From:	Patterson, Heather, EMNRD
To:	"Lara Weinheimer"
Cc:	"Jacob Kamplain"; "Hack Conder"; "Laura Flores"; "Catherine Ursanic"; "Baker, Larry"; Bratcher, Mike, EMNRD; "Robertson, Jeffery"
Subject:	RE: Apache Crow Federal Mega Battery (2RP-2715) Path Forward
Date:	Tuesday, February 10, 2015 10:38:00 AM

RE: Apache * Crow Federal Mega Battery * 30-015-34126 * 2RP-2715

Lara,

Your proposed path forward is approved as written. BLM approval is required for this site.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson
Environmental Specialist
NMOCD District II
(575)748-1283 ext.101

From: Lara Weinheimer [mailto:lweinheimer@rice-ecs.com]
Sent: Friday, February 06, 2015 9:54 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; 'Robertson, Jeffery'
Cc: 'Jacob Kamplain'; 'Hack Conder'; 'Laura Flores'; 'Catherine Ursanic'; 'Baker, Larry'
Subject: Apache Crow Federal Mega Battery (2RP-2715) Path Forward

Apache Crow Federal Mega Battery (2RP-2715)
UL/A sec. 9 T17S R31E

Path Forward

Apache Corporation (Apache) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 6.5 miles west of Maljamar, New Mexico. The initial C-141 states that the release is in UL/A; however, the release also extends into UL/B of sec. 9 T17S R31E. This site is located in an area of no known groundwater.

RECS personnel were on site beginning on January 5th, 2015 to assess the release. The release covered 11,320 square feet of pasture land and lease road. Five points within the release area were sampled at the surface and with depth. The samples were field tested for chlorides and organic vapors. Representative samples were taken to a commercial laboratory for analyses. Point 1 through Point 4 returned laboratory chloride readings at or near regulatory standards at the surface of the release. Point 5 returned elevated laboratory chloride readings at the surface of the release that dropped to below regulatory standards at 6 inches bgs. All points, except Point 2, returned elevated Gasoline Range Organics (GRO) readings, Diesel Range Organics (DRO) readings and BTEX readings at the surface of the release. Point 1, Point 2, Point 4 and Point 5 were sampled with depth to determine the vertical hydrocarbon contamination. Point 1 and Point 2 returned GRO, DRO and BTEX readings of non-detect at 6 inches bgs. Point 4 returned GRO, DRO and BTEX readings below regulatory standards at 1.5 ft bgs. Point 5 returned GRO, DRO and BTEX readings below regulatory standards 6 inches bgs, and readings of non-detect at 1 ft bgs.

Path Forward

Based on the laboratory analyses, the release area around Point 1, Point 2 and Point 5 will be scraped down to 6 inches bgs. The release area around Point 4 will be excavated to a depth of 1.5 ft bgs. The release areas around Point 3, located in the pasture, will be scraped to remove the contaminated soil. Once the contaminated soil has been removed from this area, a composite sample from the bottom of the scrape will be taken and field tested for chlorides and organic vapors. If the field data indicates that the composite will not achieve chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings below regulatory standards, the scrape will be deepened until field testing indicates that all constituents from the bottom composite will return values below regulatory standards. The bottom composite will then be taken to a commercial laboratory to confirm that chloride, GRO, DRO and BTEX readings are below regulatory standards.

There is an active non-Apache buried pipeline bisecting the site. In order to maintain pipeline integrity and personnel safety, the release areas near the pipeline will be excavated by hand shovel and/or hydrovac as needed.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean caliche will be imported to the site to backfill the lease road, and clean top soil will be imported to the site to backfill the pasture areas. Once the site has been backfilled, the disturbed areas in the pasture will be seeded with a blend of native vegetation.

Photo documentation of the initial release can be found in the attachments.

Lara Weinheimer
Rice Environmental Consulting & Safety
Project Scientist

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RECS
RICE ENVIRONMENTAL
CONSULTING & SAFETY