



SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lieutenant Governor

State of New Mexico **ENTERED**
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6313
Phone (505) 476-6000 Fax (505) 476-6030
www.env.nm.gov



BUTCH TONGATE
Cabinet Secretary
J. C. BORREGO
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

December 21, 2017

Adam Kusmak
Chief, Installation Management Flight
49th CES/CEI
550 Tabosa Avenue
Holloman AFB, NM 88330

**RE: APPROVAL WITH MODIFICATIONS
FISCAL YEAR 2016 GROUNDWATER MONITORING REPORT,
SS-018 – CHROMIC ACID SPILL SITE, MARCH 2017
HOLLOMAN AIR FORCE BASE, EPA ID # NM6572124422
HWB-HAFB-17-008**

Dear Mr. Kusmak:

The New Mexico Environment Department (NMED) has reviewed the Holloman Air Force Base (Permittee) *Fiscal Year 2016 Groundwater Monitoring Report* (Report) for site SS-018 (AOC-H), dated March 2017 and received on May 9, 2017. The Report recommends further evaluation of potential risk from volatile organic compound (VOC) vapor intrusion from groundwater and that potential corrective measures for risk mitigation be determined, which may include in-situ treatment methodologies. Continued groundwater monitoring is also recommended. The Report is hereby approved with the following modifications:

1. For future reference, as per a recent modification to the facility's Hazardous Waste Facility Permit, site "SS-018, Chromic Acid Spill Site" is being re-designated as site "SS018, VOC Spill Site" to more accurately depict current site conditions.
2. Sections 5.1 and 8.1.2 and Table 5-2 of the Report indicate that the NMED tap water Risk Based Screening Level-cancer (RBSL) for 1,4-dioxane is 7.76 micrograms per liter ($\mu\text{g/l}$). As of March 2017, this RBSL has been reduced to 4.59 $\mu\text{g/l}$. Therefore, in addition to monitoring

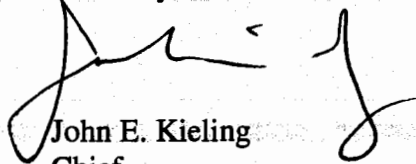
wells SS18-MW08 (9.1 µg/l) and SS18-MW19 (24 µg/l), the 1,4-dioxane concentration in monitoring well SS18-MW04 (4.6 µg/l) exceeds the screening level.

3. Sections 5.2 and 8.2 recommend that, due to elevated total dissolved solids concentrations, all future groundwater samples for inorganics (except mercury) be filtered (dissolved) as opposed to unfiltered (total). As per NMAC 20.6.2.3103, *Standards for Groundwater of 10,000 mg/l TDS Concentration or Less*, the groundwater human health standards apply to filtered samples. Therefore, future samples for inorganics (except mercury) shall be filtered (dissolved). Unfiltered samples, collected during the last sampling event of each calendar year, also shall be submitted for inorganics analyses and the results must be reported in the associated monitoring report.
4. The applicable groundwater standard as shown on Table 5-2 for 1,4-dioxane should be 4.59 µg/l, not 7.76 µg/l, and the standard for 1,4-dichlorobenzene should be 75 µg/l, not 750 µg/l. In addition, future submissions of Table 5-4, *Groundwater Analytical Results*, must show the applicable standards for each constituent and all results exceeding the standard must be highlighted.
5. Figure 2-1, *Monitoring Well Locations*, does not show the locations of monitoring wells SS18-MW10 or USTC508-MW01.
6. For all future submissions, a figure presenting contours of inorganic contaminants in groundwater and a discussion of the extent and fate of such contaminants must be provided. In addition, a figure presenting the 1,4-dioxane contaminant concentrations or contours in groundwater must be provided.

The Permittee must submit an Interim Measures Work Plan for further risk evaluation and the evaluation of potential corrective measures for risk mitigation at AOC-H no later than **February 28, 2018**.

Please call David Strasser of my staff at (505) 222-9526 if you have any questions regarding this letter.

Sincerely,



John E. Kieling
Chief
Hazardous Waste Bureau

Mr. Adam Kusmak
December 21, 2017
Page 3

cc: D. Cobrain, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
C. Schick, HAFB
S. Dorton, HAFB
C. Hendrickson, EPA, Region 6 (6MM-RC)
L. King, EPA, Region 6 (6MM-RC)

File: HAFB 2017 and Reading
HAFB-17-008