



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

April 5, 2018

Rod Lobos, Program Manager
Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, WA 99352

Daryl F. Koch, FFA/CO Manager
Waste Management and Remediation Division
Idaho Department of Environmental Quality
1410 North Hilton
Boise, ID 83706-1222

SUBJECT: Transmittal of March 2018 Federal Facility Agreement and Consent Order Monthly Report (WDP-RWMC-18-009)

Dear Mr. Lobos and Mr. Koch:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the March 2018 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
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ID DISTRIBUTION:

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

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Jensen, Nolan R.

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RECORD NOTES:

1. This letter was prepared to transmit the March 2018 FFA/CO Monthly Report to the Agencies per the FFA/CO, Section 17.
2. This letter was prepared by Nolan Jensen.
3. This letter/memo closes Zeus number: NA
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.

IDAHO CLEANUP PROJECT



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

March 2018

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 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month March 2018:
 - Solid waste received at landfill: 102.68 m³
 - Liquid waste received at the evaporation ponds: 2,024 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 338 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from February 19th, 2018 to March 25th, 2018.

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 253,348 lb of TVOC approximately 142,058 lb of CCl ₄	approximately 338 lb of TVOC approximately 112 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	
52,826 lb TVOC 22,482 lb CCl ₄	129 lb TVOC 29 lb CCl ₄
Unit E	
73,037 lb TVOC 42,627 lb CCl ₄	96 lb TVOC 38 lb CCl ₄

Unit F	
127,485 lb TVOC 76,949 lb CCl ₄	113 lb TVOC 45 lb CCl ₄

FFA/CO Documents:

- Submitted the draft NSI and Risk Evaluation Report for TRA 61-82, TRA-79, and TRA-80 to the Agencies February 26th, 2018.
- Transmitted the revised OU 3-14 Interim Remedial Action report to the Agencies March 28th, 2018.
- Transmitted the WAG 7 vadose zone annual letter report to the Agencies March 1st, 2018.
- Transmitted the WAG 7 aquifer annual letter report to the Agencies March 13th, 2018.
- Transmitted the WAG 4 annual monitoring report to the Agencies March 14th, 2018.

Support Activities:

- Processed 4.3 M gallons of water at NPTF.
- Completed Pad A quarterly inspection March 19th, 2018.
- Reconfigured wells TAN-1859 and TAN-37 to support alternative ISB injection strategy.

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.
- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Complete TAN well maintenance.
- Complete ISB amendment injection at TAN.
- Submit the draft Vadose Zone Vapor Rebound Plan to the Agencies.
- Submit draft of FY 2017 IC/O&M report to the Agencies.
- Begin annual IC inspections.
- Complete the WAG 3 annual perched water sampling event.
- Complete the WAG 7 quarterly vapor sampling event.
- Maintain CERCLA data management systems.
- Complete TAN quarterly sampling.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

May

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VIII exhumation operations.

- Compile and report targeted waste retrieval and shipment data.
- Complete the WAG 3 annual aquifer sampling event.
- Submit draft letter and Westbay well rehabilitation plan memo.
- Continue IC inspections and O&M as necessary.
- Submit the ANL-04 characterization report to the Agencies for review.
- Submit the draft Long-Term Monitoring Study to the Agencies.
- Maintain CERCLA data management systems.
- Complete TAN monthly sampling and annual water level measurements.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

June

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Complete engineering evaluation for Tank Farm
- Maintain CERCLA data management systems.
- Complete TAN monthly sampling.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

Significant activities planned to occur in FY 2018:

- 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 2017 OU 1-07B Annual Report.
- Complete the Annual Groundwater Monitoring Report for WAG 2.
- Complete the FY 2017 OU 3-14 Operations and Maintenance Report.
- Complete the revised WAG 3 Interim Remedial Action Report - **Complete**
- Complete the revised WAG 3 O&M Plan - **Complete**
- Complete site MISC-50 report and Part B determination - **Complete**
- 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 revised INL Site-wide Institutional Controls, and Operations and Maintenance Plan for CERCLA - **Complete**
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the annual WAG 10 Annual Groundwater Monitoring Report - **Complete**
- Complete the annual groundwater monitoring report for WAG 7 - **Complete**
- Complete the annual soil moisture monitoring and reporting for WAG 7 - **Complete**

- Complete the FY 2017 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report.
- Complete Part B determinations for sites TRA-79, -80, and -61/82 at the ATRx.
- Complete the Long-Term Monitoring Plan report for WAG 7.
- Complete the Vadose Zone Rebound Study Plan for WAG 7.
- Complete the Technical and Functional Requirements for the SDA cap design - **Complete**
- Complete the 30% Preliminary Design for the SDA cap.