June 10, 2019

David Einan, Unit Manager
Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, WA 99352

Ted Livierators, Senior WAG Coordinator
Waste Management and Remediation Division
Idaho Department of Environmental Quality
1410 North Hilton
Boise, ID 83706-1222


Dear Mr. Einan and Mr. Livierators:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the May 2019 FFA/CO Monthly Report.

If you have any questions, please contact me at (208) 526-5793.

Sincerely,

Nolan R. Jensen, FFA/CO Project Manager
Department of Energy, Idaho Operations Office


cc: S. D. Lee, MFC
C. Henvit, NR-IBO
F. P. Hughes, Fluor Idaho
M. Jewett, Fluor Idaho
Erik Whitmore, Fluor Idaho
ID RECORD PAGE

[This page and concurrence notes/emails for internal distribution only]

ID DISTRIBUTION:

Email to: ! DOE-ID EDMS Correspondence (ASC)
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Jensen, Nolan R.
Malmo, James A.
Natoni, Christian
Watson, Will
Zimmerman, John P

CONCURRENCE:

RECORD NOTES:

1. This correspondence record belongs to: WDP/RWMC

2. This letter was prepared to transmit the May 2019 FFA/CO Monthly Report to the Agencies per the FFA/CO, Section 17.

3. This letter was prepared by Nolan Jensen.

4. This letter/memo closes Zeus number: NA

5. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.
FFA/CO Report

SCOPE
The Department of Energy – Idaho Operations Office (DOE-ID) through their contractors have responsibility for regulation-compliant characterization, assessment, and remediation of identified release sites listed in the Idaho National Engineering and Environmental Laboratory (INEEL) Federal Facility Agreement and Consent Order (FFA/CO). Planned cleanup activities include excavation, removal, treatment, stabilization, containment, long-term monitoring, and institutional controls, as required to meet regulatory commitments. Activities are structured to effectively and efficiently conduct characterization, assessment, and remediation of all Waste Area Groups (WAGs) and identified release sites listed in the FFA/CO for the Idaho National Laboratory (INL).

The environmental cleanup is structured along the following administrative units:

1. WAG 1 – Test Area North (TAN) Remediation
2. WAG 2 – Reactor Technology Complex (RTC) Remediation (formerly Test Reactor Area –[TRA])
3. WAG 3 – Idaho Nuclear Technology and Engineering Center (INTEC) Remediation
4. WAG 4 – Central Facilities Area (CFA) Remediation
5. WAG 5 – Power Burst Facility/Auxiliary Reactor Area (PBF/ARA) Remediation
6. WAG 7 – Radioactive Waste Management Complex (RWMC) Remediation
7. WAG 8 – Naval Reactors Facility (NRF)
8. WAG 9 – Materials and Fuels Complex (MFC) (formerly Argonne National Laboratory-West ANL-W)
9. WAG 6/10 – Miscellaneous Soil Areas and Groundwater and Long-term Stewardship (LTS)

April 2019 ACCOMPLISHMENTS
- Waste received at the ICDF for the fiscal month May 2019:
  - Solid waste received at landfill: 0.87 m³
  - Liquid waste received at the evaporation ponds: 2,411 gal
- Began ARP IX exhumation.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 98 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from April 22nd, 2019 through May 19th, 2019.
- Completed the WAG 1 quarterly sampling event on April 25th, 2019.
- Completed the annual WAG 3 aquifer sampling on April 25th, 2019.
- Completed the annual Institutional Controls, and Operations and Maintenance inspections on May 16th, 2019.
Organic Contamination in the Vadose Zone Remedial Action.

Since the beginning of operations in January of 1996, the following amounts of VOCs have been removed and treated:

Note: Summary totals may not agree with the sum of unit totals due to rounding.

<table>
<thead>
<tr>
<th>Total Cumulative</th>
<th>Total Current Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>approximately 256,076 lb of TVOC</td>
<td>approximately 98 lb of TVOC</td>
</tr>
<tr>
<td>approximately 142,920 lb of CCl₄</td>
<td>approximately 31 lb of CCl₄</td>
</tr>
</tbody>
</table>

The cumulative below represents the entire volume per unit since the initiation of operations in January 1996:

<table>
<thead>
<tr>
<th>Cumulative</th>
<th>Current Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit D</td>
<td></td>
</tr>
<tr>
<td>53,845 lb TVOC</td>
<td>45 lb TVOC</td>
</tr>
<tr>
<td>22,702 lb CCl₄</td>
<td>9 lb CCl₄</td>
</tr>
<tr>
<td>Unit E</td>
<td></td>
</tr>
<tr>
<td>73,809 lb TVOC</td>
<td>22 lb TVOC</td>
</tr>
<tr>
<td>42,912 lb CCl₄</td>
<td>9 lb CCl₄</td>
</tr>
<tr>
<td>Unit F</td>
<td></td>
</tr>
<tr>
<td>128,422 lb TVOC</td>
<td>31 lb TVOC</td>
</tr>
<tr>
<td>77,309 lb CCl₄</td>
<td>13 lb CCl₄</td>
</tr>
</tbody>
</table>

FFA/CO Documents:
- Transmitted the final FY 2018 WAG 1 Annual Report to the Agencies on May 8th, 2019.
- Transmitted the final FY 2018 WAG 4 Annual Report to the Agencies on May 13th, 2019.
- Transmitted the draft 100% design of the SDA Cap to the Agencies on May 17th, 2019.

Support Activities:
- Conduct routine operations at the NPTF, processing 3.1 M gallons of water.

ISSUES
None

90-DAY LOOK AHEAD

June
- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX preparation and begin exhumation.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete WAG 1 groundwater annual sampling.
- Submit WAG 3 Annual Report for agency review.
- Complete WAG 7 aquifer sampling.
- Submit WAG 2 Annual Report for Agency review.
- Submit draft FY 2018 IC and O&M Report for Agency review.
- Begin WAG 10 aquifer sampling.
- Begin FY 2019 Westbay well rehabilitation.
July
- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete TAN quarterly sampling.
- Begin field work for CPP-142.
- Perform FY 2019 O&M activities.

August
- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete injections at TAN.
- Complete TAN monthly sampling.
- Submit final FY 2018 WAG 3 Annual Report.

Significant activities planned to occur in FY 2019:
- Perform annual institutional controls inspections. Complete
- Continue operation of Environmental Data Warehouse and GIS Database.
- Perform site-wide groundwater monitoring as required by field sampling plans.
- Complete the FY 2018 OU 1-07B Annual Report. Complete
- Complete remediation of site CPP-142.
- Complete the FY 2018 OU 3-14 Operations and Maintenance Report.
- Complete the Annual Groundwater Monitoring Report for WAG 4. Complete
- Complete annual letter report for OU 7-13/14 Operations and Maintenance - Complete.
- Complete the annual WAG 10 Annual Groundwater Monitoring Report.
- Complete the annual groundwater monitoring report for WAG 7.
- Complete the annual soil moisture monitoring and reporting for WAG 7. Complete
- Complete the Westbay wells rehabilitation.
- Complete CERCLA O&M site inspections. Complete
- Complete ISB injections at TAN.
- Complete the FY 2018 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report.
- Complete Part B determinations for sites PBF-39, TRA-83 and TRA-84.
• Complete the SDA cap design.