AVENUE  
ARTESIA, NM 88210  
City, State, Zi

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: SAMUEL H MADRID  
801 N 4TH ST  
ARTESIA, NM 88210  
City, State, Zi

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JUAN & LUZ ELENA LUCERO  
2011 N FREEMAN  
ARTESIA, NM 88210  
City, State, Zi

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: PAULETTE MONTGOMERY & S RAGLIN  
C/O NORA RAGLIN  
8471 DANBURY CIR  
HUNTINGTON BEACH, CA 92646  
City, State, Zi

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: SAM MADRID  
C/O AUTURO SALINAS  
912 N 10TH  
ARTESIA, NM 88210  
City, State, Zi

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: MORTON FAMILY TRUST  
1904 VILLA DR  
ARTESIA, NM 88210  
City, State, Zi

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: FRED & ARIZONA MILES  
604 N 6TH STREET  
ARTESIA, NM 88210  
City, State, Zi

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: MIGUEL O JR & VANESSA G MADRID  
810 N SIXTH STREET  
ARTESIA, NM 88210  
City, State, Zi

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: LOIS H MITCHELL REVOCABLE TRUST  
LOIS H MITCHELL TRUSTEE  
49 VAN BRUNT MANOR ROAD  
EAST SETAUKET, NY 11733  
City, State, Zi

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JOSE LUIS MONTES  
201 CLEVELAND  
ARTESIA, NM 88210  
City, State, Zi

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: VICTOR & SANTA ESTELA LUCERO  
2011 N FREEMAN AVE  
ARTESIA, NM 88210  
City, State, Zi

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JAIME G MOLINAR  
707 N 4TH  
ARTESIA, NM 88210  
City, State, Zi

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: SILBRESTRE JIMENEZ MONTES  
CARMEN VALLES DE MONTES  
106 CLEVELAND AVENUE  
ARTESIA, NM 88210  
City, State, Zi

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☐ Return Receipt (electronic) \$  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
MYCO INDUSTRIES, INC  
PO BOX 840  
ARTESIA, NM 88211  
City, State, ZIP+4  
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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
NAN DAD INC  
PO BOX 233  
ARTESIA, NM 88211  
City, State, ZIP+4  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
SABAS & HECTOR NATIVIDAD  
VERONICA MARTINEZ  
207 KEMP AVENUE  
ARTESIA, NM 88210  
City, State, ZIP+4  
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Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$

Total Postage \$

Sent To  
MULCOCK PROPERTIES LLC  
5299 RIO PENASCO  
MAYHILL, NM 88339  
City, State, ZIP+4  
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Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$

Total Postage \$

Sent To  
MARIA MUNOZ  
1703 N FREEMAN AVE  
ARTESIA, NM 88210  
City, State, ZIP+4  
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Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$

Total Postage \$

Sent To  
AMANDÉ ROSE MUNOZ  
604 E RICHEY  
ARTESIA, NM 88210  
City, State, ZIP+4  
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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$

Total Postage \$

Sent To  
GREGORIA MUNOZ  
1811 OAK STREET  
ARTESIA, NM 88210  
City, State, ZIP+4  
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Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$

Total Postage \$

Sent To  
OFELIA J MUNOZ  
ELVA J PONCE  
105 W GAGE  
ARTESIA, NM 88210  
City, State, ZIP+4  
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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
ERNESTO J NAVARRETTE  
LARAMIE & ROSEMARIE ROLLINS  
312 W CLEVELAND  
ARTESIA, NM 88210  
City, State, ZIP+4  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
JOSE & SOCORRO NAVARRETTE  
12241 DECK BLVD  
GEISMAR, LA 70734  
City, State, ZIP+4  
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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
ROSA NAVARRETTE  
402 CLEVELAND  
ARTESIA, NM 88210  
City, State, ZIP+4  
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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
VICTORIA NAVARRETTE  
ANNA DOMINGUEZ  
8 STUART DRIVE  
LOS LUNES, NM 87031  
City, State, ZIP+4  
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Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
ARMANDO F & ANDREA P NAYARES  
1808 OAK  
ARTESIA, NM 88210  
City, State, ZIP+4  
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Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
NEW MEXICO CONSOLIDATED  
INVESTMENT  
PO DRAWER 500  
ARTESIA, NM 88211  
City, State, ZIP+4  
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Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To  
WAYLAND NEWBERRY  
252 N HALDERMAN RD  
ARTESIA, NM 88210  
City, State, ZIP+4  
PS Form 3800



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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To RALPH NIX PROPERTIES LLC  
611 W MAIN  
Street and Apt. ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5444

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To RANCHERO NO DINERO LLC  
PO BOX 1176  
Street ARTESIA, NM 88211  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5444

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Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To ODELIA C & JAPHETH RASCON  
1106 N ROSELAWN  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5451

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To AUBREY & JODIE RAWLS  
RANDY & ROBIN RAWLS  
312 W RICHEY  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5458

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To STEVEN L & PATRICIA M RAWSON  
1002 S ROSELAWN AVE  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5475

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To ED RAZO/ BANKERS INSURANCE CO  
1309 NORMANDY  
Street CARLSBAD, NM 88220  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5482

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To RED SHAMROCK 8 LLC  
8220 SAN PEDRO NE STE 500  
Street ALBUQUERQUE, NM 87113  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5491

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To DANIEL D & JOSEPHINE C REYES  
408 W MAIN STREET  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5505

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To RUBEN E & LISA G RICCI  
410 W CHISUM  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5512

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To ANTHONY RICKER  
812 N FOURTH STREET  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5734

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To ADELAIDA RODRIGUEZ  
210 W KEMP AVE  
Street ARTESIA, NM 88211  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5758

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To EBER & GRISELDA RODRIGUEZ  
PABLO P MUNIO & MARIA T MOLINA  
11 W GAGE AVE  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5772

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To ELIN M RICHIE  
410 SOUTH 2ND ST  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5741

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To BASCULO RODRIGUEZ  
1101 CANNON CTS  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5753

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Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

Sent To EMILY RODRIGUEZ  
1706 N OAK STREET  
Street ARTESIA, NM 88210  
City, State, Zip  
PS Form 380

7015 0640 0006 9944 5789



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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
LIONEL R & AMELIA F RODRIGUEZ  
201 E RICHEY AVE  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
MARISELA RUIZ RODRIGUEZ  
MIGUEL A RUIZ  
810 S 2ND ST  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
REYDESEL FLORES  
206 E GRAND AVE  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
RAMIRO FLORES  
809 N ROSELAWN  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
FIRST NATIONAL BANK OF ARTESIA  
PO DRAWER AA  
ARTESIA, NM 88211

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
JOHNNY W & TERRI J FOWLER  
PO BOX 1223  
ARTESIA, NM 88211

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Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
FIRST BAPTIST CHURCH  
322 W GRAND AVE  
ARTESIA, NM 88210

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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
FIRST AMERICAN BANK  
PO BOX AA  
ARTESIA, NM 88211

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
MANUEL C & MARTA FIERRO  
BETTY BAKER & MARY VARGAS  
606 N SIXTH STREET  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
HAROLD W EVANS  
907 N FIFTEENTH ST  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
VIRGINIA ESTRADA  
ESTELA E HERNANDEZ  
PO BOX 443  
ARTESIA, NM 88211

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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
JAMES R ERBES  
CALIXTO & GREGORIA HERRERA-  
GARCIA  
281 E KINCAID RANCH RD  
ARTESIA, NM 88210

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**OFFICIAL USE**

Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
JOE ELLIS  
C/O WILLIAM OR TAMMY DORNAN  
1814 OAK ST  
ARTESIA, NM 88210

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
ELEVEN FORTY ONE LLC  
PO BOX 1141  
ARTESIA, NM 88211

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Postage \$  
Certified Fee \$  
Return Receipt Fee (Endorsement Required) \$  
Restricted Delivery Fee (Endorsement Required) \$  
Total Postage & Fees \$

Sent To  
DOWELL DIVISION OF DOW CHEMICAL  
CO  
C/O DUFF & PHELPS #809  
PO BOX 2629  
ADDISON, TX 75001

PS Form 3849, July 2015



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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5222

LOIS M OLIVER  
THERESA BAIZE  
210 S ROSELAWN AVENUE  
ARTESIA, NM 88210

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Certified Mail Fee

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☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5222

JOE L ORNELAS  
LOS PADRINOS LOUNGE  
802 JJ CLARKE AVENUE  
ARTESIA, NM 88210

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5239

KERRY ORNELAS  
503 N 5TH ST  
ARTESIA, NM 88210

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5246

CERILDO H ONTIVEROS  
EMMA CARRILLO  
203 CLEVELAND AVE  
ARTESIA, NM 88210

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5246

HERMENEGILDO H ORQUIZ JR  
VICTORIA MARISCAL  
206 CLEVELAND AVENUE  
ARTESIA, NM 88210

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☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5253

MARIA, FLORA & ALICIA ORTEGA  
803 N FIFTH STREET  
ARTESIA, NM 88210

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☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5260

JOSE L & MARTHA C ORTIZ  
310 W CLEVELAND AVENUE  
ARTESIA, NM 88210

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5260

JOHNNY & SHERRY PATMAN  
1704 N ROSELAWN AVE  
ARTESIA, NM 88210

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Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5321

PECOS VALLEY BROADCASTING  
COMPANY  
KSPV & KTZA  
317 W QUAY AVE  
ARTESIA, NM 88210

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5277

RAUL & MARIA LUISA ORTIZ  
PO BOX 895  
ARTESIA, NM 88211

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5307

ERNESTINA J PAZ  
LUZ URIAS & MELISSA BEJARANO  
2005 BULLOCK  
ARTESIA, NM 88210

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Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5338

PECOS VALLEY PUMP INC  
PO BOX 94  
ARTESIA, NM 88211

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Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5284

OUR LADY OF GRACE CATHOLIC  
CHURCH  
1111 N ROSELAWN  
ARTESIA, NM 88210

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Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5314

ERNESTINA P PAZ  
VICTORIA ANN B CURTIS  
200 GAVILAN CANYON RD SPC 26  
RUIDOSO, NM 88345

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Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$3.50

☐ Return Receipt (electronic) \$2.80

☐ Certified Mail Restricted Delivery \$5.00

☐ Adult Signature Required \$3.00

☐ Adult Signature Restricted Delivery \$5.00

Postage

Total Postage \$0.00

Postmark Here

7015 0640 0006 9944 5345

SUE C PEMBERTON  
PO BOX 914  
ARTESIA, NM 88211



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**OFFICIAL USE**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: WILLIAM & TAMMY DORNAN  
1816 OAK STREET  
ARTESIA, NM 88210

PS Form 3800, July 3, 2015

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CHRISTINA DORNAN  
702 N FIFTH STREET  
ARTESIA, NM 88210

PS Form 3800, July 3, 2015

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: MELBA DONAVAN TRUST  
C/O HALL AUTO PARTS  
PO BOX 155387  
WACO, TX 76705

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**OFFICIAL USE**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CASPER DOMINGUEZ  
TIBURCIO GARCIA SAENZ  
#13 HARTFORD AVE  
DES MOINES, IA 50315

PS Form 3800, July 3, 2015

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: DOC PROPERTIES LLC  
813 N WASHINGTON AVE  
ROSWELL, NM 88201

PS Form 3800, July 3, 2015

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: LEOPOLDO N & LORINA C DELGADO  
802 N 6TH ST  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: RICHARD H II & APRIL D DAVIS  
1305 W LUCKY ST  
CARLSBAD, NM 88220

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: JOHNNIE JR & MARY ANN BATIE  
PO BOX 875  
ARTESIA, NM 88211

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: OWANDA F DAVIS  
2716 N PENNSYLVANIA AVE APT #51  
ROSWELL, NM 88201

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: SHARON DAVENPORT  
JOHN AUSTIN  
503 HANK AVENUE  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: EARL LEON DARST  
2519 GRAND BLVD  
PORT NECHES, TX 77651

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CYBERDYNE PROPERTIES LLC  
212 W MAIN ST  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: RALPH RANDALL CULVER  
PLAINS WELDING SUPPLY  
522 S MAIN  
CARLSBAD, NM 88220

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CUATRO PARTNERS, LLC  
414 S CANAL  
CARLSBAD, NM 88220

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ROBERT G & OLGA P CORTEZ  
2010 MAPLE STREET  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JOSEPHINE CORTEZ  
DOMINGO PEREZ  
2010 MAPLE ST  
ARTESIA, NM 88210

Postmark: JUL 3 2015  
USPS 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: AGUSTIN SR CORONA  
RACHEL BUSTOS  
410 JJ CLARKE  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: IDA GRACE CORDOVA  
AURELIO & AMAVILIA GONZALES  
208 KEMP  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JESUS & ESTHER COLLAZO  
2555 OGDEN STREET  
SAN BERNADINO, CA 92407

Postmark: JUL 3 2015  
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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: TIMOTHY W & RETHA K COCHRAN  
PO BOX 266  
ARTESIA, NM 88211

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: JOHN C & MARIA G CLOSE  
801 N 6TH STREET  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: CITY OF ARTESIA  
511 W TEXAS AVE  
ARTESIA, NM 88210

Postmark: JUL 3 2015  
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: CHARLOTTE & LISS TERRI CHILSON  
3475 MCCORMICK BLVD APT 125  
BULLHEAD CITY, AZ 86429

Postmark: JUL 3 2015  
USPS 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: RYAN & NANA CHENG  
2913 SUDDERTH DRIVE  
RUIDOSO, NM 88345

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: ROGELIO CHAVIRA  
3109 W MISSOURI  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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Sent To: DOLORES CHAVEZ  
PO BOX 1707  
ARTESIA, NM 88211

Postmark: JUL 3 2015  
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: RAUL V CHAVARRIA  
PO BOX 1507  
ARTESIA, NM 88211

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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Sent To: ROSA S CHAVEZ  
PO BOX 886  
ARTESIA, NM 88211

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: ROLANDO P SR CHAVARRIA  
421 E QUAIL STREET  
ARTESIA, NM 88210

Postmark: JUL 3 2015  
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	

Sent To: RICHARD CHASE & KARLA CHASE  
PO BOX 359  
ARTESIA, NM 88211

Postmark: JUL 3 2015  
USPS 88210



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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ADOLFO & LINDA LEYBA  
107 W CLEVELAND AVE  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

PS Form 3849, June 2009

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: WILLIAM E & RUBY N LEAMON  
205 W GRAND AVE  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

PS Form 3849, June 2009

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: EDDIE C & BECKY L LARUE  
307 S BOLTON ROAD  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

PS Form 3849, June 2009

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: C E & WANDA LARUE  
TIMMY K & THERESA L BAIZE  
210 S ROSELAWN  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: RICHARD B LARA  
JOSE R & MANUELA RAMOS  
22 ROULETTE RD  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

PS Form 3849, June 2009

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: JOSE T LARA  
11516 APPIAN WAY  
ALBUQUERQUE, NM 87111

Postmark: ARTESIA, NM JUL 30 2015  
USPS 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ISHMAEL & ELVA LARA  
2605 N WINCHESTER  
ARLINGTON, VA 22213

Postmark: ARTESIA, NM JUL 30 2015  
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Total Postage & Fees	\$

Sent To: DIANA L LARA  
808 N SIXTH ST  
ARTESIA, NM 88210

Postmark: ARTESIA, NM JUL 30 2015  
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Total Postage & Fees	\$

Sent To: CRUZ L & DIANE R LARA  
801 N ROSELAWN  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CHRISTOPHER C & ERIKA LARA  
113 GAGE AVENUE  
ARTESIA, NM 88210

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Return Receipt Fee (Endorsement Required)	
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Total Postage & Fees	\$

Sent To: ROGUE N LAGUANAS  
305 W KEMP AVENUE  
ARTESIA, NM 88210

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Sent To: C E & WANDA LA RUE  
PO BOX 206  
ARTESIA, NM 88211

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Total Postage & Fees	\$

Sent To: L T L COMPANY  
BRYAN'S OFFICE SUPPLY  
PO BOX 1810  
ARTESIA, NM 88211

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Total Postage & Fees	\$

Sent To: NORMA SUE KIZER  
DEAN & CHERYL STOVALL  
PO BOX 1556  
ARTESIA, NM 88211

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Total Postage & Fees	\$

Sent To: HUGH DONALD & CAROLYN A KIDDY  
7366 S PLATTE CANYON DRIVE  
LITTLETON, CO 80128

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Sent To  
DANIEL K & VICTORIA A KIDD  
2216 W GRAND AVE  
ARTESIA, NM 88210

Street & PO Box  
City, State

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Sent To  
VELMA L KARR  
212 N ROSELAWN  
ARTESIA, NM 88210

Street & PO Box  
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Sent To  
RICHARD J & KIMBERLY J KAFTON  
PO BOX 1586  
ARTESIA, NM 88211

Street & PO Box  
City, State

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Sent To  
CHRISTINA Y JUAREZ  
805 N FIFTH STREET  
ARTESIA, NM 88210

Street & PO Box  
City, State

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Sent To  
HEP PIPELINE LLC  
C/O INDUSTRIAL VALUATION SERVICES  
PO BOX 92108  
AUSTIN, TX 78709

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City, State

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Sent To  
HERMOSA LLC  
101 S 4TH ST STE B  
ARTESIA, NM 88210

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Sent To  
SAMUEL DOMINGUEZ HERMOSILLO  
TIBURCIO GARCIA SUENZ  
#13 HARTFORD AVE  
DES MOINES, IA 50315

Street & PO Box  
City, State

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Sent To  
ARTURO OROZCO HERNANDEZ  
DAVID OROZCO HERNANDEZ  
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ARTESIA, NM 88211

Street & PO Box  
City, State

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Sent To  
BONIFACIO HERNANDEZ  
REYMUENDO & MARISOL CHAVEZ  
PO BOX 1421  
ARTESIA, NM 88211

Street & PO Box  
City, State

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Total Postage & Fees \$

Sent To  
BONIFACIO HERNANDEZ & JUANA SOSA  
GLORIA VILLEGAS & MARY WAGNER  
2007 W CLAYTON  
ARTESIA, NM 88210

Street & PO Box  
City, State

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Sent To  
CELESTINO G HERNANDEZ  
LORRAINE A HERNANDEZ  
807 N SIXTH ST  
ARTESIA, NM 88210

Street & PO Box  
City, State

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Total Postage & Fees \$

Sent To  
FERNANDO & MARY LUISA HERNANDEZ  
PO BOX 1027  
ARTESIA, NM 88211

Street & PO Box  
City, State

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Sent To  
GUADALUPE HERNANDEZ  
1803 N OAK  
ARTESIA, NM 88210

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City, State

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Sent To  
GUADALUPE HERNANDEZ  
311 W KEMP AVENUE  
ARTESIA, NM 88210

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Sent To  
LUPE L & LUPE A HERNANDEZ  
MARCELLA Y VASQUEZ  
1103 CANNON CT  
ARTESIA, NM 88210

Street & PO Box  
City, State

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: LEE JAQUES  
809 N FOURTH STREET  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: CECILIA JIMENEZ  
202 GAGE  
ARTESIA, NM 88210

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Total Postage & Fees	\$	

Sent To: ISABEL & RICK M JIMENEZ  
804 N SIXTH STREET  
ARTESIA, NM 88210

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Sent To: JUANA & CECILIA JIMENEZ  
107 GAGE AVE  
ARTESIA, NM 88210

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Sent To: CHANDA HAWKINS  
169 E BLEVINS RD  
ARTESIA, NM 88210

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Total Postage & Fees	\$	

Sent To: DAVID G HAMMOND  
PO BOX 1522  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)		
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Sent To: DAVID & ESTEFANI HAMMOND  
2508 W RUNYAN AVE  
ARTESIA, NM 88210

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Sent To: BENNY D & CORINNE GUZMAN  
76 ROULETTE RD  
ARTESIA, NM 88210

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Sent To: CLYDE GUY & SONS INC  
GUY CHEVROLET  
101 MAIN STREET  
ARTESIA, NM 88210

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Sent To: RICARDO GUTIERREZ  
276 N 13TH SP 39  
ARTESIA, NM 88210

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Sent To: ANA S GUTIERREZ  
R276 N 13TH STREET SP# 39  
ARTESIA, NM 88210

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Sent To: JACKIE L & DIANA JOY  
603 VOGEL RD  
ARTESIA, NM 88210

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Sent To: DENNIS G JONES  
PO BOX 773  
ARTESIA, NM 88211

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Sent To: S L GURLEY  
401 BOLTON ROAD  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)		
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Sent To: MARY GRZEGORSKI  
WILLIAM CHEUNG  
502 W MAIN ST  
ARTESIA, NM 88210

Postmark: JUL 30 2015  
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Sent To: GROWING INVESTMENT PROPERTIES LLC  
13170 CENTRAL AVENUE SE #8819  
ALBUQUERQUE, NM 87123

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Restricted Delivery Fee (Endorsement Required)		
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Sent To: W L GRAY  
115 CRYSTAL SPRINGS DR  
GEORGETOWN, TX 78628

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: YVONNE M GRANADOS  
JESUS M & ABIGAIL M ACOSTA  
804 N FOURTH ST  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)		
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Sent To: ANTONIO JR & LUPE GRANADOS  
108 CLEVELAND  
ARTESIA, NM 88210

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Certified Fee		
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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: CORINNE B GRACE TRUST  
WESTERN COMMERCE BANK TRUSTEES  
PO BOX 1358  
CARLSBAD, NM 88221

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: ALICE L GONZALES  
1204 N ROSELAWN  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: JOE G GOMEZ  
1901 N FREEMAN  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage	\$	

Sent To: ANITA GOMEZ  
C/O PEGGY GOMEZ  
PO BOX 21673  
DENVER, CO 80221

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage	\$	

Sent To: DONALD R & DAVID GOLEMON  
STEVE D MUNOZ  
602 E RICHEY AVE  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: THOMAS N GILES  
GILES CONSTRUCTION COMPANY  
1012 CALLE DEL SOL  
ARTESIA, NM 88210

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: J D GILBERT, JR  
RC HOELSCHER & KAREN SCHROEDER  
2139 SPRING CREEK RD  
LEBANON, TN 37087

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: LYNN & WANDA JOHNSON  
412 S SECOND STREET  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: BILLY A JOHNSON  
C/O B & B NEWSTAND GAYLA  
309 W MAIN ST  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: GAS WELL SERVICES INC  
C/O JACK C MATTHEWS  
26 E COMPRESS RD  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: MARIANO & MARIA GARCIA  
2001 FERNDAL SE  
ALBUQUERQUE, NM 87123

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: LOUIS H GARCIA  
1805 E MILL ROAD  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: FRED & BILLIE GARCIA  
1204 YUCCA  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: BILLIE JEAN GARCIA  
GREGORIO RAUL JUAREZ  
1204 YUCCA  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ANTONIO J & EVA GARCIA  
709 N FOURTH STREET  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ANTONIO & CARMEN B GARCIA  
906 LEWIS RD  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
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Total Postage & Fees	\$

Sent To: PEDRO G GALVAN  
9259 E MONTE AVE  
MESA, AZ 85209

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CORINA V GALLEGOS  
PO BOX 867  
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Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: MANUEL JR & JERRY FUENTEZ  
2010 OAK STREET  
ARTESIA, NM 88210

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Total Postage & Fees	\$

Sent To: MANUEL & CLOTILDE FUENTES  
MANUEL D FUENTES  
410 S FREEMAN AVENUE  
ARTESIA, NM 88210

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: CHRISTINE FREEMAN  
602 N SIXTH STREET  
ARTESIA, NM 88210

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ESTHER P FRAZEE  
PO BOX 1008  
ARTESIA, NM 88211

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: KENNETH A & SHIRLEY A FOSTER  
KEN-MAR FURNITURE & SHIRLEY'S  
BRIDAL  
302 W MAIN  
ARTESIA, NM 88210

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ISAAC, TOM & STEVEN AGUILAR  
LOUISE BALDONADO & GENEVA  
HUERTAZ  
902 N FIFTH STREET  
ARTESIA, NM 88210

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: MYRA KARINA (GUZMAN) AGUIRRE  
410 CLEVELAND  
ARTESIA, NM 88210

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: TITO MEZA & LAURA L AGUIRRE  
PO BOX 1506  
ARTESIA, NM 88211-1506

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Certified Fee  
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Restricted Delivery Fee (Endorsement Required)

Total P  
JUAN P ALVARADO  
Sent To  
NORMA I LOPEZ DE-ALVARADO  
906 N FIFTH STREET  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)

Total P  
SONIA LOUISE DELGADO ARIAS  
Sent To  
VALERIE DELGADO  
1101 N SIXTH ST  
ARTESIA, NM 88210

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Total P  
ROY R & NORMA M ARMENDAREZ  
Sent To  
1003 N FOURTH STREET  
ARTESIA, NM 88210-1415

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Restricted Delivery Fee (Endorsement Required)

Total P  
JACINTO V ARREDONDO  
Sent To  
1009 N FOURTH STREET  
ARTESIA, NM 88210

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Total P  
GUADALUPE & MARGARITA ARROYO  
Sent To  
904 N FIFTH STREET  
ARTESIA, NM 88210

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Total P  
RAMON H BALENCIA  
Sent To  
LUPE B MARTINEZ  
912 N SIXTH ST  
ARTESIA, NM 88210

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Total P  
OMAR & DOLORES BARRAGAN  
Sent To  
MARISA BARRAGAN  
8 SWAYBACK RD  
ARTESIA, NM 88210

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Total P  
PEDRO P & GUADALUPE BARRERA  
Sent To  
1701 N OAK ST  
ARTESIA, NM 88210

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Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)

Total P  
GUADALUPE G & LUCINDA L  
Sent To  
BEJARANO  
907 N ROSELAWN AVENUE  
ARTESIA, NM 88210

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Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)

Total P  
IDA G BEJARANO  
Sent To  
1003 N 5TH  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)

Total P  
LEON H BUSTAMANTE  
Sent To  
408 W LOGAN AVENUE  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)

Total P  
MICHAEL CALDERON  
Sent To  
456 EULITA AVE  
LA PUENTE, CA 91744

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Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)

Total P  
MARIA ELENA CAMPBELL  
Sent To  
1009 N 6TH ST  
ARTESIA, NM 88210

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Postage \$  
Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)

Total P  
LUPE CAMPOS  
Sent To  
PO BOX 1128  
ARTESIA, NM 88211-1128

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Postage \$  
Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)

Total P  
NICOLASA M CARBAJAL  
Sent To  
C/O VIRGINIA M NUFFER  
108 E HIGH  
WATSONVILLE, CA 95076

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[illegible]

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For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
Postage	\$
Certified Fee	\$
Return Receipt Fee (Government Required)	\$
Registered Delivery Fee (Government Required)	\$
Total Payment	\$
<b>DARRELL G STOVALL</b> <b>PO BOX 640</b> <b>KINGSTON, OK 73439</b>	

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For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
Postage \$ Certified Fee \$ Return Receipt Fee (if requested) \$ Registered Delivery Fee (if requested) \$ Total Payment \$	
<b>JOSEFA H THORSON</b> <b>811 N 6TH ST</b> <b>ARTESIA, NM 88210</b>	
Date: 6/14/04 Street & PO Box City, State	Signature of Addressee Signature of Sender

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For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
First Name _____ Surname _____ Address _____ City _____ State _____ Zip _____ Country _____	Registered Mail Signature _____ Date _____ Office _____

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Postage	\$
Guaranteed Rate	
Business Reply Form (Endorsement Required)	
Third-Class Bulk Rate (Endorsement Required)	
Total Due to us	\$

To: **ANTONIO RODRIGUEZ TORREZ**  
**REBECCA CARRASCO TORREZ**  
**708 N 4TH STREET**  
**ARTESIA, NM 88210**

Return to: **708 N 4TH STREET**  
**ARTESIA, NM 88210**



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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total Post: MARTIN & PRISTINIA CATANO  
VIRGINIA ARAÚJO & NAOMI RAYOS  
1012 N SIXTH STREET  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total: OLIVIA CHAVARRIA  
903 N FIFTH STREET  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total: HENRIETTA C CHAVEZ  
2515 W IOWA  
CARLSBAD, NM 88220

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total Post: SILVIA N JIMENEZ  
JOSE AMAYA  
105 W GAGE  
ARTESIA, NM 88210

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total: JENNIFER LYNN CHAVEZ  
434 RICHMOND NE  
ALBUQUERQUE, NM 87106

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total Pos: LEROY M & DIANA M CORONADO  
1007 N 4TH ST  
ARTESIA, NM 88210-1415

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Postage	\$	
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Restricted Delivery Fee (Endorsement Required)		

Total Pos: DANIEL O CORTEZ  
ROSEMARY CORTEZ CARDENAS  
8109 HARTFORD AVE  
LUBBOCK, TX 79423

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Total: SALVADOR & YOLANDA CUETO  
208 E FAIRGROUND RD  
ARTESIA, NM 88210-9764

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Restricted Delivery Fee (Endorsement Required)		

Total: ISMAEL DELGADO, JR  
PO BOX 1193  
ARTESIA, NM 88211-1193

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Restricted Delivery Fee (Endorsement Required)		

Total F: JESUS N DELGADO  
JOHNNY N DELGADO  
407 GAGE AVENUE  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)		

Total Pos: PATRICIA DURAN  
PO BOX 408  
ARTESIA, NM 88211-0408

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Restricted Delivery Fee (Endorsement Required)		

Total F: JOE ESQUIBEL  
402 W LOGAN AVE  
ARTESIA, NM 88210

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Total: DAVID J GUTIERREZ  
146 HOCTOR RD  
GOLDENDALE, WA 98620

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Restricted Delivery Fee (Endorsement Required)		

Total: GABRIEL GRANADO  
CHRISTOPHER S GRAMADO  
1103 N SIXTH STREET  
ARTESIA, NM 88210

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Restricted Delivery Fee (Endorsement Required)		

Total: FABIAN M & MARTHA M GONZALES  
901 N ROSELAWN AVENUE  
ARTESIA, NM 88210

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Total P: MANUEL B MELENDEZ  
FRANCISCO B MELENDEZ  
1109 N SIXTH STREET  
ARTESIA, NM 88210

Sent To: \_\_\_\_\_  
Street & Apt. or PO Box \_\_\_\_\_  
City, State \_\_\_\_\_

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Restricted Delivery Fee (Endorsement Required)		

Total Post: TINO & LINDA MARTINEZ  
SYLVIA JIMINEZ & CHRISTINE SHEIKH  
4600 ARSENAL ST APT B  
ST LOUIS, MO 63116

Sent To: \_\_\_\_\_  
Street & Apt. or PO Box \_\_\_\_\_  
City, State \_\_\_\_\_

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Total P: GILL JR & MARY MARTINEZ  
1506 HANK AVE  
ARTESIA, NM 88210

Sent To: \_\_\_\_\_  
Street & Apt. or PO Box \_\_\_\_\_  
City, State \_\_\_\_\_

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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total P: LUSIA LARA LUGO  
AMANDA RENEE LUGO SERRANO  
404 W CLEVELAND AVE  
ARTESIA, NM 88210

Sent To: \_\_\_\_\_  
Street & Apt. or PO Box \_\_\_\_\_  
City, State \_\_\_\_\_

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total: ENCARNACION LOPEZ  
ESTEFANA L ESTATE  
1107 N 6TH ST  
ARTESIA, NM 88210

Sent To: \_\_\_\_\_  
Street & Apt. or PO Box \_\_\_\_\_  
City, State \_\_\_\_\_

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Restricted Delivery Fee (Endorsement Required)		

Total Post: MULCOCK PROPERTIES LLC  
5299 RIO PENASCO  
MAYHILL, NM 88339

Sent To: \_\_\_\_\_  
Street & Apt. or PO Box \_\_\_\_\_  
City, State \_\_\_\_\_

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## Attachment 3



# Affidavit of Publication

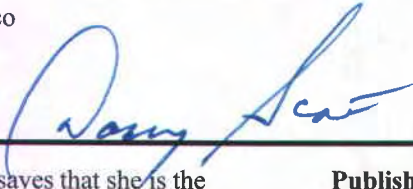
## Copy of Publication:

No. \_\_\_\_\_

State of New Mexico

County of Eddy:

**Danny Scott**



being duly sworn says that she is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

### Display Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication July 22, 2015

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

Sixth Publication \_\_\_\_\_

Subscribed and sworn before me this

22nd day of July 2015



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires:

5/12/2019



Latisha Romine

Notary Public, Eddy County, New Mexico



## NOTICE OF PERMIT MODIFICATION REQUEST

On May 22, 2015, the Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico, Refinery (the Refinery), applied to the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD) for a modification of Groundwater Discharge Permit (GW-028). The modification includes the addition of a temporary reverse osmosis (RO) unit at the Refinery to treat water for utility use and an increase in the amount of RO reject water authorized for land application in the permitted discharge. As specified in 20.6.2.3108B New Mexico Administrative Code (NMAC), the Refinery is providing this notice of permit modification request to all persons on the facility mailing list. This notice includes the information required by 20.6.2.3108F NMAC.

The Refinery operates two permanent RO units to treat raw water for use as boiler feed water or cooling tower makeup water in the Refinery process. An additional RO unit has been installed to serve as a back-up unit for the existing permanent RO units in the event of a maintenance shutdown and to supplement the capacity of the two existing permanent RO units operating at the facility. Due to the increased processing capacity of the Refinery and the corresponding demand for boiler feed water and cooling tower makeup water, use of the temporary RO unit has increased over time.

The water treatment process produces reject fluids that are authorized in the Discharge Permit to be applied within the Refinery's property at a daily maximum of approximately 10,000 bbl/day. Navajo is requesting that the discharge limit in Discharge Permit GW-028 be increased to approximately 20,000 bbl/day (calculated on a 12-month rolling average basis) due to increased refining capacity and the need for a corresponding increase in boiler and cooling tower operations. Per Discharge Permit GW-028, land application of RO reject water is scheduled to terminate on or before October 21, 2016.

Ground water that may be affected by the discharge occurs at a depth of approximately 25 feet below ground surface with a total dissolved solids concentration of approximately 2,500 mg/L. The requested increased discharge volume is not expected to affect existing groundwater quality. Based on analysis of the RO reject fluids to date, chloride, fluoride, sulfate, and total dissolved solids are potential constituents of concern.

The Refinery is located at 501 East Main, Artesia, NM, 88210 in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County. The discharge, increased in volume, will continue to be applied to the surface of an open space within the Refinery boundaries, which is located on the northern part of the Refinery east of US-285 and south of East Richey Avenue. The northern discharge point is located 1255 feet south of East Richey Avenue and 1569 feet east of US-285. The southern discharge point is located 2532 feet south of East Richey Avenue and 2208 feet east of US-285.

Comments, questions, and requests for a copy of the application (either a paper copy or an electronic copy via the internet) should be sent to the following OCD contact:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505 (505) 476-3490  
[carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us)

The OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons wishing to receive future notices.



# Affidavit of Publication

## Copy of Publication:

No. \_\_\_\_\_

State of New Mexico

County of Eddy:

**Danny Scott**

being duly sworn says that she is the

**Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

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was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication

July 22, 2015

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Subscribed and sworn before me this

22nd day of July 2015



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

*Latisha Romine*

Latisha Romine

Notary Public, Eddy County, New Mexico



## **AVISO DE SOLICITUD DE MODIFICACIÓN DEL PERMISO DIVISIÓN DE CONSERVACIÓN DE PETRÓLEO**

El día 22 de Mayo de 2015, la Refinería Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico (NM) (la Refinería), solicitó a la División de Conservación de Petróleo (Oil Conservation Division) (OCD) del Departamento the Energía, Minerales y Recursos Naturales de Nuevo México (New Mexico Energy, Minerals & Natural Resources Department) una modificación del Permiso de Descarga de Agua Subterránea (Formulario GW-028). La modificación abarca la adición una unidad de ósmosis inversa (OI) temporaria en la Refinería para tratar agua utilitaria, como así también un aumento en la cantidad autorizada de agua de rechazo de la OI a ser aplicada al campo como parte de las descarga permitida. Conforme al Código Administrativo de Nuevo México (NMAC) 20.6.2.3108 B, la Refinería publica el presente aviso de solicitud de modificación del permiso a todas las personas en la lista de contactos de la Refinería. Este aviso incluye la información requerida por NMAC Sección 20.6.2.3108F.

La Refinería opera dos unidades OI permanentes para tratar aguas no tratadas para uso en calderas o en torres de enfriamiento en el proceso de la Refinería. Una unidad OI adicional ha sido instalada para servir como unidad de respaldo para las unidades OI permanentes durante la desactivación para mantenimiento, y para suplementar la capacidad de las unidades OI permanentes que operan en la instalación. Debido al aumento de capacidad de procesamiento de la Refinería y la correspondiente demanda de agua tratada para calderas y torres de enfriamiento, el uso de la unidad OI temporaria ha incrementado.

El proceso de tratamiento de agua produce fluidos de rechazo autorizados en el Permiso de Descarga, los cuales serán depositados dentro de la propiedad de la Refinería en una cantidad diaria máxima de 10.000 barriles por día (bbl/día). Navajo solicita que el límite de descarga en el Permiso de Descarga GW-028 sea aumentado a 20.000 bbl/día (calculado a la media móvil de 12 meses) debido al aumento de la capacidad refinera y al correspondiente aumento operacional de calderas y torres de enfriamiento. Conforme al permiso de descarga GW-028, la aplicación del agua de rechazo al campo ha de finalizar el 21 de Octubre de 2016, o con anterioridad esa fecha.

El agua subterránea potencialmente afectada por la descarga se encuentra a una profundidad aproximada de 25 pies (7,6 metros) bajo la superficie de terreno, con una concentración total aproximada de sólidos disueltos (total dissolved solids) de 2.500 miligramos por litro (mg/L). No se anticipa que el aumento del volumen de descarga solicitado produzca ningún impacto negativo en la calidad existente del agua subterránea. Sobre la base del análisis de los fluidos de OI realizados hasta la fecha, componentes tales como cloruro, fluoruro, sulfato y cantidad total de sólidos disueltos merecen atención.

La Refinería está ubicada en 501 East Main, Artesia, NM, 88210 en SE/4 de la Sección 1, E/2 de la Sección 8, W/2 de la Sección 9, N/2 de la Sección 12, poblado 17 sur, Rango 26 este, NMPM, condado de Eddy. La descarga, de mayor volumen continuará siendo aplicada a una superficie abierta dentro de los límites de la propiedad de la Refinería, la cual está ubicada en la parte norte de la Refinería, al este de la carretera US-285, y sur de la Avenida East Richey. El punto norte de descarga está ubicado a 1255 pies al sur de la avenida East Richey y a 1569 pies al este de la autopista US-285. El punto sur de descarga está a 2532 pies al sur de la avenida East Richey y a 2208 pies al este de la autopista US-285.

Comentarios, preguntas, y petición de una copia de la presente solicitud (en papel o electrónica, vía in internet), pueden ser enviados al siguiente contacto de la OCD:

**Mr. Carl Chavez**

Oil Conservation Division

New Mexico Energy, Minerals & Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

(505) 476-3490 carlj.chavez@state.nm.us

La OCD aceptará comentarios y declaraciones de interés con respecto a esta solicitud y creará una lista de contactos específica para todas personas que deseen recibir avisos en el futuro.



## Chavez, Carl J, EMNRD

---

**From:** Chavez, Carl J, EMNRD  
**Sent:** Tuesday, September 08, 2015 9:35 AM  
**To:** 'Denton, Scott'; Brancard, Bill, EMNRD; Griswold, Jim, EMNRD  
**Cc:** Marks, Allison, EMNRD; McWatters, Denise; O'Brien, Robert (Bob) K.; Holder, Mike; Coons, Christina (Christie)  
**Subject:** Navajo Refining Company (GW-028) RO Reject Water Modification Application Public Notice Submittal

Mr. Denton:

The New Mexico Oil Conservation Division (OCD) has completed its review of Navajo Refining Company's letter dated September 3, 2015 with attached Public Notice submittals and finds that it satisfies Water Quality Control Commission Regulations, i.e., 20.6.2.3108 NMAC.

OCD is also in receipt of the requested technical information or report needed to complete its technical review of the above subject modification application. OCD is reviewing the technical information and anticipates issuance of a final determination and public notice in early October of 2015.

Please contact me if you have questions. Thank you.

---

**From:** Denton, Scott [mailto:Scott.Denton@HollyFrontier.com]  
**Sent:** Wednesday, August 26, 2015 10:04 AM  
**To:** Brancard, Bill, EMNRD <bill.brancard@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>  
**Cc:** Marks, Allison, EMNRD <AllisonR.Marks@state.nm.us>; McWatters, Denise <Denise.McWatters@HollyFrontier.com>; O'Brien, Robert (Bob) K. <Robert.O'Brien@HollyFrontier.com>; Holder, Mike <Michael.Holder@hollyfrontier.com>; Coons, Christina (Christie) <Christina.Coons@HollyFrontier.com>; Denton, Scott <Scott.Denton@HollyFrontier.com>  
**Subject:** RE: ACO Monthly Report for July 2015

Bill,

Thanks for the e-mail and the reminder for submitting the Public Notice (PN) proof. For PN we have done the following:

- Notified landowners within 1/3 mile – July 30<sup>th</sup>
- Posted PN in the Artesia newspaper – July 22<sup>nd</sup>
- Posted signs at the Main Office entrance and near the NW corner of the north RO field on July 29<sup>th</sup>.

The PN for the signs is a 30-day posting period. This sets the end of the complete PN period on August 28<sup>th</sup>. We plan to submit the affidavits next week.

Regards,

SMD

Scott M. Denton



## Chavez, Carl J, EMNRD

---

**From:** Chavez, Carl J, EMNRD  
**Sent:** Wednesday, June 03, 2015 4:14 PM  
**To:** 'Denton, Scott'; Griswold, Jim, EMNRD  
**Cc:** Marks, Allison, EMNRD; Brancard, Bill, EMNRD; McWatters, Denise; O'Brien, Robert (Bob) K.; Holder, Mike  
**Subject:** Application for Modification of Discharge Permit GW-28 to Increase the Reverse Osmosis Reject Water Discharge Volume, dated May 22, 2015  
**Attachments:** Attachment 1 Public Notice RO Fields 6-2-2015.pdf

Mr. Denton:

The Oil Conservation Division (OCD) has received Navajo Refining Company L.L.C.'s (operator) application for modification of the discharge permit and initial fee, dated May 22, 2015 for the Artesia Refinery located in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9. N/2 of Section 12, Township 17 South. Range 26 East. NMPM, Eddy County, New Mexico.

The department has determined based on 20.6.2.3108 NMAC that the modification application is **not administratively complete**. The operator is encouraged to contact OCD to discuss Item 2 below.

The OCD has identified the following deficiencies:

- 1) Lack of the proposed locations and newspaper for providing notice [20.6.2.3108(A) NMAC].
- 2) Incomplete proposed public notice (see Attachment 1 Public Notice) per 20.6.2.3108(F) NMAC as follows:
  - a. Add zip code to the name and address of the proposed discharger [20.6.2.3108(F)(1) NMAC].
  - b. Add more specific discharge locations [20.6.2.3108(F)(2) NMAC], i.e., Unit Letter, Section, Township, and Range with more descriptive footages from major intersections to the two farm fields north and south of Eagle Creek.
  - c. Add description of the activities relative to the actual permit situation [20.6.2.3108(F)(3) NMAC], i.e., the RO Reject water discharges to farm fields are scheduled to terminate on or before October 21, 2016, etc.
  - d. Describe the expected reverse osmosis reject effluent quality from the two permanent units and the third temporary unit with sufficient information regarding discharge quality [20.6.2.3108(F)(4) NMAC], i.e. list constituents of concern, i.e., Chloride, Fluoride, Sulfate and Total Dissolved Solids, based on water quality exceedances to date.
  - e. Include language for requests for a copy or Web link of the application associated with OCD's contact information for questions [20.6.2.3108(F)(6) NMAC].

This section should not be misinterpreted to be required for OCD's Administrative Completeness review above; however, OCD is currently conducting a technical review of the application to expedite OCD's determination on the application and requests perhaps as "Attachment 5" of the application the following technical information:

- 1) A complete evaluation of RO Reject Water Quality, since the discharge was initiated.



- 2) A complete historical (> 25 years) evaluation with calculations of the estimated loading (tons) to the two 40-acre farm field areas or discharge areas based on historical (> 25 years) RO Reject Water Quality data, i.e., General Chemistry (Cl, F, SO<sub>4</sub>, NO<sub>3</sub>, and TDS) and Metals.
- 3) A contaminant hydrogeologic model of the two farm fields and the leachate discharge to groundwater beneath the two discharge locations based on 25 ft. of unsaturated zone (as a function of the actual sedimentation or lithologic units present beneath the two areas) with groundwater present at the same depth.
- 4) A statistical evaluation of max./min./avg., all exceedances of water quality standards, etc. leachate discharge levels in groundwater beneath each farm field.

Upon receipt of the administrative completeness information or deficiencies requested above, OCD may deem the application administratively complete and provide public notice pursuant to the WQCC notice requirements of 20.6.2.3108 NMAC to determine if there is any public interest.

Please contact me at (505) 476-3490 or [carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us) if you have questions. Thank you for your cooperation in this matter.

Respectfully,

**Carl J. Chavez, CHMM**

New Mexico Energy, Minerals & Natural Resources Department  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Drive, Santa Fe, New Mexico 87505  
O: (505) 476-3490

E-mail: [CarlJ.Chavez@State.NM.US](mailto:CarlJ.Chavez@State.NM.US)

Web: <http://www.emnrd.state.nm.us/ocd/>

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---

**From:** Denton, Scott [mailto:Scott.Denton@HollyFrontier.com]

**Sent:** Friday, May 22, 2015 4:54 PM

**To:** Griswold, Jim, EMNRD; Chavez, Carl J, EMNRD

**Cc:** Marks, Allison, EMNRD; Brancard, Bill, EMNRD; McWatters, Denise; O'Brien, Robert (Bob) K.; Holder, Mike; Denton, Scott

**Subject:** GW-028 Permit Modification Submittal

Jim & Carl,

Attached is the permit modification for GW-028 and a copy of the filing fee that was mailed today.

Let me know if you have any questions.



Thanks,

SMD

Scott M. Denton  
Environmental Manager

The HollyFrontier Companies  
P.O. Box 159  
Artesia, NM 88211-0159  
575-746-5487

[Scott.Denton@HollyFrontier.com](mailto:Scott.Denton@HollyFrontier.com)

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Attachment 1  
Public Notice



## NOTICE OF PERMIT MODIFICATION REQUEST

On May 22, 2015, the Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico, Refinery (the Refinery), applied to the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD) for a modification of Groundwater Discharge Permit (GW-028). The modification includes the addition of a temporary reverse osmosis (RO) unit at the Refinery to treat water for utility use and an increase in the amount of RO reject water authorized for land application in the permitted discharge. As specified in 20.6.2.3108B New Mexico Administrative Code (NMAC), the Refinery is providing this notice of permit modification request to all persons on the facility mailing list. This notice includes the information required by 20.6.2.3108F NMAC.

The Refinery operates two permanent RO units to treat raw water for use as boiler feed water or cooling tower makeup water in the Refinery process. An additional RO unit has been installed to serve as a back-up unit for the existing permanent RO units in the event of a maintenance shutdown and to supplement the capacity of the two existing permanent RO units operating at the facility. Due to the increased processing capacity of the Refinery and the corresponding demand for boiler feed water and cooling tower makeup water, use of the temporary RO unit has increased over time.

The water treatment process produces reject fluids that are authorized in the Discharge Permit to be applied within the Refinery's property at a daily maximum of approximately 10,000 bbl/day. Navajo is requesting that the discharge limit in Discharge Permit GW-028 be increased to approximately 20,000 bbl/day (calculated on a 12-month rolling average basis) due to increased refining capacity and the need for a corresponding increase in boiler and cooling tower operations. No change to the discharge water quality is expected.

Ground water that may be affected by the discharge occurs at a depth of approximately 25 feet below ground surface with a total dissolved solids concentration of approximately 2,500 mg/L. The requested increased discharge volume is not expected to adversely impact existing groundwater quality.

The Refinery is located at 501 East Main, Artesia, NM. The discharge, increased in volume, will continue to be applied to the surface of an open space within the Refinery boundaries, which is located on the northern part of the Refinery east of US-285 and south of East Richey Avenue.

Comments or questions should be sent to the following OCD contact:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
[carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us)

The OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons wishing to receive future notices.



## Chavez, Carl J, EMNRD

---

**From:** Denton, Scott <Scott.Denton@HollyFrontier.com>  
**Sent:** Friday, May 22, 2015 4:54 PM  
**To:** Griswold, Jim, EMNRD; Chavez, Carl J, EMNRD  
**Cc:** Marks, Allison, EMNRD; Brancard, Bill, EMNRD; McWatters, Denise; O'Brien, Robert (Bob) K.; Holder, Mike; Denton, Scott  
**Subject:** GW-028 Permit Modification Submittal  
**Attachments:** 150522 GW-028 RO Volume Increase Permit Modification Submittal.pdf; 150522 Permit Mod Filing Fee Transmittal Letter.pdf

Jim & Carl,

Attached it the permit modification for GW-028 and a copy of the filing fee that was mailed today.

Let me know if you have any questions.

Thanks,

SMD

Scott M. Denton  
Environmental Manager

The HollyFrontier Companies  
P.O. Box 159  
Artesia, NM 88211-0159  
575-746-5487

[Scott.Denton@HollyFrontier.com](mailto:Scott.Denton@HollyFrontier.com)

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, may contain information that is privileged and confidential. If you 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 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.





May 22, 2015

Director, Oil Conservation Division  
NM Energy, Minerals & Natural Resources Dept.  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Certified Mail/Return Receipt  
7011 3500 0001 4786 4788

**Re: Discharge Permit GW-028 - Permit Modification Filing Fee  
WQA-OCD-CO-2015-002  
Application for Modification  
Navajo Refining Company, L.L.C.  
Artesia Refinery**

Dear Director:

Enclosed please find a check in the amount of \$100 in payment of the permit filing fee pursuant to 20.6.2.3114 NMAC for the Permit Modification Application to GW-028. If you have any questions, please do not hesitate to contact me at (575) 746-5487.

Sincerely,

Scott M. Denton  
Environmental Manager

Enclosure

Electronic cc: OCD: Bill Brancard, Allison Marks, Jim Griswold, Carl Chavez  
HFC Bob O'Brien, Mike Holder, Denise McWatters

Environmental File: OCD,RO Reject Flow Data,Permit Mod  
150522 Permit Mod Filing Fee Transmittal Letter

**Navajo Refining Company, L.L.C.**  
501 East Main • Artesia, NM 88210  
(575) 748-3311 • <http://www.hollyfrontier.com>



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0005334 11-24  
Office AU # 1210(6)  
Remitter: SCOTT M DENTON  
Operator I.D.: u303653

# PERSONAL MONEY ORDER



May 22, 2015

PAY TO THE ORDER OF \*\*\*WATER QUALITY MANAGEMENT FUND\*\*\*

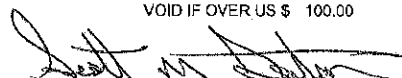
\*\*\*One hundred dollars and no cents\*\*\*

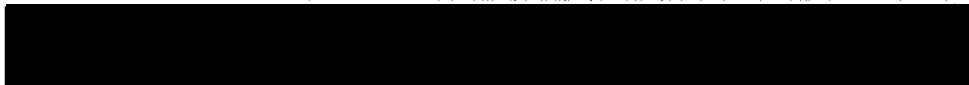
\*\*\$100.00\*\*

Payee Address: 1220 SOUTH ST. FRANCIS DR. SANTA FE, NM 87505-  
Memo: NEW MEXICO ENERGY MINERALS & NATURAL

WELLS FARGO BANK, N.A.  
610 W MAIN ST  
ARTESIA, NM 88210  
FOR INQUIRIES CALL (480) 394-3122

VOID IF OVER US \$ 100.00

  
Purchaser's Signature







May 22, 2015

Submitted electronically via email to jim.griswold@state.nm.us and carlj.chavez@state.nm.us

Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**RE: WQA-OCD-CO-2015-002**  
**Application for Modification**  
**Discharge Permit GW-028**  
**Navajo Refining Company, L.L.C.**

Dear Sirs:

In accordance with Paragraph 1 of Exhibit A to Agreed Compliance Order No. WQA-OCD-CO-2015-002, dated April 27, 2015 (the Order), the Navajo Refining Company (Navajo), Artesia, New Mexico Refinery (the Refinery) hereby submits an application for modification to Discharge Permit GW-028 (Discharge Permit). This letter and all attachments provided herein constitute the permit modification request required under the Order.

The scope of this modification request includes the following three elements, which are further addressed and explained below, with applicable supporting documentation attached:

- Increasing the total maximum volume of reverse osmosis (RO) reject fluids that can be applied to the surface of the Refinery's discharge fields (also referred to as "farms") from approximately 10,000 barrels per day (bbl/day) to approximately 20,000 bbl/day calculated on a rolling 12-month average. The current discharge limit is contained in Permit Condition 4.A, but is also referenced in Conditions 1.A., 1.B., and 6.C.
- Operating a temporary RO unit at the Refinery.
- Updating the Refinery processing capacity to 105,000 bbls/day.

It is Navajo's understanding that the addition of the temporary RO unit and the requested revision to the discharge volume limit will require public notice. A copy of public notice of this permit modification request with respect to these two changes is found at Attachment 1, including the information required by 20.6.2.3108F New Mexico Administrative Code (NMAC).

In accordance with 20.6.2.3114.F NMAC, Navajo has submitted the applicable permit modification filing fee (\$100) and understands that a permit fee will be assessed upon approval of the permit modification request.

**Navajo Refining Company, L.L.C.**  
501 East Main • Artesia, NM 88210  
(575) 748-3311 • <http://www.hollyfrontier.com>



**Modification Request – Increase the Permitted Volume of RO Reject Fluid Discharges**

Condition 4.A of the Discharge Permit currently authorizes Navajo to discharge approximately 10,000 barrels per day (bbl/day) of RO reject fluids from two permanent RO units to the discharge fields (also referred to as “farms”). Navajo is hereby requesting to modify the Discharge Permit to authorize Navajo to discharge 20,000 bbl/day, calculated on a 12-month rolling average based on daily volume measurements from the prior 12 months, consistent with Navajo’s current use of the Refinery (including operation of a temporary RO unit), and intended future use of the Refinery until such time as land application can cease. The remaining provisions of the Discharge Permit will remain unchanged.

Accordingly, Navajo requests that the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD) approve the following modifications to Conditions 1.A., 1.B., 4.A., and 6.C. of the Discharge Permit (Note that the Permit language below is repeated verbatim from the Discharge Permit with the exception of the requested modifications. Requested modifications are noted in boldface type.):

**1.A. Permittee and Permitted Facility, paragraph 2:** The Permittee refines crude oil and processes natural gas at its Facility. The Facility refines and processes up to **105,000** barrels per day of crude oil and other feed stocks. The Permittee’s Facility discharges approximately **20,000** barrels per day of reverse osmosis reject fluids to the surface at the Facility’s two farms. The Permittee is abating groundwater and vadose zone contamination at the Facility. Groundwater that may be affected by a spill, leak, or accidental discharge occurs at a depth of approximately 25 feet below ground surface with a total dissolved solids concentration of approximately 2,500 mg/L.

**1.B. Scope of Permit, paragraph 3:** This Discharge Permit authorizes the Permittee to discharge approximately **20,000** barrels per day of reverse osmosis reject fluids at the Permittee’s two farms, **as calculated on a 12-month rolling average basis**. This Discharge Permit does not authorize any treatment of, or on-site disposal of, any materials, product, by-product, or oil field waste including, but not limited to, the on-site disposal of lube oil, glycol, antifreeze, filters, elemental sulfur, washdown water, contaminated soil, and cooling tower blowdown water.

**4.A. Discharge Volume:** The Permittee is authorized to discharge approximately **20,000** barrels per day of reverse osmosis reject fluids to the surface at the Permittee’s two farms, **as calculated on a 12-month rolling average basis**. Discharge to Eagle Draw is prohibited. This authorization will expire not later than October 21, 2016 or when the proposed new Class I injection well is operationally capable of accepting the waste stream, whichever occurs first.

**6.C. Requirement to Cease All Discharge of Reverse Osmosis Reject Fluids to the Surface at the Two Farms.** The Permittee shall cease all discharges of reverse osmosis



reject fluids (approximately **20,000** barrels per day **as calculated on a 12-month rolling average basis**) and/or any other waste discharge to the surface on or before October 21, 2016 or when the proposed new Class I injection well is operationally capable of accepting the waste stream, whichever occurs first.

The following text provides information on the proposed increase in the RO reject fluid discharge volume with respect to each administrative completeness item required by 20.6.2.3108A NMAC, found at 20.6.2.3108F (1)-(5) NMAC.

**20.6.2.3108F (1) Name and Address of the Proposed Discharger:**

Navajo Refining Company, L.L.C.  
501 East Main, Artesia, NM 88210

**20.6.2.3108F (2) Location of the Discharge:**

Attachment 2 is a map that depicts the location of the Refinery's discharge fields/farms for the proposed maximum volume of RO reject fluids of approximately 20,000 bbl/day as calculated on a 12-month rolling average basis. The map also depicts the discharge point for the temporary RO unit, which is the same outfall as that used for discharges from the permanent RO unit at the South RO Reject field. The location of the two permanent RO units and the temporary RO unit are also depicted on Attachment 2.

**20.6.2.3108F (3) Brief Description of the Activities that Produce the Discharge:**

The Refinery operates two permanent RO units that generate reject fluids that are authorized in the Discharge Permit to be applied to the fields/farms at a daily maximum of approximately 10,000 bbl/day. In addition, the Refinery has installed a temporary RO unit that serves as a back-up unit for the existing permanent RO units in the event of a maintenance shutdown and to supplement the capacity of the two existing permanent RO units operating at the facility. Due to the increased processing capacity of the Refinery and the corresponding demand for boiler feed water and cooling tower makeup water, use of the temporary RO unit has increased over time.

A technical summary of the temporary RO unit and process, and a RO unit process diagram, are provided in Attachment 3. As explained further in Attachment 3, the units (permanent and temporary) function similarly in the pre-treatment of fresh groundwater, either purchased from the City of Artesia or produced from the Refinery's deep artesian wells, to be used as boiler feed water or cooling tower makeup water.

**20.6.2.3108F (4) Brief Description of the Volume and Quality of the Discharge:**

***Basis of Volume Increase Request and Compliance Measurement Method***



Each RO unit is designed to operate at 75% recovery with a total RO reject flowrate of 134 gpm, or nearly 5,000 bbl/day. With three RO units currently operating at the Refinery, Navajo projects that RO reject discharge volumes will consistently reach 15,000 bbl/day (three units generating 5,000 bbl/day each). In practice, however, achievable recovery percentages vary based upon the quality of the incoming water, system design, and other operational factors; therefore, Navajo is requesting a modification to the discharge volume limit to approximately 20,000 bbl/day as calculated on a 12-month rolling average basis to allow for these variations in achievable efficiency and associated discharge flowrates. The requested approximate 20,000 bbl/day discharge volume is consistent with Navajo's current use of the Refinery (including operation of the temporary RO unit).

The discharge volume will be measured on a daily basis. Discharge flow from the permanent units is metered and recorded by the Refinery's control system and historian. The temporary RO unit is a rental unit which is metered by the vendor who maintains the meter records and makes those records available to the Refinery. A Refinery operator will log the temporary RO unit's discharge volume data on a daily basis and submit the data to the Refinery's Environmental Department staff at the end of each week.

Data from the two permanent units and the temporary RO unit will be evaluated by the Environmental Department to ensure compliance with Condition 4.A. of the Discharge Permit. The average discharge volume shall be calculated on a 12-month rolling average based on daily volume measurements from the prior 12 months. Navajo will monitor and record discharge flowrate data on a daily basis for each RO unit individually and for all RO units together. Discharge volumes shall continue to be reported to the OCD in the Annual Discharge Permit Report in accordance with the requirements of Condition 2.F. of the Discharge Permit and as required by the Order.

### ***Quality of the Discharge and Compliance Monitoring***

The quality of the additional volume of RO reject fluids (including operation of the temporary RO unit) is expected to be similar to the quality of the discharges from the two permanent RO units reported to OCD annually in the Annual Discharge Permit Report. The water source (i.e., the City of Artesia or the Refinery's deep artesian wells) is the same for the current permanent units and the temporary unit, and will be the same for any future permanent RO units. As RO unit design, operation, and influent for the permanent and temporary RO units is similar, it is reasonable to expect that the resulting discharge quality will also be similar.

Analytical data for samples of the temporary RO unit reject fluids collected on April 14, 2015 and April 28, 2015 confirm that these fluids are comparable in quality to the reject fluids from the permanent units. A copy of the analytical reports for the temporary RO unit reject stream and the permanent RO reject stream samples, are provided in Attachment 4.

Navajo proposes to collect and analyze grab samples of the temporary RO unit discharge (and record and report, and maintain records) in accordance with the quality monitoring requirements for the two



existing permanent RO units set forth in Condition 4.B. of the Discharge Permit. These samples will be collected during semi-annual groundwater monitoring sampling events.

The Discharge Permit's quality sampling and reporting requirements also apply to the increased discharge volume, and these requirements satisfy 20.6.2.3109C(2) NMAC (criteria for the OCD Secretary's decision on permits and permit modifications, including protection of groundwater and discharge monitoring systems).

**20.6.2.3108F (5) Depth to and Total Dissolved Solids Concentration of the Ground Water Most Likely to be Affected by the Discharge:**

The Discharge Permit (Condition 1.A.) identifies groundwater that may be affected by Refinery operations as occurring at a depth of approximately 25 feet below ground surface with a total dissolved solids (TDS) concentration of approximately 2,500 mg/L.

In general, lithologic logs from monitor wells installed in and near the Refinery process area document a shallow saturated zone overlying the main valley fill alluvium and containing water of variable quality in fractured caliche and sand and gravel lenses at depths of 15 to 30 feet below ground surface. The general direction of flow in this shallow saturated zone is to the east toward the Pecos River. The water in the shallow saturated zone is highly variable in quality, volume, areal extent, and saturated thickness. Concentrations of TDS exceeding 2,000 mg/L and sulfate exceeding 500 mg/L have been recorded northwest (upgradient) of the Refinery.

In accordance with Condition 6.D. of the Discharge Permit, Navajo has completed a site investigation of the discharge fields and submitted the *Reverse Osmosis Reject Water Discharge Fields Investigation Final Report* to the OCD in February 2014. The investigation indicated minor impacts to the geochemistry of the groundwater beneath the fields; however, it is inconclusive whether the RO reject discharge stream may potentially be contributing to elevated constituents of concern in groundwater, or if there may be upgradient sources of these compounds. Navajo has initiated a background study for the discharge fields and has proactively recommended continued groundwater monitoring of the six groundwater monitoring wells in the RO reject discharge field on a semiannual basis.

Quarterly sampling events conducted for the RO discharge field investigation reported in the February 2014 *Investigation Final Report* were completed during 2013, a time period during which the temporary RO unit was in operation and RO reject fluid discharges exceeded 10,000 bbl/day. Hence, neither continued operation of the temporary RO unit nor increased discharge rates are expected to adversely impact groundwater quality. Continued monitoring will be conducted in accordance with the Facility Wide Groundwater Monitoring Plan.

As stated in Section I.12 of the Agreed Compliance Order with the OCD, there are no known or anticipated damages to human health or the environment associated with the discharges discussed above. Discharges take place solely on Navajo property, and moreover, as also noted in the Order



and in the discussion above, Navajo's groundwater monitoring system has not confirmed any human health or environmental risks that may be attributed to the discharge of RO reject fluid above 10,000 bbl/day.

The results of the discharge field site investigation and temporary RO unit reject fluids analysis, and the continued monitoring of the RO reject discharge and groundwater, also address 20.6.2.3109C(1) NMAC (criteria for the OCD Secretary's decision on permits and permit modifications, including no impact on groundwater that has a TDS concentration of 10,000 mg/l or less).


### **Conclusion**

The above information and attachments constitute the permit modification request required by Exhibit A, Paragraph 1, to the Agreed Compliance Order. The permit modification request includes the information required for administrative completeness under 20.6.2.3108F (1)-(5) NMAC.

Navajo will complete all required sampling, analysis, and reporting for the permanent and temporary units under the requirements of the Discharge Permit. Based on the results of the recent discharge field site investigation and RO reject fluids sample analysis, land application of the requested additional volume of RO reject fluids is not expected to adversely impact groundwater at the discharge field location. Therefore, the permit modification request satisfies 20.6.2.3109C(2) NMAC (criteria for the OCD Secretary's decision on permits and permit modifications, including protection of groundwater and discharge monitoring systems) and 20.6.2.3109C(1) NMAC (criteria for the OCD Secretary's decision on permits and permit modifications, including that groundwater that has a TDS concentration of 10,000 mg/l or less will not be affected).

Navajo is committed to working cooperatively with OCD to help facilitate its review of this permit modification request. We appreciate the attention OCD has given to this matter and OCD's prompt consideration of this application. If you have any questions or comments, please do not hesitate to contact me at 575-746-5487.

Sincerely,



Scott M. Denton  
Environmental Manager

Enclosures:

- Attachment 1: Public Notice
- Attachment 2: Reverse Osmosis Unit and Discharge Locations
- Attachment 3: Temporary Reverse Osmosis Unit Technical Summary
- Attachment 4: Temporary Reverse Osmosis Unit Reject Fluid Sample Analysis Data



cc. HFC: D. McWatters, R. O'Brien, M. Holder  
OCD: A. Marks, B. Brancard



**Attachment 1**  
**Public Notice**



## NOTICE OF PERMIT MODIFICATION REQUEST

On May 22, 2015, the Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico, Refinery (the Refinery), applied to the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD) for a modification of Groundwater Discharge Permit (GW-028). The modification includes the addition of a temporary reverse osmosis (RO) unit at the Refinery to treat water for utility use and an increase in the amount of RO reject water authorized for land application in the permitted discharge. As specified in 20.6.2.3108B New Mexico Administrative Code (NMAC), the Refinery is providing this notice of permit modification request to all persons on the facility mailing list. This notice includes the information required by 20.6.2.3108F NMAC.

The Refinery operates two permanent RO units to treat raw water for use as boiler feed water or cooling tower makeup water in the Refinery process. An additional RO unit has been installed to serve as a back-up unit for the existing permanent RO units in the event of a maintenance shutdown and to supplement the capacity of the two existing permanent RO units operating at the facility. Due to the increased processing capacity of the Refinery and the corresponding demand for boiler feed water and cooling tower makeup water, use of the temporary RO unit has increased over time.

The water treatment process produces reject fluids that are authorized in the Discharge Permit to be applied within the Refinery's property at a daily maximum of approximately 10,000 bbl/day. Navajo is requesting that the discharge limit in Discharge Permit GW-028 be increased to approximately 20,000 bbl/day (calculated on a 12-month rolling average basis) due to increased refining capacity and the need for a corresponding increase in boiler and cooling tower operations. No change to the discharge water quality is expected.

Ground water that may be affected by the discharge occurs at a depth of approximately 25 feet below ground surface with a total dissolved solids concentration of approximately 2,500 mg/L. The requested increased discharge volume is not expected to adversely impact existing groundwater quality.

The Refinery is located at 501 East Main, Artesia, NM. The discharge, increased in volume, will continue to be applied to the surface of an open space within the Refinery boundaries, which is located on the northern part of the Refinery east of US-285 and south of East Richey Avenue.

Comments or questions should be sent to the following OCD contact:

**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
[carlj.chavez@state.nm.us](mailto:carlj.chavez@state.nm.us)

The OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons wishing to receive future notices.



## **AVISO DE SOLICITUD DE MODIFICACIÓN DEL PERMISO DIVISIÓN DE CONSERVACIÓN DE PETRÓLEO**

El día 22 de Mayo de 2015, la Refinería Navajo Refining Company L.L.C. (Navajo), Artesia, New Mexico (NM) (la Refinería), ha solicitado a la División de Conservación de Petróleo (Oil Conservation Division) (OCD) del Departamento the Energía, Minerales y Recursos Naturales de Nuevo México (New Mexico Energy, Minerals & Natural Resources Department) una modificación del Permiso de Descarga de Agua Subterránea (Formulario GW-028). La modificación abarca la adición una unidad de ósmosis inversa (OI) temporaria en la Refinería para tratar agua utilitaria y un aumento en la cantidad de agua de rechazo de la OI autorizada para aplicación al campo como parte de las descarga permitida. Conforme al Código Administrativo de Nuevo México (NMAC) 20.6.2.3108 B, la Refinería publica el presente aviso de solicitud de modificación del permiso a todas las personas en la lista de contactos de la Refinería. Este aviso incluye la información requerida por NMAC Sección 20.6.2.3108F.

La Refinería opera dos unidades OI permanentes para tratar aguas no tratadas para uso en calderas o en torres de enfriamiento en el proceso de la Refinería. Una unidad OI adicional ha sido instalada para servir como unidad de respaldo para las unidades OI permanentes durante la desactivación para mantenimiento, y para suplementar la capacidad de las unidades OI permanentes que operan en la instalación. Debido al aumento de capacidad de procesamiento de la Refinería y la correspondiente demanda de agua tratada para calderas y torres de enfriamiento, el uso de la unidad OI temporaria ha incrementado.

El proceso de tratamiento de agua produce fluidos de rechazo autorizados en el Permiso de Descarga, los cuales serán depositados dentro de la propiedad de la Refinería en una cantidad diaria máxima de 10.000 barriles por día (bbl/día). Navajo solicita que el límite de descarga en el Permiso de Descarga GW-028 sea aumentado a 20.000 bbl/día (calculado a la media móvil de 12 meses) debido al aumento de la capacidad refinera y a la necesidad del correspondiente aumento operacional de calderas y torres de enfriamiento. No se anticipa ningún cambio a la calidad de agua de descargada.

El agua subterránea potencialmente afectada por la descarga se encuentra a una profundidad aproximada de 25 pies (7,6 metros) bajo la superficie de terreno, con una concentración total aproximada de sólidos disueltos (total dissolved solids) de 2.500 miligramos por litro (mg/L). No se anticipa que el aumento del volumen de descarga solicitado produzca ningún impacto negativo en la calidad existente del agua subterránea.

La Refinería está ubicada en 501 East Main, Artesia, NM. La descarga, de mayor volumen continuará siendo aplicada a una superficie abierta dentro de los límites de la propiedad de la Refinería, la cual está ubicada en la parte norte de la Refinería, al este de la carretera US-285, y sur de la Avenida East Richey.

Comentarios o preguntas acerca de esta solicitud pueden ser mandados al siguiente contacto de la OCD:

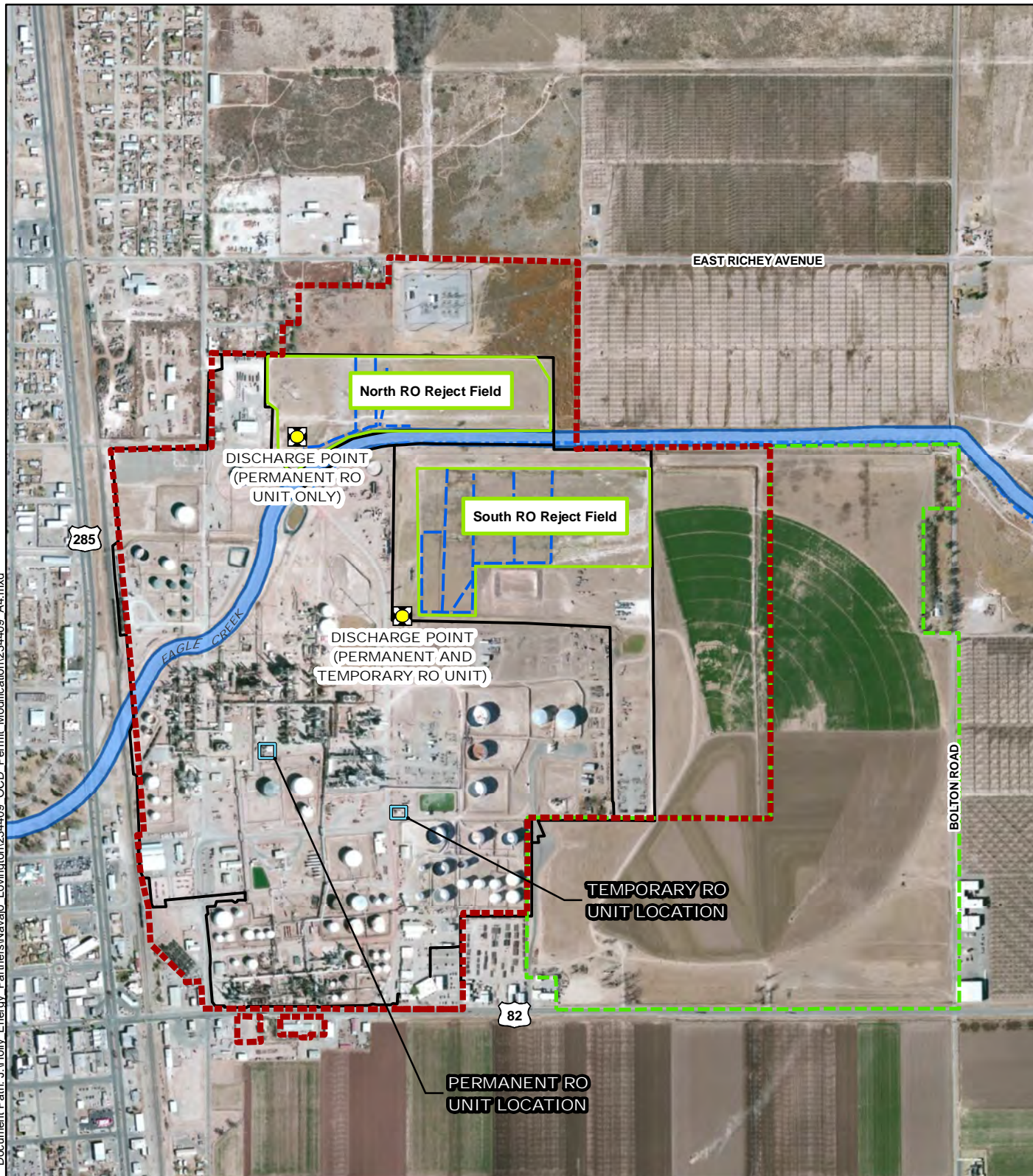
**Mr. Carl Chavez**  
Oil Conservation Division  
New Mexico Energy, Minerals & Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
(505) 476-3490  
carlj.chavez@state.nm.us

La OCD aceptará comentarios y declaraciones de interés con respecto a esta solicitud y creará una lista de contactos específica para todas personas que deseen recibir avisos en el futuro.



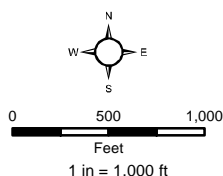
**Attachment 2**  
**Reverse Osmosis Unit and Discharge Locations**





# **LEGEND**

- DISCHARGE POINT
- PERMANENT AND TEMPORARY RO UNIT LOCATIONS
- NAVAJO REFINING PROPERTY
- MONTANA REFINING PROPERTY
- REJECT FIELD IRRIGATION TRENCHES
- RO REJECT WATER DISCHARGE FIELD
- REFINERY FENCELINE
- WATERWAYS
- THREE-MILE DITCH DITCH AND EXISTING UNDERGROUND DISCHARGE PIPING



## **RO REJECT WATER DISCHARGE PERMIT MODIFICATION** NAVAJO REFINING COMPANY ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO

PROJECT NUMBER: 234409

FILE NAME: 234409\_A4

AUTHOR: KVILLATORO

DATE: 4/24/2015



505 E. HUNT LAND DR.  
 SUITE 250  
 AUSTIN, TX 78752  
 PH: 512-329-6080

**ATTACHMENT**

**2**



**Attachment 3**  
**Temporary Reverse Osmosis Unit Technical Summary**



## **Temporary Reverse Osmosis (RO) Unit Technical Summary**

### **Operational Overview**

The purpose of the Refinery's RO units, including the temporary RO unit, is to remove dissolved solids from incoming fresh water by passing high pressure feed water through a series of filter elements that contain a semi-permeable RO membrane. This membrane prevents large molecules, or dissolved solids, from passing through the membrane, but does allow smaller water molecules to pass through the membrane. The clean water then becomes the RO permeate, or product water (suitable for use in critical needs for boiler steam generation and cooling tower operation), while the concentrated, dissolved solids in the feed water becomes the RO concentrate, or reject. The Refinery's RO units (temporary and permanent) function similarly in the pre-treatment of fresh groundwater.

Process drawings are included in the RO Unit Operational Overview. The process drawings depict the RO unit pump and vessel skid layouts, instrumentation and controls, and trailer plot plan. The features and operation of the Refinery's RO units, including the temporary RO unit, are further summarized below.

### **Percent Recovery**

Typically, RO systems are designed to operate at 75% recovery, though the achievable percent recovery is dependent on a number of factors and consequently, can vary. Percent recovery is defined as the volume of permeate water produced per equivalent volume of feed water. For example, a system that produces 50 gallons per minute (gpm) of permeate at 75% recovery will have a feed water flow rate of 67 gpm. The remaining 17 gpm will carry away the concentrated dissolved solids in the RO reject stream. The ratio of permeate to feed water is a critical operating and design parameter that needs to be maintained in order to achieve maximum efficiency of the system.

In practice, recovery percentages vary based upon the quality of the incoming water, system design, and other operational factors; however, a minimum concentrate, or reject water discharge, flow rate must always be maintained to effectively remove the concentrated dissolved solids from the system. The minimum concentrate flow rate is determined by the minimum velocity requirements of the membrane manufacturer and the design of the system arrays. RO systems are designed to operate at a specific rate of permeate production, and require a minimum concentrate flow to achieve this permeate production level. The percent recovery is achieved by setting the concentrate flow rate; too low of a concentrate flow will lead to scaling and deposition on the membrane surface; too high of a concentrate flow rate will decrease the amount and quality of the permeate water produced. In summary, the concentrate flow, or reject water discharge volume, should be maintained at a volume equal to or greater than the minimum volume required for efficient operation of the system; i.e., concentrate flow cannot be lowered with the sole purpose of minimizing reject water discharge volumes.

## **Temporary RO System Array**

The temporary RO unit consists of two individual single pass RO systems housed in one trailer. Each system, in turn, is designed to produce 200 gpm of permeate at 75% recovery, resulting in a design rate of 67 gpm of reject flow. With two systems in each unit, the total unit permeate flow is designed to be 400 gpm resulting in a total unit reject flow of 134 gpm.

Each system is designed to use 48-inch, 400 ft<sup>2</sup> elements distributed in two arrays. Concentrate water from the first array feeds the second array. The design array for the RO system is 8-4, meaning the first array contains eight pressure vessels operating in parallel, and the second array contains four pressure vessels operating in parallel. Each pressure vessel contains four membrane elements.

## **Additional Temporary RO Unit Process Features**

### ***Booster Pumps***

Each RO system is equipped with a low pressure booster pump at the inlet to ensure sufficient pressure to drive the feed water through the pre-filter cartridges and supply the high pressure RO process pump.

### ***Pre-Filters***

Each system contains two pre-filters for removal of suspended solids from the feed water. The pre-filters protect the RO system membranes by removing solids that would otherwise plug the small channels in the membrane.

### ***Process Pumps***

Each RO system is equipped with a high pressure process pump located at the inlet to the pressure vessels.



## Temporary RO Unit Technical Summary

The temporary RO unit consists of two skids operating inside of a trailer.

Skid Feed Flow	267 gpm
Total Feed Flow	534 gpm

Skid Permeate (Product) Flow	200 gpm
Total Permeate (Product) Flow	400 gpm

Skid Reject Flow	67 gpm
Total Reject Flow	134 gpm

Design Recovery Rate	75%
----------------------	-----

Nominal Flux (per skid)	15 gfd
-------------------------	--------

Membranes	
Length	48 inches
Area	400 ft <sup>2</sup>
Membranes	48

Prefilters	
Filter Housings	2
Filters/Housing	12
Filter size	30"
Porosity	5 µm

**Attachment 4**  
**Temporary Reverse Osmosis Unit**  
**Reject Fluid Sample Analysis Data**





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# SAMPLE SUMMARY

ONE LAB. NATIONWIDE

REGULAR UNIT SOUTH FIELD RD REJECT L759281-01 GW

Collected by  
Scott Ude

Collected date/time  
04/14/15 13:30

Received date/time  
04/15/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG782480	1	04/16/15 17:17	04/17/15 15:25	MF
Mercury by Method 7470A	WG782318	1	04/20/15 15:24	04/21/15 09:32	ESC
Mercury by Method 7470A	WG784623	1	04/25/15 15:21	04/27/15 08:39	ESC
Metals (ICPMS) by Method 6020	WG783437	10	04/21/15 20:13	04/23/15 13:38	JD
Metals (ICPMS) by Method 6020	WG783437	5	04/21/15 20:13	04/23/15 12:53	JD
Polychlorinated Biphenyls (GC) by Method 8082	WG782838	1	04/17/15 15:34	04/20/15 10:42	EGR
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG782361	1	04/16/15 16:08	04/17/15 05:02	ADF
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG782361	1	04/16/15 16:08	04/17/15 17:00	KMF
Semi-Volatile Organic Compounds (GC) by Method 8015	WG782628	1	04/16/15 08:43	04/16/15 17:17	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG782393	1	04/16/15 21:05	04/16/15 21:05	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG782439	1	04/18/15 02:24	04/18/15 02:24	KLO
Wet Chemistry by Method 353.2	WG783651	1	04/24/15 12:35	04/24/15 12:35	JAL
Wet Chemistry by Method 9012B	WG783058	1	04/18/15 12:19	04/21/15 09:48	MCG
Wet Chemistry by Method 9056MOD	WG782493	1	04/20/15 19:21	04/20/15 19:21	NJM
Wet Chemistry by Method 9056MOD	WG782493	50	04/20/15 22:25	04/20/15 22:25	NJM

TEMPORARY UNIT SOUTH FIELD RD REJECT L759281-02 GW

Collected by  
Scott Ude

Collected date/time  
04/14/15 13:15

Received date/time  
04/15/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG782480	1	04/16/15 17:17	04/17/15 15:28	MF
Mercury by Method 7470A	WG782318	1	04/20/15 15:24	04/21/15 09:45	ESC
Mercury by Method 7470A	WG784623	1	04/25/15 15:21	04/27/15 08:42	ESC
Metals (ICPMS) by Method 6020	WG783437	10	04/21/15 20:13	04/23/15 13:41	JD
Metals (ICPMS) by Method 6020	WG783437	5	04/21/15 20:13	04/23/15 13:02	JD
Polychlorinated Biphenyls (GC) by Method 8082	WG782838	1	04/17/15 15:34	04/20/15 10:55	EGR
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG782361	1	04/16/15 16:08	04/17/15 05:25	ADF
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG782361	1	04/16/15 16:08	04/17/15 17:17	KMF
Semi-Volatile Organic Compounds (GC) by Method 8015	WG782628	1	04/16/15 08:43	04/16/15 17:34	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG782393	1	04/16/15 21:27	04/16/15 21:27	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG782439	1	04/18/15 02:46	04/18/15 02:46	KLO
Wet Chemistry by Method 353.2	WG783651	1	04/24/15 12:39	04/24/15 12:39	JAL
Wet Chemistry by Method 9012B	WG783058	1	04/18/15 12:19	04/21/15 09:49	MCG
Wet Chemistry by Method 9056MOD	WG782493	1	04/20/15 19:36	04/20/15 19:36	NJM
Wet Chemistry by Method 9056MOD	WG782493	50	04/20/15 22:40	04/20/15 22:40	NJM

# CASE NARRATIVE

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

*Pamela A. Langford*

Pam Langford

Pam Langford  
Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	2950000		2800	10000	1	04/17/2015 15:25	WG782480

## Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2140		20.0	100	1	04/24/2015 12:35	WG783651

## Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Cyanide	U		1.80	5.00	1	04/21/2015 09:48	WG783058

## Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	52900		52.0	1000	1	04/20/2015 19:21	WG782493
Fluoride	3610		9.90	100	1	04/20/2015 19:21	WG782493
Sulfate	1530000		3900	250000	50	04/20/2015 22:25	WG782493

## Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Mercury	U		0.0490	0.200	1	04/27/2015 08:39	WG784623
Mercury, Dissolved	U		0.0490	0.200	1	04/21/2015 09:32	WG782318

## Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Aluminum, Dissolved	16.6	J	10.0	500	5	04/23/2015 12:53	WG783437
Arsenic, Dissolved	U		1.20	10.0	5	04/23/2015 12:53	WG783437
Barium, Dissolved	69.6		1.80	25.0	5	04/23/2015 12:53	WG783437
Boron, Dissolved	116		7.50	100	5	04/23/2015 12:53	WG783437
Cadmium, Dissolved	U		0.800	5.00	5	04/23/2015 12:53	WG783437
Calcium, Dissolved	685000		460	10000	10	04/23/2015 13:38	WG783437
Chromium, Dissolved	U		2.70	10.0	5	04/23/2015 12:53	WG783437
Copper, Dissolved	88.7	J6 O1	2.60	25.0	5	04/23/2015 12:53	WG783437
Cobalt, Dissolved	U		1.30	10.0	5	04/23/2015 12:53	WG783437
Iron, Dissolved	U		75.0	500	5	04/23/2015 12:53	WG783437
Lead, Dissolved	U		1.20	10.0	5	04/23/2015 12:53	WG783437
Manganese, Dissolved	2.44	J	1.20	25.0	5	04/23/2015 12:53	WG783437
Molybdenum, Dissolved	12.1	J	0.700	25.0	5	04/23/2015 12:53	WG783437
Nickel, Dissolved	17.5	J	1.80	10.0	5	04/23/2015 12:53	WG783437
Potassium, Dissolved	5480		180	5000	5	04/23/2015 12:53	WG783437
Selenium, Dissolved	8.08	J	1.90	10.0	5	04/23/2015 12:53	WG783437
Silver, Dissolved	U		1.60	10.0	5	04/23/2015 12:53	WG783437
Sodium, Dissolved	60000	V	550	5000	5	04/23/2015 12:53	WG783437
Uranium, Dissolved	5.46	J	1.60	50.0	5	04/23/2015 12:53	WG783437
Zinc, Dissolved	16.1	J	13.0	125	5	04/23/2015 12:53	WG783437

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/16/2015 21:05	WG782393

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) o,u,o-Trifluorotoluene(FID)	91.3			62.0-128		04/18/2015 21:05	WG782393

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/18/2015 02:24	WG782439
Benzene	U		0.330	1.00	1	04/18/2015 02:24	WG782439
Bromodichloromethane	U		0.380	1.00	1	04/18/2015 02:24	WG782439
Bromoform	U	J3	0.470	1.00	1	04/18/2015 02:24	WG782439
Bromomethane	U		0.870	5.00	1	04/18/2015 02:24	WG782439
n-Butylbenzene	0.438	J	0.360	1.00	1	04/18/2015 02:24	WG782439
sec-Butylbenzene	U		0.360	1.00	1	04/18/2015 02:24	WG782439
Carbon disulfide	U		0.280	1.00	1	04/18/2015 02:24	WG782439
Carbon tetrachloride	U		0.380	1.00	1	04/18/2015 02:24	WG782439
Chlorobenzene	U		0.350	1.00	1	04/18/2015 02:24	WG782439
Chlorodibromomethane	U		0.330	1.00	1	04/18/2015 02:24	WG782439
Chloroethane	U		0.450	5.00	1	04/18/2015 02:24	WG782439
Chloroform	U		0.320	5.00	1	04/18/2015 02:24	WG782439
Chloromethane	U		0.280	2.50	1	04/18/2015 02:24	WG782439
1,2-Dibromoethane	U	J3	0.380	1.00	1	04/18/2015 02:24	WG782439
1,1-Dichloroethane	U		0.260	1.00	1	04/18/2015 02:24	WG782439
1,2-Dichloroethane	U		0.360	1.00	1	04/18/2015 02:24	WG782439
1,1-Dichloroethene	U		0.400	1.00	1	04/18/2015 02:24	WG782439
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/18/2015 02:24	WG782439
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/18/2015 02:24	WG782439
1,2-Dichloropropane	U		0.310	1.00	1	04/18/2015 02:24	WG782439
cis-1,3-Dichloropropane	U		0.420	1.00	1	04/18/2015 02:24	WG782439
trans-1,3-Dichloropropane	U		0.420	1.00	1	04/18/2015 02:24	WG782439
Ethylbenzene	U		0.380	1.00	1	04/18/2015 02:24	WG782439
Isopropylbenzene	U		0.330	1.00	1	04/18/2015 02:24	WG782439
p-Isopropyltoluene	U		0.350	1.00	1	04/18/2015 02:24	WG782439
2-Butanone (MEK)	U		3.90	10.0	1	04/18/2015 02:24	WG782439
2-Hexanone	U		3.80	10.0	1	04/18/2015 02:24	WG782439
Methylene Chloride	U		1.00	5.00	1	04/18/2015 02:24	WG782439
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/18/2015 02:24	WG782439
Methyl tert-butyl ether	U		0.370	1.00	1	04/18/2015 02:24	WG782439
Naphthalene	U		1.00	5.00	1	04/18/2015 02:24	WG782439
n-Propylbenzene	U		0.350	1.00	1	04/18/2015 02:24	WG782439
Styrene	U	J3	0.310	1.00	1	04/18/2015 02:24	WG782439
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/18/2015 02:24	WG782439
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/18/2015 02:24	WG782439
Tetrachloroethene	U		0.370	1.00	1	04/18/2015 02:24	WG782439
Toluene	U		0.780	5.00	1	04/18/2015 02:24	WG782439
1,1,1-Trichloroethane	U		0.319	1.00	1	04/18/2015 02:24	WG782439
1,1,2-Trichloroethane	U		0.380	1.00	1	04/18/2015 02:24	WG782439
Trichloroethene	U		0.400	1.00	1	04/18/2015 02:24	WG782439
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/18/2015 02:24	WG782439
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/18/2015 02:24	WG782439
Vinyl chloride	U		0.260	1.00	1	04/18/2015 02:24	WG782439
o-Xylene	U		0.340	1.00	1	04/18/2015 02:24	WG782439
m&p-Xylene	U		0.720	1.00	1	04/18/2015 02:24	WG782439
Xylenes, Total	U		1.10	3.00	1	04/18/2015 02:24	WG782439
(S) Toluene-d8	102			88.5-111		04/18/2015 02:24	WG782439
(S) Dibromodifluoromethane	94.8			78.3-121		04/18/2015 02:24	WG782439
(S) 4-Bromodifluorobenzene	104			71.0-126		04/18/2015 02:24	WG782439



## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
C10-C28 Diesel Range	U		22.0	100	1	04/16/2015 17:17	WG782628
C28-C40 Oil Range	U		12.0	100	1	04/16/2015 17:17	WG782628
(S) o-Terphenyl	115			50.0-150		04/16/2015 17:17	WG782628

## Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
PCB 1016	U		0.100	0.500	1	04/20/2015 10:42	WG782838
PCB 1221	U		0.0730	0.500	1	04/20/2015 10:42	WG782838
PCB 1232	U		0.0420	0.500	1	04/20/2015 10:42	WG782838
PCB 1242	U		0.0470	0.500	1	04/20/2015 10:42	WG782838
PCB 1248	U		0.0860	0.500	1	04/20/2015 10:42	WG782838
PCB 1254	U		0.0470	0.500	1	04/20/2015 10:42	WG782838
PCB 1260	U		0.120	0.500	1	04/20/2015 10:42	WG782838
(S) Decachlorobiphenyl	85.1			10.0-156		04/20/2015 10:42	WG782838
(S) Tetrachloro-m-xylene	82.3			13.9-137		04/20/2015 10:42	WG782838

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.320	1.00	1	04/17/2015 05:02	WG782361
Acenaphthylene	U		0.310	1.00	1	04/17/2015 05:02	WG782361
Acetophenone	U		2.70	10.0	1	04/17/2015 05:02	WG782361
Anthracene	U		0.290	1.00	1	04/17/2015 05:02	WG782361
Atrazine	U		1.50	10.0	1	04/17/2015 05:02	WG782361
Benzaldehyde	U		1.40	10.0	1	04/17/2015 05:02	WG782361
Benzo(a)anthracene	U		0.110	1.00	1	04/17/2015 05:02	WG782361
Benzo(b)fluoranthene	U		0.0900	1.00	1	04/17/2015 05:02	WG782361
Benzo(k)fluoranthene	U		0.360	1.00	1	04/17/2015 05:02	WG782361
Benzo(g,h,i)perylene	U		0.160	1.00	1	04/17/2015 05:02	WG782361
Benzo(a)pyrene	U		0.340	1.00	1	04/17/2015 05:02	WG782361
Bis(2-chloroethoxy)methane	U		0.330	10.0	1	04/17/2015 05:02	WG782361
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	04/17/2015 05:02	WG782361
Biphenyl	U		0.210	10.0	1	04/17/2015 05:02	WG782361
Bis(2-chloroethyl)ether	U		1.60	10.0	1	04/17/2015 05:02	WG782361
4-Bromophenyl-phenylether	U		0.340	10.0	1	04/17/2015 05:02	WG782361
2-Chloronaphthalene	U		0.330	1.00	1	04/17/2015 05:02	WG782361
4-Chlorophenyl-phenylether	U		0.300	10.0	1	04/17/2015 05:02	WG782361
Chrysene	U		0.330	1.00	1	04/17/2015 05:02	WG782361
Caprolactam	0.894	U	0.580	10.0	1	04/17/2015 05:02	WG782361
Carbazole	U		0.160	10.0	1	04/17/2015 05:02	WG782361
Dibenz(a,h)anthracene	U		0.280	1.00	1	04/17/2015 05:02	WG782361
3,3-Dichlorobenzidine	U		2.00	10.0	1	04/17/2015 05:02	WG782361
2,4-Dinitrotoluene	U		1.60	10.0	1	04/17/2015 05:02	WG782361
2,6-Dinitrotoluene	U		0.280	10.0	1	04/17/2015 05:02	WG782361
Fluoranthene	U		0.310	1.00	1	04/17/2015 05:02	WG782361
Fluorene	U		0.320	1.00	1	04/17/2015 05:02	WG782361
Hexachlorobenzene	U		0.340	1.00	1	04/17/2015 05:02	WG782361
Hexachloro-1,3-butadiene	U		0.330	10.0	1	04/17/2015 05:02	WG782361
Hexachlorocyclopentadiene	U		2.30	10.0	1	04/17/2015 05:02	WG782361
Hexachloroethane	U		0.360	10.0	1	04/17/2015 05:02	WG782361
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	04/17/2015 05:02	WG782361
Isophorone	U		0.270	10.0	1	04/17/2015 05:02	WG782361
Naphthalene	U		0.370	1.00	1	04/17/2015 05:02	WG782361
Nitrobenzene	U		0.370	10.0	1	04/17/2015 05:02	WG782361

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Nitrosodiphenylamine	U		0.300	10.0	1	04/17/2015 05:02	WG782361
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	04/17/2015 05:02	WG782361
Phenanthrene	U		0.370	1.00	1	04/17/2015 05:02	WG782361
Benzylbutyl phthalate	U		0.280	3.00	1	04/17/2015 05:02	WG782361
Bis(2-Ethylhexyl) phthalate	2.59	J	0.710	3.00	1	04/17/2015 05:02	WG782361
Di-n-butyl phthalate	2.33	J	0.270	3.00	1	04/17/2015 05:02	WG782361
Diethyl phthalate	U		0.280	3.00	1	04/17/2015 05:02	WG782361
Dimethyl phthalate	0.343	J	0.280	3.00	1	04/17/2015 05:02	WG782361
Di-n-octyl phthalate	0.447	J	0.280	3.00	1	04/17/2015 05:02	WG782361
Pyrene	U		0.330	1.00	1	04/17/2015 05:02	WG782361
1-Methylnaphthalene	U		0.220	1.00	1	04/17/2015 05:02	WG782361
4-Chloroaniline	U		0.380	10.0	1	04/17/2015 05:02	WG782361
4-Chloro-3-methylphenol	U		0.260	10.0	1	04/17/2015 05:02	WG782361
2-Chlorophenol	U		0.280	10.0	1	04/17/2015 05:02	WG782361
Dibenzofuran	U		0.340	10.0	1	04/17/2015 05:02	WG782361
2,4-Dichlorophenol	U		0.280	10.0	1	04/17/2015 05:02	WG782361
2,4-Dimethylphenol	U		0.620	10.0	1	04/17/2015 05:02	WG782361
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	04/17/2015 05:02	WG782361
2,4-Dinitrophenol	U		3.20	10.0	1	04/17/2015 05:02	WG782361
2-Methylnaphthalene	U		0.310	1.00	1	04/17/2015 05:02	WG782361
2-Methylphenol	U		0.310	10.0	1	04/17/2015 05:02	WG782361
3&4-Methyl Phenol	U		0.270	10.0	1	04/17/2015 05:02	WG782361
2-Nitroaniline	U		1.90	10.0	1	04/17/2015 05:02	WG782361
3-Nitroaniline	U		0.310	10.0	1	04/17/2015 05:02	WG782361
4-Nitroaniline	U		0.350	10.0	1	04/17/2015 05:02	WG782361
2-Nitrophenol	U		0.320	10.0	1	04/17/2015 05:02	WG782361
4-Nitrophenol	U		2.00	10.0	1	04/17/2015 05:02	WG782361
Pentachlorophenol	U		0.310	1.00	1	04/17/2015 05:02	WG782361
Phenol	U		0.330	10.0	1	04/17/2015 05:02	WG782361
2,4,6-Trichlorophenol	U		0.300	10.0	1	04/17/2015 05:02	WG782361
2,4,5-Trichlorophenol	U		0.240	10.0	1	04/17/2015 05:02	WG782361
1,3,5-Trinitrobenzene	U		1.30	10.0	1	04/17/2015 17:00	WG782361
(S) 2-Fluorophenol	57.8			10.0-77.9		04/17/2015 05:02	WG782361
(S) Phenol-d5	44.0			5.00-70.1		04/17/2015 05:02	WG782361
(S) Nitrobenzene-d5	74.1			21.8-123		04/17/2015 05:02	WG782361
(S) 2-Fluorobiphenyl	81.3			29.5-131		04/17/2015 05:02	WG782361
(S) 2,4,6-Tribromophenol	75.0			11.2-130		04/17/2015 05:02	WG782361
(S) p-Terphenyl-d14	77.5			29.3-137		04/17/2015 05:02	WG782361

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc





L759281

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3590000		2800	10000	1	04/17/2015 15:28	WG782480

## Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2470		20.0	100	1	04/24/2015 12:39	WG783651

## Wet Chemistry by Method 9012B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Cyanide	U		1.80	5.00	1	04/21/2015 09:49	WG783058

## Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	58900		52.0	1000	1	04/20/2015 19:36	WG782493
Fluoride	3880		9.90	100	1	04/20/2015 19:36	WG782493
Sulfate	1830000		3900	250000	50	04/20/2015 22:40	WG782493

## Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0490	0.200	1	04/27/2015 08:42	WG784623
Mercury, Dissolved	U		0.0490	0.200	1	04/21/2015 09:45	WG782318

## Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Aluminum, Dissolved	10.9	J	10.0	500	5	04/23/2015 13:02	WG783437
Arsenic, Dissolved	1.52	J	1.20	10.0	5	04/23/2015 13:02	WG783437
Barium, Dissolved	72.2		1.80	25.0	5	04/23/2015 13:02	WG783437
Boron, Dissolved	123		7.50	100	5	04/23/2015 13:02	WG783437
Cadmium, Dissolved	U		0.800	5.00	5	04/23/2015 13:02	WG783437
Calcium, Dissolved	806000		460	10000	10	04/23/2015 13:41	WG783437
Chromium, Dissolved	U		2.70	10.0	5	04/23/2015 13:02	WG783437
Copper, Dissolved	U		2.60	25.0	5	04/23/2015 13:02	WG783437
Cobalt, Dissolved	U		1.30	10.0	5	04/23/2015 13:02	WG783437
Iron, Dissolved	U		75.0	500	5	04/23/2015 13:02	WG783437
Lead, Dissolved	U		1.20	10.0	5	04/23/2015 13:02	WG783437
Manganese, Dissolved	5.10	J	1.20	25.0	5	04/23/2015 13:02	WG783437
Molybdenum, Dissolved	13.0	J	0.700	25.0	5	04/23/2015 13:02	WG783437
Nickel, Dissolved	U		1.80	10.0	5	04/23/2015 13:02	WG783437
Potassium, Dissolved	6600		180	5000	5	04/23/2015 13:02	WG783437
Selenium, Dissolved	8.82	J	1.90	10.0	5	04/23/2015 13:02	WG783437
Silver, Dissolved	U		1.60	10.0	5	04/23/2015 13:02	WG783437
Sodium, Dissolved	70300		550	5000	5	04/23/2015 13:02	WG783437
Uranium, Dissolved	6.09	J	1.60	50.0	5	04/23/2015 13:02	WG783437
Zinc, Dissolved	U		13.0	125	5	04/23/2015 13:02	WG783437

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/16/2015 21:27	WG782393

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) o,a,a-Trifluorotoluene(FID)	91.1			62.0-128		04/18/2015 21:27	WG782393

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/18/2015 02:46	WG782439
Benzene	U		0.330	1.00	1	04/18/2015 02:46	WG782439
Bromodichloromethane	U		0.380	1.00	1	04/18/2015 02:46	WG782439
Bromoform	U		0.470	1.00	1	04/18/2015 02:46	WG782439
Bromomethane	U		0.870	5.00	1	04/18/2015 02:46	WG782439
n-Butylbenzene	U		0.360	1.00	1	04/18/2015 02:46	WG782439
sec-Butylbenzene	U		0.360	1.00	1	04/18/2015 02:46	WG782439
Carbon disulfide	U		0.280	1.00	1	04/18/2015 02:46	WG782439
Carbon tetrachloride	U		0.380	1.00	1	04/18/2015 02:46	WG782439
Chlorobenzene	U		0.350	1.00	1	04/18/2015 02:46	WG782439
Chlorodibromomethane	U		0.330	1.00	1	04/18/2015 02:46	WG782439
Chloroethane	U		0.450	5.00	1	04/18/2015 02:46	WG782439
Chloroform	U		0.320	5.00	1	04/18/2015 02:46	WG782439
Chloromethane	U		0.280	2.50	1	04/18/2015 02:46	WG782439
1,2-Dibromoethane	U		0.380	1.00	1	04/18/2015 02:46	WG782439
1,1-Dichloroethane	U		0.260	1.00	1	04/18/2015 02:46	WG782439
1,2-Dichloroethane	U		0.360	1.00	1	04/18/2015 02:46	WG782439
1,1-Dichloroethene	U		0.400	1.00	1	04/18/2015 02:46	WG782439
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/18/2015 02:46	WG782439
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/18/2015 02:46	WG782439
1,2-Dichloropropane	U		0.310	1.00	1	04/18/2015 02:46	WG782439
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/18/2015 02:46	WG782439
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/18/2015 02:46	WG782439
Ethylbenzene	U		0.380	1.00	1	04/18/2015 02:46	WG782439
Isopropylbenzene	U		0.330	1.00	1	04/18/2015 02:46	WG782439
p-Isopropyltoluene	U		0.350	1.00	1	04/18/2015 02:46	WG782439
2-Butanone (MEK)	U		3.90	10.0	1	04/18/2015 02:46	WG782439
2-Hexanone	U		3.80	10.0	1	04/18/2015 02:46	WG782439
Methylene Chloride	U		1.00	5.00	1	04/18/2015 02:46	WG782439
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/18/2015 02:46	WG782439
Methyl tert-butyl ether	U		0.370	1.00	1	04/18/2015 02:46	WG782439
Naphthalene	U		1.00	5.00	1	04/18/2015 02:46	WG782439
n-Propylbenzene	U		0.350	1.00	1	04/18/2015 02:46	WG782439
Styrene	U		0.310	1.00	1	04/18/2015 02:46	WG782439
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/18/2015 02:46	WG782439
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/18/2015 02:46	WG782439
Tetrachloroethene	U		0.370	1.00	1	04/18/2015 02:46	WG782439
Toluene	U		0.780	5.00	1	04/18/2015 02:46	WG782439
1,1,1-Trichloroethane	U		0.319	1.00	1	04/18/2015 02:46	WG782439
1,1,2-Trichloroethane	U		0.380	1.00	1	04/18/2015 02:46	WG782439
Trichloroethene	U		0.400	1.00	1	04/18/2015 02:46	WG782439
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/18/2015 02:46	WG782439
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/18/2015 02:46	WG782439
Vinyl chloride	U		0.260	1.00	1	04/18/2015 02:46	WG782439
o-Xylene	U		0.340	1.00	1	04/18/2015 02:46	WG782439
m&p-Xylene	U		0.720	1.00	1	04/18/2015 02:46	WG782439
Xylenes, Total	U		1.10	3.00	1	04/18/2015 02:46	WG782439
(S) Toluene-d8	103			88.5-111		04/18/2015 02:46	WG782439
(S) Dibromofluoromethane	93.2			78.3-121		04/18/2015 02:46	WG782439
(S) 4-Bromofluorobenzene	106			71.0-126		04/18/2015 02:46	WG782439



## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		22.0	100	1	04/16/2015 17:34	WG782628
C28-C40 Oil Range	U		12.0	100	1	04/16/2015 17:34	WG782628
(S) o-Terphenyl	116			50.0-150		04/16/2015 17:34	WG782628

## Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
PCB 1016	U		0.100	0.500	1	04/20/2015 10:55	WG782838
PCB 1221	U		0.0730	0.500	1	04/20/2015 10:55	WG782838
PCB 1232	U		0.0420	0.500	1	04/20/2015 10:55	WG782838
PCB 1242	U		0.0470	0.500	1	04/20/2015 10:55	WG782838
PCB 1248	U		0.0860	0.500	1	04/20/2015 10:55	WG782838
PCB 1254	U		0.0470	0.500	1	04/20/2015 10:55	WG782838
PCB 1260	U		0.120	0.500	1	04/20/2015 10:55	WG782838
(S) Decachlorobiphenyl	85.8			10.0-156		04/20/2015 10:55	WG782838
(S) Tetrachloro-m-xylene	85.6			13.9-137		04/20/2015 10:55	WG782838

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.320	1.00	1	04/17/2015 05:25	WG782361
Acenaphthylene	U		0.310	1.00	1	04/17/2015 05:25	WG782361
Acetophenone	U		2.70	10.0	1	04/17/2015 05:25	WG782361
Anthracene	U		0.290	1.00	1	04/17/2015 05:25	WG782361
Atrazine	U		1.50	10.0	1	04/17/2015 05:25	WG782361
Benzaldehyde	U		1.40	10.0	1	04/17/2015 05:25	WG782361
Benzo(a)anthracene	U		0.110	1.00	1	04/17/2015 05:25	WG782361
Benzo(b)fluoranthene	U		0.0900	1.00	1	04/17/2015 05:25	WG782361
Benzo(k)fluoranthene	U		0.360	1.00	1	04/17/2015 05:25	WG782361
Benzo(g,h,i)perylene	U		0.160	1.00	1	04/17/2015 05:25	WG782361
Benzo(a)pyrene	U		0.340	1.00	1	04/17/2015 05:25	WG782361
Bis(2-chloroethoxy)methane	U		0.330	10.0	1	04/17/2015 05:25	WG782361
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	04/17/2015 05:25	WG782361
Biphenyl	U		0.210	10.0	1	04/17/2015 05:25	WG782361
Bis(2-chloroethyl)ether	U		1.60	10.0	1	04/17/2015 05:25	WG782361
4-Bromophenyl-phenylether	U		0.310	10.0	1	04/17/2015 05:25	WG782361
2-Chloronaphthalene	U		0.330	1.00	1	04/17/2015 05:25	WG782361
4-Chlorophenyl-phenylether	U		0.300	10.0	1	04/17/2015 05:25	WG782361
Chrysene	U		0.330	1.00	1	04/17/2015 05:25	WG782361
Caprolactam	U		0.580	10.0	1	04/17/2015 05:25	WG782361
Carbazole	U		0.160	10.0	1	04/17/2015 05:25	WG782361
Dibenz(a,h)anthracene	U		0.280	1.00	1	04/17/2015 05:25	WG782361
3,3-Dichlorobenzidine	U		2.00	10.0	1	04/17/2015 05:25	WG782361
2,4-Dinitrotoluene	U		1.60	10.0	1	04/17/2015 05:25	WG782361
2,6-Dinitrotoluene	U		0.280	10.0	1	04/17/2015 05:25	WG782361
Fluoranthene	U		0.310	1.00	1	04/17/2015 05:25	WG782361
Fluorene	U		0.320	1.00	1	04/17/2015 05:25	WG782361
Hexachlorobenzene	U		0.340	1.00	1	04/17/2015 05:25	WG782361
Hexachloro-1,3-butadiene	U		0.330	10.0	1	04/17/2015 05:25	WG782361
Hexachlorocyclopentadiene	U		2.30	10.0	1	04/17/2015 05:25	WG782361
Hexachloroethane	U		0.360	10.0	1	04/17/2015 05:25	WG782361
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	04/17/2015 05:25	WG782361
Isophorone	U		0.270	10.0	1	04/17/2015 05:25	WG782361
Naphthalene	U		0.370	1.00	1	04/17/2015 05:25	WG782361
Nitrobenzene	U		0.370	10.0	1	04/17/2015 05:25	WG782361

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Nitrosodiphenylamine	U		0.300	10.0	1	04/17/2015 05:25	WG782361
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	04/17/2015 05:25	WG782361
Phenanthrene	U		0.370	1.00	1	04/17/2015 05:25	WG782361
Benzylbutyl phthalate	U		0.280	3.00	1	04/17/2015 05:25	WG782361
Bis(2-Ethylhexyl)phthalate	1.60	U	0.710	3.00	1	04/17/2015 05:25	WG782361
Di-n-butyl phthalate	1.19	U	0.270	3.00	1	04/17/2015 05:25	WG782361
Diethyl phthalate	U		0.280	3.00	1	04/17/2015 05:25	WG782361
Dimethyl phthalate	U		0.280	3.00	1	04/17/2015 05:25	WG782361
Di-n-octyl phthalate	0.484	U	0.280	3.00	1	04/17/2015 05:25	WG782361
Pyrene	U		0.330	1.00	1	04/17/2015 05:25	WG782361
1-Methylnaphthalene	U		0.220	1.00	1	04/17/2015 05:25	WG782361
4-Chloroaniline	U		0.380	10.0	1	04/17/2015 05:25	WG782361
4-Chloro-3-methylphenol	U		0.260	10.0	1	04/17/2015 05:25	WG782361
2-Chlorophenol	U		0.280	10.0	1	04/17/2015 05:25	WG782361
Dibenzofuran	U		0.340	10.0	1	04/17/2015 05:25	WG782361
2,4-Dichlorophenol	U		0.280	10.0	1	04/17/2015 05:25	WG782361
2,4-Dimethylphenol	U		0.620	10.0	1	04/17/2015 05:25	WG782361
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	04/17/2015 05:25	WG782361
2,4-Dinitrophenol	U		3.20	10.0	1	04/17/2015 05:25	WG782361
2-Methylnaphthalene	U		0.310	1.00	1	04/17/2015 05:25	WG782361
2-Methylphenol	U		0.310	10.0	1	04/17/2015 05:25	WG782361
3&4-Methyl Phenol	U		0.270	10.0	1	04/17/2015 05:25	WG782361
2-Nitroaniline	U		1.90	10.0	1	04/17/2015 05:25	WG782361
3-Nitroaniline	U		0.310	10.0	1	04/17/2015 05:25	WG782361
4-Nitroaniline	U		0.350	10.0	1	04/17/2015 05:25	WG782361
2-Nitrophenol	U		0.320	10.0	1	04/17/2015 05:25	WG782361
4-Nitrophenol	U		2.00	10.0	1	04/17/2015 05:25	WG782361
Pentachlorophenol	U		0.310	1.00	1	04/17/2015 05:25	WG782361
Phenol	U		0.330	10.0	1	04/17/2015 05:25	WG782361
2,4,6-Trichlorophenol	U		0.300	10.0	1	04/17/2015 05:25	WG782361
2,4,5-Trichlorophenol	U		0.240	10.0	1	04/17/2015 05:25	WG782361
1,3,5-Trinitrobenzene	U		1.30	10.0	1	04/17/2015 17:17	WG782361
(S) 2-Fluorophenol	58.6			10.0-77.9		04/17/2015 05:25	WG782361
(S) Phenol-d5	42.8			5.00-70.1		04/17/2015 05:25	WG782361
(S) Nitrobenzene-d5	74.8			21.8-123		04/17/2015 05:25	WG782361
(S) 2-Fluorobiphenyl	91.3			29.5-131		04/17/2015 05:25	WG782361
(S) 2,4,6-Trifluorophenol	78.5			11.2-130		04/17/2015 05:25	WG782361
(S) p-Terphenyl-d14	78.1			29.3-137		04/17/2015 05:25	WG782361

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG782480

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Gravimetric Analysis by Method 2540 C-2011

L759281-01.02

## Method Blank (MB)

(MB) 04/17/15 15:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

## L759238-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/17/15 15:24 • (DUP) 04/17/15 15:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	425	428	1	0.703		5

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/17/15 15:29 • (LCSD) 04/17/15 15:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8540	8520	97.0	96.8	85.0-115			0.234	5

Cp

Tc

Ss

Cn

Sr

Cc

Gl

Al

Sc

WG783651

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Wet Chemistry by Method 353.2

L759281-01.02

## Method Blank (MB)

(MB) 04/24/15 12:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0197	0.100

## L759360-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/24/15 12:56 • (DUP) 04/24/15 12:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.61	0.61	1	0.00		20

## L759184-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/24/15 12:33 • (DUP) 04/24/15 12:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	ND	ND	1	0.00		20

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/24/15 12:29 • (LCSD) 04/24/15 12:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	4.95	5.03	99.0	101	90.0-110			1.60	20

## L759281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 12:35 • (MS) 04/24/15 12:36 • (MSD) 04/24/15 12:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	2.14	7.36	7.39	105	106	1	90.0-110			0.407	20

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WG783058

Wet Chemistry by Method 9012B

## QUALITY CONTROL SUMMARY

L759281-01.02

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) 04/21/15 09:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Cyanide	U		0.00180	0.00500

## L759459-02 Original Sample (OS) • Duplicate (DUP)

(OS) 04/21/15 09:58 • (DUP) 04/21/15 09:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Cyanide	ND	ND	1	0.00		20

## L759253-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/21/15 09:38 • (DUP) 04/21/15 09:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Cyanide	ND	ND	1	0.00		20

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/21/15 09:34 • (LCSD) 04/21/15 09:35

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.109	0.105	109	105	90.0-110			3.74	20

## L759253-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/21/15 09:41 • (MS) 04/21/15 09:42 • (MSD) 04/21/15 09:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.200	0.000200	0.179	0.183	89.5	91.5	1	90.0-110	J6		2.21	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG782493

Wet Chemistry by Method 9056MOD

## QUALITY CONTROL SUMMARY

L759281-01.02

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) 04/20/15 12:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

## L759295-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/20/15 13:44 • (DUP) 04/20/15 13:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7.82	7.83	1	0		20
Fluoride	0.591	0.590	1	0		20
Sulfate	22.8	22.9	1	0		20

## L759156-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/20/15 20:07 • (DUP) 04/20/15 20:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.96	3.04	1	3		20
Fluoride	0.234	0.234	1	0		20
Sulfate	13.5	13.6	1	0		20

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/20/15 12:42 • (LCSD) 04/20/15 12:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.1	39.9	100	100	90-110			1	20
Fluoride	8.00	8.10	8.02	101	100	90-110			1	20
Sulfate	40.0	40.1	39.7	100	99	90-110			1	20

## L759081-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/20/15 16:18 • (MS) 04/20/15 16:33 • (MSD) 04/20/15 16:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.09	49.8	51.8	97	101	1	80-120			4	20

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE



Wet Chemistry by Method 9055MOD

L759281-01.02

L759081-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/20/15 16:18 • (MS) 04/20/15 16:33 • (MSD) 04/20/15 16:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	1.76	6.42	6.61	93	97	1	80-120			3	20
Sulfate	50.0	53.2	99.0	101	92	95	1	80-120			2	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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WG782318

Mercury by Method 7470A

## QUALITY CONTROL SUMMARY

L759281-01.02

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) 04/21/15 09:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/21/15 09:27 • (LCSD) 04/21/15 09:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	0.00305	0.00313	102	104	80-120			3	20

## L759281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/21/15 09:32 • (MS) 04/21/15 09:35 • (MSD) 04/21/15 09:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	ND	0.00315	0.00311	105	104	1	75-125			1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG784623

Mercury by Method 2470A

## QUALITY CONTROL SUMMARY

L759281-01.02

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) 04/27/15 08:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000049	0.000200

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/27/15 08:28 • (LCSD) 04/27/15 08:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00297	0.00287	99	96	80-120			3	20

## L760902-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/27/15 08:33 • (MS) 04/27/15 08:35 • (MSD) 04/27/15 08:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00290	0.00282	97	94	1	75-125			3	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG783437

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Metals (ICPMS) by Method 6020

L759281-01.02

## Method Blank (MB)

(MB) 04/23/15 12:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	0.00723		0.002	0.100
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Calcium,Dissolved	0.119		0.046	1.00
Chromium,Dissolved	U		0.00054	0.00200
Copper,Dissolved	U		0.00052	0.00500
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.000705		0.00025	0.00500
Molybdenum,Dissolved	U		0.00014	0.00500
Nickel,Dissolved	0.000423		0.00035	0.00200
Potassium,Dissolved	0.164		0.037	1.00
Selenium,Dissolved	U		0.00038	0.00200
Silver,Dissolved	U		0.00031	0.00200
Sodium,Dissolved	U		0.11	1.00
Uranium,Dissolved	U		0.00033	0.0100
Zinc,Dissolved	U		0.00256	0.0250

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/23/15 12:49 • (LCSD) 04/23/15 12:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum,Dissolved	5.00	4.91	4.95	98	99	80-120			1	20
Arsenic,Dissolved	0.0500	0.0548	0.0532	110	106	80-120			3	20
Barium,Dissolved	0.0500	0.0479	0.0499	96	100	80-120			4	20
Boron,Dissolved	0.0500	0.0449	0.0493	90	99	80-120			9	20
Cadmium,Dissolved	0.0500	0.0528	0.0515	106	103	80-120			3	20
Calcium,Dissolved	5.00	5.03	4.89	101	98	80-120			3	20
Chromium,Dissolved	0.0500	0.0494	0.0484	99	97	80-120			2	20
Copper,Dissolved	0.0500	0.0522	0.0505	104	101	80-120			3	20
Cobalt,Dissolved	0.0500	0.0509	0.0499	102	100	80-120			2	20
Iron,Dissolved	5.00	4.81	4.68	96	94	80-120			3	20
Lead,Dissolved	0.0500	0.0503	0.0505	101	101	80-120			0	20
Manganese,Dissolved	0.0500	0.0493	0.0488	99	98	80-120			1	20

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Metals (ICPMS) by Method 6020

L759281-01.02

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/23/15 12:49 • (LCSD) 04/23/15 12:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Molybdenum, Dissolved	0.0500	0.0499	0.0494	100	99	80-120			1	20
Nickel, Dissolved	0.0500	0.0506	0.0486	101	97	80-120			4	20
Potassium, Dissolved	5.00	5.12	5.20	102	104	80-120			2	20
Selenium, Dissolved	0.0500	0.0513	0.0536	103	107	80-120			4	20
Silver, Dissolved	0.0500	0.0532	0.0524	106	105	80-120			2	20
Sodium, Dissolved	5.00	5.15	5.24	103	105	80-120			2	20
Uranium, Dissolved	0.0500	0.0489	0.0490	98	98	80-120			0	20
Zinc, Dissolved	0.0500	0.0495	0.0472	99	94	80-120			5	20

## L759281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 13:38 • (MS) 04/23/15 12:58 • (MSD) 04/23/15 13:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum, Dissolved	1.00	0.0166	5.42	5.65	108	113	5	75-125			4	20
Arsenic, Dissolved	0.0100	0.00104	0.0603	0.0628	119	124	5	75-125			4	20
Barium, Dissolved	0.0100	0.0696	0.125	0.121	111	102	5	75-125			4	20
Boron, Dissolved	0.0100	0.116	0.158	0.173	85	113	5	75-125			8	20
Cadmium, Dissolved	0.0100	0.000186	0.0563	0.0596	112	119	5	75-125			6	20
Calcium, Dissolved	1.00	685	706	726	146	535	5	75-125	<u>V</u>	<u>V</u>	3	20
Chromium, Dissolved	0.0100	ND	0.0516	0.0540	103	108	5	75-125			5	20
Copper, Dissolved	0.0100	0.0887	0.0570	0.0586	0	0	5	75-125	<u>J6</u>	<u>J6</u>	3	20
Cobalt, Dissolved	0.0100	ND	0.0544	0.0569	109	114	5	75-125			5	20
Potassium, Dissolved	1.00	5.48	10.9	11.2	109	114	5	75-125			2	20
Iron, Dissolved	1.00	0.0581	5.34	5.54	106	110	5	75-125			4	20
Lead, Dissolved	0.0100	0.000124	0.0538	0.0545	107	109	5	75-125			1	20
Manganese, Dissolved	0.0100	0.00244	0.0541	0.0579	103	111	5	75-125			7	20
Molybdenum, Dissolved	0.0100	0.0121	0.0870	0.0889	110	114	5	75-125			3	20
Nickel, Dissolved	0.0100	0.0175	0.0560	0.0577	77	80	5	75-125			3	20
Selenium, Dissolved	0.0100	0.00808	0.0630	0.0661	110	116	5	75-125			5	20
Silver, Dissolved	0.0100	0.000273	0.0569	0.0586	113	117	5	75-125			3	20
Sodium, Dissolved	1.00	60.0	67.5	68.7	151	175	5	75-125	<u>V</u>	<u>V</u>	2	20
Uranium, Dissolved	0.0100	0.00546	0.0598	0.0614	109	112	5	75-125			3	20
Zinc, Dissolved	0.0100	0.0161	0.0728	0.0720	114	112	5	75-125			1	20

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC) by Method 8015D/GRO

L759281-01.02

## Method Blank (MB)

(MB) 04/16/15 13:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	91.1			62.0-128

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/16/15 10:57 • (LCSD) 04/16/15 11:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.02	5.13	91.3	93.2	67.0-132			2.00	20
(S) <i>o,o,o</i> -Trifluorotoluene(FID)				98.0	98.3	62.0-128				

## L757731-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/16/15 13:53 • (MS) 04/16/15 12:08 • (MSD) 04/16/15 12:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	5.13	5.44	93.3	98.9	1	50.0-143			5.84	20
(S) <i>o,o,o</i> -Trifluorotoluene(FID)					98.5	98.9		62.0-128				



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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260B

L759281-01.02

## Method Blank (MB)

(MB) 04/17/15 22:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	0.000383		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

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Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG782439

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260B

L759281-01.02

## Method Blank (MB)

(MB) 04/17/15 22:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	103			88.5-111
(S) Dibromofluoromethane	97.4			78.3-121
(S) 4-Bromofluorobenzene	102			71.0-126

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/17/15 21:07 • (LCSD) 04/17/15 21:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.116	0.114	92.5	91.0	35.6-163			1.60	23.9
Benzene	0.0250	0.0222	0.0246	88.7	98.4	74.8-121			10.3	20
Bromodichloromethane	0.0250	0.0223	0.0246	89.3	98.3	75.1-116			9.62	20
Bromoform	0.0250	0.0232	0.0247	93.0	98.6	67.5-130			5.87	20
Bromomethane	0.0250	0.0242	0.0274	96.9	109	49.9-162			12.2	20
n-Butylbenzene	0.0250	0.0242	0.0263	97.0	105	76.2-126			7.95	20
sec-Butylbenzene	0.0250	0.0237	0.0261	95.0	105	74.4-127			9.58	20
Carbon disulfide	0.0250	0.0232	0.0258	92.9	103	64.6-140			10.5	20
Carbon tetrachloride	0.0250	0.0196	0.0224	78.2	89.7	70.2-123			13.7	20
Chlorobenzene	0.0250	0.0236	0.0261	94.6	104	78.1-119			9.95	20
Chlorodibromomethane	0.0250	0.0223	0.0240	89.3	96.0	74.0-121			7.20	20
Chloroethane	0.0250	0.0223	0.0249	89.1	99.7	61.7-135			11.2	20
Chloroform	0.0250	0.0222	0.0244	88.8	97.6	76.0-121			9.46	20
Chloromethane	0.0250	0.0219	0.0240	87.5	95.9	61.5-129			9.19	20
1,2-Dibromoethane	0.0250	0.0229	0.0243	91.7	97.1	76.6-121			5.71	20
1,1-Dichloroethane	0.0250	0.0230	0.0255	91.8	102	70.7-126			10.5	20
1,2-Dichloroethane	0.0250	0.0219	0.0230	87.4	92.0	68.8-124			5.13	20
1,1-Dichloroethene	0.0250	0.0236	0.0267	94.3	107	67.8-129			12.6	20
cis-1,2-Dichloroethene	0.0250	0.0227	0.0248	90.8	99.2	76.0-119			8.85	20
trans-1,2-Dichloroethene	0.0250	0.0235	0.0259	94.2	104	72.6-121			9.57	20
1,2-Dichloropropane	0.0250	0.0231	0.0252	92.4	101	76.5-119			8.62	20

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260B

L759281-01.02

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/17/15 21:07 • (LCSD) 04/17/15 21:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,3-Dichloropropene	0.0250	0.0225	0.0243	90.2	97.4	78.2-120			7.67	20
trans-1,3-Dichloropropene	0.0250	0.0212	0.0228	84.6	91.0	74.3-123			7.23	20
Ethylbenzene	0.0250	0.0239	0.0269	95.6	108	78.8-122			11.8	20
2-Hexanone	0.125	0.116	0.113	92.9	90.0	65.6-144			3.08	20
Isopropylbenzene	0.0250	0.0237	0.0265	95.0	106	78.6-132			11.1	20
p-Isopropyltoluene	0.0250	0.0236	0.0263	94.3	105	74.0-131			10.9	20
2-Butanone (MEK)	0.125	0.103	0.104	82.2	83.6	55.0-149			1.71	20
Methylene Chloride	0.0250	0.0225	0.0240	89.9	95.9	70.3-120			6.45	20
4-Methyl-2-pentanone (MIBK)	0.125	0.114	0.116	91.4	92.6	70.5-133			1.31	20
Methyl tert-butyl ether	0.0250	0.0218	0.0227	87.4	91.0	71.2-126			4.03	20
Naphthalene	0.0250	0.0225	0.0239	90.0	95.7	68.4-128			6.17	20
n-Propylbenzene	0.0250	0.0236	0.0264	94.6	105	78.2-122			10.9	20
Styrene	0.0250	0.0240	0.0263	95.8	105	80.4-126			9.30	20
1,1,1,2-Tetrachloroethane	0.0250	0.0234	0.0257	93.6	103	74.2-124			9.14	20
1,1,2,2-Tetrachloroethane	0.0250	0.0224	0.0240	89.7	95.9	70.7-122			6.64	20
Tetrachloroethene	0.0250	0.0247	0.0278	99.0	111	72.6-126			11.8	20
Toluene	0.0250	0.0232	0.0252	92.7	101	79.7-116			8.22	20
1,1,1-Trichloroethane	0.0250	0.0229	0.0258	91.6	103	73.2-123			11.7	20
1,1,2-Trichloroethane	0.0250	0.0232	0.0242	92.9	96.7	77.7-118			3.98	20
Trichloroethene	0.0250	0.0244	0.0273	97.4	109	77.7-118			11.3	20
1,2,4-Trimethylbenzene	0.0250	0.0233	0.0258	93.4	103	75.0-123			10.2	20
1,3,5-Trimethylbenzene	0.0250	0.0237	0.0261	94.9	104	75.6-124			9.42	20
Vinyl chloride	0.0250	0.0240	0.0267	96.0	107	65.9-128			10.8	20
Xylenes, Total	0.0750	0.0717	0.0795	95.6	106	78.7-121			10.4	20
o-Xylene	0.0250	0.0237	0.0263	94.9	105	77.6-122			10.2	20
m&p-Xylenes	0.0500	0.0480	0.0532	95.9	106	78.8-121			10.4	20
(S) Toluene-d8				102	103	88.5-111				
(S) Dibromofluoromethane				95.8	95.4	78.3-121				
(S) 4-Bromofluorobenzene				102	101	71.0-126				

## L759281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/18/15 02:24 • (MS) 04/17/15 22:58 • (MSD) 04/17/15 23:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00244	0.0782	0.0873	60.6	67.9	1	10.0-130			11.0	27.9
Benzene	0.0250	ND	0.0191	0.0221	76.3	88.3	1	54.3-133			14.6	20
Bromodichloromethane	0.0250	ND	0.0193	0.0231	77.2	92.3	1	63.9-121			17.8	20

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260B

L759281-01.02

L759281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/18/15 02:24 • (MS) 04/17/15 22:58 • (MSD) 04/17/15 23:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromoform	0.0250	ND	0.0190	0.0235	75.9	93.9	1	59.5-134		J3	21.3	20.5
Bromomethane	0.0250	ND	0.0209	0.0244	83.8	97.7	1	41.7-155			15.3	21.9
n-Butylbenzene	0.0250	0.000438	0.0182	0.0220	70.9	86.2	1	62.7-140			19.1	20.3
sec-Butylbenzene	0.0250	ND	0.0189	0.0223	75.5	89.2	1	62.2-136			16.7	20.3
Carbon disulfide	0.0250	ND	0.0188	0.0217	75.3	86.8	1	43.3-149			14.2	20.3
Carbon tetrachloride	0.0250	ND	0.0164	0.0185	65.6	74.0	1	55.7-134			12.0	20
Chlorobenzene	0.0250	ND	0.0196	0.0237	78.4	94.9	1	67.0-125			19.0	20
Chlorodibromomethane	0.0250	ND	0.0189	0.0231	75.4	92.5	1	64.3-125			20.4	20.8
Chloroethane	0.0250	ND	0.0192	0.0213	76.7	85.2	1	51.5-136			10.5	40
Chloroform	0.0250	ND	0.0194	0.0223	77.7	89.2	1	63.0-129			13.7	20
Chloromethane	0.0250	ND	0.0184	0.0211	73.4	84.3	1	42.4-135			13.8	20
1,2-Dibromoethane	0.0250	ND	0.0187	0.0233	74.9	93.1	1	67.1-125		J3	21.6	20
1,1-Dichloroethane	0.0250	ND	0.0197	0.0228	78.8	91.4	1	58.5-132			14.8	20
1,2-Dichloroethane	0.0250	ND	0.0188	0.0219	75.4	87.5	1	60.0-126			14.9	20
1,1-Dichloroethene	0.0250	ND	0.0196	0.0227	78.6	90.7	1	51.1-140			14.4	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0193	0.0223	77.3	89.3	1	59.2-129			14.4	20
trans-1,2-Dichloroethene	0.0250	ND	0.0196	0.0226	78.3	90.6	1	56.5-129			14.6	20
1,2-Dichloropropane	0.0250	ND	0.0199	0.0231	79.7	92.6	1	64.2-123			14.9	20
cis-1,3-Dichloropropene	0.0250	ND	0.0195	0.0228	78.1	91.3	1	66.4-125			15.6	20
trans-1,3-Dichloropropene	0.0250	ND	0.0175	0.0208	69.8	83.4	1	64.1-128			17.7	20
Ethylbenzene	0.0250	ND	0.0200	0.0235	80.0	94.1	1	61.4-133			16.2	20
2-Hexanone	0.125	ND	0.0862	0.104	69.0	83.2	1	43.3-137			18.7	25.5
Isopropylbenzene	0.0250	ND	0.0192	0.0228	76.7	91.2	1	66.8-141			17.4	20
p-Isopropyltoluene	0.0250	ND	0.0187	0.0223	74.6	89.2	1	63.2-139			17.9	20.4
2-Butanone (MEK)	0.125	ND	0.0774	0.0909	61.9	72.7	1	22.4-138			16.0	27
Methylene Chloride	0.0250	ND	0.0193	0.0225	77.4	89.9	1	58.1-122			15.0	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.0909	0.106	72.7	85.1	1	60.8-140			15.7	25.1
Methyl tert-butyl ether	0.0250	ND	0.0191	0.0224	76.2	89.8	1	57.7-134			16.4	20
Naphthalene	0.0250	0.000609	0.0170	0.0219	65.5	85.2	1	58.0-135			25.4	25.5
n-Propylbenzene	0.0250	ND	0.0189	0.0227	75.7	90.9	1	65.9-131			18.2	20
Styrene	0.0250	ND	0.0198	0.0244	79.3	97.5	1	66.8-133		J3	20.5	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0201	0.0239	80.3	95.8	1	64.0-128			17.6	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0192	0.0230	77.0	91.9	1	56.0-132			17.6	22.2
Tetrachloroethene	0.0250	ND	0.0204	0.0237	81.6	94.8	1	53.0-139			14.9	20
Toluene	0.0250	ND	0.0193	0.0226	77.3	90.2	1	61.4-130			15.5	20
1,1,1-Trichloroethane	0.0250	ND	0.0192	0.0217	76.8	87.0	1	58.7-134			12.5	20
1,1,2-Trichloroethane	0.0250	ND	0.0195	0.0230	78.0	92.1	1	66.3-125			16.6	20
Trichloroethene	0.0250	ND	0.0202	0.0228	80.7	91.4	1	44.1-149			12.4	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0189	0.0230	75.6	92.1	1	57.4-137			19.7	20

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1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG782439

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Volatile Organic Compounds (GC/MS) by Method 8260B

L759281-01.02

L759281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/18/15 02:24 • (MS) 04/17/15 22:58 • (MSD) 04/17/15 23:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,3,5-Trimethylbenzene	0.0250	ND	0.0193	0.0231	77.3	92.4	1	63.6-132			17.7	20.5
Vinyl chloride	0.0250	ND	0.0198	0.0224	79.4	89.7	1	47.8-137			12.2	20
Xylenes, Total	0.0750	ND	0.0595	0.0708	79.4	94.4	1	63.3-131			17.3	20
o-Xylene	0.0250	ND	0.0198	0.0238	79.1	95.1	1	63.3-130			18.4	20
m&p-Xylenes	0.0500	ND	0.0398	0.0470	79.5	94.0	1	61.7-133			16.7	20
(S) Toluene-d8					103	103		88.5-111				
(S) Dibromofluoromethane					95.3	95.7		78.3-121				
(S) 4-Bromofluorobenzene					102	103		71.0-126				

WG782628

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

L759281-01.02

## Method Blank (MB)

(MB) 04/16/15 16:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C40 Oil Range	U		0.0118	0.100
(S) o-Terphenyl	112			50.0-150

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/16/15 16:42 • (LCSD) 04/16/15 16:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	150	133	134	88.9	89.6	70.0-130			0.780	20
(S) o-Terphenyl				60.0	65.9	50.0-150				

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc



WG782838

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Polychlorinated Biphenyls (GC) by Method 8082

L759281-01.02

## Method Blank (MB)

(MB) 04/20/15 10:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1260	U		0.000120	0.000500
PCB 1016	U		0.000100	0.000500
PCB 1221	U		0.0000730	0.000500
PCB 1232	U		0.0000420	0.000500
PCB 1242	U		0.0000470	0.000500
PCB 1248	U		0.0000860	0.000500
PCB 1254	U		0.0000470	0.000500
(S) Decachlorobiphenyl	71.2		10.0-156	
(S) Tetrachloro-m-xylene	79.7		13.9-137	

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/20/15 10:17 • (LCSD) 04/20/15 10:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.00250	0.00243	0.00238	97.0	95.1	47.7-149			2.00	28.8
PCB 1016	0.00250	0.00214	0.00213	85.7	85.3	24.7-128			0.460	34.9
(S) Decachlorobiphenyl				91.8	87.0	10.0-156				
(S) Tetrachloro-m-xylene				80.3	82.3	13.9-137				

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L759281-01.02

## Method Blank (MB)

(MB) 04/16/15 23:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.000316	0.00100
Acenaphthylene	U		0.000309	0.00100
Acetophenone	U		0.00271	0.0100
Anthracene	U		0.000291	0.00100
Atrazine	U		0.00153	0.0100
Benzaldehyde	U		0.00140	0.0100
Benzo(a)anthracene	U		0.000111	0.00100
Benzo(b)fluoranthene	U		0.0000896	0.00100
Benzo(k)fluoranthene	U		0.000355	0.00100
Benzo(g,h,i)perylene	U		0.000161	0.00100
Benzo(a)pyrene	U		0.000340	0.00100
Biphenyl	U		0.000206	0.0100
Bis(2-chloroethoxy)methane	U		0.000329	0.0100
Bis(2-chloroethyl)ether	U		0.00162	0.0100
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100
4-Bromophenyl-phenylether	U		0.000335	0.0100
Caprolactam	U		0.000583	0.0100
Carbazole	U		0.000162	0.0100
4-Chloroaniline	U		0.000382	0.0100
2-Chloronaphthalene	U		0.000330	0.00100
4-Chlorophenyl-phenylether	U		0.000303	0.0100
Chrysene	U		0.000332	0.00100
Dibenz(a,h)anthracene	U		0.000279	0.00100
Dibenzofuran	U		0.000338	0.0100
3,3-Dichlorobenzidine	U		0.00202	0.0100
2,4-Dinitrotoluene	U		0.00165	0.0100
2,6-Dinitrotoluene	U		0.000279	0.0100
Fluoranthene	U		0.000310	0.00100
Fluorene	U		0.000323	0.00100
Hexachlorobenzene	U		0.000341	0.00100
Hexachloro-1,3-butadiene	U		0.000329	0.0100
Hexachlorocyclopentadiene	U		0.00233	0.0100
Hexachloroethane	U		0.000365	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000272	0.0100
1-Methylnaphthalene	U		0.000217	0.00100
2-Methylnaphthalene	U		0.000311	0.00100
Naphthalene	U		0.000372	0.00100
2-Nitroaniline	U		0.00190	0.0100

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Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L759281-01.02

## Method Blank (MB)

(MB) 04/16/15 23:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
3-Nitroaniline	U		0.000308	0.0100
4-Nitroaniline	U		0.000349	0.0100
Nitrobenzene	U		0.000367	0.0100
n-Nitrosodiphenylamine	U		0.000304	0.0100
n-Nitrosod-n-propylamine	U		0.000403	0.0100
Phenanthrene	U		0.000366	0.00100
Benzylbutyl phthalate	U		0.000275	0.00300
Bis(2-ethylhexyl)phthalate	0.00173		0.000709	0.00300
Di-n-butyl phthalate	0.000410		0.000266	0.00300
Diethyl phthalate	U		0.000282	0.00300
Dimethyl phthalate	U		0.000283	0.00300
Di-n-octyl phthalate	0.000388		0.000278	0.00300
Pyrene	U		0.000330	0.00100
4-Chloro-3-methylphenol	U		0.000263	0.0100
2-Chlorophenol	U		0.000283	0.0100
2-Methylphenol	U		0.000312	0.0100
3&4-Methyl Phenol	U		0.000266	0.0100
2,4-Dichlorophenol	U		0.000284	0.0100
2,4-Dimethylphenol	U		0.000624	0.0100
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100
2,4-Dinitrophenol	U		0.00325	0.0100
2-Nitrophenol	U		0.000320	0.0100
4-Nitrophenol	U		0.00201	0.0100
Pentachlorophenol	U		0.000313	0.00100
Phenol	U		0.000334	0.0100
2,4,5-Trichlorophenol	U		0.000236	0.0100
2,4,6-Trichlorophenol	U		0.000297	0.0100
(S) Nitrobenzene-d5	65.1			21.8-123
(S) 2-Fluorobiphenyl	77.9			29.5-131
(S) p-Terphenyl-d14	71.5			29.3-137
(S) Phenol-d5	29.8			5.00-70.1
(S) 2-Fluorophenol	42.8			10.0-77.9
(S) 2,4,6-Tribromophenol	67.2			11.2-130

ACCOUNT:

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SDG:

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1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Cc  
7 Gl  
8 Al  
9 Sc

WG782361

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L759281-01.02

## Method Blank (MB)

(MB) 04/17/15 12:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,3,5-Trinitrobenzene	U		0.00132	0.0100

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/16/15 23:10 • (LCSD) 04/16/15 23:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0250	0.0209	0.0208	83.6	83.0	38.7-109			0.670	21.5
Acenaphthylene	0.0250	0.0206	0.0205	82.3	82.0	36.0-106			0.330	21
Acetophenone	0.0250	0.0173	0.0168	69.3	67.1	41.6-104			3.22	24.8
Anthracene	0.0250	0.0207	0.0208	82.7	83.1	43.6-113			0.520	18.8
Atrazine	0.0250	0.0218	0.0212	87.2	84.7	50.0-123			2.98	21.5
Benzaldehyde	0.0250	0.0258	0.0235	103	94.0	11.7-132			9.31	25.2
Benzo(a)anthracene	0.0250	0.0216	0.0213	86.5	85.3	51.2-112			1.33	20
Benzo(b)fluoranthene	0.0250	0.0217	0.0216	86.8	86.3	47.6-111			0.620	20
Benzo(k)fluoranthene	0.0250	0.0220	0.0201	88.1	80.4	49.4-114			9.18	20
Benzo(g,h,i)perylene	0.0250	0.0238	0.0234	95.1	93.6	45.2-117			1.61	20
Benzo(a)pyrene	0.0250	0.0216	0.0207	86.3	82.6	45.6-106			4.38	20
Biphenyl	0.0250	0.0210	0.0208	84.0	83.2	38.0-103			0.950	20.1
Bis(2-chloroethoxy)methane	0.0250	0.0194	0.0188	77.5	75.2	37.2-111			3.11	24.1
Bis(2-chloroethyl)ether	0.0250	0.0176	0.0179	70.3	71.7	22.6-108			2.07	27.9
Bis(2-chloroisopropyl)ether	0.0250	0.0207	0.0204	82.7	81.4	32.9-100			1.59	25.1
4-Bromophenyl-phenylether	0.0250	0.0206	0.0211	82.3	84.6	40.7-116			2.72	21
Caprolactam	0.0250	0.00570	0.00540	22.8	21.6	10.0-40.4			5.33	40
Carbazole	0.0250	0.0218	0.0213	87.2	85.1	49.0-110			2.48	20
4-Chloroaniline	0.0250	0.0166	0.0175	66.3	70.1	32.0-104			5.45	26.4
2-Chloronaphthalene	0.0250	0.0211	0.0208	84.3	83.1	33.6-105			1.45	23
4-Chlorophenyl-phenylether	0.0250	0.0215	0.0207	85.9	83.0	39.0-113			3.47	20.9
Chrysene	0.0250	0.0211	0.0203	84.3	81.3	54.6-120			3.67	20
Dibenz(a,h)anthracene	0.0250	0.0231	0.0228	92.4	91.1	42.8-118			1.36	20
Dibenzofuran	0.0250	0.0205	0.0206	81.9	82.3	42.4-105			0.480	20
3,3-Dichlorobenzidine	0.0250	0.0228	0.0225	91.3	90.0	27.2-142			1.48	22.3
2,4-Dinitrotoluene	0.0250	0.0210	0.0216	84.1	86.4	31.2-105			2.69	22
2,6-Dinitrotoluene	0.0250	0.0221	0.0208	88.4	83.3	30.6-106			5.84	23.1
Fluoranthene	0.0250	0.0208	0.0208	83.3	83.4	45.9-115			0.0500	20
Fluorene	0.0250	0.0206	0.0208	82.4	83.2	41.0-112			0.910	20.2
Hexachlorobenzene	0.0250	0.0207	0.0210	82.9	84.1	38.5-116			1.34	20.1
Hexachloro-1,3-butadiene	0.0250	0.0176	0.0176	70.3	70.3	16.1-104			0.0600	31.2

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L759281-01.02

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/16/15 23:10 • (LCSD) 04/16/15 23:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachlorocyclopentadiene	0.0250	0.0124	0.0125	49.5	49.9	10.0-121			0.810	27.9
Hexachloroethane	0.0250	0.0176	0.0166	70.3	66.4	16.5-89.8			5.64	30.7
Indeno(1,2,3-cd)pyrene	0.0250	0.0232	0.0233	92.9	93.1	45.0-116			0.240	20
Isophorone	0.0250	0.0204	0.0200	81.6	79.9	35.4-112			2.15	21.5
1-Methylnaphthalene	0.0250	0.0216	0.0210	86.2	84.2	34.7-102			2.44	24.9
2-Methylnaphthalene	0.0250	0.0191	0.0187	76.4	75.0	33.8-98.6			1.86	24.2
Naphthalene	0.0250	0.0186	0.0181	74.4	72.6	32.2-101			2.44	23.8
2-Nitroaniline	0.0250	0.0198	0.0202	79.2	80.9	35.6-113			2.16	20.9
3-Nitroaniline	0.0250	0.0195	0.0206	78.1	82.6	33.6-103			5.58	21.8
4-Nitroaniline	0.0250	0.0233	0.0227	93.3	91.0	35.4-124			2.49	23.1
Nitrobenzene	0.0250	0.0186	0.0183	74.3	73.3	31.4-106			1.34	25.7
n-Nitrosodiphenylamine	0.0250	0.0211	0.0210	84.3	84.0	44.4-113			0.370	20
n-Nitrosodi-n-propylamine	0.0250	0.0191	0.0191	76.5	76.2	33.2-106			0.400	23.7
Phenanthrene	0.0250	0.0208	0.0210	83.1	83.9	31.8-123			0.980	20.7
Benzylbutyl phthalate	0.0250	0.0230	0.0220	92.2	88.1	36.9-134			4.45	23.6
Bis(2-ethylhexyl)phthalate	0.0250	0.0215	0.0215	86.0	85.9	41.8-120			0.200	20.2
Di-n-butyl phthalate	0.0250	0.0221	0.0217	88.4	86.8	36.5-129			1.78	20
Diethyl phthalate	0.0250	0.0219	0.0210	87.5	84.1	35.3-128			3.99	20.8
Di-n-octyl phthalate	0.0250	0.0213	0.0202	85.3	80.9	39.7-112			5.19	21.1
Pyrene	0.0250	0.0225	0.0219	89.9	87.5	46.3-117			2.75	20
4-Chloro-3-methylphenol	0.0250	0.0190	0.0194	76.0	77.5	35.7-100			2.02	22.9
2-Chlorophenol	0.0250	0.0161	0.0166	64.6	66.4	26.2-91.5			2.77	26.5
2-Methylphenol	0.0250	0.0158	0.0164	63.2	65.4	26.4-86.9			3.53	26.5
3,4-Methyl Phenol	0.0250	0.0162	0.0170	64.6	67.9	27.9-92.0			4.98	27
2,4-Dichlorophenol	0.0250	0.0193	0.0191	77.3	76.6	31.4-103			0.940	24.9
2,4-Dimethylphenol	0.0250	0.0193	0.0195	77.1	78.1	31.9-107			1.32	25.7
4,6-Dinitro-2-methylphenol	0.0250	0.0200	0.0194	80.1	77.8	18.4-148			2.87	24.4
2,4-Dinitrophenol	0.0250	0.0111	0.0107	44.6	42.8	24.2-128			4.14	20.5
2-Nitrophenol	0.0250	0.0181	0.0203	72.4	81.2	25.9-106			11.5	26.9
4-Nitrophenol	0.0250	0.00617	0.00872	24.7	34.9	10.0-52.7			34.2	40
Pentachlorophenol	0.0250	0.0117	0.0133	46.8	53.1	10.0-97.4			12.7	35.1
Phenol	0.0250	0.00847	0.0103	33.9	41.2	10.0-57.9			19.6	35
2,4,5-Trichlorophenol	0.0250	0.0210	0.0214	83.9	85.5	34.9-112			1.94	23.9
2,4,6-Trichlorophenol	0.0250	0.0196	0.0199	78.6	79.5	29.8-107			1.13	24.1
(S) Nitrobenzene-d5				68.4	70.2	21.8-123				
(S) 2-Fluorobiphenyl				81.5	82.0	29.5-131				
(S) p-Terphenyl-d14				73.6	76.6	29.3-137				
(S) Phenol-d5				30.2	36.2	5.00-70.1				

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## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L759281-01.02

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 04/16/15 23:10 • (LCSD) 04/16/15 23:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
(S) 2-Fluorophenol				37.8	44.7	10.0-77.9				
(S) 2,4,6-Tribromophenol				75.3	78.7	11.2-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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8 Al

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## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND/U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

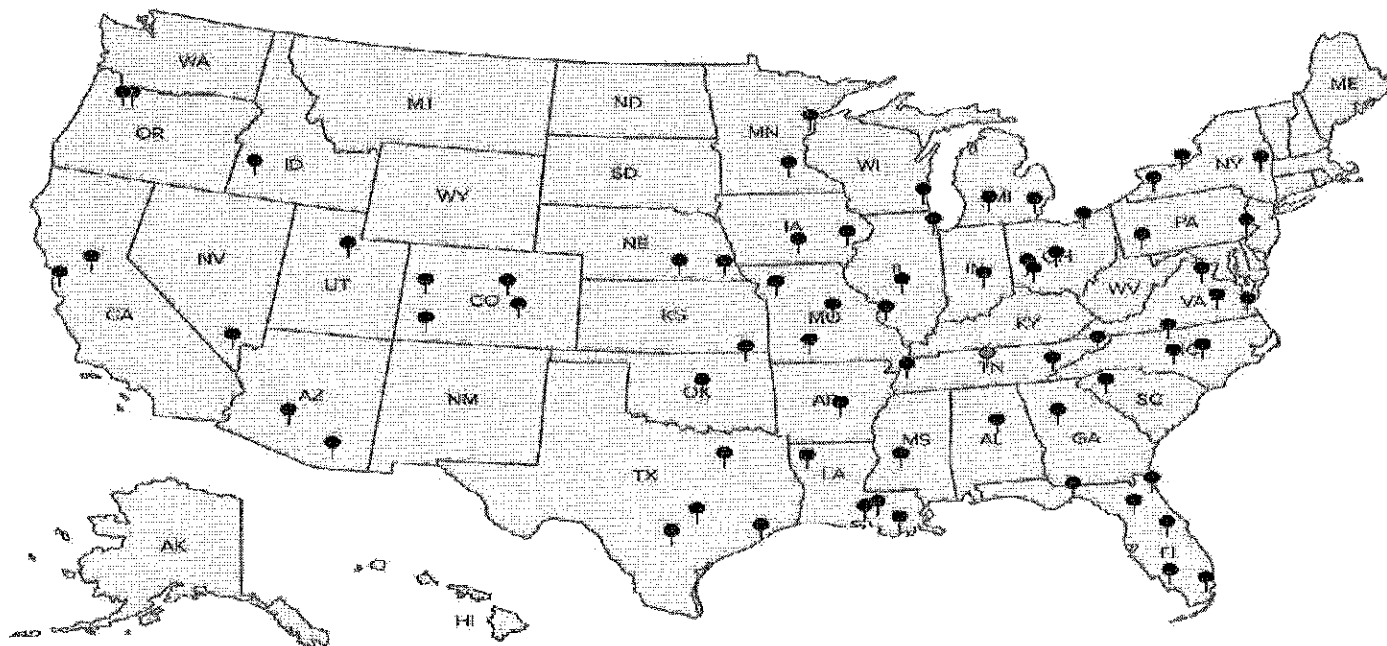
<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>14</sup> Accreditation not applicable

## Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA-Crypto	TN00003	USDA	S-67674

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



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<b>Company Name/Address:</b> <b>ArcaDis</b> 2920 Briarpark Drive Suite 300 Houston, TX 77043				<b>Billing Information:</b>  				<b>Analysis / Container / Preservative</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           V6200 (WQCC Lab)            GRO            DRO/GRO            SVCC8270 (WQCC Lab)            Diss Metals (Al, As, Ba, Bi, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mn, Hg, Ni, Se, Si, V, Zn) by Inductively Coupled Plasma            Radium 226/228            Chloride, Fluoride, Sulfate            Nitrate/Nitrite            Cyanide            TDS         </div> <div style="width: 50%; text-align: right;">           Chain of Custody Page 1 of 2    <b>ESC</b>            ENVIRONMENTAL SCIENCE CORPORATION            12500 Wilshire Rd            Houston, TX 77036            Phone: 281-755-5555            Fax: 281-755-5555         </div> </div>													
<b>Reporting:</b> Pamela Kruger				<b>Project:</b> Reject				<b>City/State:</b> ArcaDis, VA				<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>B157</b> </div>									
<b>Project Description:</b>				<b>Client Project #</b>				<b>Lab Project #</b>													
<b>Phone:</b> 713-953-4816				<b>Fax:</b>				<b>Collected by (print):</b> Scott Ude													
<b>Collected by (signature):</b> 				<b>Sample Packaging:</b>				<b>P.O. #</b>													
<b>Immediately Packed on Ice:</b> <input checked="" type="checkbox"/>				<b>Rush?</b> (Lab MUST Be Notified) Same Day <input type="checkbox"/> 24 hrs Next Day <input type="checkbox"/> 48 hrs Two Day <input type="checkbox"/> 96 hrs Three Day <input type="checkbox"/> 192 hrs				<b>Data Reports Needed:</b> Email? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No FAX? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<b>Project:</b> Mark Beasley									
<b>Sample ID</b>				<b>Cont./Grab</b>	<b>Matrix *</b>	<b>Depth</b>	<b>Date</b>	<b>Time</b>	<b>Vol. of Cans</b>	<b>Shipping Via:</b>											
South Field RO Reject				GW	1"	4/14/15	1330	1330	1330	Rem./Container Sample # (Lab only)											
North Field RO Reject				GW	1"	4/14/15	1330	1330	1330												
Regular Unit South Field RO Reject				Grab	Gw/ww	1330"	4/14/15	1330	1330												
Temporary Unit South Field RO Reject				Grab	Gw/ww	1315"	4/14/15	1315	1315												

\* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Regular Unit discharge pipe = 6" white PVC  
Temporary Unit discharge pipe = 4" black HDPE

Relinquished by: (Signature) Date: 4/14/15 Time: 1400 Received by: (Signature)

Relinquished by: (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_

Relinquished by: (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_

PH: \_\_\_\_\_ Temp: \_\_\_\_\_

Flow: \_\_\_\_\_ Other: \_\_\_\_\_


Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ \_\_\_\_\_

Condition: (Lab Use only) ☒ AD ☐ L ☐ NA

CCC Seal Intact: ☒ Y ☐ N ☐ NA






PH Checked: ☒ Y ☐ N ☐ NA

Date: 4/14/15 Time: 09:00

Company Name/Address: <b>Arcadis</b> 2929 Briarpark Drive Suite 300 Houston, TX 77043		Billing Information: Report to: Pamela Kruger Email to: pam.kruger@arcadis-us.com		Analysis / Container / Preservative										Chain of Custody Page 2 of 2	
Project Description: <b>Reject</b>		Reg Scale Collection: <b>Arden NM</b>		<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Field-measured pH</div> </div>										 ESC LAB SCIENCES 22225 Katy Rd Houston, TX 77055 Phone: 613-558-5858 Fax: 613-558-5859	
Phone: 713-953-4816		Lab Project #													
Collected by (print): <b>Scott Wade</b>		Site/Facility ID #													
Collected by (signature): <b>Scott Wade</b>		P.Q. #													
Rush? (Lab M, ST Ea Notified) <input type="checkbox"/> Same Day 250% <input type="checkbox"/> Next Day 100% <input type="checkbox"/> Two Day 50% <input type="checkbox"/> Three Day 25%		Date Results Needed Email? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes		15520 Tables Arden ARCADERTX Template Project ID: Mark Beasley Notes Sampled via Item / Container Sample # (date only)											
Immediately Packed on ice <input checked="" type="checkbox"/>		No. of Containers													
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time										
South Field RO Reject		GW	4'												
North Field RO Reject		GW	5'												
Regular Unit South Field RA Reject	Grab	GW/WW		4/14/15	1330	12	✓	7.12							
Temporary Unit South Field RO Reject	Grab	GW/WW		4/14/15	1315	12	✓	7.48							

\*Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Field-measured pH by HAN per ARCADIS

Requisitioned by: (Signature) <b>Scott Wade</b>	Date: 4/14/15	Time: 1400	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other	Field #
Requisitioned by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: °C <b>3.1</b> <b>36</b>	Graduated (Lab Use Only)
Requisitioned by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: °C <b>21.5/15</b> <b>09:00</b>	ECC Seal intact <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
				Lab Order # <b>62716</b>	Lab Use Only





*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

May 13, 2015

Scott Denton

Navajo Refining Company

P.O. Box 159

Artesia, NM 88211-0159

TEL: (575) 748-3311

FAX

RE: Monthly RO Reject

OrderNo.: 1504C23

Dear Scott Denton:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 1504C23

Date Reported: 5/13/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Navajo Refining Company

Client Sample ID: Temporary R.O.

Project: Monthly RO Reject

Collection Date: 4/28/2015 8:30:00 AM

Lab ID: 1504C23-001

Matrix: AQUEOUS

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8011/504.1: EDB</b>						Analyst: JME
1,2-Dibromoethane	ND	0.010		µg/L	1	4/30/2015 5:05:45 PM
<b>EPA METHOD 8082: PCB'S</b>						Analyst: SCC
Aroclor 1016	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Aroclor 1221	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Aroclor 1232	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Aroclor 1242	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Aroclor 1248	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Aroclor 1254	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Aroclor 1260	ND	1.0		µg/L	1	5/5/2015 3:05:44 PM
Surr: Decachlorobiphenyl	96.4	44.5-110		%REC	1	5/5/2015 3:05:44 PM
Surr: Tetrachloro-m-xylene	107	31.8-95.7	S	%REC	1	5/5/2015 3:05:44 PM
<b>EPA METHOD 8015D: DIESEL RANGE</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/29/2015 3:54:05 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/29/2015 3:54:05 PM
Surr: DNOP	106	76.5-150		%REC	1	4/29/2015 3:54:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/4/2015 3:32:42 PM
Surr: BFB	94.3	80-120		%REC	1	5/4/2015 3:32:42 PM
<b>EPA METHOD 8310: PAHS</b>						Analyst: SCC
Naphthalene	ND	2.0		µg/L	1	5/5/2015 11:03:03 AM
1-Methylnaphthalene	ND	2.0		µg/L	1	5/5/2015 11:03:03 AM
2-Methylnaphthalene	ND	2.0		µg/L	1	5/5/2015 11:03:03 AM
Benzo(a)pyrene	ND	0.070		µg/L	1	5/5/2015 11:03:03 AM
Surr: Benzo(e)pyrene	94.8	30.8-125		%REC	1	5/5/2015 11:03:03 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT
Fluoride	2.9	2.0		mg/L	20	4/29/2015 3:12:59 PM
Chloride	52	10		mg/L	20	4/29/2015 3:12:59 PM
Nitrogen, Nitrate (As N)	2.1	2.0		mg/L	20	4/29/2015 3:12:59 PM
Sulfate	1500	50		mg/L	100	5/6/2015 12:47:21 AM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Aluminum	ND	0.020		mg/L	1	4/29/2015 6:12:35 PM
Barium	0.062	0.0020		mg/L	1	4/29/2015 6:12:35 PM
Boron	0.10	0.040		mg/L	1	4/29/2015 6:12:35 PM
Cadmium	ND	0.0020		mg/L	1	4/30/2015 1:03:21 PM
Chromium	ND	0.0060		mg/L	1	4/29/2015 6:12:35 PM
Cobalt	ND	0.0060		mg/L	1	4/29/2015 6:12:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Navajo Refining Company

Client Sample ID: Temporary R.O.

Project: Monthly RO Reject

Collection Date: 4/28/2015 8:30:00 AM

Lab ID: 1504C23-001

Matrix: AQUEOUS

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Copper	ND	0.0060		mg/L	1	4/29/2015 6:12:35 PM
Iron	ND	0.020		mg/L	1	4/29/2015 6:12:35 PM
Manganese	ND	0.0020		mg/L	1	4/29/2015 6:12:35 PM
Molybdenum	ND	0.0080		mg/L	1	4/30/2015 1:03:21 PM
Nickel	ND	0.010		mg/L	1	4/29/2015 6:12:35 PM
Silver	ND	0.0050		mg/L	1	4/30/2015 1:03:21 PM
Zinc	0.11	0.010		mg/L	1	4/29/2015 6:12:35 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.0050		mg/L	5	5/7/2015 2:26:28 PM
Lead	ND	0.0010		mg/L	1	5/5/2015 11:01:02 AM
Selenium	0.0088	0.0010		mg/L	1	5/5/2015 11:01:02 AM
Uranium	0.0066	0.0010		mg/L	1	5/5/2015 11:01:02 AM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: MED
Mercury	ND	0.00020		mg/L	1	5/4/2015 2:00:03 PM
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: cadg
Benzene	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Toluene	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Ethylbenzene	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Chloroform	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Methylene Chloride	ND	3.0		µg/L	1	4/29/2015 5:03:52 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/29/2015 5:03:52 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Vinyl chloride	ND	1.0		µg/L	1	4/29/2015 5:03:52 PM
Xylenes, Total	ND	1.5		µg/L	1	4/29/2015 5:03:52 PM
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%REC	1	4/29/2015 5:03:52 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%REC	1	4/29/2015 5:03:52 PM
Surr: Dibromofluoromethane	98.8	70-130		%REC	1	4/29/2015 5:03:52 PM
Surr: Toluene-d8	102	70-130		%REC	1	4/29/2015 5:03:52 PM

TOTAL PHENOLICS BY SW-846 9067

Analyst: SCC

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH Not In Range  
RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Navajo Refining Company

Client Sample ID: Temporary R.O.

Project: Monthly RO Reject

Collection Date: 4/28/2015 8:30:00 AM

Lab ID: 1504C23-001

Matrix: AQUEOUS

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL PHENOLICS BY SW-846 9067</b>						Analyst: SCC
Phenolics, Total Recoverable	ND	2.5		µg/L	1	4/30/2015
<b>EPA 335.4: TOTAL CYANIDE SUBBED</b>						Analyst: SUB
Cyanide	ND	0.0100		mg/L	1	5/5/2015
<b>SM4500-H+B: PH</b>						Analyst: JRR
pH	7.92	1.68	H	pH units	1	5/5/2015 5:53:07 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	3390	20.0	*	mg/L	1	5/1/2015 3:30:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



## Analytical Report

Lab Order 1504C23

Date Reported: 5/13/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Navajo Refining Company

Client Sample ID: Trip Blank

Project: Monthly RO Reject

Collection Date:

Lab ID: 1504C23-002

Matrix: TRIP BLANK

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8011/504.1: EDB</b>						Analyst: JME
1,2-Dibromoethane	ND	0.010		µg/L	1	4/30/2015 5:19:35 PM
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: cadg
Benzene	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Toluene	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Ethylbenzene	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Chloroform	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Methylene Chloride	ND	3.0		µg/L	1	4/29/2015 5:32:34 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/29/2015 5:32:34 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Vinyl chloride	ND	1.0		µg/L	1	4/29/2015 5:32:34 PM
Xylenes, Total	ND	1.5		µg/L	1	4/29/2015 5:32:34 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	1	4/29/2015 5:32:34 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	4/29/2015 5:32:34 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	4/29/2015 5:32:34 PM
Surr: Toluene-d8	104	70-130		%REC	1	4/29/2015 5:32:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 1504C23  
Pace Project No.: 30147056

Sample: 1504C23-001H Temporary R.O. Lab ID: 30147056001 Collected: 04/28/15 06:30 Received: 05/01/15 09:35 Matrix: Water

PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-228	EPA 903.1	1.41 ± 0.654 (0.675) C:NA T:80%	pCi/L	05/13/15 10:06	13982-63-3	
Radium-228	EPA 904.0	0.441 ± 0.439 (0.877) C:75% T:74%	pCi/L	05/11/15 17:31	15262-20-1	

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..



## QUALITY CONTROL - RADIOCHEMISTRY

Project: 1504C23  
Pace Project No.: 30147056

---

QC Batch:	RADC/24384	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
Associated Lab Samples:	30147056001		

---

METHOD BLANK:	890250	Matrix:	Water
Associated Lab Samples:	30147056001		

---

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.437 ± 0.426 (0.869) C:70% T:70%	pCi/L	05/11/15 17:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL - RADIOCHEMISTRY

Project: 1504C23  
Pace Project No.: 30147056

QC Batch:	RADC/24322	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
Associated Lab Samples:	30147056001		

METHOD BLANK:	888781	Matrix:	Water
Associated Lab Samples:	30147056001		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.256 ± 0.438 (0.767) C:NA T:98%	pCi/L	05/13/15 09:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R25851	RunNo:	25851					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766029	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Boron	ND	0.040								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R25851	RunNo:	25851					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766030	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.51	0.020	0.5000	0	103	85	115			
Barium	0.47	0.0020	0.5000	0	93.0	85	115			
Boron	0.49	0.040	0.5000	0	97.9	85	115			
Chromium	0.48	0.0060	0.5000	0	95.5	85	115			
Cobalt	0.47	0.0060	0.5000	0	94.4	85	115			
Copper	0.47	0.0060	0.5000	0	94.3	85	115			
Iron	0.47	0.020	0.5000	0	94.6	85	115			
Manganese	0.44	0.0020	0.5000	0	88.9	85	115			
Nickel	0.48	0.010	0.5000	0	96.6	85	115			
Zinc	0.48	0.010	0.5000	0	95.6	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R25881	RunNo:	25881					
Prep Date:		Analysis Date:	4/30/2015	SeqNo:	767040	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020								
Molybdenum	ND	0.0080								
Silver	ND	0.0050								

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	LCSW	Batch ID: R25881		RunNo: 25881						
Prep Date:		Analysis Date: 4/30/2015		SeqNo: 767041		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.51	0.0020	0.5000	0	103	85	115			
Molybdenum	0.49	0.0080	0.5000	0	97.4	85	115			
Silver	0.088	0.0050	0.1000	0	87.9	85	115			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID:	R25950	RunNo:	25950						
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	769414	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		0.024	0.0010	0.02500	0	96.4	85	115			
Selenium		0.024	0.0010	0.02500	0	94.9	85	115			
Uranium		0.025	0.0010	0.02500	0	98.7	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals						
Client ID:	PBW	Batch ID:	R25950	RunNo:	25950						
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	769415	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		ND	0.0010								
Selenium		ND	0.0010								
Uranium		ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals						
Client ID:	LCSW	Batch ID:	R26042	RunNo:	26042						
Prep Date:		Analysis Date:	5/7/2015	SeqNo:	772040	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.024	0.0010	0.02500	0	97.4	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals						
Client ID:	PBW	Batch ID:	R26042	RunNo:	26042						
Prep Date:		Analysis Date:	5/7/2015	SeqNo:	772041	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	0.0010								

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH Not In Range

RL Reporting Detection Limit

Page 7 of 19

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18982	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	18982	RunNo:	25930					
Prep Date:	4/30/2015	Analysis Date:	5/4/2015	SeqNo:	768647	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-18982	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	18982	RunNo:	25930					
Prep Date:	4/30/2015	Analysis Date:	5/4/2015	SeqNo:	768648	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	80	120			

## Qualifiers:

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- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions						
Client ID:	PBW	Batch ID:	R25872	RunNo:	25872						
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766806	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	ND	0.10									
Chloride	ND	0.50									
Nitrogen, Nitrate (As N)	ND	0.10									

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions						
Client ID:	LCSW	Batch ID:	R25872	RunNo:	25872						
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766807	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.46	0.10	0.5000	0	92.4	90	110				
Chloride	4.5	0.50	5.000	0	91.0	90	110				
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.2	90	110				

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions						
Client ID:	PBW	Batch ID:	R25994	RunNo:	25994						
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	770620	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sulfate	ND	0.50									

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions						
Client ID:	LCSW	Batch ID:	R25994	RunNo:	25994						
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	770621	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sulfate	9.7	0.50	10.00	0	97.2	90	110				

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- S Spike Recovery outside accepted recovery limits
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18974	SampType:	MBLK	TestCode:	EPA Method 8011/504.1: EDB					
Client ID:	PBW	Batch ID:	18974	RunNo:	25898					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767691	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID	LCS-18974	SampType:	LCS	TestCode:	EPA Method 8011/504.1: EDB					
Client ID:	LCSW	Batch ID:	18974	RunNo:	25898					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767692	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	114	70	130			

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- P Sample pH Not In Range
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18947	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	PBW	Batch ID:	18947	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766304	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		109	76.5	150			

Sample ID	LCS-18947	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSW	Batch ID:	18947	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766305	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	104	60.1	155			
Surr: DNOP	0.57		0.5000		115	76.5	150			

Sample ID	1504C23-001LMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	Temporary R.O.	Batch ID:	18947	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766307	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	114	75.9	164			
Surr: DNOP	0.61		0.5000		121	76.5	150			

Sample ID	1504C23-001LMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	Temporary R.O.	Batch ID:	18947	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766308	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	111	75.9	164	2.80	22.1	
Surr: DNOP	0.61		0.5000		122	76.5	150	0	0	

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- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBW	Batch ID: R25939	RunNo: 25939								
Prep Date:	Analysis Date: 5/4/2015	SeqNo: 768862 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Sur: BFB	18		20.00		88.4	80	120			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSW	Batch ID: R25939	RunNo: 25939								
Prep Date:	Analysis Date: 5/4/2015	SeqNo: 768863 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.2	80	120			
Sur: BFB	18		20.00		91.1	80	120			

## Qualifiers:

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18997	SampType:	MBLK	TestCode:	EPA Method 8082: PCB's					
Client ID:	PBW	Batch ID:	18997	RunNo:	25944					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769049	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	2.2		2.500		87.2	44.5	110			
Surr: Tetrachloro-m-xylene	2.4		2.500		97.6	31.8	95.7			S

Sample ID	LCS-18997	SampType: LCS			TestCode: EPA Method 8082: PCB's					
Client ID:	LCSW	Batch ID: 18997			RunNo: 25944					
Prep Date:	5/1/2015	Analysis Date: 5/5/2015			SeqNo: 769942		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	4.9	1.0	5.000	0	98.7	22.6	127			
Aroclor 1260	5.1	1.0	5.000	0	102	20.4	122			
Surr: Decachlorobiphenyl	2.9		2.500		114	44.5	110			S
Surr: Tetrachloro-m-xylene	4.2		2.500		169	31.8	95.7			S

Sample ID	LCSD-18997	SampType: LCSD			TestCode: EPA Method 8082: PCB's					
Client ID:	LCSS02	Batch ID: 18997			RunNo: 25944					
Prep Date:	5/1/2015	Analysis Date: 5/5/2015			SeqNo: 769944		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	4.6	1.0	5.000	0	93.0	22.6	127	6.03	26.9	
Aroclor 1260	5.3	1.0	5.000	0	107	20.4	122	4.45	29.1	
Surr: Decachlorobiphenyl	3.0		2.500		118	44.5	110	0	0	S
Surr: Tetrachloro-m-xylene	3.8		2.500		150	31.8	95.7	0	0	S

### Qualifiers:

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R25860			RunNo: 25860					
Prep Date:		Analysis Date: 4/29/2015			SeqNo: 766354		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.6	70	130			
Toluene	20	1.0	20.00	0	98.9	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	75.6	144			
Trichloroethene (TCE)	20	1.0	20.00	0	98.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID	5mL rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R25860			RunNo: 25860					
Prep Date:		Analysis Date: 4/29/2015			SeqNo: 766361		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Carbon Tetrachloride	ND	1.0								
Chloroform	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
Methylene Chloride	ND	3.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		99.2	70	130			

### Qualifiers:

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18998	SampType:	MBLK	TestCode:	EPA Method 8310: PAHs					
Client ID:	PBW	Batch ID:	18998	RunNo:	25938					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769391	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	2.0								
2-Methylnaphthalene	ND	2.0								
Acenaphthylene	ND	2.5								
Acenaphthene	ND	2.0								
Fluorene	ND	0.80								
Phenanthrene	ND	0.60								
Anthracene	ND	0.60								
Fluoranthene	ND	0.30								
Pyrene	ND	0.30								
Benz(a)anthracene	ND	0.070								
Chrysene	ND	0.20								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.070								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.12								
Benzo(g,h,i)perylene	ND	0.12								
Indeno(1,2,3-cd)pyrene	ND	0.25								
Surr: Benzo(e)pyrene	14		20.00		71.8	30.8	125			

Sample ID	LCS-18998	SampType: LCS		TestCode: EPA Method 8310: PAHs						
Client ID:	LCSW	Batch ID: 18998		RunNo: 25938						
Prep Date:	5/1/2015	Analysis Date: 5/5/2015		SeqNo: 769392			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	55	2.0	80.00	0	69.3	41	76.8			
1-Methylnaphthalene	57	2.0	80.20	0	71.0	24.7	81			
2-Methylnaphthalene	56	2.0	80.00	0	70.4	17.4	81.9			
Acenaphthylene	60	2.5	80.20	0	75.4	50.3	77.5			
Acenaphthene	57	2.0	80.00	0	71.8	27.7	81.1			
Fluorene	5.8	0.80	8.020	0	72.8	34.2	75.1			
Phenanthrene	2.9	0.60	4.020	0	72.4	44.6	88.3			
Anthracene	2.9	0.60	4.020	0	72.1	41.9	85.3			
Fluoranthene	6.1	0.30	8.020	0	76.2	40.6	88			
Pyrene	6.6	0.30	8.020	0	82.8	41	86.6			
Benz(a)anthracene	0.62	0.070	0.8020	0	77.3	43.8	86.7			
Chrysene	3.1	0.20	4.020	0	76.9	44.5	80.7			
Benzo(b)fluoranthene	0.81	0.10	1.002	0	80.8	44.3	87.1			
Benzo(k)fluoranthene	0.39	0.070	0.5000	0	78.0	39.9	94.3			

## Qualifiers:

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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	LCS-18998	SampType:	LCS	TestCode:	EPA Method 8310: PAHs					
Client ID:	LCSW	Batch ID:	18998	RunNo:	25938					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769392	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.39	0.070	0.5020	0	77.7	44	86.5			
Dibenz(a,h)anthracene	0.78	0.12	1.002	0	77.8	48.8	83.6			
Benzo(g,h,i)perylene	0.83	0.12	1.000	0	83.0	43.6	84.5			
Indeno(1,2,3-cd)pyrene	1.6	0.25	2.004	0	77.3	49.2	91.1			
Surr: Benzo(e)pyrene	21		20.00		106	30.8	125			

Sample ID	LCSD-18998	SampType:	LCSD	TestCode:	EPA Method 8310: PAHs					
Client ID:	LCSS02	Batch ID:	18998	RunNo:	25938					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769393	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	58	2.0	80.00	0	72.7	41	76.8	4.75	20	
1-Methylnaphthalene	60	2.0	80.20	0	74.4	24.7	81	4.68	20	
2-Methylnaphthalene	59	2.0	80.00	0	73.8	17.4	81.9	4.70	20	
Acenaphthylene	63	2.5	80.20	0	78.7	50.3	77.5	4.29	20	S
Acenaphthene	60	2.0	80.00	0	74.9	27.7	81.1	4.26	20	
Fluorene	6.1	0.80	8.020	0	75.7	34.2	75.1	3.86	20	S
Phenanthrene	3.1	0.60	4.020	0	76.1	44.6	88.3	5.03	24	
Anthracene	3.0	0.60	4.020	0	75.9	41.9	85.3	5.04	20	
Fluoranthene	6.4	0.30	8.020	0	79.9	40.6	88	4.79	20.9	
Pyrene	7.0	0.30	8.020	0	86.8	41	86.6	4.71	20.8	S
Benz(a)anthracene	0.65	0.070	0.8020	0	81.0	43.8	86.7	4.72	20	
Chrysene	3.3	0.20	4.020	0	80.8	44.5	80.7	5.05	20	S
Benzo(b)fluoranthene	0.84	0.10	1.002	0	83.8	44.3	87.1	3.64	20.6	
Benzo(k)fluoranthene	0.41	0.070	0.5000	0	82.0	39.9	94.3	5.00	20.8	
Benzo(a)pyrene	0.41	0.070	0.5020	0	81.7	44	86.5	5.00	20	
Dibenz(a,h)anthracene	0.83	0.12	1.002	0	82.8	48.8	83.6	6.21	20	
Benzo(g,h,i)perylene	0.87	0.12	1.000	0	87.0	43.6	84.5	4.71	20	S
Indeno(1,2,3-cd)pyrene	1.6	0.25	2.004	0	81.3	49.2	91.1	5.03	20	
Surr: Benzo(e)pyrene	22		20.00		112	30.8	125	0		

## Qualifiers:

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- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18972	SampType:	MBLK	TestCode:	Total Phenolics by SW-846 9067					
Client ID:	PBW	Batch ID:	18972	RunNo:	25901					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767792	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	2.5								

Sample ID	LCS-18972	SampType:	LCS	TestCode:	Total Phenolics by SW-846 9067					
Client ID:	LCSW	Batch ID:	18972	RunNo:	25901					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767793	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	22	2.5	20.00	0	109	75.7	126			

## Qualifiers:

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R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-R26153	SampType:	MBLK	TestCode:	EPA 335.4: Total Cyanide Subbed					
Client ID:	PBW	Batch ID:	R26153	RunNo:	26153					
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	775896	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide	ND	0.0100								

Sample ID	LCS-R26153	SampType:	LCS	TestCode:	EPA 335.4: Total Cyanide Subbed					
Client ID:	LCSW	Batch ID:	R26153	RunNo:	26153					
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	775897	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide	0.500		0.5000	0	100	90	110			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C23

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18979	SampType:	MBLK		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	PBW	Batch ID:	18979		RunNo:	25912				
Prep Date:	4/30/2015	Analysis Date:	5/1/2015		SeqNo:	768004	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-18979	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	18979	RunNo:	25912					
Prep Date:	4/30/2015	Analysis Date:	5/1/2015	SeqNo:	768005	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	999	20.0	1000	0	99.9	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range.
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit





Hall Environmental Analysis Laboratory  
1901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: NAVAJO REFINING CO

Work Order Number: 1504C23

Rep/No: 1

Received by/date:

Logged By: Lindsay Mangin

4/29/2015 9:15:00 AM

Completed By: Lindsay Mangin

4/29/2015 9:48:07 AM

Reviewed By:

### Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

### Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ?

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☒

No ☐

11. Were any sample containers received broken?

Yes ☐

No ☒

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

# of preserved bottles checked for pH:

5/1

( $<2$  or  $>12$  unless noted)

Adjusted? No

Checked by: CS

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

### Chain-of-Custody Record

Client: Navajo Refining Co.

Mailing Address: P.O. Box 159 Artesia,

NM 88211-0159

Phone #: 575-748-3311

email or Fax: 575-745-5451

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

**Accreditation:**

☐ NELAP      ☐ Other \_\_\_\_\_

<input type="checkbox"/> EDD (Type)
-------------------------------------

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Monthly RO Reject

Project # P.O. #167796

Project Manager:

Scott Denton / Robert Combs

**Sampler, Elizabeth Salsberry**

On the \_\_\_\_\_ Yes ☒ No ☐

Sample Temperature: 16°C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	FEAL No.
4/28/15	8:30AM	Aq	Temporary R.O.	2 - 500ml P	unpres H2SO4	-001
4/28/15	8:30AM			3-40ml VOA	HCL	-001
4/28/15	8:30AM			1-500ml P	HNO3	-001
4/28/15	8:30AM			1-125ml P	HNO3	-001
4/28/15	8:30AM			1-500ml P	NaOH	-001
4/28/15	8:30AM			2- 1L P	HNO3	-001
4/28/15	8:30AM			3-40ml VOA	HCL	-001
4/28/15	8:30AM			2 - 1L Glass	unpres	-001
4/28/15	8:30AM			1 - 1L Glass	unpres	-001
4/28/15	8:30AM			2-40ml VOA	unpres	-001
4/28/15	8:30AM		Trip Blank	2-40ml VOA	HCL	-002
		CS 04/29/15				

Date:	Time:	Relinquished by: Elizabeth Salisbury
-------	-------	--------------------------------------

4/26/15 10:15 am Elizabeth Salberry

Received by:	Date:	Time:
--------------	-------	-------

Release Date 04/29/15 0915

Received by:	Date:	Time:
--------------	-------	-------

Remarks: Send results to Scott Denton, Mike Holder, Micki Schultz, Robert Combs and Andrew Contreras.



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

[illegible]







*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

May 13, 2015

Scott Denton  
Navajo Refining Company  
P.O. Box 159  
Artesia, NM 88211-0159  
TEL: (575) 748-3311  
FAX

RE: Monthly RO Reject

OrderNo.: 1504C24

Dear Scott Denton:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1504C24

Date Reported: 5/13/2015

CLIENT: Navajo Refining Company

Client Sample ID: R.O.

Project: Monthly RO Reject

Collection Date: 4/28/2015 8:45:00 AM

Lab ID: 1504C24-001

Matrix: AQUEOUS

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: JME
1,2-Dibromoethane	ND	0.010		µg/L	1	4/30/2015 5:33:16 PM	18974
<b>EPA METHOD 8082: PCB'S</b>							Analyst: SCC
Aroclor 1016	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Aroclor 1221	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Aroclor 1232	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Aroclor 1242	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Aroclor 1248	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Aroclor 1254	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Aroclor 1260	ND	1.0		µg/L	1	5/5/2015 3:50:42 PM	18997
Surr: Decachlorobiphenyl	115	44.5-110	S	%REC	1	5/5/2015 3:50:42 PM	18997
Surr: Tetrachloro-m-xylene	126	31.8-95.7	S	%REC	1	5/5/2015 3:50:42 PM	18997
<b>EPA METHOD 8015D: DIESEL RANGE</b>							Analyst: KJH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/29/2015 4:57:42 PM	18947
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/29/2015 4:57:42 PM	18947
Surr: DNOP	113	76.5-150		%REC	1	4/29/2015 4:57:42 PM	18947
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/4/2015 4:01:53 PM	R25939
Surr: BFB	87.5	80-120		%REC	1	5/4/2015 4:01:53 PM	R25939
<b>EPA METHOD 8310: PAHS</b>							Analyst: SCC
Naphthalene	ND	2.0		µg/L	1	5/5/2015 11:32:18 AM	18998
1-Methylnaphthalene	ND	2.0		µg/L	1	5/5/2015 11:32:18 AM	18998
2-Methylnaphthalene	ND	2.0		µg/L	1	5/5/2015 11:32:18 AM	18998
Benzo(a)pyrene	ND	0.070		µg/L	1	5/5/2015 11:32:18 AM	18998
Surr: Benzo(e)pyrene	81.0	30.8-125		%REC	1	5/5/2015 11:32:18 AM	18998
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Fluoride	2.2	0.10		mg/L	1	4/29/2015 3:25:23 PM	R25872
Chloride	37	10		mg/L	20	4/29/2015 4:02:38 PM	R25872
Nitrogen, Nitrate (As N)	1.1	0.10		mg/L	1	4/29/2015 3:25:23 PM	R25872
Sulfate	1100	25		mg/L	50	5/6/2015 12:59:46 AM	R25994
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: JLF
Aluminum	ND	0.020		mg/L	1	4/29/2015 6:14:42 PM	R25851
Barium	0.041	0.0020		mg/L	1	4/29/2015 6:14:42 PM	R25851
Boron	0.089	0.040		mg/L	1	4/29/2015 6:14:42 PM	R25851
Cadmium	ND	0.0020		mg/L	1	4/30/2015 1:05:27 PM	R25881
Chromium	ND	0.0060		mg/L	1	4/29/2015 6:14:42 PM	R25851
Cobalt	ND	0.0060		mg/L	1	4/29/2015 6:14:42 PM	R25851

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.  
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 J Analyte detected below quantitation limits  
 O RSD is greater than RSDlimit  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 P Sample pH Not In Range  
 RL Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 1504C24  
Date Reported: 5/13/2015

CLIENT: Navajo Refining Company

Client Sample ID: R.O.

Project: Monthly RO Reject

Collection Date: 4/28/2015 8:45:00 AM

Lab ID: 1504C24-001

Matrix: AQUEOUS

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: JLF
Copper	ND	0.0060		mg/L	1	4/29/2015 6:14:42 PM	R25851
Iron	ND	0.020		mg/L	1	4/29/2015 6:14:42 PM	R25851
Manganese	ND	0.0020		mg/L	1	4/29/2015 6:14:42 PM	R25851
Molybdenum	ND	0.0080		mg/L	1	4/30/2015 1:05:27 PM	R25881
Nickel	ND	0.010		mg/L	1	4/29/2015 6:14:42 PM	R25851
Silver	ND	0.0050		mg/L	1	4/30/2015 1:05:27 PM	R25881
Zinc	0.075	0.010		mg/L	1	4/29/2015 6:14:42 PM	R25851
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: DBD
Arsenic	ND	0.0050		mg/L	5	5/7/2015 2:35:40 PM	R26042
Lead	ND	0.0010		mg/L	1	5/5/2015 11:04:05 AM	R25950
Selenium	0.0053	0.0010		mg/L	1	5/5/2015 11:04:05 AM	R25950
Uranium	0.0042	0.0010		mg/L	1	5/5/2015 11:04:05 AM	R25950
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: MED
Mercury	ND	0.00020		mg/L	1	5/4/2015 2:01:49 PM	18982
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: cadg
Benzene	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Toluene	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Ethylbenzene	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Carbon Tetrachloride	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Chloroform	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,1-Dichloroethane	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,1-Dichloroethene	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Methylene Chloride	ND	3.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Vinyl chloride	ND	1.0		µg/L	1	4/29/2015 6:01:15 PM	R25860
Xylenes, Total	ND	1.5		µg/L	1	4/29/2015 6:01:15 PM	R25860
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%REC	1	4/29/2015 6:01:15 PM	R25860
Surr: 4-Bromofluorobenzene	99.8	70-130		%REC	1	4/29/2015 6:01:15 PM	R25860
Surr: Dibromofluoromethane	92.8	70-130		%REC	1	4/29/2015 6:01:15 PM	R25860
Surr: Toluene-d8	103	70-130		%REC	1	4/29/2015 6:01:15 PM	R25860

**TOTAL PHENOLICS BY SW-846 9067**

Analyst: SCC

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Navajo Refining Company

Client Sample ID: R.O.

Project: Monthly RO Reject

Collection Date: 4/28/2015 8:45:00 AM

Lab ID: 1504C24-001

Matrix: AQUEOUS

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>TOTAL PHENOLICS BY SW-846 9067</b>							Analyst: SCC
Phenolics, Total Recoverable	ND	2.5		µg/L	1	4/30/2015	18972
<b>EPA 335.4: TOTAL CYANIDE SUBBED</b>							Analyst: SUB
Cyanide	ND	0.0100		mg/L	1	5/5/2015	R26153
<b>SM4500-H+B: PH</b>							Analyst: JRR
pH	8.09	1.68	H	pH units	1	5/5/2015 5:57:25 PM	R25990
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	2190	20.0	*	mg/L	1	5/1/2015 3:30:00 PM	18979

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1504C24

Date Reported: 5/13/2015

CLIENT: Navajo Refining Company

Client Sample ID: Trip Blank

Project: Monthly RO Reject

Collection Date:

Lab ID: 1504C24-002

Matrix: TRIP BLANK

Received Date: 4/29/2015 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: JME
1,2-Dibromoethane	ND	0.010		µg/L	1	4/30/2015 5:46:54 PM	18974
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: cadg
Benzene	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Toluene	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Ethylbenzene	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Carbon Tetrachloride	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Chloroform	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,1-Dichloroethane	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,1-Dichloroethene	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Methylene Chloride	ND	3.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Vinyl chloride	ND	1.0		µg/L	1	4/29/2015 6:29:57 PM	R25860
Xylenes, Total	ND	1.5		µg/L	1	4/29/2015 6:29:57 PM	R25860
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%REC	1	4/29/2015 6:29:57 PM	R25860
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	4/29/2015 6:29:57 PM	R25860
Surr: Dibromofluoromethane	99.0	70-130		%REC	1	4/29/2015 6:29:57 PM	R25860
Surr: Toluene-d8	98.0	70-130		%REC	1	4/29/2015 6:29:57 PM	R25860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 4 of 20



## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 1504C24  
Pace Project No.: 30147057

Sample: 1504C24-001H R.O. Lab ID: 30147057001 Collected: 04/28/15 08:45 Received: 05/01/15 09:35 Matrix: Water  
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	1.75 ± 0.849 (0.976) C:NA T:60%	pCi/L	05/13/15 10:06	13982-63-3	
Radium-228	EPA 904.0	0.398 ± 0.412 (0.851) C:72% T:77%	pCi/L	05/11/15 17:31	15262-20-1	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL - RADIOCHEMISTRY

Project: 1504C24  
Pace Project No.: 30147057

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QC Batch:	RADC/24384	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
Associated Lab Samples:	30147057001		

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METHOD BLANK:	890250	Matrix:	Water
Associated Lab Samples:	30147057001		

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.437 ± 0.426 (0.869) C:70% T:70%	pCi/L	05/11/15 17:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## QUALITY CONTROL - RADIOCHEMISTRY

Project: 1504C24  
Pace Project No.: 30147057

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QC Batch:	RADC/24322	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
Associated Lab Samples:	30147057001		

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METHOD BLANK:	888781	Matrix:	Water
Associated Lab Samples:	30147057001		

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.256 ± 0.438 (0.767) C:NA T:98%	pCi/L	05/13/15 09:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R25851	RunNo:	25851					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766029	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Boron	ND	0.040								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R25851	RunNo:	25851					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766030	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.51	0.020	0.5000	0	103	85	115			
Barium	0.47	0.0020	0.5000	0	93.0	85	115			
Boron	0.49	0.040	0.5000	0	97.9	85	115			
Chromium	0.48	0.0060	0.5000	0	95.5	85	115			
Cobalt	0.47	0.0060	0.5000	0	94.4	85	115			
Copper	0.47	0.0060	0.5000	0	94.3	85	115			
Iron	0.47	0.020	0.5000	0	94.6	85	115			
Manganese	0.44	0.0020	0.5000	0	88.9	85	115			
Nickel	0.48	0.010	0.5000	0	96.6	85	115			
Zinc	0.48	0.010	0.5000	0	95.6	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R25881	RunNo:	25881					
Prep Date:		Analysis Date:	4/30/2015	SeqNo:	767040	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020								
Molybdenum	ND	0.0080								
Silver	ND	0.0050								

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID: LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R25881		RunNo: 25881							
Prep Date:	Analysis Date: 4/30/2015		SeqNo: 767041		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.51	0.0020	0.5000	0	103	85	115			
Molybdenum	0.49	0.0080	0.5000	0	97.4	85	115			
Silver	0.088	0.0050	0.1000	0	87.9	85	115			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	LCS	SampType: LCS			TestCode: EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID: R25950			RunNo: 25950					
Prep Date:		Analysis Date: 5/5/2015			SeqNo: 769414		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.024	0.0010	0.02500	0	96.4	85	115			
Selenium	0.024	0.0010	0.02500	0	94.9	85	115			
Uranium	0.025	0.0010	0.02500	0	98.7	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R25950	RunNo:	25950					
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	769415	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R26042	RunNo:	26042					
Prep Date:		Analysis Date:	5/7/2015	SeqNo:	772040	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	97.4	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R26042	RunNo:	26042					
Prep Date:		Analysis Date:	5/7/2015	SeqNo:	772041	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								

## Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18982	SampType	MBLK	TestCode	EPA Method 245.1: Mercury					
Client ID	PBW	Batch ID	18982	RunNo	25930					
Prep Date	4/30/2015	Analysis Date	5/4/2015	SeqNo	768647	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-18982	SampType	LCS	TestCode	EPA Method 245.1: Mercury					
Client ID	LCSW	Batch ID	18982	RunNo	25930					
Prep Date	4/30/2015	Analysis Date	5/4/2015	SeqNo	768648	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R25872	RunNo:	25872					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766806	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R25872	RunNo:	25872					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766807	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.46	0.10	0.5000	0	92.4	90	110			
Chloride	4.5	0.50	5.000	0	91.0	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.2	90	110			

Sample ID	1504C24-001EMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	R.O.	Batch ID:	R25872	RunNo:	25872					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766822	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.5	0.10	0.5000	2.238	55.2	66.1	113			S
Nitrogen, Nitrate (As N)	3.3	0.10	2.500	1.147	86.1	84	109			

Sample ID	1504C24-001EMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	R.O.	Batch ID:	R25872	RunNo:	25872					
Prep Date:		Analysis Date:	4/29/2015	SeqNo:	766823	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.4	0.10	0.5000	2.238	30.4	66.1	113	5.06	20	S
Nitrogen, Nitrate (As N)	3.3	0.10	2.500	1.147	86.6	84	109	0.363	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R25994	RunNo:	25994					
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	770620	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID: LCS	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R25994		RunNo: 25994							
Prep Date:	Analysis Date: 5/5/2015		SeqNo: 770621		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.7	0.50	10.00	0	97.2	90	110			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18974	SampType:	MBLK	TestCode:	EPA Method 8011/504.1: EDB					
Client ID:	PBW	Batch ID:	18974	RunNo:	25898					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767691	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID	LCS-18974	SampType:	LCS	TestCode:	EPA Method 8011/504.1: EDB					
Client ID:	LCSW	Batch ID:	18974	RunNo:	25898					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767692	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	114	70	130			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18947	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	PBW	Batch ID:	18947	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766304	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		109	76.5	150			

Sample ID	LCS-18947	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSW	Batch ID:	18947	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766305	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	104	60.1	156			
Surr: DNOP	0.57		0.5000		115	76.5	150			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
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- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	5ML RB	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBW	Batch ID	R25939	RunNo	25939					
Prep Date		Analysis Date	5/4/2015	SeqNo	768862	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		88.4	80	120			

Sample ID	2.5UG GRO LCS	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSW	Batch ID	R25939	RunNo	25939					
Prep Date		Analysis Date	5/4/2015	SeqNo	768863	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.2	80	120			
Surr: BFB	18		20.00		91.1	80	120			

## Qualifiers:

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18997	SampType:	MBLK	TestCode:	EPA Method 8082: PCB's					
Client ID:	PBW	Batch ID:	18997	RunNo:	25944					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769049	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	2.2		2.500		87.2	44.5	110			
Surr: Tetrachloro-m-xylene	2.4		2.500		97.6	31.8	95.7			S

Sample ID	LCS-18997	SampType: LCS		TestCode: EPA Method 8082: PCB's						
Client ID:	LCSW	Batch ID: 18997		RunNo: 25944						
Prep Date:	6/1/2015	Analysis Date: 5/5/2015		SeqNo: 769942			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	4.9	1.0	5.000	0	98.7	22.6	127			
Aroclor 1260	5.1	1.0	5.000	0	102	20.4	122			
Surr: Decachlorobiphenyl	2.9		2.500		114	44.5	110			S
Surr: Tetrachloro-m-xylene	4.2		2.500		169	31.8	95.7			S

Sample ID	LCSD-18997	SampType:	LCSD	TestCode:	EPA Method 8082: PCB's					
Client ID:	LCSS02	Batch ID:	18997	RunNo:	25944					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769944	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	4.6	1.0	5.000	0	93.0	22.6	127	6.03	26.9	
Aroclor 1260	5.3	1.0	5.000	0	107	20.4	122	4.45	29.1	
Surr: Decachlorobiphenyl	3.0		2.500		118	44.5	110	0	0	S
Surr: Tetrachloro-m-xylene	3.8		2.500		150	31.8	95.7	0	0	S

## Qualifiers:

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- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R25860	RunNo: 25860								
Prep Date:	Analysis Date: 4/29/2015	SeqNo: 766354	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.6	70	130			
Toluene	20	1.0	20.00	0	98.9	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	75.6	144			
Trichloroethene (TCE)	20	1.0	20.00	0	98.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: 5mL rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R25860	RunNo: 25860								
Prep Date:	Analysis Date: 4/29/2015	SeqNo: 766361	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Carbon Tetrachloride	ND	1.0								
Chloroform	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
Methylene Chloride	ND	3.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		99.2	70	130			

## Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18998	SampType:	MBLK	TestCode:	EPA Method 8310: PAHs					
Client ID:	PBW	Batch ID:	18998	RunNo:	25938					
Prep Date:	5/1/2015	Analysis Date:	5/5/2015	SeqNo:	769391	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	2.0								
2-Methylnaphthalene	ND	2.0								
Acenaphthylene	ND	2.5								
Acenaphthene	ND	2.0								
Fluorene	ND	0.80								
Phenanthrene	ND	0.60								
Anthracene	ND	0.60								
Fluoranthene	ND	0.30								
Pyrene	ND	0.30								
Benz(a)anthracene	ND	0.070								
Chrysene	ND	0.20								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.070								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.12								
Benzo(g,h,i)perylene	ND	0.12								
Indeno(1,2,3-cd)pyrene	ND	0.25								
Surr: Benzo(e)pyrene	14		20.00		71.8	30.8	125			

Sample ID	LCS-18998	SampType: LCS			TestCode: EPA Method 8310: PAHs					
Client ID:	LCSW	Batch ID: 18998			RunNo: 25938					
Prep Date:	5/1/2015	Analysis Date: 5/5/2015			SeqNo: 769392		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	55	2.0	80.00	0	69.3	41	76.8			
1-Methylnaphthalene	57	2.0	80.20	0	71.0	24.7	81			
2-Methylnaphthalene	56	2.0	80.00	0	70.4	17.4	81.9			
Acenaphthylene	60	2.5	80.20	0	75.4	50.3	77.5			
Acenaphthene	57	2.0	80.00	0	71.8	27.7	81.1			
Fluorene	5.8	0.80	8.020	0	72.8	34.2	75.1			
Phenanthrene	2.9	0.60	4.020	0	72.4	44.6	88.3			
Anthracene	2.9	0.60	4.020	0	72.1	41.9	85.3			
Fluoranthene	6.1	0.30	8.020	0	76.2	40.6	88			
Pyrene	6.6	0.30	8.020	0	82.8	41	86.6			
Benz(a)anthracene	0.62	0.070	0.8020	0	77.3	43.8	86.7			
Chrysene	3.1	0.20	4.020	0	76.9	44.5	80.7			
Benzo(b)fluoranthene	0.81	0.10	1.002	0	80.8	44.3	87.1			
Benzo(k)fluoranthene	0.39	0.070	0.5000	0	78.0	39.9	94.3			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
- P Sample pH Not in Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	LCS-18998	SampType: LCS			TestCode: EPA Method 8310: PAHs					
Client ID:	LCSW	Batch ID: 18998			RunNo: 25938					
Prep Date:	5/1/2015	Analysis Date: 5/5/2015			SeqNo: 769392		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.39	0.070	0.5020	0	77.7	44	86.5			
Dibenz(a,h)anthracene	0.78	0.12	1.002	0	77.8	48.8	83.6			
Benzo(g,h,i)perylene	0.83	0.12	1.000	0	83.0	43.6	84.5			
Indeno(1,2,3-cd)pyrene	1.6	0.25	2.004	0	77.3	49.2	91.1			
Surr: Benzo(e)pyrene	21		20.00		106	30.8	125			

Sample ID	LCSD-18998	SampType: LCSD			TestCode: EPA Method 8310: PAHs					
Client ID:	LCSS02	Batch ID: 18998			RunNo: 25938					
Prep Date:	5/1/2015	Analysis Date: 5/5/2015			SeqNo: 769393		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	58	2.0	80.00	0	72.7	41	76.8	4.75	20	
1-Methylnaphthalene	60	2.0	80.20	0	74.4	24.7	81	4.68	20	
2-Methylnaphthalene	59	2.0	80.00	0	73.8	17.4	81.9	4.70	20	
Acenaphthylene	63	2.5	80.20	0	78.7	50.3	77.5	4.29	20	S
Acenaphthene	60	2.0	80.00	0	74.9	27.7	81.1	4.26	20	
Fluorene	6.1	0.80	8.020	0	75.7	34.2	75.1	3.86	20	S
Phenanthrene	3.1	0.60	4.020	0	76.1	44.6	88.3	5.03	24	
Anthracene	3.0	0.60	4.020	0	75.9	41.9	85.3	5.04	20	
Fluoranthene	6.4	0.30	8.020	0	79.9	40.6	88	4.79	20.9	
Pyrene	7.0	0.30	8.020	0	86.8	41	86.6	4.71	20.8	S
Benz(a)anthracene	0.65	0.070	0.8020	0	81.0	43.8	86.7	4.72	20	
Chrysene	3.3	0.20	4.020	0	80.8	44.5	80.7	5.05	20	S
Benzo(b)fluoranthene	0.84	0.10	1.002	0	83.8	44.3	87.1	3.64	20.6	
Benzo(k)fluoranthene	0.41	0.070	0.5000	0	82.0	39.9	94.3	5.00	20.8	
Benzo(a)pyrene	0.41	0.070	0.5020	0	81.7	44	86.5	5.00	20	
Dibenz(a,h)anthracene	0.83	0.12	1.002	0	82.8	48.8	83.6	6.21	20	
Benzo(g,h,i)perylene	0.87	0.12	1.000	0	87.0	43.6	84.5	4.71	20	S
Indeno(1,2,3-cd)pyrene	1.6	0.25	2.004	0	81.3	49.2	91.1	5.03	20	
Surr: Benzo(e)pyrene	22		20.00		112	30.8	125	0		

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18972	SampType:	MBLK	TestCode:	Total Phenolics by SW-846 9067					
Client ID:	PBW	Batch ID:	18972	RunNo:	25901					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767792	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	2.5								

Sample ID	LCS-18972	SampType:	LCS	TestCode:	Total Phenolics by SW-846 9067					
Client ID:	LCSW	Batch ID:	18972	RunNo:	25901					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767793	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	22	2.5	20.00	0	109	75.7	126			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-R26153	SampType:	MBLK	TestCode:	EPA 335.4: Total Cyanide Subbed					
Client ID:	PBW	Batch ID:	R26153	RunNo:	26153					
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	775896	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide	ND	0.0100								

Sample ID	LCS-R26153	SampType:	LCS	TestCode:	EPA 335.4: Total Cyanide Subbed					
Client ID:	LCSW	Batch ID:	R26153	RunNo:	26153					
Prep Date:		Analysis Date:	5/5/2015	SeqNo:	775897	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide	0.500		0.5000	0	100	90	110			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C24

13-May-15

Client: Navajo Refining Company

Project: Monthly RO Reject

Sample ID	MB-18979	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	18979	RunNo:	25912					
Prep Date:	4/30/2015	Analysis Date:	5/1/2015	SeqNo:	768004	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-18979	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	18979	RunNo:	25912					
Prep Date:	4/30/2015	Analysis Date:	5/1/2015	SeqNo:	768005	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	999	20.0	1000	0	99.9	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3973 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: NAVAJO REFINING CO

Work Order Number: 1504C24

ReptNo: 1

Received by/date:

Logged By: Lindsey Mangin

4/29/2015 9:15:00 AM

Completed By: Lindsey Mangin

4/29/2015 10:14:50 AM

Reviewed By:

### Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

### Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $8.0^{\circ}\text{C}$ ?

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☒

No ☒

CS 04/29/15 Sample -002A  
No VOA Vials (2 of 2) has a bubble

11. Were any sample containers received broken?

Yes ☐

No ☒

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

5/1  
(2 of 12 unless noted)

Adjusted?

VLO

Checked by:

CS

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No.	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

### Chain-of-Custody Record

Client: Navajo Refining Co.

Mailing Address: P.O. Box 159 Artesia,

NM 88211-0159

Phone #: 575-748-3311

email or Fax#: 575-746-5451

QAVCC Package: 7-11-11 (5-11-11-11-11-11)

☐ Standard ☐ Level 4 (Full Validation)

☐ **Level 4 (Full Validation)**

Accreditation: ☐ JCT AD ☐ Other

☐ NELAP      ☐ Other \_\_\_\_\_

☐ Other \_\_\_\_\_

PI EDD (Type)	
---------------	--

Turn-Around Time:

☒ Standard ☐ Rush

☐ Rush \_\_\_\_\_

Project Name:

Monthly RO Reject

Project #: P.O. # 167796

Project Manager:

Scott Denton / Robert Combs

Sampler, Elizabeth Salsberry

Order	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Cost of treatment	4	3

Sample Temperature: 44°C			

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT NO.
4/28/15	8:45AM	Aq	R.O.	2 - 500ml P	unpres H2SO4	-001
4/28/15	8:45AM			3-40ml VOA	HCL	-001
4/28/15	8:45AM			1-500ml P	HNO3	-001
4/28/15	8:45AM			1-125ml P	HNO3	-001
4/28/15	8:45AM			1-500ml P	NaOH	-001
4/28/15	8:45AM			2- 1L P	HNO3	-001
4/28/15	8:45AM			3-40ml VOA	HCL	-001
4/28/15	8:45AM			2 - 1L Glass	unpres	-001
4/28/15	8:45AM			1 - 1L Glass	unpres	-001
4/28/15	8:45AM			2-40ml VOA	unpres	-001
4/28/15	8:45AM		Trip Blank	2-40ml VOA	HCL	-002

Date: 4/28/15	Time: 10:45 am	Relinquished by: Elizabeth Salobury Elizabeth Salobury
------------------	----------------------	---

10:45 am	Elizabeth Salobury
Time:	Relinquished by:

Relinquished by: Zingabehn Salobury

Received by:	Date	Time
Celine Simon	04/29/15	0915

Received by:	Date	Time

Date	Time
4/29/15	0915

4/29/15 0915  
Date Time

Remarks: Send results to Scott Denton, Mike Holder, Mick Schultz, Robert Combs and Andrew Contreras.
--



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

[illegible]





Fourth Quarter 2013 Final Report - RO Report Unchange Fund  
May 12, 2014 1:00 PM EDT - 1:00 PM EDT

Summary Statistics					Stat Tests		ANOVA	
# Samples	# Data Points	Mean	StDev	Assessment	Chi-Sq	P-Value	Significance	
1	1	0	0	NA	0	1.0	NA	
2	2	0	0	NA	0	1.0	NA	
3	3	0.07	0.07	NA	0.09	NA	NA	
4	4	0	0	NA	0	1.0	NA	
5	5	0	0	NA	0	1.0	NA	
6	6	0	0	NA	0	1.0	NA	
7	7	0	0	NA	0	1.0	NA	
8	8	0	0	NA	0	1.0	NA	
9	9	0	0	NA	0	1.0	NA	
10	10	0	0	NA	0	1.0	NA	
11	11	0	0	NA	0	1.0	NA	
12	12	0	0	NA	0	1.0	NA	
13	13	0	0	NA	0	1.0	NA	
14	14	0	0	NA	0	1.0	NA	
15	15	0	0	NA	0	1.0	NA	
16	16	0	0	NA	0	1.0	NA	
17	17	0	0	NA	0	1.0	NA	
18	18	0	0	NA	0	1.0	NA	
19	19	0	0	NA	0	1.0	NA	
20	20	0	0	NA	0	1.0	NA	
21	21	0	0	NA	0	1.0	NA	
22	22	0	0	NA	0	1.0	NA	
23	23	0	0	NA	0	1.0	NA	
24	24	0	0	NA	0	1.0	NA	
25	25	0	0	NA	0	1.0	NA	
26	26	0	0	NA	0	1.0	NA	
27	27	0	0	NA	0	1.0	NA	
28	28	0	0	NA	0	1.0	NA	
29	29	0	0	NA	0	1.0	NA	
30	30	0	0	NA	0	1.0	NA	
31	31	0	0	NA	0	1.0	NA	
32	32	0	0	NA	0	1.0	NA	
33	33	0	0	NA	0	1.0	NA	
34	34	0	0	NA	0	1.0	NA	
35	35	0	0	NA	0	1.0	NA	
36	36	0	0	NA	0	1.0	NA	
37	37	0	0	NA	0	1.0	NA	
38	38	0	0	NA	0	1.0	NA	
39	39	0	0	NA	0	1.0	NA	
40	40	0	0	NA	0	1.0	NA	
41	41	0	0	NA	0	1.0	NA	
42	42	0	0	NA	0	1.0	NA	
43	43	0	0	NA	0	1.0	NA	
44	44	0	0	NA	0	1.0	NA	
45	45	0	0	NA	0	1.0	NA	
46	46	0	0	NA	0	1.0	NA	
47	47	0	0	NA	0	1.0	NA	
48	48	0	0	NA	0	1.0	NA	
49	49	0	0	NA	0	1.0	NA	
50	50	0	0	NA	0	1.0	NA	
51	51	0	0	NA	0	1.0	NA	
52	52	0	0	NA	0	1.0	NA	
53	53	0	0	NA	0	1.0	NA	
54	54	0	0	NA	0	1.0	NA	
55	55	0	0	NA	0	1.0	NA	
56	56	0	0	NA	0	1.0	NA	
57	57	0	0	NA	0	1.0	NA	
58	58	0	0	NA	0	1.0	NA	
59	59	0	0	NA	0	1.0	NA	
60	60	0	0	NA	0	1.0	NA	

DISCUSS a few points of the following situation.

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THE RESULTS in TABLE 20.11 of the hypothesis test for the difference in the "adjusted R" aroundwater value from Table 10.12 are 5.94.

Don't lose sight with your new computer. A small, compact printer is a must.

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

doi:10.1371/journal.pone.0142112.g002

See also 2007a, 2007b, 2007c, 2007d, 2007e, 2007f, 2007g, 2007h, 2007i, 2007j, 2007k, 2007l, 2007m, 2007n, 2007o, 2007p, 2007q, 2007r, 2007s, 2007t, 2007u, 2007v, 2007w, 2007x, 2007y, 2007z, 2008a, 2008b, 2008c, 2008d, 2008e, 2008f, 2008g, 2008h, 2008i, 2008j, 2008k, 2008l, 2008m, 2008n, 2008o, 2008p, 2008q, 2008r, 2008s, 2008t, 2008u, 2008v, 2008w, 2008x, 2008y, 2008z, 2009a, 2009b, 2009c, 2009d, 2009e, 2009f, 2009g, 2009h, 2009i, 2009j, 2009k, 2009l, 2009m, 2009n, 2009o, 2009p, 2009q, 2009r, 2009s, 2009t, 2009u, 2009v, 2009w, 2009x, 2009y, 2009z, 2010a, 2010b, 2010c, 2010d, 2010e, 2010f, 2010g, 2010h, 2010i, 2010j, 2010k, 2010l, 2010m, 2010n, 2010o, 2010p, 2010q, 2010r, 2010s, 2010t, 2010u, 2010v, 2010w, 2010x, 2010y, 2010z, 2011a, 2011b, 2011c, 2011d, 2011e, 2011f, 2011g, 2011h, 2011i, 2011j, 2011k, 2011l, 2011m, 2011n, 2011o, 2011p, 2011q, 2011r, 2011s, 2011t, 2011u, 2011v, 2011w, 2011x, 2011y, 2011z, 2012a, 2012b, 2012c, 2012d, 2012e, 2012f, 2012g, 2012h, 2012i, 2012j, 2012k, 2012l, 2012m, 2012n, 2012o, 2012p, 2012q, 2012r, 2012s, 2012t, 2012u, 2012v, 2012w, 2012x, 2012y, 2012z, 2013a, 2013b, 2013c, 2013d, 2013e, 2013f, 2013g, 2013h, 2013i, 2013j, 2013k, 2013l, 2013m, 2013n, 2013o, 2013p, 2013q, 2013r, 2013s, 2013t, 2013u, 2013v, 2013w, 2013x, 2013y, 2013z, 2014a, 2014b, 2014c, 2014d, 2014e, 2014f, 2014g, 2014h, 2014i, 2014j, 2014k, 2014l, 2014m, 2014n, 2014o, 2014p, 2014q, 2014r, 2014s, 2014t, 2014u, 2014v, 2014w, 2014x, 2014y, 2014z, 2015a, 2015b, 2015c, 2015d, 2015e, 2015f, 2015g, 2015h, 2015i, 2015j, 2015k, 2015l, 2015m, 2015n, 2015o, 2015p, 2015q, 2015r, 2015s, 2015t, 2015u, 2015v, 2015w, 2015x, 2015y, 2015z, 2016a, 2016b, 2016c, 2016d, 2016e, 2016f, 2016g, 2016h, 2016i, 2016j, 2016k, 2016l, 2016m, 2016n, 2016o, 2016p, 2016q, 2016r, 2016s, 2016t, 2016u, 2016v, 2016w, 2016x, 2016y, 2016z, 2017a, 2017b, 2017c, 2017d, 2017e, 2017f, 2017g, 2017h, 2017i, 2017j, 2017k, 2017l, 2017m, 2017n, 2017o, 2017p, 2017q, 2017r, 2017s, 2017t, 2017u, 2017v, 2017w, 2017x, 2017y, 2017z, 2018a, 2018b, 2018c, 2018d, 2018e, 2018f, 2018g, 2018h, 2018i, 2018j, 2018k, 2018l, 2018m, 2018n, 2018o, 2018p, 2018q, 2018r, 2018s, 2018t, 2018u, 2018v, 2018w, 2018x, 2018y, 2018z, 2019a, 2019b, 2019c, 2019d, 2019e, 2019f, 2019g, 2019h, 2019i, 2019j, 2019k, 2019l, 2019m, 2019n, 2019o, 2019p, 2019q, 2019r, 2019s, 2019t, 2019u, 2019v, 2019w, 2019x, 2019y, 2019z, 2020a, 2020b, 2020c, 2020d, 2020e, 2020f, 2020g, 2020h, 2020i, 2020j, 2020k, 2020l, 2020m, 2020n, 2020o, 2020p, 2020q, 2020r, 2020s, 2020t, 2020u, 2020v, 2020w, 2020x, 2020y, 2020z, 2021a, 2021b, 2021c, 2021d, 2021e, 2021f, 2021g, 2021h, 2021i, 2021j, 2021k, 2021l, 2021m, 2021n, 2021o, 2021p, 2021q, 2021r, 2021s, 2021t, 2021u, 2021v, 2021w, 2021x, 2021y, 2021z, 2022a, 2022b, 2022c, 2022d, 2022e, 2022f, 2022g, 2022h, 2022i, 2022j, 2022k, 2022l, 2022m, 2022n, 2022o, 2022p, 2022q, 2022r, 2022s, 2022t, 2022u, 2022v, 2022w, 2022x, 2022y, 2022z, 2023a, 2023b, 2023c, 2023d, 2023e, 2023f, 2023g, 2023h, 2023i, 2023j, 2023k, 2023l, 2023m, 2023n, 2023o, 2023p, 2023q, 2023r, 2023s, 2023t, 2023u, 2023v, 2023w, 2023x, 2023y, 2023z, 2024a, 2024b, 2024c, 2024d, 2024e, 2024f, 2024g, 2024h, 2024i, 2024j, 2024k, 2024l, 2024m, 2024n, 2024o, 2024p, 2024q, 2024r, 2024s, 2024t, 2024u, 2024v, 2024w, 2024x, 2024y, 2024z, 2025a, 2025b, 2025c, 2025d, 2025e, 2025f, 2025g, 2025h, 2025i, 2025j, 2025k, 2025l, 2025m, 2025n, 2025o, 2025p, 2025q, 2025r, 2025s, 2025t, 2025u, 2025v, 2025w, 2025x, 2025y, 2025z, 2026a, 2026b, 2026c, 2026d, 2026e, 2026f, 2026g, 2026h, 2026i, 2026j, 2026k, 2026l, 2026m, 2026n, 2026o, 2026p, 2026q, 2026r, 2026s, 2026t, 2026u, 2026v, 2026w, 2026x, 2026y, 2026z, 2027a, 2027b, 2027c, 2027d, 2027e, 2027f, 2027g, 2027h, 2027i, 2027j, 2027k, 2027l, 2027m, 2027n, 2027o, 2027p, 2027q, 2027r, 2027s, 2027t, 2027u, 2027v, 2027w, 2027x, 2027y, 2027z, 2028a, 2028b, 2028c, 2028d, 2028e, 2028f, 2028g, 2028h, 2028i, 2028j, 2028k, 2028l, 2028m, 2028n, 2028o, 2028p, 2028q, 2028r, 2028s, 2028t, 2028u, 2028v, 2028w, 2028x, 2028y, 2028z, 2029a, 2029b, 2029c, 2029d, 2029e, 2029f, 2029g, 2029h, 2029i, 2029j, 2029k, 2029l, 202

Total Parts are defined as follows: 50.6 ± 0.003 for Naphthalene and 50.6 ± 0.003 for Anthracene.

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[illegible]

**Category:** A Critical Growthchart Subcategory Level

[illegible]

**வினாக்கள்:**

١٠٠٠ = laboratory control specimen

Dr. James W. Jones, a psychiatrist

16.  $\frac{1}{2} = \frac{1}{2} \times \frac{2}{2} = \frac{1 \times 2}{2 \times 2} = \frac{2}{4}$

[illegible]
$$H_A = \mu_1 \neq \mu_2$$

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

2014年12月15日 星期一

Agarose gel electrophoresis

1. Mix 100 µl of DNA extract with 10 µl of 10x TBE buffer

2. Load 10 µl of the mixture into each lane of a 1% agarose gel

3. Run the gel at 100V for 2 hours

4. Stain the gel with ethidium bromide

5. Visualize the bands under UV light

6. Compare the banding patterns of the samples

7. Interpret the results based on the expected banding patterns

8. Clean up the gel and dispose of the waste properly

9. Repeat the experiment if necessary

10. Document the results and conclusions

**Chavez, Carl J, EMNRD**

---

**From:** Moore, Darrell [Darrell.Moore@hollycorp.com]  
**Sent:** Tuesday, June 27, 2006 11:25 AM  
**To:** Chavez, Carl J, EMNRD  
**Cc:** Price, Wayne, EMNRD  
**Subject:** FW: discharge plan

GW-028

Carl,

Enclosed, please find our renewal notice for our discharge plans for our Lovington and Artesia facilities. Hard copies and filing fees will follow by US Mail. If you have any questions, please call me at 505-746-5281.

---

**From:** Byrd, Jeff  
**Sent:** Tuesday, June 27, 2006 11:21 AM  
**To:** Moore, Darrell  
**Subject:** discharge plan

Jefferson L. Byrd  
Sr. Environmental Specialist  
Navajo Refining - Environmental Department  
Artesia New Mexico  
Office - 505-746-5468  
Cell - 505-703-5068

6/27/2006



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

Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Santa Fe  
1 Copy to Appropriate  
District Office

**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS,  
REFINERIES, COMPRESSOR, GEOTHERMAL FACILITIES  
AND CRUDE OIL PUMP STATIONS**

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☒ Renewal ☐ Modification

1. Type: Oil Refinery

2. Operator: Navajo Refining Company

Address: PO Box 159 Artesia, NM 88211

Contact Person: Darrell Moore Phone: 505-746-5281

3. Location: 4 /4 1/2 /4 Section 9 Township 17s Range 26e

Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATION: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Darrell Moore Title: Env. Mgr. for Water & Waste

Signature: *Darrell Moore* Date: 6/27/06

E-mail Address: darrell.moore@navajo-refining.com

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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☐ New ☒ Renewal ☐ Modification

1. Type: Oil Refinery

2. Operator: Navajo Refining Company

Address: PO Box 159 Artesia, NM 88211

Contact Person: Darrell Moore

Phone: 505-746-5281

3. Location: \_\_\_\_\_/4 \_\_\_\_\_/4 Section 36 Township 16s Range 36e  
Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
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6. Attach a description of all materials stored or used at the facility.
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12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATION: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Darrell Moore

Title: Env. Mgr. for Water & Waste

Signature: Darrell Moore

Date: 6/27/06

E-mail Address: darrell.moore@navajo-refining.com



RECEIVED  
REFINING COMPANY, L.P.

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

AUG 30 2006

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88210-0159  
Oil Conservation Division  
1220 S. St. Francis Drive  
August 28, 2006 Santa Fe, NM 87505

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: Discharge Permit Fees, Artesia and Lovington facilities**

Dear Carl

Enclosed, please find two \$100 checks for the filing fees for our discharge permits for our facilities at Artesia and Lovington. These fees cover GW-14 and GW-28.

If you have any questions, please call me at 505-746-5281.

Sincerely,  
NAVAJO REFINING COMPANY

Darrell Moore  
Environmental Manager for Water and Waste

Encl.



ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 6/28/06

or cash received on \_\_\_\_\_ in the amount of \$ 100<sup>00</sup>

from NAVAJO Refining Co

for GW-28

Submitted by: Lawrence Romero Date: 8/31/06

Submitted to ASD by: Lawrence Romero Date: 8/31/06

Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Filing Fee ☒ New Facility \_\_\_\_\_ Renewal \_\_\_\_\_

Modification \_\_\_\_\_ Other \_\_\_\_\_

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment \_\_\_\_\_ or Annual Increment \_\_\_\_\_

THIS CHECK CLEARS THROUGH POSITIVE PAY  
**NAVAJO REFINING COMPANY**  
501 EAST MAIN STREET  
P O BOX 159  
ARTESIA, NM 88211-0159  
(505) 748-3311

GUARANTY BANK  
DALLAS, TEXAS  
88-7066/3149

CHECK  
DATE: 06/28/06

The SUM of One Hundred Dollars and 00 cents

PAY EXACTLY

\*\*\*\*\*100.00

VOID AFTER 180 DAYS

PAY  
TO THE  
ORDER  
OF  
NM WATER QUALITY MANAGEMENT FU  
%OIL CONSERVATION DIVISION  
2040 SOUTH PACHECO  
SANTA FE, NM 87505

\$25,000.00 OR MORE REQUIRES 2 MANUAL SIGNATURES

GW-28

Description	FUND	CES	DFA ORG	DEA T	ED ORG	ED ACCT	AMOUNT	
1 CY Reimbursement Project _____ Tax _____	084	01						1
5 Gross Receipt Tax	084	01		2329	900000	2329134		2
3 Air Quality Title V	092	13	1300	1896	900000	4169134		3
4 PRP Prepayments	248	14	1400	9696	900000	4969014		4
2 Climax Chemical Co.	248	14	1400	9696	900000	4969015		5
6 Circle K Reimbursements	248	14	1400	9696	900000	4969248		6
7 Hazardous Waste Permits	339	27	2700	1898	900000	4169027		7
8 Hazardous Waste Annual Generator Fees	339	27	2700	1898	900000	4169339		8
10 ✓ Water Quality - Oil Conservation Division	341	29		2329	900000	2329029	200.00	10
11 Water Quality - GW Discharge Permit	341	29	2900	1696	900000	4169029		11
12 Air Quality Permits	631	31	2500	1696	900000	4169031		12
13 Payments under Protest	651	33		2919	900000	2919033		13
14 Xerox Copies	652	34		2349	900000	2349001		14
15 Ground Water Penalties	652	34		2349	900000	2349002		15
16 Witness Fees	652	34		2349	900000	2439003		16
17 Air Quality Penalties	652	34		2349	900000	2349004		17
18 OSHA Penalties	652	34		2349	900000	2349005		18
19 Prior Year Reimbursement	652	34		2349	900000	2349006		19
20 Surface Water Quality Certification	652	34		2349	900000	2349009		20
21 Jury Duty	652	34		2349	900000	2349012		21
22 CY Reimbursements ( i.e. telephone)	652	34		2349	900000	2349014		22
23 UST Owner's List	783	24	2500	9696	900000	4969201		23
24 Hazardous Waste Notifiers List	783	24	2500	9696	900000	4969202		24
25 UST Maps	783	24	2500	9696	900000	4969203		25
26 UST Owner's Update	783	24	2500	9696	900000	4969205		26
28 Hazardous Waste Regulations	783	24	2500	9696	900000	4969207		28
29 Radiologic Tech. Regulations	783	24	2500	9696	900000	4969208		29
30 Superfund CERLIS List	783	24	2500	9696	900000	4969211		30
31 Solid Waste Permit Fees	783	24	2500	9696	900000	4969213		31
32 Smoking School	783	24	2500	9696	900000	4969214		32
33 SWQB - NPS Publications	783	24	2500	9696	900000	4969222		33
34 Radiation Licensing Regulation	783	24	2500	9696	900000	4969228		34
35 Sale of Equipment	783	24	2500	9696	900000	4969301		35
36 Sale of Automobile	783	24	2500	9696	900000	4969302		36
37 Lost Recoveries	783	24	2500	9696	900000	4969814		37
38 Lost Repayments	783	24	2500	9696	900000	4969815		38
39 Surface Water Publication	783	24	2500	9696	900000	4969801		39
40 Exxon Road Drive Ruidoso - CAF	783	24	2500	9696	900000	4969242		40
41 Emerg. Hazardous Waste Penalties NOV	957	32	9600	1898	900000	4164032		41
42 Radiologic Tech. Certification	987	05	0500	1896	900000	4169005		42
44 Ust Permit Fees	989	20	3100	1696	900000	4169020		44
45 UST Tank Installers Fees	989	20	3100	1696	900000	4169021		45
46 Food Permit Fees	991	26	2600	1696	900000	4169026		46
43 Other								43

Gross Receipt Tax Required

Site Name &amp; Project Code Required

TOTAL

200.00

Contact Person:

Wagner Price

Phone:

476-3420

Date:

8/31/06

Received in ASD By:

Date:

RT #:

ST #:

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No.                      dated 08/05/03  
or cash received on                      in the amount of \$ 8400.00  
from NAVAJO REFINING CO.  
for ARTESIA REFINERY GLU-28  
Submitted by: WAYNE PRICE (Printing Name) Date: 9/29/03 (DP No.)  
Submitted to ASD by:                      Date: "  
Received in ASD by:                      Date:                       
Filing Fee            New Facility            Renewal X  
Modification            Other                       
Organization Code 521.07 Applicable FY 2004  
To be deposited in the Water Quality Management Fund.  
Full Payment X or Annual Increment           

THIS CHECK CLEARS THROUGH POSITIVE PAY	
<b>NAVAJO REFINING COMPANY</b> 501 EAST MAIN STREET P O BOX 159 ARTESIA, NM 88211-0159 (505) 748-3311	GUARANTY BANK DALLAS, TEXAS 88-7066/3149
The SUM of Eight Thousand Four Hundred Dollars and 00 cents	CHECK DATE: 08/05/03
	PAY EXACTLY
	****8,400.00
	VOID AFTER 180 DAYS
PAY TO THE ORDER OF NM WATER QUALITY MANAGEMENT FUND OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NM 87505	<u>Matthew P. Clifton</u> PRESIDENT
\$25,000.00 OR MORE REQUIRES 2 MANUAL SIGNATURES	
THE FACE OF THIS CHECK IS SECURED BY A WATERMARK AND HAS A TRUE WATERMARK	





NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

December 18, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-288-258-883**

Mr. Phillip Youngblood  
Navajo Refining Company  
P. O. Drawer 159  
Artesia, New Mexico 88211-0159

**RE: Discharge Plan GW-028**  
**Permit Condition Amendment**  
**Artesia Refinery**  
**Eddy County, New Mexico**

Dear Mr. Youngblood:

Pursuant to the request received from Navajo Refining Company (Navajo), permit conditions 5 and 13 have been amended. Enclosed are two copies of the conditions of approval with the amended conditions. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 10 working days of receipt of this letter.

Please be advised that the amendment of this plan does not relieve Navajo of liability should operations result in pollution of surface water, ground water, or the environment.

The OCD hopes that this has clarified your concern, and we appreciate your input into this process.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roger C. Anderson".

Roger C. Anderson  
Environmental Bureau Chief

RCA/mwa

xc: OCD Artesia Office

ATTACHMENT TO THE DISCHARGE PLAN GW-028 RENEWAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN APPROVAL CONDITIONS (AMENDED)  
(December 18, 1996)

1. Payment of Discharge Plan Fees: The \$50 filing fee is due upon receipt of this approval. The \$3,910 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
2. Navajo Commitments: Navajo will abide by all commitments submitted in the discharge plan application dated June 19, 1996.
3. Reverse Osmosis Reject Water:
  - A. The discharge of reject water from the reverse osmosis treatment facility to Eagle Draw shall not exceed the following standards:

Constituent	Concentration	Unit
Aluminum	87	ug/l
Arsenic	100	ug/l
Beryllium	18	ug/l
Barium	1000	ug/l
Boron	750	ug/l
Cadmium	10	ug/l
Chlordane	0.015	ug/l
Chlorine	30	ug/l
Chromium	50	ug/l
Cobalt	50	ug/l

Copper	1000	ug/l
Cyanide	18	ug/l
Fluoride	1600	ug/l
Iron	1000	ug/l
Manganese	200	ug/l
Lead	6	ug/l
Mercury	0.042	ug/l
Nickel	200	ug/l
NH3 as N	0.07	ug/l
Radium 226+228	30	pCi/l
Selenium	12	ug/l
Silver	0.4	ug/l
Vanadium	282	ug/l
Zinc	10	mg/l
Sulfate	2661	mg/l
Chloride	275	mg/l
Total Dissolved Solids	4555	mg/l
Chemical Oxygen Demand	125	mg/l
pH	6.6 to 8.6	S.U.

- B. Constituents not listed in A. above for which there are standards established pursuant to WQCC Regulation 3103 will not exceed the set numerical standard in that regulation.
- C. No toxic pollutant listed in WQCC regulation 1101 TT. will be present in the discharge.



D. **SAMPLING:** samples of the discharge will be taken and analyzed on the following schedule:

- i. Major cations/anions and heavy metals will be sampled quarterly.
- ii. All other constituents will be sampled annually.
- iii. Analysis for all parameters will be pursuant to EPA approved methods.
- iv. Sampling and analytical QA/QC records will be retained for all sampling events.
- v. All samples will be "grab" samples.
- vi. Discharge flow will be monitored and recorded on a daily basis.
- vii. Sampling frequency can be reduced, on a parameter by parameter basis, upon application and OCD approval provided all analytical data in the previous year was no greater than seventy-five (75) percent of the effluent limit.
- viii. All samples collected in a monitoring period will be reported.
- ix. Sampling and flow measurement will be representative of the volume and nature of the discharge.
- x. Sample data and analytical results will be reported to the OCD on a quarterly basis and are due prior to the 15th day of the month following the calender quarter. (e.g. 1st quarter results are due prior to April 15th).

4. Effluent Pipeline:

- A. Navajo Refining Company will be required to demonstrate integrity of its three-mile long effluent pipeline between the main refinery complex and the disposal ponds by January 1, 1997. Results will be submitted to the OCD by February 14 1997.
- B. Effluent from the pipeline shall be sampled annually where it enters the ponds. Field pH and conductivity shall be measured. Analysis shall include aromatic and halogenated volatile organics, major cations/anions plus fluoride, WQCC metals and PAH's.

5. Product and Waste Disposal:

All recovered product, waste filters or treatment system waste products will be recycled and/or disposed of at an OCD approved facility or in an OCD approved manner. Commercial solid waste from Navajo's offices, warehouses and lunch rooms, which include but is not limited to paper trash, packaging materials, and food scraps along with construction and demolition debris, which include but is not limited to steel, glass, brick, concrete, roofing materials, pipe, wallboard, lumber, rocks, soil, trees and other vegetative matter is approved for disposal at a municipal solid waste facility servicing the area. The disposal of these commercial solid wastes, construction and demolition debris as defined in 20 NMAC 9.1.105.O and T shall not result in a violation of 20 NMAC 9.1.107.C or any other applicable section of the New Mexico solid waste regulations or the New Mexico Oil Conservation Division regulations.

6. Lead Contamination:

A plan and schedule for delineating, testing and disposing of any lead contaminated soil located between tanks 417 and 418 will be submitted to the OCD by February 14, 1997.

7. Ground Water and Treatment System Monitoring:

A. Ground water from monitor wells, the remediation and the treatment system will be sampled and analyzed according to the following schedule. All water quality sampling will be conducted according to EPA approved protocol and laboratory techniques.

Sampling point	Biweekly	Monthly	Quarterly	Annually
Air Stripper Effluent		601** 602** PAH's		Cations/anions Heavy metals
RA-2723	602**			
RA-4196		602**		
RA-4798		602**		
RA-313*		602**		
RA-314*		602**		
RA-1331*		602**		
RA-307*		602**		
RA-1227*		602**		
RA-3156			602**	

RA-3353			602**	
KWB-1A			601** 602**	PAH's Cation/anions Heavy metals
KWB-1C			601** 602**	PAH's Cation/anions Heavy metals
KWB-2A			601** 602**	PAH's Cation/anions Heavy metals
KWB-3A			601** 602**	PAH's Cation/anions Heavy metals
KWB-7			601** 602**	PAH's Cation/anions Heavy metals
KWB-9			601** 602**	PAH's Cation/anions Heavy metals

\* - Sampled during irrigation season

\*\* - EPA laboratory method

- B. An annual report will be submitted to the OCD by February 28 of each year. The annual reports will contain:
- i. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.
  - ii. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Copies of the most recent years laboratory analytical data sheets will also be submitted
  - iii. A quarterly water table elevation map using the water table elevation of the ground water in all refinery monitor wells.
  - iv. Plots of water table elevation vs. time for each ground water monitoring point.
  - v. A quarterly product thickness map based on the thickness of free phase product on ground water in all refinery monitor wells.



- vi. The volume of product recovered in the remediation/treatment system during each quarter and the total recovered to date.
  - vii. The volume of total fluids pumped from all recovery wells and trenches during each quarter and the total volume recovered to date.
8. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment. A plan and schedule will be provided to the OCD by February 14, 1997 for properly storing all drums which do not meet OCD requirements.
9. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design. A plan and schedule will be provided to the OCD by February 14, 1997 for properly containing all process areas which do not meet OCD requirements.
10. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm. A plan and schedule will be provided to the OCD by February 14, 1997 for properly containing all above ground tanks which do not meet OCD requirements.
11. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure. A plan and schedule will be provided to the OCD by February 14, 1997 for properly containing all above ground saddle tanks which do not meet OCD requirements.
12. Labeling: All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite. A plan and schedule will be provided to the OCD by February 14, 1997 for properly labeling all tanks, drums and containers which do not meet OCD requirements.
13. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of

cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing so that an OCD representative may witness the testing. All required testing will be completed by December 31, 1996. A plan and schedule will be provided to the OCD by February 14, 1997 for properly containing, repairing and/or replacing all below grade tanks, sumps, and pits which do not meet OCD requirements.

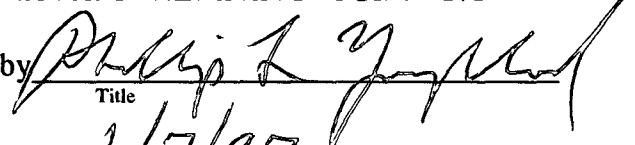
14. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years there after, or prior to discharge plan renewal. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing so that an OCD representative may witness the testing. All required testing will be completed by December 31, 1996. A plan and schedule will be provided to the OCD by February 14, 1997 for properly repairing and/or replacing all below grade lines for which integrity could not be achieved.
15. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject fluid other than domestic waste sewage below the surface are considered Class V injection wells under the EPA UIC program. All class V wells will be closed unless, it can be demonstrated that protectable groundwater will not be impacted in the reasonably foreseeable future. Class V wells must be closed through the Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, environment and groundwater as defined by the WQCC, and are cost effective.
16. Housekeeping: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.  
  
Any non-exempt contaminated soils that are collected at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.
17. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
18. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
19. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be

submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

20. Certification: Navajo, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Navajo further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

NAVAJO REFINING COMPANY

by   
Title  
1/7/97



ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 11/22/96,

or cash received on \_\_\_\_\_ in the amount of \$ 7976.00

from Navajo Refining

for Artesia 4010.00 GW-028

Lawington 3960.00 GW-014

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Submitted to ASD by: R. Chudman Date: 1-24-97

Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Filing Fee ☒ New Facility \_\_\_\_\_ Renewal ☒

Modification \_\_\_\_\_ Other \_\_\_\_\_

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment \_\_\_\_\_

NAVAJO REFINING COMPANY

501 EAST MAIN ST

P O BOX 159

ARTESIA NM 88211-0159

NationsBank of Texas N.A.  
Wichita Falls, TX 76301

CHECK  
DATE:

11/22/96

PAY EXACTLY

\$7,970.00

\*\*\*\*\*Seven Thousand Nine Hundred Seventy and no/100\*\*\*\*\*

PAY TO THE ORDER OF NMED - Water Quality Management  
& NMOCD  
2040 S. Pacheco  
Santa Fe, New Mexico 87505

Kathy H. Wilber

[Signature]  
\$2,500.00 OR MORE REQUIRES COUNTER SIGNATURE



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

November 13, 1996

**CERTIFIED MAIL**

**RETURN RECEIPT NO. P-288-258-861**

Mr. Phillip Youngblood  
Navajo Refining Company  
P. O. Drawer 159  
Artesia, New Mexico 88211-0159

**RE: Discharge Plan GW-028  
Artesia Refinery  
Eddy County, New Mexico**

Dear Mr. Youngblood:

The groundwater discharge plan renewal, GW-028, for the Navajo Refining Company (Navajo) Artesia Refinery located in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, is **hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the original discharge plan as approved October 21, 1991, and the discharge plan renewal application dated June 19, 1996. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within five working days of receipt of this letter.**

The discharge plan was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Section 3109.A. Please note Sections 3109.E and 3109.F., which provide for possible future amendments or modifications of the plan. Please be advised that approval of this plan does not relieve Navajo of liability should operations result in pollution of surface water, ground water, or the environment.

Please be advised that all exposed pits, including lined pits and open tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Mr. Philip Youngblood  
November 13, 1996  
Page 2

Please note that Section 3104 of the regulations require "When a facility has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C. Navajo is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

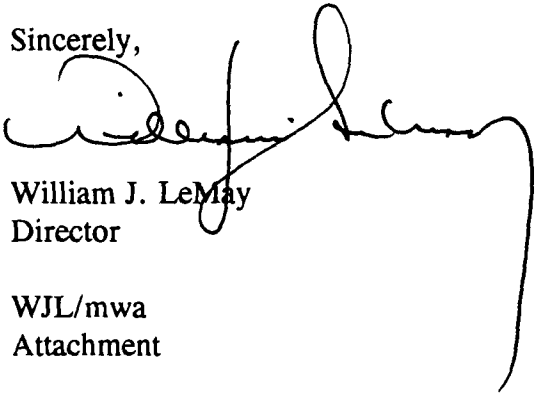
Pursuant to Section 3109.G.4., this plan is for a period of five years. This approval will expire on October 21, 2001, and Navajo should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan renewal application for the Navajo Refining Company Artesia Refinery is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus one half of the flat fee or \$3,910 for refineries. The OCD has not received the \$50 filing fee or the \$3,910 flat fee. The \$50 filing fee is due upon receipt of this approval. The flat fee of \$3,910 may be paid in a single payment due on the date of the discharge plan approval or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval and subsequent installments due on this date of each calendar year.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



William J. LeMay  
Director

WJL/mwa  
Attachment

xc: OCD Artesia Office



ATTACHMENT TO THE DISCHARGE PLAN GW-028 RENEWAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN APPROVAL CONDITIONS  
(November 13, 1996)

1. Payment of Discharge Plan Fees: The \$50 filing fee is due upon receipt of this approval. The \$3,910 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
2. Navajo Commitments: Navajo will abide by all commitments submitted in the discharge plan application dated June 19, 1996.
3. Reverse Osmosis Reject Water:
  - A. The discharge of reject water from the reverse osmosis treatment facility to Eagle Draw shall not exceed the following standards:

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Chlorine	30	ug/l
Chromium	50	ug/l
Cobalt	50	ug/l

Copper	1000	ug/l
Cyanide	18	ug/l
Fluoride	1600	ug/l
Iron	1000	ug/l
Manganese	200	ug/l
Lead	6	ug/l
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Nickel	200	ug/l
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- B. Constituents not listed in A. above for which there are standards established pursuant to WQCC Regulation 3103 will not exceed the set numerical standard in that regulation.
- C. No toxic pollutant listed in WQCC regulation 1101 TT. will be present in the discharge.

D. **SAMPLING:** samples of the discharge will be taken and analyzed on the following schedule:

- i. Major cations/anions and heavy metals will be sampled quarterly.
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4. **Effluent Pipeline:**

- A. Navajo Refining Company will be required to demonstrate integrity of its three-mile long effluent pipeline between the main refinery complex and the disposal ponds by January 1, 1997. Results will be submitted to the OCD by February 14 1997.
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\* - Sampled during irrigation season  
\*\* - EPA laboratory method

B. An annual report will be submitted to the OCD by February 28 of each year. The annual reports will contain:

- i. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.
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16. Housekeeping: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

Any non-exempt contaminated soils that are collected at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.
17. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
18. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
19. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

20. Certification: Navajo, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Navajo further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

NAVAJO REFINING COMPANY

by \_\_\_\_\_  
Title

RECEIVED

JUN 30 2003

OIL CONSERVATION  
DIVISION

April 17, 2003

**CERTIFIED MAIL**

**RETURN RECEIPT NO. 5357 7133**

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company L.P.  
P.O. Box 159  
Artesia, New Mexico 88211-0159

RE: Discharge Permit GW-028  
Artesia Refinery  
Eddy County, New Mexico

Dear Mr. Moore:

The groundwater discharge permit renewal, GW-028, for the Navajo Refining Company L.P. (Navajo) Artesia Refinery located in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.**

The original discharge permit was approved on October 21, 1991 with an expiration date of October 21, 1996. The discharge permit renewal application dated June 20, 2001 including attachments, and subsequent information dated March 15, 2002, discharge permit addendum dated May 31, 2002 submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge permit is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve Navajo Refining Company L.P. of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve Navajo Refining Company L.P. of its responsibility to comply with any other governmental authority's rules and regulations. Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.



Mr. Darrell Moore  
April 17, 2003  
Page 2

Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., Navajo Refining Company L.P. is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4., this approval is for a period of five years. **This approval will expire October 21, 2006** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

The discharge permit application for the Navajo Refining Company L.P., Artesia Refinery is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of \$100.00 plus flat fee of \$8400.00 for Oil Refineries. The OCD has not received the \$8400.00 flat fee.

**Please make all checks payable to: Water Quality Management Fund  
C/o: Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505.**

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail WPRICE@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Roger C. Anderson  
Environmental Bureau Chief  
RCA/lwp  
Attachment-1  
xc: OCD Artesia Office

Mr. Darrell Moore  
April 17, 2003  
Page 3

**ATTACHMENT TO THE DISCHARGE PERMIT GW-028 APPROVAL**  
**Navajo Refining Company L.P., Artesia Refinery**  
**DISCHARGE PERMIT APPROVAL CONDITIONS**  
**April 17, 2003**

1. Payment of Discharge Permit Fees: The \$100.00 filing fee has been received by the OCD. There is a required flat fee of \$8400.00 for Oil Refineries. The fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. OCD recommends that Navajo pay the required flat fee 30 days after permit approval. If Navajo chooses to make annual payments then OCD will require documentation of payment to be included in the annual report.
2. Commitments: Navajo Refining Company L.P. will abide by all commitments submitted in the discharge permit renewal application dated June 20, 2001 including attachments, subsequent information dated March 15, 2002, discharge permit addendum dated May 31, 2002 and these conditions for approval.
3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite. OCD will allow master plans to be used that identifies all tanks, location, size and contents with a numbering system marked on the tanks which corresponds to plot plans contained in the plan.
8. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All below grade tanks, sumps and pits must be tested annually or as specified below (Additional Conditions), except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Any system found to be leaking shall be reported pursuant to Item # 12. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

API Separators: A closure plan for OCD approval shall be filed by February 28, 2004 for the Old API separator (South Plant), the North and South Plant current API Separators and the Wastewater Plant Separator.

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Additional Conditions: Navajo shall develop a spreadsheet that contains all underground tanks/sumps/pits. Each device or system shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Navajo shall test at a minimum 20% of the total below grade devices each year.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines including the effluent pipeline between the main refinery complex and the disposal wells, must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

Additional Conditions: Navajo shall develop a spreadsheet that contains all underground process and wastewater lines. Each line shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Navajo shall test at a minimum 20% of the underground process/wastewater pipelines each year.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected monthly to ensure proper operation and to prevent over topping or system failure. All open to atmosphere spill collection devices will be emptied of fluids, other than rainwater, within 48 hours of discovery. Enclosed secondary containment devices shall be emptied of all fluids within 48 hours to ensure that the primary device is not leaking. A record of inspection will be retained on site for a period of five years.
12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Artesia District Office.
13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.



OCD is attaching a copy of the Non-Hazardous Material Flow Diagram supplied in the discharge plan addendum dated May 31, 2002.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division. The following waste is hereby approved: Solid Waste (Trash/Refuse).

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
15. Storm Water Plan: Navajo Refining Company L.P. shall maintain stormwater runoff controls. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then Navajo shall notify the OCD within 24 hours, modify the permit within 15 days and submit for OCD approval. Navajo shall also take immediate corrective actions pursuant to Item 12 of these conditions.

Unlined Stormwater Retention Basins: These basins shall be lined, monitored, and records maintained pursuant to Item #8 of these conditions of approval or Navajo may propose an alternate method subject to OCD approval.

16. Reverse Osmosis Reject Water:
  - A. The discharge of reject water from the reverse osmosis treatment facility to Navajo Farms shall not exceed the following standards: **Discharge to Eagle Draw is prohibited.**

Constituent	Concentration	Unit
Aluminum	87	ug/l
Arsenic	100	ug/l
Beryllium	18	ug/l
Barium	1000	ug/l
Boron	750	ug/l

Cadmium	10	ug/l
Chlordane	0.015	ug/l
Chlorine	30	ug/l
Chromium	50	ug/l
Cobalt	50	ug/l
Copper	1000	ug/l
Cyanide	18	ug/l
Fluoride	2500 *	ug/l
Iron	1000	ug/l
Manganese	200	ug/l
Lead	6	ug/l
Mercury	0.042	ug/l
Nickel	200	ug/l
NH3 as N	0.07	ug/l
Radium 226+228	30	pCi/l
Selenium	12	ug/l
Silver	0.4	ug/l
Vanadium	282	ug/l
Zinc	10	mg/l
Sulfate	2661	mg/l
Chloride	275	mg/l
Total Dissolved Solids	4555	mg/l
Chemical Oxygen Demand	125	mg/l
pH	6.6 to 8.6	S.U.

Bod	< 30	mg/l
TSS	<.5	mg/l
Fecal Coloform Bacteria	<500 organisms	Per/ 100 ml

\*Amended June 29, 1993

- B. Constituents not listed in A. above for which there are standards established pursuant to WQCC Regulation 3103 will not exceed the set numerical standard in that regulation.
- C. No toxic pollutant listed in WQCC regulation 1101 TT. will be present in the discharge.
- D. SAMPLING: samples of the discharge will be taken and analyzed on the following schedule:
- i. Major cations/anions and heavy metals will be sampled at a minimum of semi-annually.
  - ii. All other constituents will be sampled annually, including the constituents in the above table and Volatile, Semi-Volatile Organic Compounds including Pesticides using EPA methods 624,625 and 608 respectively.
  - iii. Analysis for all parameters will be pursuant to EPA approved methods.
  - iv. Sampling and analytical QA/QC records will be retained for all sampling events.
  - v. All samples will be "grab" samples.
  - vi. Discharge flow will be monitored and recorded on a daily basis.
  - vii. Sampling frequency can be reduced, on a parameter-by-parameter basis, upon application and OCD approval provided all analytical data in the previous year was no greater than seventy-five (75) percent of the effluent limit.
  - viii. All samples collected in a monitoring period will be reported.
  - ix. Sampling and flow measurement will be representative of the volume and

nature of the discharge.

- x. *Any constituent that exceeds the standards listed above shall be cause for Navajo to stop discharging to the farm area and provide OCD immediate notification. Navajo may not resume discharging until the problem has been corrected.*
  - xi. Sample data, analytical results and flow measurements shall be reported to the OCD in the annual report.
17. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation permits were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit process.

Ground Water and Treatment System Monitoring:

- A. Navajo shall collect perimeter groundwater samples on a semi-annual basis from monitoring wells MW-52, KWB-2R, KWB-13, KWB-9, KWB-3A, KWB-11A, KWB-7, NP-1, NP-2, KWB-45, and MW-18. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), and methyl tertiary butyl ether (MTBE) pursuant to EPA approved methods.
- B. Navajo shall collect groundwater samples on an annual basis from monitoring wells KWB-1A, KWB-1C, KWB-2R, KWB-3A, KWB-4, KWB-5, KWB-6, KWB-8, KWB-9, KWB-10, MW-18, MW-28, MW-29, MW-45, MW-48, MW-49 and from the following recovery trenches that do not have measurable phase-separated hydrocarbons (PSH's); RW-1 through RW-15, and Bolton Road # 1-4. These samples shall be analyzed for Volatiles, Semi-Volatiles, WQCC Metals, General Chemistry including Major Anions and Cations, nitrate/nitrite, dissolved oxygen and oxidation-reduction potential (ORP) all pursuant to EPA approved methods.
- C. All Recovery Trenches and all wells (including North Colony Landfarm and Tetra-ethyl-lead wells) with phase-separated hydrocarbons (PSH's) shall be checked at a minimum of once per month and recorded on a spreadsheet. The sheet shall be in table form containing all of the recovery wells, date inspected, product thickness measured to .01 inch, amount of product/water recovered. If product is observed then appropriate steps will be taken to recover product as reasonably possible using the best available technology.



Mr. Darrell Moore

April 17, 2003

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D. Navajo shall collect groundwater samples from the following irrigation wells at the beginning and end of the irrigation season; RA 313, RA 314, RA3723, RA3156, RA 3353, RA 1331, RA 4196, RA 4798 and Larue well. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), methyl tertiary butyl ether (MTBE), Volatile Organic Compounds (VOC's), Semi-Volatile Compounds, WQCC Metals, General Chemistry including Major Anions and Cations all pursuant to EPA approved methods.

E. Evaporation Ponds near Pecos River (Out-of-Service): Navajo shall collect perimeter groundwater samples on a bi-annual basis with at least one half of these wells being analyzed each year. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), and methyl tertiary butyl ether (MTBE), Semi-Volatiles, WQCC Metals and General Chemistry including anions and cations pursuant to EPA approved methods. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report.

F. RCRA Solid Waste Management Units (SMUS) or AREAS OF CONCERN:

Navajo shall collect groundwater samples on a quarterly basis from monitoring wells NCL-32, 33, 34, 44, 49, TEL-1, 2, 3, 4, and from the following monitor wells MW-53, 54A, 55. These samples shall be analyzed for Volatiles, Semi-Volatiles, WQCC Metals, General Chemistry including Major Anions and Cations, nitrate/nitrite, dissolved oxygen and oxidation-reduction potential (ORP) all pursuant to EPA approved methods. Navajo shall incorporate these findings into a summary table with all other monitor points on-site. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report.

G. ANNUAL REPORT: An annual report will be submitted to the OCD by February 28 of each year. The annual reports will contain:

- i. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.
- ii. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent years laboratory analytical data sheets will also be submitted
- iii. An annual water table potentiometric elevation map using the water table

elevation of the ground water in all refinery monitor wells. A corrected water table elevation shall be determined for all wells containing phase-separated hydrocarbons. This map shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.

- iv. Plots of water table elevation vs. time for each ground water monitoring point.
- v. A annual product thickness map based on the thickness of free phase product on ground water in all refinery monitor wells. This map shall include isopleth lines for products and contaminants of concern.
- vi. The volume of product recovered in the remediation/treatment system during each quarter and the total recovered to date.
- vii. The volume of total fluids pumped from all recovery wells and trenches during each quarter and the total volume recovered to date.
- viii. Electronic filing: OCD would like to encourage Navajo to file this report in an acceptable electronic format.

H. Additional Requirements:

- i. Up-date all on-site and off-site maps, showing the current status of all recovery/monitor/ domestic, irrigation wells and pertinent features including the stormwater basins.
- ii. Navajo shall investigate the area between monitor well KWB-2R and the refinery to determine if a new remediation recovery trench system is required in this area. The results of this investigation shall be submitted to the OCD by July 15, 2003.
- iii. Replace MW-1 at the evaporation ponds.
- iv. If phase separated hydrocarbons are found east of the Bolton Road recovery system, then a new recovery system shall be installed in this area including down-gradient monitor wells. Any wells that reveal contaminants that exceed WQCC groundwater standards shall be reason to install addition wells to determine the extent of contamination. All new

Mr. Darrell Moore  
April 17, 2003  
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wells shall be added to the maps and included in the annual report.

- v. Bolton Road recovery trench #1 and 2 were noted to be dry. OCD is concerned that contaminants may be flowing under and past these trenches. Please modify these trenches or install monitor wells directly east of these devices by November 15, 2003.
  - vi. Navajo shall investigate the area between RW-10 and RW-5 and the refinery to determine if a new remediation recovery trench system is required in this area. The results of this investigation shall be submitted to the OCD by November 15, 2003.
  - vii. Navajo shall install an additional monitor well northeast of MW-45. OCD is concerned about contamination migrating off of Navajo property in this area by November 15, 2003.
  - viii. Navajo shall notify the OCD Santa Fe and local district office at least 2 weeks in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples. For large facilities, i.e. refineries, an annual notification will suffice.
  - ix. Navajo shall notify the NMOCD of the discovery of separated-phase hydrocarbons or the exceedance of a WQCC standard in any down gradient monitor well where separate-phase hydrocarbons were not present or where contaminant concentrations did not exceed WQCC standards during the preceding monitoring event pursuant to NMOCD Rule 116.
18. Transfer of Discharge permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.
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Mr. Darrell Moore  
April 17, 2003  
Page 13

20. **Certification:** Navajo Refining Company L.P. by the officer whose signature appears below, accepts this and agrees to comply with all terms and conditions contained herein. Navajo Refining Company L.P. further acknowledges that these conditions and requirements of this may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: Navajo Refining Company L.P.

PHILLIP L. YOUNGBLOOD  
Company Representative- print name

[Signature] Date 6/25/03  
Company Representative- Sign

Title Asst DIRECTOR OF ENVIRONMENTAL AFFAIRS





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

Joanna Prukop  
Cabinet Secretary

April 17, 2003

**Lori Wrotenbery**

Director

Oil Conservation Division

**CERTIFIED MAIL**

**RETURN RECEIPT NO. 5357 7133**

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company L.P.  
P.O. Box 159  
Artesia, New Mexico 88211-0159

RE: Discharge Permit GW-028  
Artesia Refinery  
Eddy County, New Mexico

Dear Mr. Moore:

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Mr. Darrell Moore  
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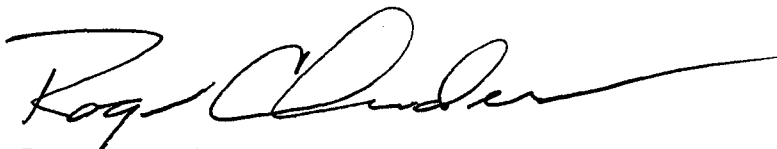
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**Please make all checks payable to: Water Quality Management Fund  
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If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail WPRICE@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,



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Environmental Bureau Chief  
RCA/lwp  
Attachment-1  
xc: OCD Artesia Office

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**April 17, 2003**

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9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines including the effluent pipeline between the main refinery complex and the disposal wells, must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

Additional Conditions: Navajo shall develop a spreadsheet that contains all underground process and wastewater lines. Each line shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Navajo shall test at a minimum 20% of the underground process/wastewater pipelines each year.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected monthly to ensure proper operation and to prevent over topping or system failure. All open to atmosphere spill collection devices will be emptied of fluids, other than rainwater, within 48 hours of discovery. Enclosed secondary containment devices shall be emptied of all fluids within 48 hours to ensure that the primary device is not leaking. A record of inspection will be retained on site for a period of five years.
12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Artesia District Office.
13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

OCD is attaching a copy of the Non-Hazardous Material Flow Diagram supplied in the discharge plan addendum dated May 31, 2002.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division. The following waste is hereby approved: Solid Waste (Trash/Refuse).

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
15. Storm Water Plan: Navajo Refining Company L.P. shall maintain stormwater runoff controls. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then Navajo shall notify the OCD within 24 hours, modify the permit within 15 days and submit for OCD approval. Navajo shall also take immediate corrective actions pursuant to Item 12 of these conditions.

Unlined Stormwater Retention Basins: These basins shall be lined, monitored, and records maintained pursuant to Item #8 of these conditions of approval or Navajo may propose an alternate method subject to OCD approval.

16. Reverse Osmosis Reject Water:

- A. The discharge of reject water from the reverse osmosis treatment facility to Navajo Farms shall not exceed the following standards: **Discharge to Eagle Draw is prohibited.**

Constituent	Concentration	Unit
Aluminum	87	ug/l
Arsenic	100	ug/l
Beryllium	18	ug/l
Barium	1000	ug/l
Boron	750	ug/l

Cadmium	10	ug/l
Chlordane	0.015	ug/l
Chlorine	30	ug/l
Chromium	50	ug/l
Cobalt	50	ug/l
Copper	1000	ug/l
Cyanide	18	ug/l
Fluoride	2500 *	ug/l
Iron	1000	ug/l
Manganese	200	ug/l
Lead	6	ug/l
Mercury	0.042	ug/l
Nickel	200	ug/l
NH3 as N	0.07	ug/l
Radium 226+228	30	pCi/l
Selenium	12	ug/l
Silver	0.4	ug/l
Vanadium	282	ug/l
Zinc	10	mg/l
Sulfate	2661	mg/l
Chloride	275	mg/l
Total Dissolved Solids	4555	mg/l
Chemical Oxygen Demand	125	mg/l
pH	6.6 to 8.6	S.U.

Bod	< 30	mg/l
TSS	<.5	mg/l
Fecal Coloform Bacteria	<500 organisms	Per/ 100 ml

\*Amended June 29, 1993

- B. Constituents not listed in A. above for which there are standards established pursuant to WQCC Regulation 3103 will not exceed the set numerical standard in that regulation.
- C. No toxic pollutant listed in WQCC regulation 1101 TT. will be present in the discharge.
- D. **SAMPLING:** samples of the discharge will be taken and analyzed on the following schedule:
- i. Major cations/anions and heavy metals will be sampled at a minimum of semi-annually.
  - ii. All other constituents will be sampled annually, including the constituents in the above table and Volatile, Semi-Volatile Organic Compounds including Pesticides using EPA methods 624,625 and 608 respectively.
  - iii. Analysis for all parameters will be pursuant to EPA approved methods.
  - iv. Sampling and analytical QA/QC records will be retained for all sampling events.
  - v. All samples will be "grab" samples.
  - vi. Discharge flow will be monitored and recorded on a daily basis.
  - vii. Sampling frequency can be reduced, on a parameter-by-parameter basis, upon application and OCD approval provided all analytical data in the previous year was no greater than seventy-five (75) percent of the effluent limit.
  - viii. All samples collected in a monitoring period will be reported.
  - ix. Sampling and flow measurement will be representative of the volume and



nature of the discharge.

- x. *Any constituent that exceeds the standards listed above shall be cause for Navajo to stop discharging to the farm area and provide OCD immediate notification. Navajo may not resume discharging until the problem has been corrected.*
- xi. Sample data, analytical results and flow measurements shall be reported to the OCD in the annual report.

17. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation permits were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit process.

Ground Water and Treatment System Monitoring:

- A. Navajo shall collect perimeter groundwater samples on a semi-annual basis from monitoring wells MW-52, KWB-2R, KWB-13, KWB-9, KWB-3A, KWB-11A, KWB-7, NP-1, NP-2, KWB-45, and MW-18. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), and methyl tertiary butyl ether (MTBE) pursuant to EPA approved methods.
- B. Navajo shall collect groundwater samples on an annual basis from monitoring wells KWB-1A, KWB-1C, KWB-2R, KWB-3A, KWB-4, KWB-5, KWB-6, KWB-8, KWB-9, KWB-10, MW- 18, MW-28, MW-29, MW-45, MW-48, MW-49 and from the following recovery trenches that do not have measurable phase-separated hydrocarbons (PSH's); RW-1 through RW-15, and Bolton Road # 1-4. These samples shall be analyzed for Volatiles, Semi-Volatiles, WQCC Metals, General Chemistry including Major Anions and Cations, nitrate/nitrite, dissolved oxygen and oxidation-reduction potential (ORP) all pursuant to EPA approved methods.
- C. All Recovery Trenches and all wells (including North Colony Landfarm and Tetra-ethyl-lead wells) with phase-separated hydrocarbons (PSH's) shall be checked at a minimum of once per month and recorded on a spreadsheet. The sheet shall be in table form containing all of the recovery wells, date inspected, product thickness measured to .01 inch, amount of product/water recovered. If product is observed then appropriate steps will be taken to recover product as reasonably possible using the best available technology.

- D. Navajo shall collect groundwater samples from the following irrigation wells at the beginning and end of the irrigation season; RA 313, RA 314, RA3723, RA3156, RA 3353, RA 1331, RA 4196, RA 4798 and Larue well. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), methyl tertiary butyl ether (MTBE), Volatile Organic Compounds (VOC's), Semi-Volatile Compounds, WQCC Metals, General Chemistry including Major Anions and Cations all pursuant to EPA approved methods.
- E. Evaporation Ponds near Pecos River (Out-of-Service): Navajo shall collect perimeter groundwater samples on a bi-annual basis with at least one half of these wells being analyzed each year. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), and methyl tertiary butyl ether (MTBE), Semi-Volatiles, WQCC Metals and General Chemistry including anions and cations pursuant to EPA approved methods. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report.
- F. RCRA Solid Waste Management Units (SMUS) or AREAS OF CONCERN:
- Navajo shall collect groundwater samples on a quarterly basis from monitoring wells NCL-32, 33, 34, 44, 49, TEL-1, 2, 3, 4, and from the following monitor wells MW-53, 54A, 55. These samples shall be analyzed for Volatiles, Semi-Volatiles, WQCC Metals, General Chemistry including Major Anions and Cations, nitrate/nitrite, dissolved oxygen and oxidation-reduction potential (ORP) all pursuant to EPA approved methods. Navajo shall incorporate these findings into a summary table with all other monitor points on-site. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report.
- G. ANNUAL REPORT: An annual report will be submitted to the OCD by February 28 of each year. The annual reports will contain:
- i. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.
  - ii. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent years laboratory analytical data sheets will also be submitted
  - iii. An annual water table potentiometric elevation map using the water table

elevation of the ground water in all refinery monitor wells. A corrected water table elevation shall be determined for all wells containing phase-separated hydrocarbons. This map shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.

- iv. Plots of water table elevation vs. time for each ground water monitoring point.
- v. A annual product thickness map based on the thickness of free phase product on ground water in all refinery monitor wells. This map shall include isopleth lines for products and contaminants of concern.
- vi. The volume of product recovered in the remediation/treatment system during each quarter and the total recovered to date.
- vii. The volume of total fluids pumped from all recovery wells and trenches during each quarter and the total volume recovered to date.
- viii. Electronic filing: OCD would like to encourage Navajo to file this report in an acceptable electronic format.

H. Additional Requirements:

- i. Up-date all on-site and off-site maps, showing the current status of all recovery/monitor/ domestic, irrigation wells and pertinent features including the stormwater basins.
- ii. Navajo shall investigate the area between monitor well KWB-2R and the refinery to determine if a new remediation recovery trench system is required in this area. The results of this investigation shall be submitted to the OCD by July 15, 2003.
- iii. Replace MW-1 at the evaporation ponds.
- iv. If phase separated hydrocarbons are found east of the Bolton Road recovery system, then a new recovery system shall be installed in this area including down-gradient monitor wells. Any wells that reveal contaminants that exceed WQCC groundwater standards shall be reason to install addition wells to determine the extent of contamination. All new

wells shall be added to the maps and included in the annual report.

- v. Bolton Road recovery trench #1 and 2 were noted to be dry. OCD is concerned that contaminants may be flowing under and past these trenches. Please modify these trenches or install monitor wells directly east of these devices by November 15, 2003.
  - vi. Navajo shall investigate the area between RW-10 and RW-5 and the refinery to determine if a new remediation recovery trench system is required in this area. The results of this investigation shall be submitted to the OCD by November 15, 2003.
  - vii. Navajo shall install an additional monitor well northeast of MW-45. OCD is concerned about contamination migrating off of Navajo property in this area by November 15, 2003.
  - viii. Navajo shall notify the OCD Santa Fe and local district office at least 2 weeks in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples. For large facilities, i.e. refineries, an annual notification will suffice.
  - ix. Navajo shall notify the NMOCD of the discovery of separated-phase hydrocarbons or the exceedance of a WQCC standard in any down gradient monitor well where separate-phase hydrocarbons were not present or where contaminant concentrations did not exceed WQCC standards during the preceding monitoring event pursuant to NMOCD Rule 116.
18. Transfer of Discharge permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.
19. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.



Mr. Darrell Moore

April 17, 2003

Page 13

20. Certification: **Navajo Refining Company L.P.** by the officer whose signature appears below, accepts this and agrees to comply with all terms and conditions contained herein. **Navajo Refining Company L.P.** further acknowledges that these conditions and requirements of this may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

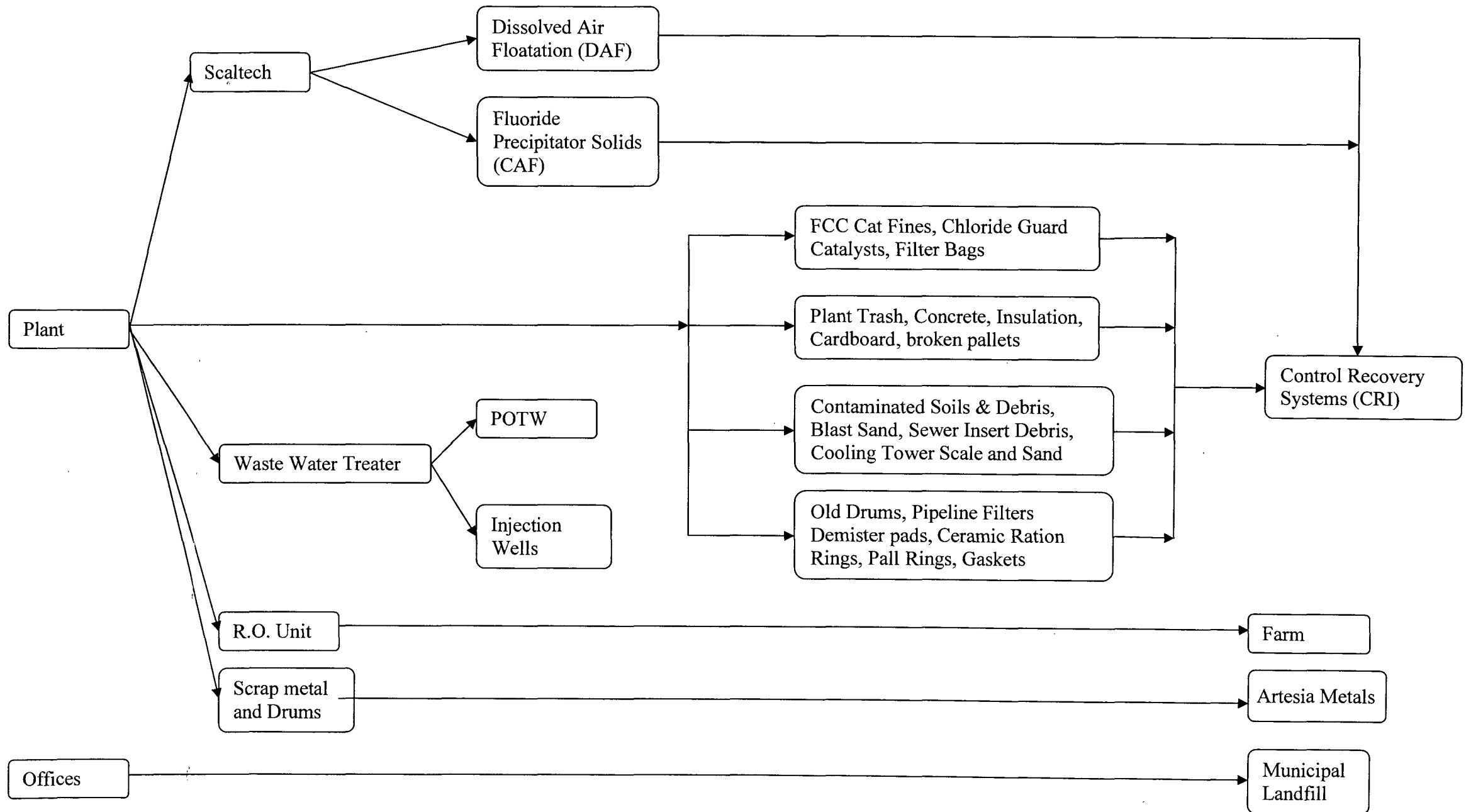
Conditions accepted by: **Navajo Refining Company L.P.**

\_\_\_\_\_  
Company Representative- print name

\_\_\_\_\_  
Company Representative- Sign

\_\_\_\_\_  
Title

# NON-HAZARDOUS MATERIAL FLOW DIAGRAM





NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

March 27, 1999

**CERTIFIED MAIL**

**RETURN RECEIPT NO.** Z 357 870 114

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company  
P.O. Box 159  
Artesia, New Mexico 88211-0159

Re: Minor Permit Modification to GW-28, Navajo Refining Co., Eddy County, NM

Dear Mr. Moore:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Navajo Refining Company's (NRC) letter dated January 26, 1999 requesting that permit GW-28 be modified to include using "RO Reject" water to be used as irrigation water on additional property owned and operated by Navajo which is adjacent to the existing farm property. **This request is hereby approved.**

Please be advised that NMOCD approval of this site does not relieve NRC of liability should their operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve NRC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions, please contact Wayne Price of my staff at (505)827-7155.

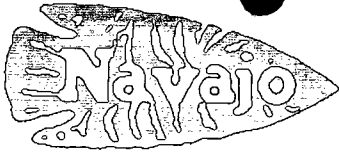
Sincerely Yours,

Roger C. Anderson  
Environmental Bureau Chief

xc: OCD Artesia District Office

TELEPHONE  
(505) 748-3311

EASYLINK  
62905278

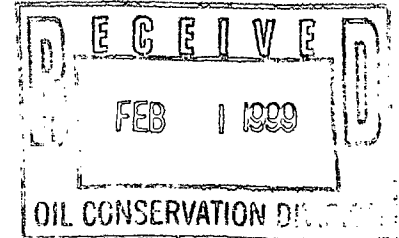


## REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

FAX  
(505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 746-4438 P / L

January 26, 1999



Mr. Wayne Price  
New Mexico Oil Conservation Division  
Environmental Bureau  
2040 S. Pacheco St.  
Santa Fe, NM 87505-5472

**RE: Minor Permit Modification to GW-28, Navajo Refining Co., Eddy County, NM**

Dear Wayne,

As we discussed on the phone, Navajo currently irrigates a farm that we own with a stream of water that we call our "RO Reject". Navajo has recently acquired another farm that we would like to irrigate with this "RO Reject" water also.

Enclosed is a map that shows the current location of the outfall of this stream (blue), along with a proposed additional outfall (red). Navajo would pipe this stream and add valves to allow us to put this RO Reject on either farm at any time. This would give us some flexibility during planting and harvesting seasons.

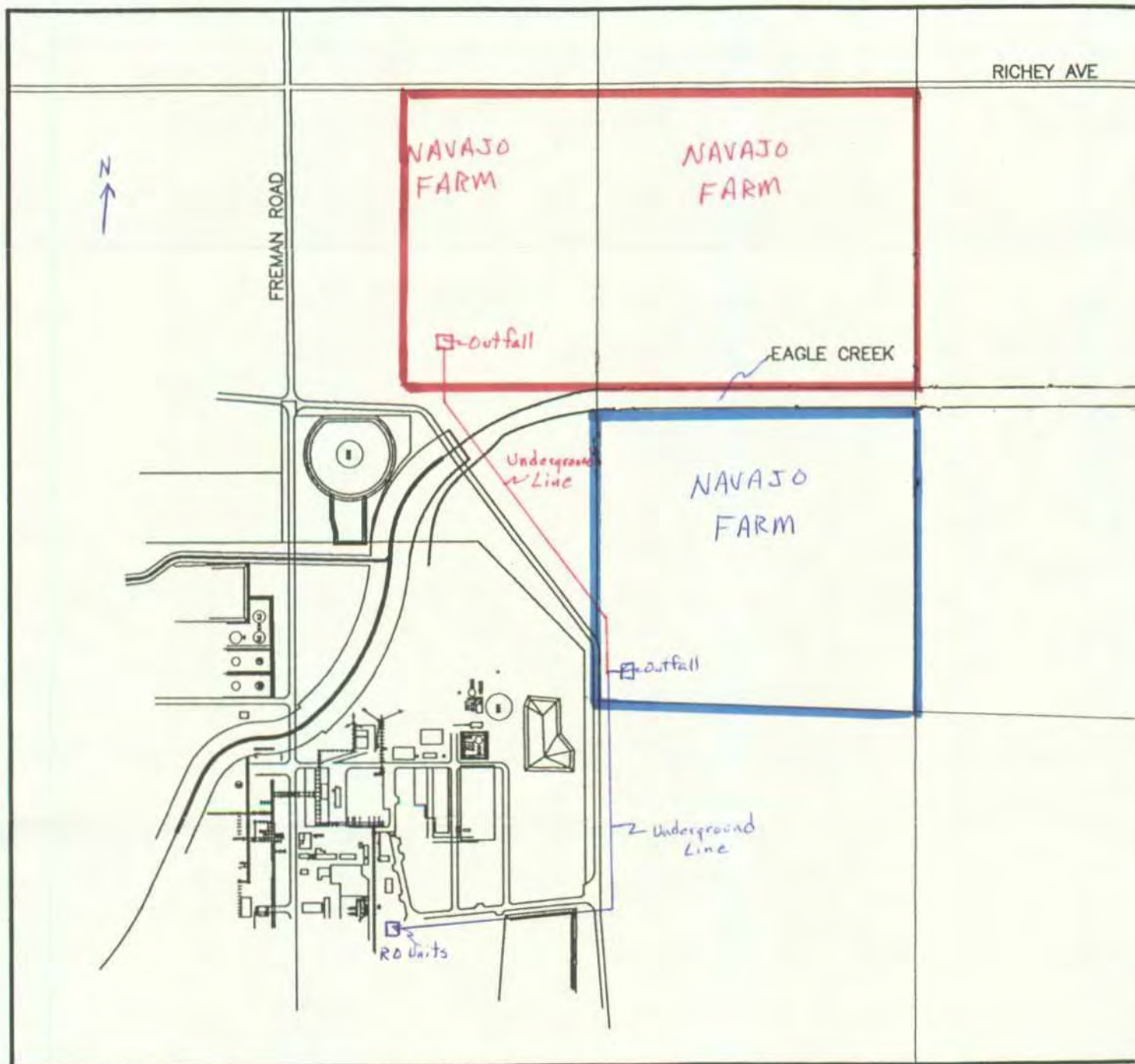
As we discussed, a minor modification to our Discharge Permit GW-28 should take care of this problem. If I can answer any questions, please feel free to call me at 505-748-3311. Thank you for your time in this matter.

Sincerely,  
NAVAJO REFINING COMPANY

Darrell Moore  
Environmental Manager for Water and Waste

Encl.







STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

June 14, 1996

**CERTIFIED MAIL**

**RETURN RECEIPT NO. P-269-269-163**

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

**RE: GROUND WATER REMEDIATION DISCHARGE PLAN GW-28 MODIFICATION  
NAVAJO ARTESIA REFINERY  
EDDY COUNTY, NEW MEXICO**

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has completed a review of Navajo Refining Company's April 3, 1996 "QUARTERLY INJECTION REPORT, NAVAJO REFINING COMPANY, EDDY CO., NEW MEXICO". This document contains Navajo's proposal to modify discharge plan GW-28's ground water remediation and monitoring reporting frequency from quarterly to annually.

The above referenced requested modification of the previously approved ground water discharge plan, GW-28, for the Artesia Refinery located in SE/4 Section 1, E/2 Section 8, W/2 Section 9, N/2 Section 12, Township 17 South, Range 26 East (NMPM), Eddy County, New Mexico is hereby approved under the conditions contained in the enclosed attachment.

The discharge plan (GW-28) was originally approved on October 21, 1991. The modification does not significantly alter the discharge streams, therefore, public notice was not issued.

The application for modification was submitted pursuant to Water Quality Control Commission (WQCC) Regulation 3107.C and is approved pursuant to WQCC Regulation 3109.

Please note that Section 3104 of the WQCC regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C, you are required to notify the Director of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

Mr. Darrell Moore  
June 14, 1996  
Page 2

Please be advised that OCD approval does not relieve you of liability should your remediation and monitoring program fail to adequately monitor or remediate ground water contamination related to Navajo's operations. In addition, this approval does not relieve you of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions please, contact William Olson of my staff at (505) 827-7154.

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief

WJL/WCO

xc: OCD Artesia District Office  
Richard D. Mayer, EPA Region VI  
Benito Garcia, NMED Hazardous & Radioactive Materials Bureau

ATTACHMENT TO THE DISCHARGE PLAN -28 APPROVAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN MODIFICATION CONDITIONS  
(June 14, 1996)

1. Product and Waste Disposal:

All recovered product, waste filters or treatment system waste products will be recycled and/or disposed of at an OCD approved facility or in an OCD approved manner.

2. Ground Water and Treatment System Monitoring:

Ground water from monitor wells and the treatment system will be sampled and analyzed according to the attached Appendix A "NAVAJO REFINERY GROUND WATER REMEDIATION SYSTEM MONITORING, SAMPLING AND REPORTING PROGRAM". All water quality sampling will be conducted according to EPA approved protocol and laboratory techniques.

3. Annual Reports:

An annual report will be submitted to the OCD by February 28 of each year. The annual reports will contain:

- a. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.
- b. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Copies of the most recent years laboratory analytical data sheets will also be submitted
- c. A quarterly water table elevation map using the water table elevation of the ground water in all refinery monitor wells.
- d. Plots of water table elevation vs. time for each ground water monitoring point.
- e. A quarterly product thickness map based on the thickness of free phase product on ground water in all refinery monitor wells.
- f. The volume of product recovered in the remediation/treatment system during each quarter and the total recovered to date.
- g. The volume of total fluids pumped from all recovery wells and trenches during each quarter and the total volume recovered to date.



**APPENDIX A**  
**NAVAJO REFINERY**  
**GROUND WATER REMEDIATION**  
**MONITORING, SAMPLING AND REPORTING PROGRAM**  
**(June 14, 1996)**

Sampling point	Biweekly	Monthly	Quarterly	Annually
Air Stripper Effluent		601** 602** PAH's		Cations/anions Heavy metals
RA-2723	602**			
RA-4196		602**		
RA-4798		602**		
RA-313*		602**		
RA-314*		602**		
RA-1331*		602**		
RA-307*		602**		
RA-1227*		602**		
RA-3156			602**	
RA-3353			602**	
KWB-1A			601** 602**	PAH's Cation/anions Heavy metals
KWB-1C			601** 602**	PAH's Cation/anions Heavy metals
KWB-2A			601** 602**	PAH's Cation/anions Heavy metals
KWB-3A			601** 602**	PAH's Cation/anions Heavy metals
KWB-7			601** 602**	PAH's Cation/anions Heavy metals
KWB-9			601** 602**	PAH's Cation/anions Heavy metals

\* - Sampled during irrigation season  
\*\* - EPA laboratory method

APPENDIX A (continued)  
 NAVAJO REFINERY  
 GROUND WATER REMEDIATION  
 MONITORING, SAMPLING AND REPORTING PROGRAM  
 (June 14, 1996)

Sampling point	Biweekly	Monthly	Quarterly	Annually
KWB-11A			601** 602**	PAH's Cations/anions Heavy metals
KWB-12A			601** 602**	PAH's Cations/anions Heavy metals
MW-18			601** 602**	PAH's Cations/anions Heavy metals
MW-28			601** 602**	PAH's Cations/anions Heavy metals
MW-29			601** 602**	PAH's Cations/anions Heavy metals
MW-45			601** 602**	PAH's Cations/anions Heavy metals

\*\* - EPA laboratory method



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

April 10, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-765-962-941**

Mr. David Griffin  
Navajo Refining Company  
P. O. Drawer 159  
Artesia, New Mexico 88211-0159

**RE: Discharge Plan GW-028 Renewal**  
**Artesia Refinery**  
**Eddy County, New Mexico**

Dear Mr. Griffin:

On October 21, 1991, the groundwater discharge plan, GW-028, for the Artesia Refinery located in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on October 21, 1996.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires (on or before June 21, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Navajo has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

Mr. David Griffin  
April 10, 1996  
Page 2

The discharge plan renewal application for the **Artesia Refinery** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan for renewal will be assessed a fee equal to the filing fee of \$50 plus a flat fee of \$3,910.00 for oil refineries.

The \$50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable. The flat fee for an approved discharge plan renewal may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan - with the first payment due the at the time of approval. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Artesia District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.**

If Navajo no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If Navajo has any questions, please do not hesitate to contact Mark Ashley at (505) 827-7155.

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief

RCA/mwa

xc: OCD Artesia Office

Z 765 962 941

Receipt for  
Certified Mail

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)



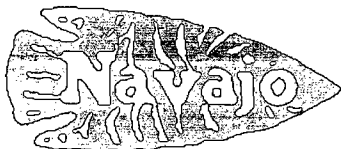
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Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993



TELEPHONE  
(505) 748-3311

EASYLINK  
62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

OIL CONSERVATION DIVISION  
FAX  
(505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 748-4438 P/L  
REC'D  
APR 10 1996  
PM 8 52

April 8, 1996

Mr. Roger C. Anderson  
Environmental Bureau Chief  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

Re: Return of Signed Acceptance of Modification to Discharge Plan GW-28

Dear Roger:

Navajo would like to thank you, your staff and Director LeMay for issuing this modification to Navajo's discharge plan. It was a pleasant surprise to receive the modification after the temporary loss of the application during your relocation. Enclosed is the signed attachment for the discharge plan.

Sincerely,

David G. Griffin  
Manager of Environmental  
Affairs for Water & Waste

DGG/sj

Enc.



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

March 27, 1996

**CERTIFIED MAIL**

**RETURN RECEIPT NO. Z-765-962-938**

Mr. David Griffin  
Navajo Refining Company  
P. O. Box 159  
Artesia, New Mexico 88211-0159

**RE: Discharge Plan GW-28 Modification  
Discharge to City of Artesia POTW  
Eddy County, New Mexico**

Dear Mr. Griffin:

The discharge plan modification GW-28 to discharge approximately 5,000 gallons per day of effluent from the Navajo Refining Company (Navajo) Evaporation Pond #6 located in the SE/4 of Section 1, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico to the City of Artesia's Sewage Treatment Plant (POTW), is hereby approved under the conditions contained in the enclosed attachment. The discharge plan modification consists of the request dated October 13, 1994. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within five working days of receipt of this letter.**

The discharge plan modification was submitted pursuant to Section 3107.C of the New Mexico Water Quality Control Commission (WQCC) Regulations. Based on the information provided in the modification request and in the approved discharge plan, it is approved pursuant to Section 3109. Please be advised the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface water, ground water, or the environment.

Please note that Section 3104 of the regulations require "When a facility has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C. you are required to notify the Director of any facility expansion, production increase, or

Mr. David Griffin

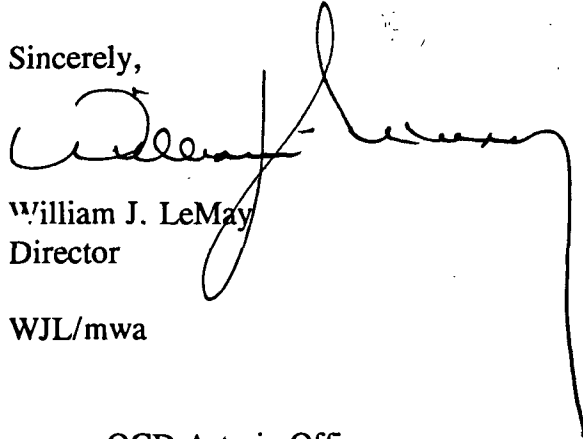
March 27, 1996

Page 2

process modification that would result in any change in the discharge of water quality or volume.

On behalf of the staff of the New Mexico Oil Conservation Division (OCD), I wish to thank you and your staff for your cooperation during this discharge plan modification review.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', with a long, sweeping horizontal line extending to the right.

William J. LeMay  
Director

WJL/mwa

xc: OCD Artesia Office

ATTACHMENT TO THE DISCHARGE PLAN GW-28 MODIFICATION APPROVAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN MODIFICATION REQUIREMENTS  
(March 27, 1996)

1. Navajo Commitments: Navajo will abide by all commitments submitted in the modification application letter dated October 13, 1994 from Navajo as well as the discharge plan approval dated October 21, 1991.
2. Navajo will abide by the agreement reached with the City of Artesia for discharging effluent that has been pretreated in Navajo's waste water treatment system. Effluents discharged to the POTW will be within compliance of the pretreatment standards for petroleum refineries (40 CFR 419.25 and 419.27).
3. Housekeeping: All systems designed for spill collection/prevention should be inspected frequently to ensure proper operation and to prevent overtopping or system failure.

The two inch pipeline laid from Pond #6 to the POTW will be inspected monthly for integrity.

4. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the appropriate OCD District Office.

5. Conditions accepted by:

\_\_\_\_\_  
Company Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title



ATTACHMENT TO THE DISCHARGE PLAN GW-28 MODIFICATION APPROVAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN MODIFICATION REQUIREMENTS  
(March 27, 1996)

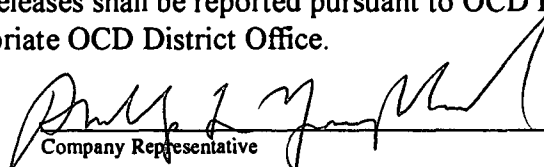
1. Navajo Commitments: Navajo will abide by all commitments submitted in the modification application letter dated October 13, 1994 from Navajo as well as the discharge plan approval dated October 21, 1991.
2. Navajo will abide by the agreement reached with the City of Artesia for discharging effluent that has been pretreated in Navajo's waste water treatment system. Effluents discharged to the POTW will be within compliance of the pretreatment standards for petroleum refineries (40 CFR 419.25 and 419.27).

3. Housekeeping: All systems designed for spill collection/prevention should be inspected frequently to ensure proper operation and to prevent overtopping or system failure.

The two inch pipeline laid from Pond #6 to the POTW will be inspected monthly for integrity.

4. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the appropriate OCD District Office.

5. Conditions accepted by:

  
Company Representative  
4-8-96  
Date  
Director of Environmental Affairs  
Title

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 1/5/96  
or cash received on 1/8/96 in the amount of \$ 50.00

from Navajo Refining  
for Artesia Refinery GW028  
(Facility Name) (DP No.)

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Submitted to ASD by: R. Chulien Date: 1/16/96

Received in ASD by: Angela Herrera Date: 1-17-96

Filing Fee ☒ New Facility \_\_\_\_\_ Renewal \_\_\_\_\_

Modification \_\_\_\_\_ Other \_\_\_\_\_  
(specify)

Organization Code 521.073 Applicable FY 96

To be deposited in the Water Quality Management Fund.

Full Payment \_\_\_\_\_ or Annual Increment \_\_\_\_\_

NAVAJO REFINING COMPANY  
501 EAST MAIN STREET  
P O BOX 159  
ARTESIA, NM 88211-0159

NationsBank of Texas N.A.  
Wichita Falls, TX 76301

CHECK  
DATE: 01/05/96

The SUM of Fifty Dollars and 00 cents

PAY EXACTLY

\*\*\*\*\*50.00

PAY  
TO THE  
ORDER  
OF  
NMED WATER QUALITY MANAGEMENT  
SOIL CONSERVATION DIVISION  
2040 SOUTH PACHECO  
SANTA FE, NM 87505

\$2,500.00 OR MORE REQUIRES COUNTER SIGNATURE



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

December 12, 1995

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-765-962-914**

Mr. David Griffin  
Navajo Refining Company  
P. O. Box 159  
Artesia, New Mexico 88211-0159

**RE: Discharge Plan GW-28 Modification**  
**Artesia Refinery, Evaporation Pond Dikes Raising**  
**Eddy County, New Mexico**

Dear Mr. Griffin:

The discharge plan modification GW-28 requesting permission to raise the perimeter dikes around the Evaporation Ponds in order to maintain the minimum freeboard required by GW-28 for the Navajo Refining Company Artesia Refinery located in the W/2 of Section 9, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, is **hereby approved** under the conditions contained in the enclosed attachment. The discharge plan modification consists of the request dated December 8, 1995.

The discharge plan modification was submitted pursuant to Sections 3106 and 3107.C of the New Mexico Water Quality Control Commission (WQCC) Regulations. Based on the information provided in the modification request and in the approved discharge plan, it is approved pursuant to Sections 3109 and 5101.A. Please be advised the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface water, ground water, or the environment which may be actionable under other laws and/or regulations.

Please note that Section 3104 of the regulations require "When a facility has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section

Mr. David Griffin  
December 12, 1995  
Page 2

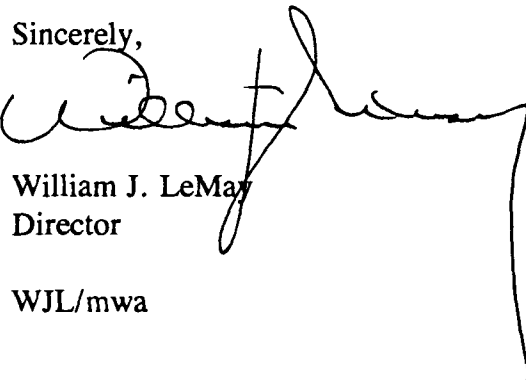
3107.C. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

The discharge plan modification for the Navajo Refining Company Artesia Refinery is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan modification will be assessed a fee equal to the filing fee of \$50 plus the flat rate \$3,910 for refineries. The New Mexico Oil Conservation Division (OCD) considers this modification to be minor in nature, therefore the flat fee has been waived. As of this date the OCD has not received your \$50 filing fee which will be due upon receipt of this letter.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan modification review.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', with a long, sweeping horizontal line extending to the right.

William J. LeMay  
Director

WJL/mwa

xc: OCD Artesia Office



ATTACHMENT TO THE DISCHARGE PLAN GW-28 MODIFICATION APPROVAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN MODIFICATION REQUIREMENTS  
(December 12, 1995)

1. The additional diking will not exceed two feet in height. The soil used to raise the dikes will be done by compacting six inch lifts of the same clay loam that was used to build the existing dikes.
2. The previously approved minimum freeboard will be maintained.
2. All diking will be compacted to a minimum of 95 proctor. Fluids used to compact lifts will be similar to fluids placed in ponds, without hydrocarbons.
3. The previously approved inside and outside grade of the dikes will be maintained.
4. This approval will expire on the corresponding date of EPA closure of the ponds.
4. The OCD will be notified at least 72 hours in advance of all activities such that the OCD may have the opportunity to witness the activities and/or split samples.

TELEPHONE  
(505) 748-3311

EASYLINK  
62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

OIL CONSERVATION DIVISION  
FAX (505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 746-4438 P / L  
'95 DEC 11 AM 11:52

December 8, 1995

Mr. Roger C. Anderson  
Environmental Bureau Chief  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

FAX: (505) 827-8177

Re: Minor Modification to Navajo's Discharge Permit GW-28  
Evaporation Pond Dikes Raising

Dear Mr. Anderson:

Navajo needs to raise the perimeter dikes around the Evaporation Ponds in order to maintain the minimum freeboard required in permit GW-28. Colder winter weather has reduced the rate of evaporation with the current influx to the ponds exceeding the loss from the ponds. The ponds are presently very near minimum allowable freeboard and therefore Navajo finds itself in a near emergency situation needing to add additional height to the existing dikes. Navajo feels that two (2) additional feet added to the dikes will be sufficient to carry us through the winter and maintain required freeboard.

As you are well aware, Navajo has dramatically reduced the volume of water discharged to the evaporation ponds (65% reduction) by pioneering the use of feedwater pretreatment by Reverse Osmosis. Along with this reduction in discharge to the ponds Navajo has been removing ponds from service and closing them down as part of the settlement of our Department of Justice case.

Navajo finds it frustrating to have to request this authorization since we have been trying since mid-summer 1994 to remove another significant volume of water currently flowing to the ponds. This water is coming from our hydrocarbon recovery wells. In 1994 you permitted Navajo to separately treat and reinject this remediation water back into the ground from which it came. Since your authorization, Navajo ran into a long delay by NMED - Hazardous Waste while they reviewed and finally (November 14, 1995) decided that this remediation and reinjection did not have to be done under their jurisdiction. Navajo then thought that everything was approved and construction could start immediately on the treatment and reinjection system. These hopes have now been set back following a meeting on November 28, 1995 with the Air Pollution Control Bureau (APCB). During this meeting, Navajo was informed that it is now APCB policy that any new installation of air emitting equipment at a Major source facility must go through a full permit process even if there are no change in overall refinery emissions or even if there is a decrease in emissions. The current permit process is taking from 6 months to possibly as long as 2 years for permit issuance. So,

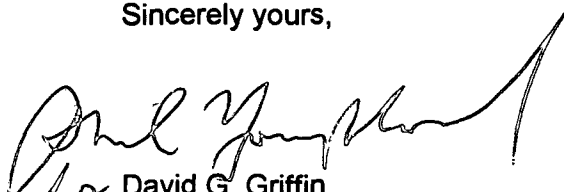
it appears the permit cannot be obtained in time to do us any good this winter, although we continue to work with the APCB to possibly obtain an exemption.

The APCB policy has also affected the pending remediation at our Lovington Refinery. The same delay to obtain an air permit applies as long as Navajo owns or operates the remediation system. What we have worked out with the APCB is that, if Navajo turn-key contracts the remediation so that the equipment is owned and operated by others, there is no permit required. The remediation contractor would be considered a separate source of emissions and would therefore be entitled to a permit exemption if air emissions are kept below 1 lb/hr after controls. Having to turn over ownership and operational control of this remediation costs Navajo unnecessary additional expense plus it complicates the operation of the remediation.

The two (2) feet to be added to the pond dikes will be done by compacting 6 inch lifts of the same clay loam soil that was used to build the existing dikes. Moisture will be added as needed for optimum compaction. Compaction will be done by vibratory roller to a minimum 85 proctor. The existing dike slopes will be maintained and since the top of the existing dikes average 15 ft. in width, the additional 2 ft. in height will still allow for a roadway on the top of the dikes.

Your prompt approval is needed for this addition so that construction can be done before more freeboard is lost. If you have any questions or need further information, please call me at 505-748-3311.

Sincerely yours,

  
for David G. Griffin  
Manager of Environmental  
Affairs for Water & Waste

DGG/sj



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

May 16, 1995

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-765-962-725**

Mr. David Griffin  
Navajo Refining Company  
P. O. Drawer 159  
Artesia, New Mexico 88211-0159

**RE: Discharge Plan GW-28 Modification**  
**Artesia Refinery, Fire Training Fluids**  
**Eddy County, New Mexico**

Dear Mr. Griffin:

The discharge plan modification GW-28 requesting an emergency clay lined pit to hold overflow fluids from fire training exercises for the Navajo Refining Company Artesia Refinery located in the W/2 of Section 9, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan modification consists of the modification request and analytical results for the fire training fluids submitted by Navajo Refining Company on July 21, 1994.

The discharge plan modification was submitted pursuant to Sections 3-106 and 3-107.C of the New Mexico Water Quality Control Commission (WQCC) Regulations. Based on the information provided in the modification request and in the approved discharge plan, it is approved pursuant to Sections 3-109 and 5-101.A. Please be advised the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface water, ground water, or the environment which may be actionable under other laws and/or regulations.

Please note that Section 3-104 of the regulations require "When a facility has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3-107.C. you are required to notify the Director of any facility expansion, production increase,



Mr. David Griffin  
May 16, 1995  
Page 2

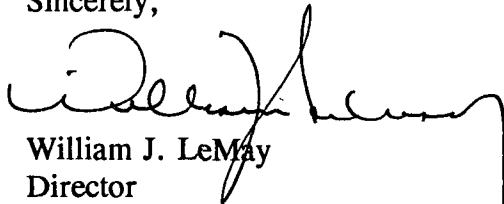
or process modification that would result in any change in the discharge of water quality or volume.

The discharge plan modification for the Navajo Refining Company Artesia Refinery is subject to WQCC Regulation 3-114.B.1.(b).3 discharge plan modification fee. Every billable facility submitting a discharge plan modification will be assessed a fee equal to the filing fee of fifty (50) dollars plus the flat rate of thirty-nine hundred and ten dollars (\$3910) for refineries. The New Mexico Oil Conservation Division (OCD) considers this modification to be minor in nature, therefore the flat fee has been waived. As of this date (May 16, 1995) the OCD has not received your fifty (50) dollar filing fee which will be due upon receipt of this letter.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



William J. LeMay  
Director

WJL/mwa

xc: Ray Smith, OCD Artesia Office  
Tim Gumm, OCD Artesia Office

ATTACHMENT TO THE DISCHARGE PLAN GW-28 MODIFICATION APPROVAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN MODIFICATION REQUIREMENTS  
(May 16, 1995)

1. Clay Lined Pit: EPA requires that the compacted materials meet a permeability (transmissivity) of  $10^{-7}$  cm/sec. The clay liner will meet the EPA standards and will be tested after construction with the results submitted to the OCD Santa Fe Office.
2. Clay Liner Thickness: The clay liner will be a minimum of two feet in thickness with two feet of soil on top of the liner.
3. Fire Training Fluids: Navajo will remove all fluids collected in the pit within 24 hours of each training session. The process wastewater system will be used for disposal of the fluids.

After the fluids are removed, the top one foot of soil will be disced to enhance and stimulate bioremediation.

4. Sampling: The fluids and soils will be tested every five years at discharge plan renewal.
5. Notification: The OCD will be notified at least 72 hours in advance of all activities such that the OCD may have the opportunity to witness the activities and/or split samples.

TELEPHONE  
(505) 748-3311

EASYLINK  
82905278

**REFINING COMPANY**

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

FAX  
(505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 746-4438 P/L

October 13, 1994

396-5821

Mr. Roger Anderson, Chief  
Environmental Bureau  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, N.M. 87501

Re: GW-28 Modification - Discharge to City of Artesia POTW

SE/4 1-17-26

Dear Mr. Anderson:

Navajo is, herein, applying for a modification to our discharge permit No. GW-28. Navajo is requesting a modification to recognize the discharge of a small volume of effluent out of Navajo's Evaporation Pond #6 to the City of Artesia's Sewage Treatment Plant (POTW). This discharge to the POTW will eliminate any question that the refinery's waste water treatment and handling system is excluded from RCRA by virtue of the specific exclusion of waste water treatment facilities under either section 402 (i.e., NPDES program) or 307(b) (i.e., discharges to POTW) of the Clean Water Act.

Although Navajo has always considered its waste water treatment system to be exempt from RCRA, it is now electing to eliminate any questions relating to the exempt status of the waste water treatment system by discharging under section 307(b) of the Clean Water Act. This section does not require that all of a facilities effluent be discharged to a POTW, therefore Navajo reached an agreement with the City of Artesia to discharge a relatively small amount of effluent to the POTW that had been pretreated in our waste water treatment system. The best quality effluent Navajo has is that which has resided longest in the Evaporation Ponds. Navajo has installed a small portable pump station in Pond #6 and laid a 2 inch line to the POTW. This installation is of a temporary nature as Navajo has reached a tentative agreement with the Department of Justice to discontinue the use of the Evaporation Ponds within approximately 2 years. You will, of course, be informed of the actual dates and changes as they are finalized.

A copy of the agreement between Navajo and the City of Artesia is enclosed as well as a plot plan showing how Navajo has installed the discharge line to the POTW. The City monitors the quality of the effluent delivered to them. The pumping system installed has a maximum pumping capacity of 14 gpm. Navajo operates the system during normal business hours on normal business days such that a typical discharge to the City POTW would actually be 5,000 gallons per day and 100,000 gallons per month. The City POTW is routinely treating 850,000 gallons per day, so you can see that Navajo's 5,000 gallons has little, if any, effect on the City's operation.

*An Independent Refinery Serving . . . NEW MEXICO • ARIZONA • WEST TEXAS*

You will notice on the enclosed plot plan the Navajo has isolated, drained and is in the process of remediating Pond #2. In order to do this the effluent line (12 inch) from the Refinery was moved to discharge into Pond #4. The work on Pond #2 is also a result of negotiations with the Department of Justice.

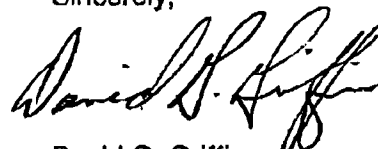
The final enclosure you should find is an analysis typical of the water being discharged to the City. You will see from the analysis that Navajo is well within compliance of the pretreatment standards for Petroleum Refineries discharging to a POTW (40 CFR 419.25 and 419.27).

The standards are a maximum of :

Oil & Grease	100 mg/l
Ammonia	100 mg/l
Total Chromium	1 mg/l

The \$50.00 filing fee is enclosed. Should you need any additional information, please call me at 505-748-3311.

Sincerely,



David G. Griffin  
Supt. Of Env. Affairs  
and Quality Control

DGG/te

Enclosures





STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

July 25, 1994

ANITA LOCKWOOD  
CABINET SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-111-334-149**

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

**RE: GROUND WATER REMEDIATION DISCHARGE PLAN GW-28 MODIFICATION  
NAVAJO ARTESIA REFINERY  
EDDY COUNTY, NEW MEXICO**

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has completed a review of Navajo Refining Company's January 31, 1994, March 10, 1994, April 29, 1994, May 4, 1994 and June 23, 1994 correspondence. These documents contain Navajo's proposal to modify discharge plan GW-28 to include the treatment of contaminated ground water to New Mexico Water Quality Control Commission ground water standards and reinjection into recovery wells RW-4 and RW-6 and/or application to the farmland designated in the above referenced documents. The treated ground water is from the remediation of contaminated refinery ground water generated from the offsite recovery trenches and onsite recovery wells RW-5, RW-7, RW-8, RW-9 and RW-10.

The above referenced requested modification of the previously approved ground water discharge plan, GW-28, for the Artesia Refinery located in SE/4 Section 1, E/2 Section 8, W/2 Section 9, N/2 Section 12, Township 17 South, Range 26 East (NMPM), Eddy County, New Mexico **is hereby approved under the conditions contained in the enclosed attachment.**

The discharge plan (GW-28) was originally approved on October 21, 1991. The modification does not significantly alter the discharge streams, therefore, public notice was not issued.

The application for modification was submitted pursuant to Water Quality Control Commission (WQCC) Regulation 3-107.C and is approved pursuant to WQCC Regulation 3-109.

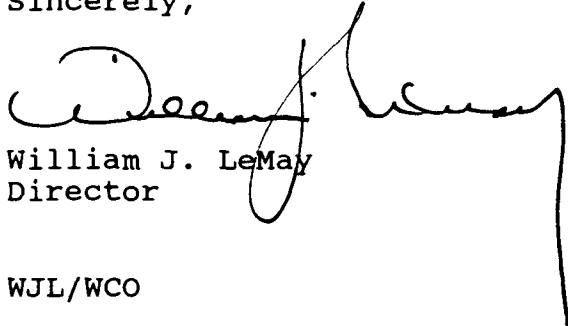
Mr. Darrell Moore  
July 25, 1994  
Page 2

Please note that Section 3-104 of the WQCC regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3-107.C, you are required to notify the Director of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

Please be advised that OCD approval does not relieve you of liability should your operation result in actual pollution of surface waters, ground waters or the environment which may be actionable under other laws and/or regulations. In addition, this approval does not relieve you of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions please, contact William Olson of my staff at (505) 827-5885.

Sincerely,



William J. LeMay  
Director

WJL/WCO

xc: OCD Artesia District Office  
Richard D. Mayer, EPA Region VI

PS Form 3800, June 1991

**Receipt for Certified Mail**  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

**P 111 334 149**

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Fold at line over top of envelope to the right of the return address

ATTACHMENT TO THE DISCHARGE PLAN GW-28 APPROVAL  
NAVAJO REFINING COMPANY  
ARTESIA REFINERY  
DISCHARGE PLAN MODIFICATION CONDITIONS  
(July 14, 1994)

1. Additional Monitor Wells

Because of the potential for water injected into monitor wells RW-4 and RW-6 to alter the natural hydraulic gradient and the lack of ground water monitoring points in certain areas of the refinery boundaries, the OCD requires that Navajo submit a work plan for the installation and sampling of additional monitor wells by September 23, 1994. **This work plan will be submitted and implemented prior to commencing injection in monitor wells RW-4 and RW-6.** The work plan will address the installation of ground water monitoring wells along the southern, eastern and western sides of the refinery. The work plan will also include a ground water sampling and analysis plan for the monitor wells.

2. Product and Waste Disposal:

All recovered product, waste filters or treatment system waste products will be recycled and/or disposed of at an OCD approved facility.

3. Ground Water and Treatment System Monitoring:

Ground water from monitor wells and the treatment system will be sampled and analyzed according to the attached Appendix A "NAVAJO REFINERY GROUND WATER REMEDIATION SYSTEM MONITORING, SAMPLING AND REPORTING PROGRAM". All water quality sampling will be conducted according to EPA approved protocol and laboratory techniques.

3. Quarterly Reports:

Quarterly reports will be submitted by January 1, April 1, July 1, and October 1 of each year. Quarterly reports will contain:

- a. A summary of the laboratory analytic results of water quality sampling of monitor wells and the treatment system from the previous quarter. The data from each monitoring point will be presented in tabular form and will list past and present sampling results.
- b. A water table elevation map using the water table elevation of the ground water in all refinery monitor wells (excluding monitor wells around the refinery's disposal ponds).
- c. A product thickness map based on the thickness of free phase product on ground water in all refinery monitor wells.
- d. The total volume of product recovered in the treatment system during the quarter and to date.
- e. The total volume of fluid pumped from each well during the quarter and to date.
- f. The total volume of water reinjected and/or applied to the farmland during the quarter and to date.

**APPENDIX A  
NAVAJO REFINERY  
GROUND WATER REMEDIATION  
MONITORING, SAMPLING AND REPORTING PROGRAM**

Sampling point	Biweekly	Monthly	Quarterly	Annually
Air Stripper Effluent		601** 602** PAH's		Cations/anions Heavy metals
RA-2723 J	602**			
RA-4196 J		602**		
RA-4798		602**		
RA-313* J		602**		
RA-314* J		602**		
RA-1331* J		602**		
RA-307* ✓		602**		
RA-1227*		602**		
RA-3156			602**	
RA-3353			602**	
KWB-1A			601** 602**	PAH's Cation/anions Heavy metals
KWB-1C			601** 602**	PAH's Cation/anions Heavy metals
KWB-2A			601** 602**	PAH's Cation/anions Heavy metals
KWB-3A			601** 602**	PAH's Cation/anions Heavy metals
KWB-7			601** 602**	PAH's Cation/anions Heavy metals
KWB-9			601** 602**	PAH's Cation/anions Heavy metals

\* - Sampled during irrigation season  
 \*\* - EPA laboratory method



**APPENDIX A (continued)**  
**NAVAJO REFINERY**  
**GROUND WATER REMEDIATION**  
**MONITORING, SAMPLING AND REPORTING PROGRAM**

Sampling point	Biweekly	Monthly	Quarterly	Annually
KWB-11A			601** 602**	PAH's Cations/anions Heavy metals
KWB-12A			601** 602**	PAH's Cations/anions Heavy metals
MW-18			601** 602**	PAH's Cations/anions Heavy metals
MW-28			601** 602**	PAH's Cations/anions Heavy metals
MW-29			601** 602**	PAH's Cations/anions Heavy metals
MW-45			601** 602**	PAH's Cations/anions Heavy metals

\* - Sampled during irrigation season  
 \*\* - EPA laboratory method



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

May 26, 1994

ANITA LOCKWOOD  
CABINET SECRETARY

POST OFFICE BOX 208B  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-111-334-117**

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

**RE: MODIFICATION TO DISCHARGE PLAN GW-28  
NAVAJO REFINERY  
EDDY COUNTY, NEW MEXICO**

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has reviewed your April 29, 1994 and May 4, 1994 correspondence providing additional information related to Navajo refinery's proposal to modify Navajo's previously approved discharge plan for the Navajo Refinery to include the discharge of treated ground water from the remediation of contaminated ground water at the facility.

Your April 29, 1994 and May 4, 1994 letters only address item #2 and item #4 of the information requested by OCD on February 10, 1994. In order for the OCD to complete a review of Navajo's discharge plan modification request, the OCD requests that Navajo submit the following information which was requested by OCD on February 10, 1994:

1. Please provide a map showing the location of all onsite and offsite monitor wells and the exact location of all proposed discharge points including the farmland where treated ground water would be used for irrigation purposes.
2. The requested modification does not indicate whether the piping between the air stripper system and the pumping well system will be installed above ground or below grade. Please provide this information and a map showing the proposed location of all piping including piping to the discharge points. Please be aware that the OCD requires that all below

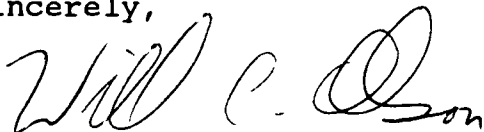
Mr. Darrell Moore  
May 26, 1994  
Page 2

grade piping carrying fluids which exceed New Mexico Water Quality Control Commission (WQCC) ground water standards be pressure tested to three (3) psi above operating pressure prior to operation.

Receipt of the above information will allow the OCD to complete a review to this discharge plan modification.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,



William C. Olson  
Hydrogeologist  
Environmental Bureau

xc: OCD Artesia District Office  
Richard D. Mayer, EPA Region VI

PS Form 3800, June 1991

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STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



BRUCE KING  
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ANITA LOCKWOOD  
CABINET SECRETARY

May 23, 1994

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SANTA FE, NEW MEXICO 87504  
(505) 827-5800

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P 111 334 319**

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

**RE: Reverse Osmosis Reject Sampling**  
**Navajo Artesia Refinery**  
**Eddy County, New Mexico**

Dear Mr. Moore, *in the RO Reject Water file*

The New Mexico Oil Conservation Division (OCD) has received your May 13, 1994 proposal to continue quarterly sampling of the Reverse Osmosis (RO) reject water and discontinue the bi-weekly analyses which were required in the April 27, 1993 discharge plan modification approval. This proposal is based on the data submitted with the proposal summarizing the historical sample analyses.

In the April 27, 1993 discharge plan modification approval, condition 7 states that "Major cations/anions and heavy metal analysis frequency can be reduced to quarterly, on a parameter-by-parameter basis, upon application and OCD approval provided all analytical data in the previous year was no greater than seventy-five (75) percent of the effluent limit." The submitted summary indicates that:

- 1) five of the analyzed parameters (chloride, fluoride, aluminum, manganese and lead) exceeded the discharge standard at least once during the first year of analysis;
- 2) chloride exceeded the 75% of standard threshold on eighteen of the nineteen analyses tabulated, fluoride nine of thirteen times, and sulfate two of nineteen times;
- 3) several of the parameter detection limits equaled or were greater than the relevant standard (aluminum, arsenic, beryllium, cadmium, cobalt, selenium, silver, lead and mercury); and



Mr. [illegible] [illegible]  
[illegible] 3294  
[illegible]

[illegible] [illegible]  
[illegible]

were not measured at the required

[illegible] [illegible]  
[illegible]

review of the submitted data, the request  
analysis of the RO Reject Water is denied.

[illegible] [illegible]  
[illegible]

As, call me at (505)827-4080 or Roger

[illegible] [illegible]  
[illegible]

[illegible] [illegible]

list