

IDAHO CLEANUP PROJECT



**IDAHO NATIONAL LABORATORY
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (FFA/CO)
MONTHLY REPORT**

March 2020

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)

March 2020 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month March 2020:
 - Solid waste received at landfill: 86.82 m³
 - Liquid waste received at the evaporation ponds: 2,057 gal
- Continued ARP IX exhumation; exhumation halted on March 20th, 2020.
- Completed transfer of equipment from ARP V to ARP III on March 20th, 2020.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 150 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from February 17th, 2020 through March 22nd, 2020.
- Completed WAG 1 (TAN) ISB injection at TAN-1860 on March 9th, 2020.
- Completed the WAG 1 (TAN) monthly sampling on March 17th, 2020.
- Completed a WAG 3 (INTEC) water system isolations on March 17th, 2020.
- Completed the quarterly WAG 7 (RWMC) vapor port monitoring on March 4th, 2020.
- Completed the quarterly WAG 7 (RWMC) Pad A inspection on March 15th, 2020.

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

| 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. | |
| Total Cumulative | Total Current Month |
| approximately 257,216 lb of TVOC approximately 143,231 lb of CCl ₄ | approximately 150 lb of TVOC approximately 37 lb of CCl ₄ |
| The cumulative below represents the entire volume per unit since the initiation of operations in January 1996 | |
| Cumulative | Current Month |
| Unit D | |
| 54,402 lb TVOC 22,789 lb CCl ₄ | 81 lb TVOC 11 lb CCl ₄ |
| Unit E | |
| 74,060 lb TVOC 43,002 lb CCl ₄ | 28 lb TVOC 10 lb CCl ₄ |
| Unit F | |
| 128,754 lb TVOC 77,440 lb CCl ₄ | 41 lb TVOC 16 lb CCl ₄ |

FFA/CO Documents:

- Transmitted the draft FY 2019 WAG 1 (TAN) annual report on February 18th, 2019.
- Transmitted the draft WAG 7 (RWMC) five-year monitoring report on February 17th, 2020.
- Transmitted the draft WAG 4 (CFA) FY 2019 annual report on February 17th, 2019.
- Transmitted the final WAG 10 FY 2019 biennial report on February 17th, 2019.

Support Activities:

- Conducted routine operations at the NPTF, processed 3.5M gallons of water between February 17th, 2020 and March 22nd, 2020.
- Completed a public notice for the CERCLA five-year review on February 28th, 2020.

ISSUES

None

90-DAY LOOK AHEAD

April

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- ARP IX exhumation suspended.
- Complete removal of tunnel from ARP V to ARP III and sealing of the ARPs.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- NPTF operations suspended.
- Operate the VVET system 7 days a week, 24 hours a day.
- Transmit the WAG 1 (TAN) 2nd quarter summary report.
- Complete WAG 1 (TAN) quarterly sampling.
- Complete the WAG 3 (INTEC) perched water sampling.

- Complete the FY 2020 2nd quarter Tank Farm (INTEC) remedy component inspection.
- Transmit EDF-10116 (90%) design as final.
- Complete the WAG 3 (INTEC) semi-annual perched water level measurements and data downloads.
- Transmit the draft FY 2019 WAG 3 (INTEC) annual report.
- Complete 2nd quarter FY 2020 Tank Farm remedy component inspection.
- Transmit the draft WAG 7 (RWMC) five-year O&M report.
- Transmit the final WAG 7 (RWMC) five-year monitoring report.
- Transmit the final WAG 4 (CFA) FY 2019 annual report.
- Complete the Five-Year Review toxicity data review.
- Begin the FY 2020 IC/O&M inspections.

May

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Resume ARP IX exhumation operations, if possible.
- Compile and report targeted waste retrieval and shipment data, if necessary.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations, if possible.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete WAG 1 (TAN) ISB injections at TAN-1860.
- Complete WAG 1 (TAN) monthly sampling.
- Complete WAG 3 (INTEC) water system isolations.
- Complete WAG 3 (INTEC) aquifer sampling.
- Complete the WAG 7 (RWMC) annual groundwater monitoring.
- Transmit draft FY 2019 IC and O&M report.
- Continue FY 2020 IC and O&M inspections
- Resume Westbay well rehabilitation.
- Prepare draft 5-year review.
- Prepare the draft NSI Part B for CPP-142.
- Submit the draft cultural resources statement of context for the spreading areas.

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 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 WAG 1 (TAN) annual groundwater monitoring.
- Complete WAG 3 (INTEC) water system isolations.
- Transmit the final WAG 7 (RWMC) five-year O&M report.
- Transmit the draft FY 2020 WAG 2 (ATR) annual report.

- Transmit the final FY 2019 IC/O&M report.
- Prepare draft five-year review
- Continue Westbay well rehabilitation.
- Submit the final cultural resources statement of context for the spreading areas.

Significant activities planned to occur in FY 2020:

- Perform annual institutional controls inspections.
- Continue operation of Environmental Data Warehouse and GIS Database.
- Perform site-wide groundwater monitoring as required by field sampling plans.
- Complete the FY 2019 OU 1-07B Annual Report (WAG 1/TAN).
- Complete the FY 2020 Annual Groundwater Monitoring Report for WAG 2 (ATR).
- Complete NSI Part B for CERCLA site CPP-142.
- Complete the FY 2019 OU 3-14 Operations and Maintenance Report (WAG 3/INTEC).
- Complete the FY 2019 Annual Groundwater Monitoring Report for WAG 4 (CFA).
- Complete annual letter report for OU 7-13/14 Operations and Maintenance (WAG7/RWMC).
- Complete the FY 2019 WAG 10 Annual Groundwater Monitoring Report. **Complete**
- Complete the annual FY 2020 groundwater monitoring letter report for WAG 7 (WAG 7/RWMC). **Complete**
- Complete the annual soil moisture monitoring and reporting for WAG 7 (RWMC). **Complete**
- Complete the Westbay wells rehabilitation.
- Complete CERCLA O&M site inspections.
- Complete ISB injections at WAG 1 (TAN).
- Complete the FY 2019 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report.
- Complete the WAG 7 (RWMC) groundwater monitoring five-year review report.
- Complete the WAG 7 (RWMC) operations and maintenance five-year review report.
- Submit the draft CERCLA five-year review report.



Department of Energy

Idaho Operations Office

1955 Fremont Avenue
Idaho Falls, ID 83415

April 8, 2020

Ms. Lynne Hood, Remedial Project Manager
Site Cleanup Section 4
Environmental Protection Agency Region 10
Hanford Project Office
825 Jadwin Avenue, Suite 210
Richland, WA 99352

Mr. Pete Johansen, FFA/CO Program Supervisor
Waste Management and Remediation Division
Idaho Department of Environmental Quality
1410 North Hilton
Boise, ID 83706 - 1222

SUBJECT: Transmittal of March 2020 Federal Facility Agreement and Consent Order Monthly Report (CLN200969)

Dear Ms. Hood and Mr. Johansen:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the March 2020 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

Enclosure: INL Federal Facility Agreement and Consent Order Monthly Report

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:

CONCURRENCE:

Email to: [! DOE-ID EDMS Correspondence](#) (ASC)

Email to: [! Records Management](#)

Malmo, James A.

Natoni, Christian

Watson, Will

Flohr, Connie

Jensen, Nolan R.

RECORD NOTES:

1. This correspondence record belongs to: WDP-RWMC
2. This letter was prepared to transmit the March 2020 FFA/CO Monthly Report to the Agencies per the FFA/CO, Section 17.
3. This letter was prepared by Nolan Jensen.
4. This letter closes Zeus number: NA
5. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.