



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

May 13, 2019

David Einan, Unit 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 April 2019 Federal Facility Agreement and Consent Order Monthly Report (CLN191325)

Dear Mr. Einan 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 April 2019 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
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
Jensen, Nolan R.
Malmo, James A.
Natoni, Christian
Watson, Will
Zimmerman, John P

RECORD NOTES:

1. This correspondence record belongs to: WDP/RWMC
2. This letter was prepared to transmit the April 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.


N. Jensen, (WDP); J. Holt, 6-0301; May 13, 2019; O:\DOE-ID\EM-ICP\WDP\RWMC\FY19
RWMC Letterlog\CLN191325 Transmittal of April 2019 FFA_CO Monthly Report

IDAHO CLEANUP PROJECT



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

April 2019

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 April 2019:
 - Solid waste received at landfill: 30.13 m³
 - Liquid waste received at the evaporation ponds: 7,959.5 gal
- Continued ARP IX preparations.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 97 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from March 25th, 2019 through April 21st, 2019.
- Completed the annual WAG 3 perched water sampling on April 10th, 2019.

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 255,978 lb of TVOC approximately 142,889 lb of CCl ₄	approximately 97 lb of TVOC approximately 29 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	
53,800 lb TVOC 22,693 lb CCl ₄	43 lb TVOC 8 lb CCl ₄
Unit E	
73,787 lb TVOC 42,903 lb CCl ₄	21 lb TVOC 8 lb CCl ₄
Unit F	
128,391 lb TVOC 77,293 lb CCl ₄	33 lb TVOC 13 lb CCl ₄

FFA/CO Documents:

- Transmitted as final copies NSI-26033, ANL-69 Soil Contamination Outside of ANL-01 Ditch B and NSI-26034, ANL-01 Ditch B Industrial Waste Pond and Cooling Tower Blowdown Ditches to the Agencies on April 1st, 2019.
- Transmitted the final Field Sampling Plan for CERLCA Sites ANL-01 Ditch B and ANL-69 at the material and Fuels Complex to the Agencies on April 1st, 2019.
- Transmitted as final copies NSI-26035, TSF-65 Soil Contamination Under Snake Ave West of TSF Fence and NSI-26036, TSF-06 Area B Soil Contamination Area South of Turntable to the Agencies on April 9th, 2019.
- Transmitted the final Field Sampling Plan for CERCLA Site CPP-142 at the Idaho Nuclear Technology and Engineering Center to the Agencies on April 11th, 2019.

Support Activities:

- Completed repair at the NPTF and resumed routine operations on April 16th, 2019. Processed 563,690 gallons of water.

ISSUES

None

90-DAY LOOK AHEAD

May

- 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 TAN Quarterly sampling.
- Submit WAG 3 Annual Report for agency review.
- Complete WAG 3 aquifer sampling.
- Complete WAG 7 aquifer sampling.
- Submit final WAG 4 Annual Report.
- Submit WAG 2 Annual Report for Agency review.
- Submit FY 2018 IC/O&M Report for Agency Review.
- Submit 100% design of SDA cap for agency review.

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 TAN MNA sampling.
- Begin CPP-142 field work.

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.
- Submit final FY18 WAG 3 Annual Report.
- Complete WAG 10 aquifer sampling.

Significant activities planned to occur in FY 2019:

- 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 2018 OU 1-07B Annual Report.
- Complete the Annual Groundwater Monitoring Report for WAG 2.
- 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 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 the Westbay wells rehabilitation.
- Complete CERCLA O&M site inspections.
- 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.