GW - ___028___

MEETINGS

(2)

Chavez, Carl J, EMNRD

Subject: Groundwater monitoring - Navajo Refinery

Location: Teleconference Call- Arcadis will provide teleconference phone in number

Start: Fri 3/7/2014 10:30 AM **End:** Fri 3/7/2014 11:30 AM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Chavez, Carl J, EMNRD

Required Attendees: 'Krueger, Pamela'; Cobrain, Dave, NMENV

Optional Attendees: Robert Combs; Holder, Mike (Michael.Holder@hollyfrontier.com); Turner, Maisha;

VonGonten, Glenn, EMNRD; Tsinnajinnie, Leona, NMENV

The New Mexico Oil Conservation Division (OCD) requests the following from the operator subsequent to this morning's meeting:

- 1) Provide OCD and NMED (state agencies) with the status on ground water "Background" determination within 14 days of receipt of this message.
- 2) Within 60-days (or by COB May 7, 2014) of this message, provide an analysis of the ground water in comparison with WQCC water quality standards and background as determined by the operator from MWs within the vicinity of the surface impoundments and Pecos River. If the greater of the WQCC water quality standards and/or "Background" is exceeded, the operator shall propose a remedy (ies) based on the analysis to the state agencies.
- 3) The above could be completed with the submittal of the Surface Impoundments Closure Report submitted to the NMED with copy to the OCD.

Please contact Carl Chavez at (505) 476-3490 if you have questions. Thank you.

Thanks Carl. We can use the following for the call:

Phone: 855-201-9213 Code: 785-794-7754

From: Krueger, Pamela [mailto:pam.krueger@arcadis-us.com]

Sent: Wednesday, March 05, 2014 2:35 PM

To: Chavez, Carl J, EMNRD

Cc: Robert Combs; Holder, Mike (Michael.Holder@hollyfrontier.com); Turner, Maisha; VonGonten, Glenn, EMNRD;

Tsinnajinnie, Leona, NMENV

Subject: RE: Groundwater monitoring - Navajo Refinery

Carl – Would it be possible to schedule a brief conference call to clarify your response, preferably on Friday 3/7/14?

Pamela R. Krueger | Senior Project Manager | pam.krueger@arcadis-us.com

ARCADIS U.S., Inc. | 2929 Briarpark Dr. Suite 300 | Houston, TX 77043 T: 713.953.4816 | M: 713.249.8548 | F: 713-977-4620 Connect with us! www.arcadis-us.com | LinkedIn | Twitter | Facebook

ARCADIS, Imagine the result

Please consider the environment before printing this email.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]

Sent: Wednesday, March 05, 2014 11:01 AM

To: Krueger, Pamela

Cc: Robert Combs; Turner, Maisha; VonGonten, Glenn, EMNRD; Tsinnajinnie, Leona, NMENV

Subject: RE: Groundwater monitoring - Navajo Refinery

Pam:

Good morning. The New Mexico Oil Conservation Division (OCD) has determined that is will <u>not</u> approve the monitoring change requested below.

Thank you.

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: <u>CarlJ.Chavez@State.NM.US</u>
Web: <u>http://www.emnrd.state.nm.us/ocd/</u>

"Why Not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward With the Rest of the Nation?" To see how, please go to: "Pollution Prevention & Waste Minimization" at

http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental

From: Krueger, Pamela [mailto:pam.krueger@arcadis-us.com]

Sent: Friday, February 21, 2014 4:09 PM

To: Chavez, Carl J, EMNRD **Cc:** Robert Combs; Turner, Maisha

Subject: Groundwater monitoring - Navajo Refinery

Carl – On January 29, 2014, the NMED HWB approved Navajo's 2013 Facility-Wide Groundwater Monitoring Program (2013 FWGMWP), with modifications (see attached). In Section 5.3.2 of the 2013 FWGMWP, Navajo proposed to reduce the sampling frequency from semiannually to annually for 35 monitoring wells and from annually to biennially on 2 monitoring wells. Navajo also proposed to drop one irrigation well from the monitoring program, since the well is out of service and is not owned by Navajo.

NMED HWB approved the request for some of the monitoring wells, denied the request for other monitoring wells, and deferred to OCD on 3 of the monitoring wells. The requested changes and NMED HWB's responses are summarized below. Navajo respectfully requests that OCD provide concurrence or comment on the requested changes no later than March 7, 2014 so that these changes may be incorporated into the spring 2014 monitoring event.

Navajo proposes to reduce the frequency of sample collection from semiannually to annually for the following wells for the reasons given in parentheses:

KWB-9 (no COC impacts, beyond sentinel wells, landowner currently denying access)
 NMED concurred

- MW-8 (no hydrocarbon impacts, declining arsenic concentrations, in cluster of wells on semiannual monitoring list) NMED concurred
- MW-18 (stable to declining COC trends, not in sentinel location)
 NMED concurred
- MW-22A (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-23 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-28 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-41 (stable COC concentrations interior to plume, not in sentinel location)
 NMED concurred
- MW-42 (stable COC concentrations interior to plume, not in sentinel location)
 NMED concurred
- MW-43 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-49 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-61 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-62 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-66 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-71 (in cluster of wells and beyond dissolved phase plume) NMED concurred
- MW-72 (stable COC concentrations interior to plume, not in sentinel location)
 NMED concurred
- MW-73 (stable COC concentrations interior to plume, not in sentinel location)
 NMED concurred
- MW-74 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-75 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-76 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-77 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-79 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-83 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-84 (stable COC concentrations interior to plume, not in sentinel location)
 NMED denied must remain at seminannual frequency
- MW-93 (stable COC concentrations interior to plume, not in sentinel location)

NMED denied – must remain at seminannual frequency

- MW-98 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-101 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-104 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- MW-106 (stable COC concentrations interior to plume, not in sentinel location) NMED denied – must remain at seminannual frequency
- NP-1 (stable to declining COC concentrations, downgradient of sentinel well) NMED denied – must remain at seminannual frequency
- OCD-1R (stable COC concentrations outside and up- to cross-gradient of plume) NMED denied – must remain at seminannual frequency
- OCD-2A (stable COC concentrations outside and up- to cross-gradient of plume) NMED concurred, but deferred to OCD approval of same
- OCD-3 (stable COC concentrations outside and up- to cross-gradient of plume) NMED concurred, but deferred to OCD approval of same
- OCD-4 (stable COC concentrations outside and up- to cross-gradient of plume) NMED concurred, but deferred to OCD approval of same
- RA-1227 (no COC impacts, beyond sentinel wells, landowner currently denying access) NMED concurred
- RA-3156 (no COC impacts, beyond sentinel wells, landowner currently denying access) NMED concurred

Navajo proposes to reduce the frequency of sample collection from annually to biennially for the following wells:

- NP-5 (no COC impacts, cross-gradient outside of plume, not in sentinel location) NMED concurred
- NP-6 (in cluster of wells and beyond dissolved phase plume)

NMFD concurred

Navajo does not own irrigation well RA-314 and the well owner has removed the pump and electrical service to this well. As a result, Navajo does not have access to the well to collect a sample and the well is being dropped from the monitoring program.

NMED concurred

Pamela R. Krueger | Senior Project Manager | pam.krueger@arcadis-us.com

ARCADIS U.S., Inc. | 2929 Briarpark Dr. Suite 300 | Houston, TX 77043 T: 713.953.4816 | M: 713.249.8548 | F: 713-977-4620 Connect with us! www.arcadis-us.com | LinkedIn | Twitter | Facebook

ARCADIS, Imagine the result

Please consider the environment before printing this email.

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS U.S., Inc. and its affiliates. Nothing herein is intended to constitute the offering or performance of services where otherwise restricted by law.