



## Department of Energy

Idaho Operations Office  
1955 Fremont Avenue  
Idaho Falls, ID 83415

June 11, 2018

Rod Lobos, FFA/C O 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 May 2018 Federal Facility Agreement and Consent Order Monthly Report (WDP-RWMC-18-012)

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 May 2018 FFA/CO Monthly Report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Nolan R. Jensen".

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)

Email to: ! Records Management

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Zimmerman, John P

RECORD NOTES:

1. This letter was prepared to transmit the May 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**

**May 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)

### May 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month May 2018:
  - Solid waste received at landfill: 0 m<sup>3</sup>
  - Liquid waste received at the evaporation ponds: 5,997 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- Completed the WAG 1 monthly sampling on May 15<sup>th</sup>, 2018.
- Completed the annual WAG 3 aquifer sampling on May 17<sup>th</sup>, 2018.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 283 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from April 23<sup>rd</sup> to May 20<sup>th</sup>, 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.	
<b>Total Cumulative</b>	<b>Total Current Month</b>
approximately 253,937 lb of TVOC approximately 142,252 lb of CCl <sub>4</sub>	approximately 283 lb of TVOC approximately 95 lb of CCl <sub>4</sub>
The cumulative below represents the entire volume per unit since the initiation of operations in January 1996	
<b>Cumulative</b>	<b>Current Month</b>
<b>Unit D</b>	
52,993 lb TVOC 22,523 lb CCl <sub>4</sub>	68 lb TVOC 18 lb CCl <sub>4</sub>
<b>Unit E</b>	

73,233 lb TVOC 42,697 lb CCl <sub>4</sub>	88 lb TVOC 31 lb CCl <sub>4</sub>
<b>Unit F</b>	
127,711 lb TVOC 77,033 lb CCl <sub>4</sub>	127 lb TVOC 46 lb CCl <sub>4</sub>

FFACO Documents:

- Submitted the draft Westbay Rehabilitation SAP to the Agencies for review on April 26<sup>th</sup>, 2018.
- Submitted the draft Long-Term Monitoring Study to the Agencies for review on April 26<sup>th</sup>, 2018.
- Submitted the draft FY 2017 Institutional Controls Operations and Maintenance Report to the Agencies for review April 30<sup>th</sup>, 2018.
- Submitted the draft WAG 2 Annual Groundwater Monitoring Report to the Agencies for review May 3<sup>rd</sup>, 2018.
- Completed the SDA 30% design package May 7<sup>th</sup>, 2018.

Support Activities:

- Processed 3.6 M gallons of water at NPTF.

**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 VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Complete the WAG 7 quarterly vapor sampling event.
- Complete engineering evaluation for Tank Farm.
- Maintain CERCLA data management systems.
- Continue IC inspections and O&M as necessary.
- Complete TAN monthly sampling and annual water level measurements.
- Complete the FY 2017 WAG 1 Annual Report.
- Complete the WAG 2 Annual Groundwater Monitoring Report.
- Complete the WAG 3 Long-Term Monitoring Plan revision.
- Submit the ANL-04 characterization report to the Agencies for review.
- Continue operations and maintenance of the New Pump and Treat Facility at TAN.
- 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.

July

- 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 Westbay wells rehabilitation.
- Maintain CERCLA data management systems.
- Complete the WAG 3 FY17 Annual Report.
- Submit the ANL-04 Characterization Report to the Agencies for review.
- Complete TAN quarterly sampling.
- Continue IC inspections and O&M as necessary.
- Complete Westbay wells rehabilitation.
- Begin well maintenance evolution.
- Continue operations and maintenance of the New Pump and Treat Facility at TAN.
- 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.

#### August

- 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 WAG 4 water levels and groundwater sampling.
- Complete ICDF water levels.
- Maintain CERCLA data management systems.
- Complete TAN monthly sampling.
- Continue operations and maintenance of the New Pump and Treat Facility at TAN.
- 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 Annual Monitoring Report for WAG 4 - **Complete**
- 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 - **Complete**