



## Department of Energy

Idaho Operations Office  
1955 Fremont Avenue  
Idaho Falls, ID 83415

March 1, 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 February 2018 Federal Agreement and Consent Order Monthly Report  
(WDP-RWMC-18-007)

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 February 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  
C. Henvit, NR-IBO  
T. J. Dieter, Fluor Idaho  
F. P. Hughes, Fluor Idaho  
M. Jewett, Fluor Idaho  
B. Meagher, Fluor Idaho

ID DISTRIBUTION:

CONCURRENCE:

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

Email to: ! Records Management

Jensen, Nolan R.

Malmo, James A.

Natoni, Christian

Watson, Will

Zimmerman, John P.

RECORD NOTES:

1. This letter was prepared to transmit the February 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.

N. Jensen, (WDP); J. Holt, 6-0301; March 1, 2018, 2018; O:\DOE-ID\EM-ICP\WDP\RWMC\RWMC 2018 Letters\WDP-RWMC-18-007 Transmittal of February 2018 FFA\_CO Monthly Report 

**IDAHO CLEANUP PROJECT**



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

**February 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)

### February 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month February 2018:
  - Solid waste received at landfill: 128.97 m<sup>3</sup>
  - Liquid waste received at the evaporation ponds: 40 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- Completed the WAG 1 monthly groundwater sampling and processed purge water generated during the sampling through the NPTF on February 13<sup>th</sup>, 2018.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 432 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from January 22<sup>nd</sup>, 2018 to February 18<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.	
Total Cumulative	Total Current Month
approximately 252,999 lb of TVOC	approximately 432 lb of TVOC
approximately 141,941 lb of CCl <sub>4</sub>	approximately 144 lb of CCl <sub>4</sub>
The cumulative below represents the entire volume per unit since the initiation of operations in January 1996	
Cumulative	Current Month
Unit D	
52,696 lb TVOC	114 lb TVOC
22,452 lb CCl <sub>4</sub>	30 lb CCl <sub>4</sub>

<b>Unit E</b>	
72,941 lb TVOC 42,589 lb CCl <sub>4</sub>	131 lb TVOC 46 lb CCl <sub>4</sub>
<b>Unit F</b>	
127,362 lb TVOC 76,900 lb CCl <sub>4</sub>	188 lb TVOC 68 lb CCl <sub>4</sub>

FFA/CO Documents:

- Transmitted the final revised WAG 3 O&M plan to the Agencies February 7<sup>th</sup>, 2018.
- Transmitted the Final Report on the Westbay Well MIDDLE-2015 Investigation to the Agencies February 12<sup>th</sup>, 2018.
- Transmitted the draft WAG 4 Annual Report to the Agencies for review February 12<sup>th</sup>, 2018.
- Transmitted the draft 30% SDA cap design to the Agencies for review February 15<sup>th</sup>, 2018.

Support Activities:

- Processed 3.6 M gallons of water at NPTF.
- Completed Pad A geophysical survey February 15<sup>th</sup>, 2018.

**ISSUES**

Recent OCVZ mass removal values may be suspect. Fluor will audit the values in March and report findings.

**90-DAY LOOK AHEAD**

March

- 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.
- Maintain CERCLA data management systems.
- Submit the NSI and Risk Evaluation Report for TRA 61/82, TRA-79 and TRA-80 to the Agencies.
- Submit the WAG 7 annual groundwater monitoring report to the Agencies.
- Submit the WAG 7 annual vadose zone monitoring report to the Agencies.
- Submit the final revised Interim Remedial Action Report for WAG 3 to the Agencies.
- Perform Pad A quarterly inspection.
- Submit the draft Vadose Zone Vapor Rebound Plan to the Agencies.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Submit draft of FY 2017 IC/O&M report to the Agencies.
- Complete the WAG 3 annual aquifer sampling event.
- Submit the draft Long-Term Monitoring Study to the Agencies.
- Submit draft letter and Westbay well rehabilitation plan memo.
- Begin spring well maintenance.
- 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.

#### 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.
- Continue well maintenance.
- Complete ISB amendment injection at TAN.
- 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.
- Continue well maintenance.
- Submit the ANL-04 characterization report to the Agencies for review.
- 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.

#### 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 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 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 the annual soil moisture monitoring and reporting for WAG 7.
- 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.