MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

MAIL CERTIFIED - RETURN RECEIPT REQUESTED

July 30, 2024

Robert Gallegos, Manager
Department of Energy-NNSA
Los Alamos Field Office
3747 West Jemez Rd, MS A316
Los Alamos, NM 87544

Steven Story, Division Leader
Environmental Protection and Compliance
Triad National Security, L.L.C.
P.O. Box 1663, MS M969
Los Alamos, NM 87545

RE: REVIEW
TECHNICAL AREA 63 TRANSURANIC WASTE FACILITY SOIL VAPOR MONITORING SYSTEM REPORT, CALENDAR YEAR 2024, QUARTER 2, APRIL
LOS ALAMOS NATIONAL LABORATORY
EPA ID#NM0890010515
HWB-LANL-24-028

Dear Robert Gallegos and Steven Story:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) National Nuclear Security Administration, Los Alamos Field Office (NA-LA) and the Triad National Security, LLC (Triad) (collectively the Permittees) *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Calendar Year 2024, Quarter 2, April* (Report) dated and received June 13, 2024, and referenced by EPC-DO-24-150/LA-UR-24-25684.

Soil vapor monitoring was conducted at Technical Area 63 Transuranic Waste Facility on April 30, 2024, for the second quarter of 2024. The Report indicates that vapor concentrations for volatile organic compounds (VOCs) from the five (5) vapor monitoring wells (VMWs), 1 through 5, did not exceed soil-gas screening levels (SGSLs) for the identified constituents in Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3 of Part 3 of the Los Alamos National Laboratory's RCRA Permit.

As stated in Section IV Analytical Results, trichloroethene (TCE) continues to exhibit the highest concentrations of all of the VOCs detected. VMW-4 and VMW-5, the two closest wells to Material Disposal Area (MDA) C, consistently have the highest concentrations of TCE, with VMW-4 at 60 feet below ground surface (bgs) with reported results of 7,000 µg/m^3 (7.6% of the SGSL) this quarter.

Similar to two previous sampling Quarters, Q4 CY2023, and Q1 CY2024, chloroform was detected for the third sequential quarter in VMW-2, with a reported result of 4.1 µg/m^3 (less than 0.01% SGSL) at 5 ft bgs. Chloroform is routinely detected in VMW-4 and VMW-5 at both depths, with concentrations of ranging from 25 to 170 µg/m^3. NMED notes that the maximum detection for chloroform is equal to or less than 0.5% of the SGSL for the second quarter of sampling for 2024.

On June 3, 2024, NMED was notified that ethanol was detected for the first time at 40 µg/m^3 at VMW-2 at 5 ft bgs. While ethanol is not listed as a constituent in Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3; it should continue to be monitored by the Permittees due to its potential relationto MDA C.

Similar to previous sampling in CY2023, bromodichloromethane was detected in VMW-4 with a reported result of 4.5 µg/m^3 at a depth of 25 ft bgs and 5.9 µg/m^3 at 50 ft bgs in Q1 and Q2 of CY2024. While bromodichloromethane is not included as a constituent in Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3, NMED notes that for Bromodichloromethane, the 2022 NMED Soil Screening Guidance Vapor Intrusion Screening Levels (VISLs) industrial soil gas (sg) cancer risk screening level is currently set to 124 µg/m^3. Bromodichloromethane should continue to be monitored at VMW-4.

NMED has reviewed the Report and has no further comments at this time. If you have any questions regarding this letter, please contact Siona Briley at (505) 690-5160.

Sincerely,

JohnDavid Nance Digitally signed by JohnDavid Nance
Date: 2024.07.30 11:27:25 -06'00'

JohnDavid Nance
Chief
Hazardous Waste Bureau

cc: N. Dhawan, NMED HWB
S. Briley, NMED HWB
C. Martinez, NMED HWB
M. Petersen, NMED HWB
S. Yanicak, NMED DOE OB
L. King, US EPA Region 6
A. Duran, EM-LA
K. Armijo, NA-LA
J. Moseley, Triad
J. Hill, Triad
C. Maupin, N3B
epc-correspondence@lanl.gov
lasomailbox@nnsa.doe.gov
locatesteam@lanl.gov
rcra-prr@lanl.gov

File: 2024 LANL, TA-63, Review, TA-63 TWF Soil Vapor Monitoring System Report, Quarter 2, (April) LANL-24-028