

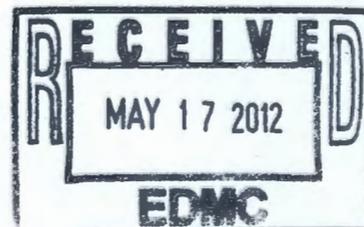
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Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

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| Menard, Nina | NMEN461@ECY.WA.GOV | H0-57 | ECO |
| Gadbois, Larry E | Gadbois.larry@epa.gov | B1-46 | EPA |
| Hadley, Karl A | karl.hadley@wch-rcc.com | H4-21 | WCH |
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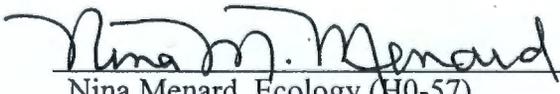


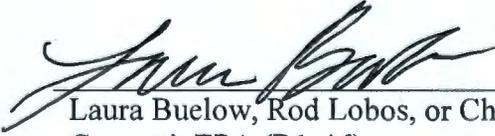
100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

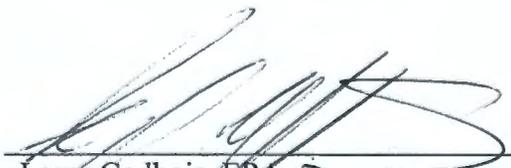
March 8, 2012

APPROVAL:  Date 4/12/12
Mark French, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL:  Date 4/12/2012
Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL:  Date 4-12-12
Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL:  Date 4-12-12
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL:  Date 4-12-12
Larry Gadbois, EPA ~~Red Lobos For.~~
(B1-46)
300 Area Project Manager

100 & 300 AREA UNIT MANAGER MEETING MINUTES**Groundwater and Source Operable Units; Facility Deactivation, Decontamination, Decommission, and Demolition (D4); Interim Safe Storage (ISS); Field Remediation (FR); and Mission Completion****March 8, 2012****ADMINISTRATIVE**

- Next Unit Manager Meeting (UMM) – The next meeting will be held April 12, 2012, at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- Attendees/Delegations – Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the UMM.
- Approval of Minutes – The February 9, 2012, meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- Action Item Status – The status of action items was reviewed and updates were provided (see Attachment B).
- Agenda – Attachment C is the meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the March 8, 2012, UMM.

100-F & 100-IU-2/100-IU-6 AREAS (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no agreements or action items were documented.

100-D & 100-H AREAS (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no action items were documented.

Agreement 1: Attachment 3 provides Ecology's approval of the closure of the anomaly staging area at 118-D-3:2 subject to removal of the uranium capsules and addition of a statement to the sample results that contaminants of potential concern were not detected by laboratory analysis.

Agreement 2: Attachment 4 provides notification to Ecology that the requested statement was added to the sample results and that the uranium capsules had been transferred to the Central Waste Complex to document the closure of the anomaly staging area at 118-D-3:2.

Agreement 3: Attachment 5 provides EPA's approval to treat the 100-D-30 chromium-contaminated soil in accordance with the "Treatment Plan and Protocol for Treatment of Chromium-Contaminated Soils, WCH-284, Rev. 2."

100-N AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 6 provides status and information for D4/ISS activities at 100-N. No issues were identified and no action items were documented.

Agreement 1: Attachment 7 provides a 100-N Ancillary Facilities Removal Action Sampling Determination Form for Building 1802-N.

Agreement 2: Attachment 8 provides a 100-N Ancillary Facilities Removal Action Sampling Determination Form for Building 108-N.

Agreement 3: Attachment 9 provides a 100-N Ancillary Facilities Removal Action Sampling Determination Form for Building 1706-NA.

Agreement 4: Attachment 10 provides a 100-N Ancillary Facilities Removal Action Sampling Determination Form for Building 1310-N.

Agreement 5: Attachment 11 provides Ecology's approval to relocate an anomaly from UPR-100-N-19 to the 128-N-1 area to characterize it when other anomalies at 128-N-1 are being characterized.

Agreement 6: Attachment 12 provides Ecology's approval regarding the UPR-100-N-9 focused sampling approach for verification of the closure of the waste site using composite samples.

100-K AREA (GROUNDWATER, SOILS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no action items were documented.

Agreement 1: Attachment 13 provides EPA's approval to move two over-packed drums (containing two bottles of liquid) from the 128-K-2 waste site to the 118-K-1 anomaly characterization area to characterize the liquid.

100-B/C AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no action items were documented.

Agreement 1: Attachment 14 provides EPA's approval to treat the 100-C-7:1 chromium-contaminated soil in accordance with the "Treatment Plan and Protocol for Treatment of Chromium-Contaminated Soils, WCH-284, Rev. 2."

300 AREA – 618-10/11 (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. No issues were identified and no agreements or action items were documented.

300 AREA - GENERAL (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 15 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

REGULATORY CLOSEOUT DOCUMENTS OVERALL SCHEDULE

No issues were identified and no agreements or action items were documented.

MISSION COMPLETION PROJECT

Attachment 16 provides status and information regarding the Orphan Sites Evaluations, Long-Term Stewardship, River Corridor Baseline Risk Assessment, the Remedial Investigation of Hanford Releases to the Columbia River, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

5-YEAR RECORD OF DECISION ACTION ITEM UPDATE

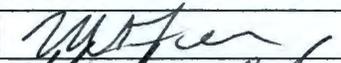
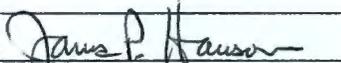
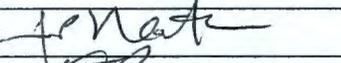
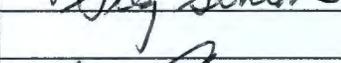
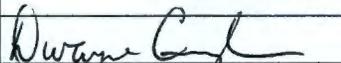
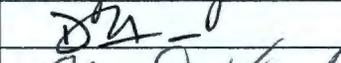
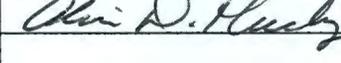
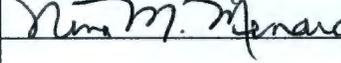
No changes were reported to the status of the CERCLA Five-Year Review action Items. No issues were identified and no agreements or action items were documented.

Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

March 8, 2012

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Attachment B

100/300 Area UMM
Action List
March 8, 2012

| Open (O)/ Closed (X) | Action No. | Co. | Actionee | Project | Action Description | Status |
|-------------------------|---------------|-----|-------------|---------|--|---------------------------|
| O | 100-181 | RL | J. Hanson | 100-HR | DOE will provide Ecology with a briefing on the applicability and status of bioremediation of chromium and the associated feasibility studies. | Open: 4/14/11; Action: |
| O | 100-192 | RL | J. Hanson | 100-D | DOE will provide Ecology with a briefing on the wells damaged by the flooding at 100-D. | Open: 12/8/11; Action: |
| O | 100-193 | RL | M. Thompson | 100-N | At the next UMM, DOE will discuss the potential sources of total organic carbon detected at well 199-N-165 down-gradient from the 1324-N/NA treatment, storage, and/or disposal units. | Open: 1/12/12; Action: |

Attachment C

100/300 Area Unit Manager Meeting
March 8, 2012
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (February 9, 2012)
- Update to Action Items List
- Next UMM (4/12/2012, Room C209)

Open Session: Project Area Updates - Groundwater, Field Remediation, D4/ISS:

- 100-F & 100-IU-2/6 Areas (Greg Sinton/Tom Post/Jamie Zeisloft)
- 100-D & 100-H Areas (Jim Hanson/Tom Post/Elwood Glossbrenner)
- 100-N Area (Joanne Chance, Rudy Guercia, Mike Thompson)
- 100-K Area (Jim Hanson, Jamie Zeisloft)
- 100-B/C Area (Greg Sinton, Tom Post)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (Mike Thompson/Rudy Guercia)
- Regulatory Closeout Documents Overall Schedule (John Neath, Mike Thompson)
- Mission Completion Project (John Sands)

Special Topics/Other

- 5-Year Record of Decision Action Item Update (Jim Hanson)

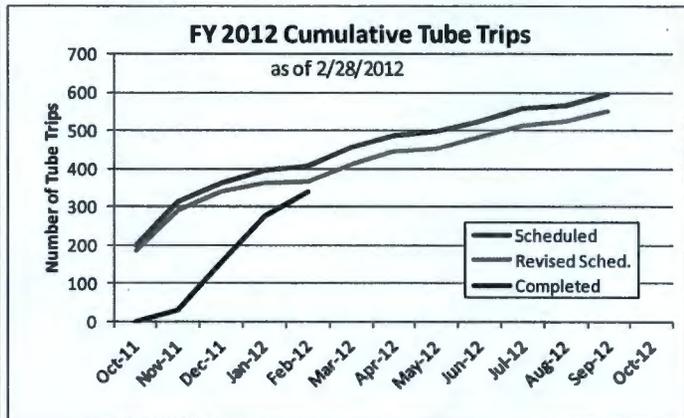
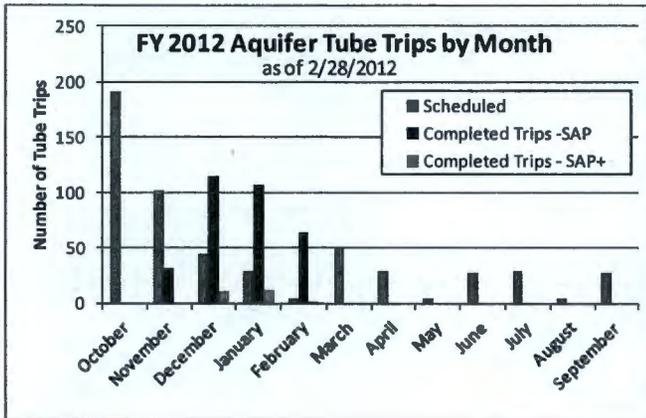
Adjourn

Attachment 1

**100/300 Areas Unit Managers Meeting
March 8, 2012**

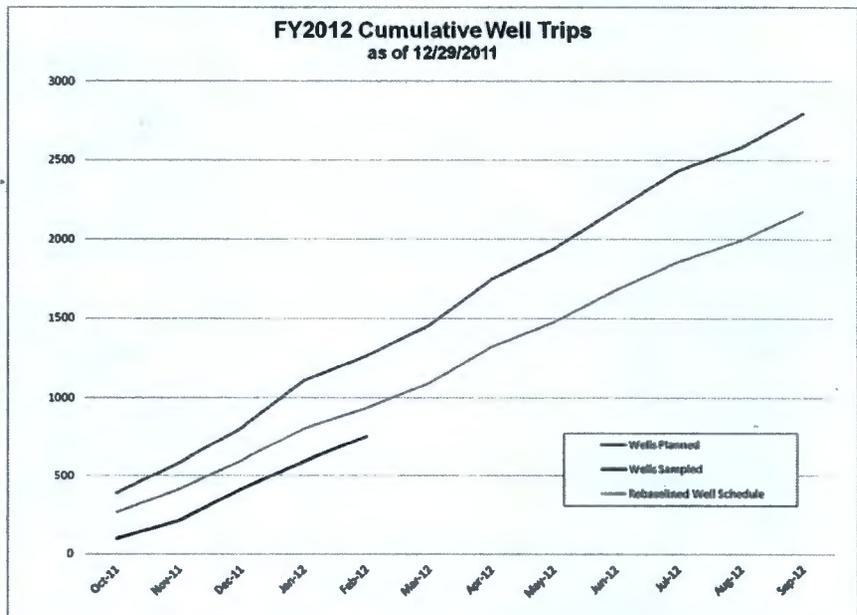
General information on Aquifer Tube Sampling

Aquifer tube samplers have made up most of the backlog. A total of 340 sampling trips were completed successfully between October 1 2011 and February 28, 2012. The graph on the left shows numbers of individual aquifer tubes scheduled and sampled in each month. The graph on the right shows the total number of aquifer tube sampling trips (some tubes are sampled multiple times in a year). Some tube sampling trips have been cancelled (e.g., missed monthly samples; plugged tubes needing maintenance before attempting next quarter). The green line on the graph on the right shows the revised schedule.



General information on Groundwater Sampling

Both the well sampling and aquifer tube sampling cumulative charts include a “revised” or “re-baseline” trend that reflects the removal of some samples from the schedule, either through cancellation of extra samples or samples that it would not be practical to attempt until next year. The sampling organization is working to resolve the backlog, and sampling is beginning to recover, since WSCF issues were resolved and drilling is complete. CHPRC is continues to evaluate methods to enhance the recovery.



100-FR-3 Groundwater Operable Unit – Bert Day / Mary Hartman

(M-015-64-T01, 12/17/2011, Submit CERCLA RI/FS Report and Proposed Plan for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units for groundwater and soil.)

Schedule Status – Behind schedule. The new planned delivery date for the 100-FIU Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

- CERCLA Process Implementation:
 - RI/FS report development continues. The team held the monthly status workshop with EPA on February 23, 2012. The workshop discussed current document status, draft modeling results, and alternative updates. The next status/workshop is planned for March 22nd.

**100/300 Areas Unit Managers Meeting
March 8, 2012**

- **Monitoring and Reporting**
 - All data from the comprehensive sampling event in November and December have been loaded into HEIS. Concentrations are consistent with previously established trends. Three wells are scheduled for semiannual sampling (199-F5-48 and 199-F5-56, near F Reactor; and 199-F5-55 near 116-F-14 Retention Basin) and are scheduled for sampling in April.

100-HR-3 Groundwater Operable Unit – Bert Day / John Smoot

(M-15-70-T01, 11/24/2011, Submit feasibility study report and proposed plan for the 100-HR-1, 100-HR-2, 100-HR-3, 100-DR-1 and 100-DR-2 operable units for groundwater and soil.)

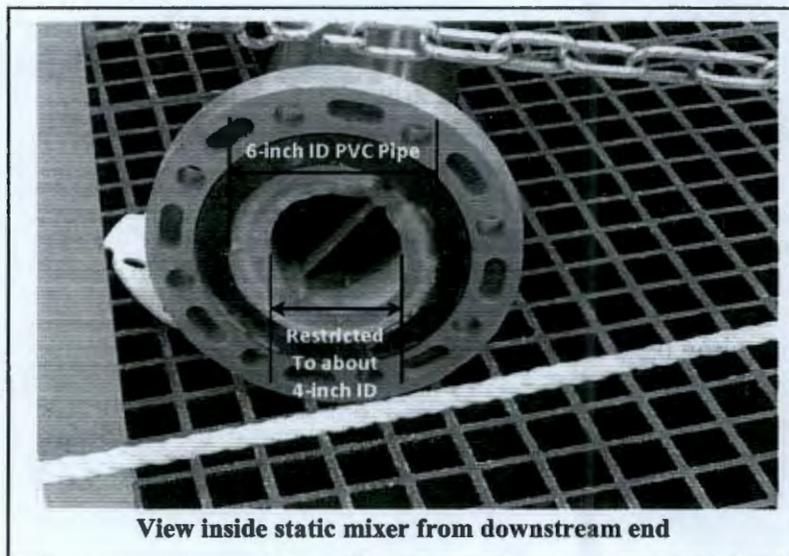
Schedule Status – Behind schedule. The new planned delivery date for the 100-D/H Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

- **CERCLA Process Implementation:**
 - Soil screening values and PRGs for groundwater and surface water protection based on 1,000 years at both 70:30 and 100:0 contaminant distribution calculations are final. The team is incorporating these new values into the evaluation process. The RI and historic LFI data have been gathered and the RI/FS evaluation updates are nearly complete. The team continues to incorporate RL comments on the RI/FS report as well as the responses to applicable EPA 100-K comments.

- **Remedial Actions:**

- DX system was down on February 22/23 for corrective maintenance on the caustic lines/mixer. The photo provided shows buildup inside the mixer on the downstream end. The buildup material was sampled and sent for lab analysis to assist in determining the cause. At this time, we are operating at our lower pH range. The cause is being evaluated. Both DX and HX pump and treat system are now operating normally. February 1 through 29, 2012 performance:

- The systems treated 39 million gallons.
- The system removed 50 kg of hexavalent chromium



100-NR-2 Groundwater Operable Unit – Marty Doornbos / Deb Alexander

(M-015-62-T01, 9/17/2012, Submit a Feasibility Study [FS] Report and Proposed Plan [PP] for the 100-NR-1 and 100-NR-2 Operable Units including groundwater and soil. The FS Report and PP will evaluate the permeable reactive barrier technology and other alternatives (petroleum remediation) and will identify a preferred alternative in accordance with CERCLA requirements.)

Schedule Status – Behind schedule. The new planned delivery date for the 100-D/H Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

**100/300 Areas Unit Managers Meeting
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- RI/FS Activities
 - Work continues on preparation of the RI/FS report.
 - Sampling of the new RI/FS wells has begun, with all eight new wells expected to be sampled within the next two months (March/April). Two of the eight have been sampled as of February 28, 2012.

- Performance Monitoring - Apatite Permeable Reactive Barrier (PRB)
 - Next monitoring event will occur in the April/May timeframe during high river stage and will include the 300 m [984 ft] treated portion of the apatite PRB.
 - Sampling will include 12 monitoring wells and 8 aquifer tubes:
 - 199-N-96A, 199-N-347, 199-N-348, 199-N-349, 199-N-123, 199-N-146, 199-N-122, 199-N-147, 199-N-350, 199-N-351, 199-N-352, and 199-N-353.
 - 116mArray-1A, 116mArray-2A, 116mArray-3A, 116mArray-4A, NVP2-116.0m, 116mArray-6A, C7881 (replacement for 116mArray-7A), and 116mArray-8A.

- RCRA Monitoring – 1324-N
 - A TOC exceedance occurred at 199-N-165 in September 2011. The well was resampled in November and still showed an exceedance in TOC. Evaluating the source for the TOC exceedance is underway, since it is not a constituent that was known to have been disposed of to this RCRA unit.
 - Sampling of the five RCRA wells (199-N-165, 199-N-71, 199-N-72, 199-N-73, and 199-N-74) for the unit has been scheduled for March. In addition, two 100-K wells (199-K-151 and 199-K-152) have also been scheduled for March. An expanded analyte list will be performed on these wells to include: Field parameters (pH, specific conductance, temperature, and dissolved oxygen), Metals (filtered and unfiltered), Anions, VOCs, PAHs, Total coliform, TPH-Diesel and Gasoline, and Alkalinity.

100-KR-4 Groundwater Operable Unit – Bert Day / Chuck Miller

- CERCLA Process Implementation:
 - Soil screening values and PRGs for groundwater and surface water protection based on 1,000 years at both 70:30 and 100:0 contaminant distribution calculations are final. The team is finalizing incorporation into the evaluation process. The RI and historic LFI data have been incorporated into the RI/FS evaluations. Author connectivity review of all chapters was completed on 2/23. CHPRC senior review initiated on 2/24; chapters 1—3 comment discussions completed on 2/29. Global issues continue to be addressed.
 - RL agreed with EPA's request on 2/23 to extend the 30 day comment response review by two weeks (extending to 2/27).

- Remedial Actions:
 - Cultural Resource Monitoring: The February monthly monitoring of the KR-4 Pump and Treat system was conducted February 17, 2012. This month's participants included Leah Aleck and Dana Miller (Yakama Nation), Joseph Selatsee (Wanapum), and Josiah Pinkham and Lynn Pinkham (Nez Perce Tribe). No evidence of off road driving was identified. A request was made to remove the tumble weeds that are growing on the well pad for well# 199-K-194; we are implementing this request.
 - KR-4, KX, and KW pump and treat systems are operating normally. The KW system continues operating on the SIR-700 resin. One KX train is offline and has partial loading of the SIR-700 resin in anticipation of SIR-700 conversion. This partial loading will be re-evaluated. February 1 through 29, 2012 performance:

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- The systems treated 31 million gallons.
- The system removed 4.2 kg of hexavalent chromium
- **Modifications & Expansions**
 - **ResinTech SIR-700 Test:**
 - KW P&T test continues to operate well with SIR-700 resin. The KW test has demonstrated that 64 ft³ of SIR-700 per vessel with 3 vessels per train performs better than Dowex 21K (80 ft³ per vessel with 4 vessels per train). The KW P&T is currently injecting into the aquifer with a pH range between pH 6 to 6.1. The aquifer pH within the KW treatment area is around 7.5. The test will continue for a few more months while the report evaluations are being finalized and approval reached for permanent replacement of Dowex 21K. The Test Plan is being updated to reflect this duration change.
 - A TPA change notice will follow the finalization of the test report to document the ability to use SIR-700 and/or Dowex 21 within the 100-KR-4 OU treatment facilities. A presentation will be given to EPA to provide the results and conclusions of the test prior to issuing the TPA change notice.
 - Efforts continue at KX and KR4 P&Ts in anticipation of SIR-700 conversion. Additional optimization concepts are being considered to increase capacity at these systems.

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- Issues and Conditions Observed
 - Well 199-K-36: The well is back in service. Sampling is currently being scheduled.



100-BC-5 Groundwater Operable Unit – Bert Day/ Mary Hartman

(M-015-68-T01, 11/30/2011, Submit CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units for groundwater and soil.)

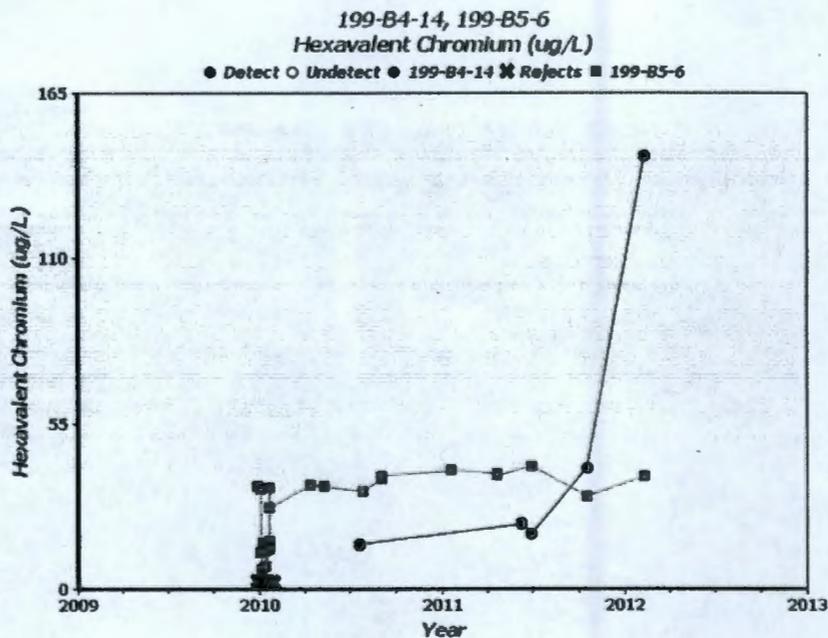
Schedule Status – Behind schedule. The new planned delivery date for the 100-BC Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

- CERCLA Process Implementation:
 - RI/FS report development continues. The team held the monthly status workshop with EPA on February 23, 2012. The workshop discussed current document status, draft modeling results, and alternative updates. The anticipated preferred remedy includes Cr(VI) pump and treat near the river. The path forward for waste sites near the reactor is still being addressed. The next status/workshop is planned for March 22nd.
- Monitoring and Reporting
 - As reported last month, the comprehensive annual sampling event that was scheduled for January 2012, was delayed because of scheduling constraints. All wells were sampled in February. Eight wells are currently scheduled for quarterly sampling (next in April). Most of these are new RI wells required one year of quarterly sampling. This was completed for all wells by February. After the February data are received, we will make recommendations for sample frequency changes.
 - The Cr(VI) concentration in well 199-B4-14, the shallow well downgradient of 100-C-7, increased sharply to 144 $\mu\text{g/L}$ in a sample collected February 10, 2012 (see graph). This followed a modest increase last October (40 $\mu\text{g/L}$). The adjacent, deeper well (199-B5-6)

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showed no increase. Total chromium results have not yet been received from the lab to confirm this result.

- It seems likely that the Cr(VI) increase is related to the source remediation at 100-C-7. If so, then the calculated groundwater velocity (0.01 to 0.04 meter per day) may be underestimated. Well 199-B4-14 is screened in the Hanford formation. The wells are located nearly 300 meters from the WIDS waste site boundaries, the excavation footprint extends closer to the wells. Both wells 199-B4-14 and 199-B5-6 are scheduled for sampling in April. Increased sample frequency to monthly at both wells with the objective to monitor trends in this well during and for some time following remedial actions.



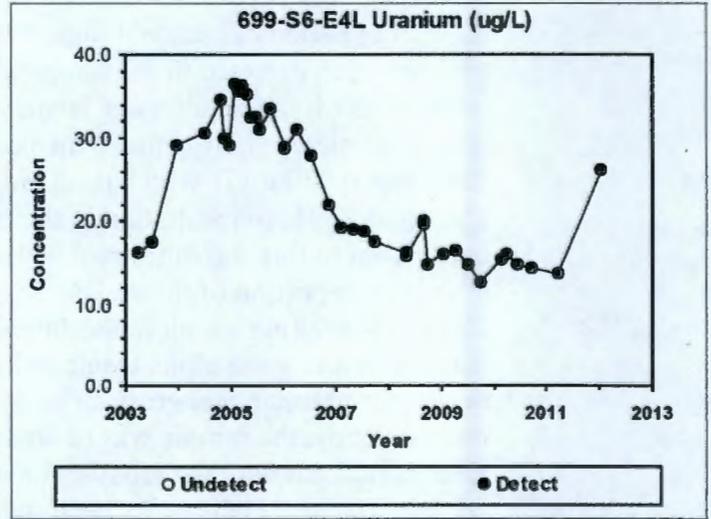
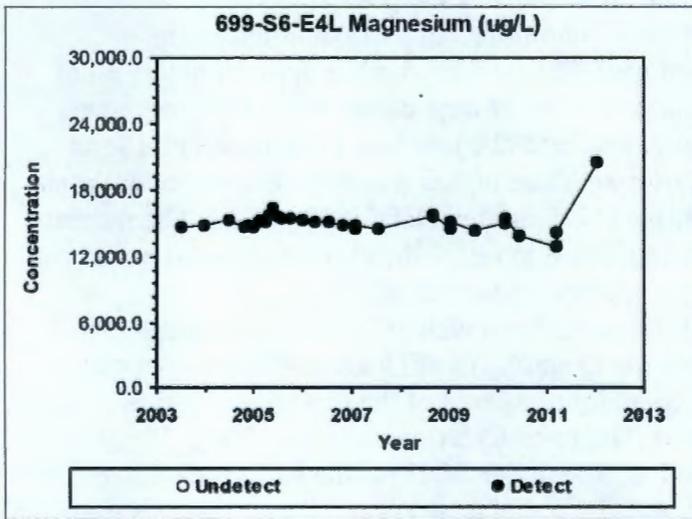
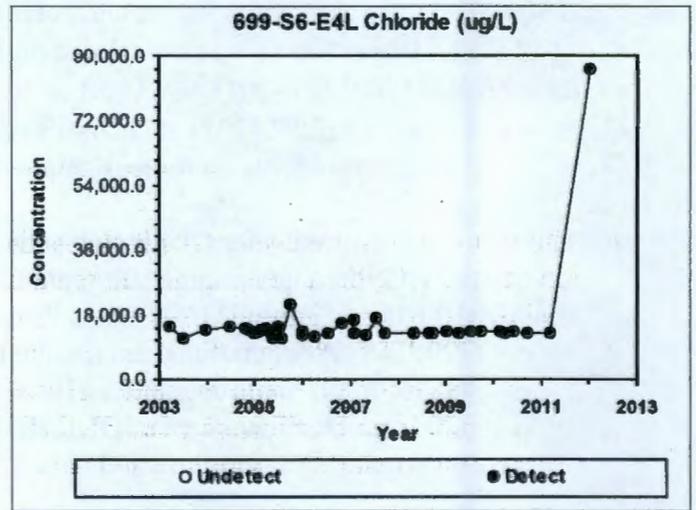
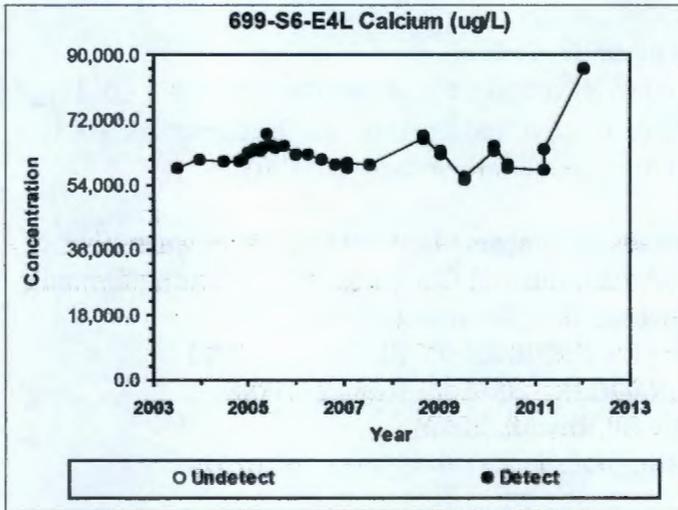
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300-FF-5 Groundwater Operable Unit – Marty Doornbos/Virginia Rohay

M-015-72-T01 (due December 31, 2011) “Submit CERCLA RI/FS Report and Proposed Plan for the 300-FF-2 and 300-FF-5 Operable Units for groundwater and soil.”

- M-015-72-T01 milestone was completed on December 27, 2011.
- RI/FS report (DOE/RL-2011-99) Draft A delivered to EPA and Ecology on December 27, 2011.
- Proposed Plan (DOE/RL-2011-47) Draft A delivered to EPA and Ecology on December 27, 2011.
 - Agency comments on these documents were received on February 13, 2012.
- The 300-FF-5 Groundwater OU includes the groundwater impacted by releases from waste sites associated with three geographic subregions: 300 Area Industrial Complex, 618-11 Burial Ground, and 618-10 Burial Ground/316-4 Cribs. Principal controlling documents are:
 - 300-FF-5 OU operations and maintenance plan (DOE-RL-95-73, Rev. 1, 2002)
 - 300-FF-5 OU sampling and analysis plan (DOE/RL-2002-11, Rev. 2, 2008)
 - 300 Area RI/FS work plan (DOE/RL-2009-30, Rev. 0, 2010)
 - 300 Area RI/FS sampling and analysis plan (DOE/RL-2009-45, Rev. 0, 2010).
- 300 Area Industrial Complex —
 - As requested during the last UMM, the following information is provided regarding the uranium concentrations in groundwater in June 2011: Unusually high uranium concentrations were noted at numerous 300 Area wells in samples collected in June 2011 during the period of seasonal high water table conditions. Of particular note is the concentration detected in the sample from well 399-1-17A, which is approximately 30 m south of the 300 Area Process Trenches and 20 m southwest of the 300-15 process sewer spur that conveyed effluents to the process trenches. The uranium concentration in June 2011 was 4,030 µg/L, which is an order of magnitude higher than previous concentrations. The gross alpha concentration in this sample also was elevated (1,800 pCi/L). The increase in uranium in this and other area wells is attributed to remobilization of uranium remaining in the lower portion of the vadose zone by the elevated water table.
 - The initial uranium result in the June 2011 sample from well 399-1-17A was inconsistent with the initial gross alpha result and with the Department of Health (DOH) analytical results for uranium and gross alpha in a co-sample. As part of the evaluation of this inconsistency, the sample was re-analyzed. The re-analyzed uranium result (4,030 µg/L) is more consistent with the gross alpha result and with the DOH results and appears to be correct. The same laboratory performed both the initial analysis and the re-analysis for uranium. The reason for the discrepancy between the initial analysis and re-analysis is currently not understood; the laboratory does not have an explanation.
- 618-11 Burial Ground — The tritium concentrations in samples collected in December are consistent with historical trends and expectations.
- 618-10 Burial Ground/316-4 Cribs — Groundwater data from January 2012 at well 699-S6-E4L near the 618-10 burial ground show increasing uranium, along with soil fixative constituents calcium, magnesium, and chloride (Figure “Trends-E4L_618-10BG-020912.pdf”). These data may indicate impacts from excavation activities that began in March 2011 at some of the trenches in the burial ground. When a similar situation arose at the 618-7 burial ground several years ago, chromium also increased immediately, presumably due to the chloride corroding the stainless steel screen. So far, chromium has not increased at this well.

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Trend Plots for Well 699-S6-E4L at the 618-10 Burial Ground.

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Wells sampled in February 2012

| Summary of Wells Sampled in the River Corridor Areas During February 2012 | | | | | | |
|---|-----------|-----------|-------------|-----------------------------|----------------------------|-----------|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| 1-3 Feb 12 | | | | 199-H4-81 | | 399-4-14 |
| | | | | 199-D8-98 | | 399-4-9 |
| | | | | 199-D8-97 | | 399-3-33 |
| | | | | 199-D8-96 | | 399-3-10 |
| | | | | 199-D8-95 | | 399-2-1 |
| | | | | 199-D8-90 | | 399-2-32 |
| | | | | 199-H4-82 | | 399-1-57 |
| | | | | 199-D8-91 | | 399-1-54 |
| | | | | 199-D5-104 | | 399-1-55 |
| | | | | 199-D5-101 | | 399-1-56 |
| | | | | 199-D4-99 | | 399-1-58 |
| | | | | 199-D4-98 | | 399-8-1 |
| | | | | 199-D4-97 | | 399-8-5A |
| | | | | 199-D5-130 | | 399-1-21A |
| | | | | 199-D8-69 | | 399-1-2 |
| | | | | | | 399-1-23 |
| 6-10 Feb 12 | 199-B4-1 | 199-K-173 | | 199-D2-11 (unsuccessful) | | 399-3-38 |
| | 199-B3-47 | | 199-D5-13 | | 399-1-64 | |
| | 199-B5-2 | | 199-D5-34 | | 399-1-62 | |
| | 199-B4-8 | | 199-D5-98 | | 699-48-50 | |
| | 199-B3-51 | | 199-D5-99 | | 299-E25-20 | |
| | 199-B3-1 | | 199-D5-119 | | 399-1-63 (unsuccessful) | |
| | 199-B3-46 | | 199-D8-70 | | | |
| | 199-B2-15 | | 299-E33-338 | | | |
| | 199-B2-14 | | 199-D5-38 | | | |
| | 199-B2-16 | | 199-D5-36 | | | |
| | 199-B2-13 | | 199-D4-14 | | | |
| | 199-B5-5 | | 299-E33-340 | | | |
| | 199-B5-1 | | 199-D4-62 | | | |
| | 199-B5-6 | | 199-D4-19 | | | |
| | 199-B4-14 | | 199-D4-23 | | | |
| | | | 199-D4-22 | | | |
| | | | 199-D5-123 | | | |
| | | | 199-D5-43 | | | |
| | | | 199-D5-122 | | | |
| | | | 199-D5-121 | | | |
| | 199-D5-16 | | | | | |

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| Summary of Wells Sampled in the River Corridor Areas During February 2012 | | | | | | |
|---|--|-----------|-------|--|-------|---|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| | | | | 199-D5-14 199-D5-15 199-D5-126 199-D8-5 | | |
| 13-17 Feb 12 | 199-B5-8 199-B9-2 199-B4-4 199-B8-6 | 199-K-150 | | 199-D8-71 199-H4-5 199-H4-10 199-H2-1 199-H3-7 199-H3-5 199-H3-3 199-H4-45 199-H4-13 199-H4-11 199-H3-9 199-H4-16 199-H4-48 199-H1-7 (unsuccessful) 199-H6-3 (unsuccessful) 199-D8-4 199-H4-46 199-H4-49 199-D5-37 199-H4-12A 199-H4-65 199-H3-2A 199-H4-6 | | 399-1-18B 399-1-18A 399-1-10A 399-1-10B 399-1-16A 399-1-16B 399-1-17A 699-12-2C 699-13-0A 699-12-4D 699-S41-E12 399-1-17B 399-1-59 399-4-15 399-3-21 399-3-20 399-3-22 399-3-18 399-2-5 |

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| Summary of Wells Sampled in the River Corridor Areas During February 2012 | | | | | | |
|---|-----------|-------|-----------|------------|-------|----------|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| 20-24 Feb 12 | 199-B8-9 | | 199-N-186 | 199-H5-1A | | |
| | 199-B3-50 | | 199-N-188 | 199-H3-10 | | |
| | 699-63-90 | | | 199-H3-6 | | |
| | 699-65-83 | | | 699-94-41 | | |
| | | | | 699-94-43 | | |
| | | | | 699-93-48A | | |
| | | | | 699-95-48 | | |
| | | | | 699-98-49A | | |
| | | | | 699-95-45 | | |
| | | | | 699-98-51 | | |
| | | | | 199-D5-144 | | |
| | | | | 199-D5-40 | | |
| | | | | 699-97-51A | | |
| | | | | 699-98-46 | | |
| | | | | 699-96-43 | | |
| | | | | 699-95-51 | | |
| | | | | 699-96-52B | | |
| | | | | 699-99-44 | | |
| | | | 699-99-41 | | | |

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| Summary of Wells Sampled in the River Corridor Areas During February 2012 | | | | | | |
|---|--------|-------|-----------|-------------|-------|----------|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| 27-29 Feb 12 | | | | 199-D8-101 | | 399-4-1 |
| | | | | 699-100-43B | | 399-6-5 |
| | | | | 199-D5-92 | | 399-6-3 |
| | | | | 199-D8-88 | | 399-1-61 |
| | | | | 199-D8-89 | | 399-3-19 |
| | | | | 199-D5-39 | | |
| | | | | 199-D5-32 | | |
| | | | | 199-D7-3 | | |
| | | | | 199-D5-131 | | |
| | | | | 199-D8-98 | | |
| | | | | 199-D7-6 | | |
| | | | | 199-H1-5 | | |
| | | | | 199-H4-82 | | |
| | | | | 199-H4-81 | | |
| | | | | 199-D5-101 | | |
| | | | | 199-D8-69 | | |
| | | | | 199-D8-90 | | |
| | | | | 199-D8-91 | | |
| | | | | 199-D8-97 | | |
| | | | | 199-D8-95 | | |
| | | | | 199-D5-130 | | |
| | | | | 199-D4-97 | | |
| | | | | 199-D4-99 | | |
| | | | | 199-D4-95 | | |
| | | | | 199-D4-98 | | |
| | | | | 199-D4-96 | | |
| | | | | 199-H1-43 | | |
| | | | | 199-H1-42 | | |
| | | | | 199-H1-40 | | |
| | | | | 199-H1-38 | | |
| | | | | 199-H1-37 | | |
| | | | | 199-H1-36 | | |
| | | | | 199-H1-35 | | |
| | | | | 699-101-45 | | |
| | | | 699-97-41 | | | |
| | | | 199-H4-75 | | | |
| | | | 199-H4-4 | | | |
| | | | 199-H3-2C | | | |
| | | | 199-H4-64 | | | |
| | | | 199-H4-63 | | | |
| | | | 199-H4-70 | | | |
| | | | 199-H4-69 | | | |

**100/300 Areas Unit Managers Meeting
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| Summary of Wells Sampled in the River Corridor Areas During February 2012 | | | | | | |
|---|--------|-------|-------|------------|-------|----------|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| | | | | 199-H4-15A | | |
| | | | | 199-H1-45 | | |
| | | | | 199-D3-5 | | |
| | | | | 199-D5-120 | | |

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Aquifer Tubes Sampled in January 2012

| Summary of Aquifer Tubes Sampled in the River Corridor Areas During February 2012 | | | | | | |
|--|---------------|---|---|----------------|--------------|-----------------|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| 1-3 Feb 12 | | AT-K-4-D AT-K-4-M AT-K-4-S | N116mArray-4A N116mArray-0A N116mArray-1A 25-D | | | |
| 6-10 Feb 12 | | AT-K-5-M AT-K-5-S AT-K-5-D C6260 14-D 22-M 22-D C6257 C6258 C6259 C6261 21-S 21-M 19-M 19-D C6252 C6254 | | | | |

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| Summary of Aquifer Tubes Sampled in the River Corridor Areas During February 2012 | | | | | | |
|--|---------------|---|---|----------------|--|-----------------|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area |
| | | C6256 C6255 C6251 C6253 C6247 C6245 C6246 C6240 C6239 | | | | |
| 13-17 Feb 12 | 03-D | 23-M | C6264 C6265 C6241 26-D (Unsuccessful) C6263 C6317 C6319 C6318 C6352 C6331 C6330 C6329 | | C6380 C6378 C6368 AT-3-2-S C6371 (unsuccessful) | |
| 20-24 Feb 12 | | | | | | C6374 C6375 |

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| Summary of Aquifer Tubes Sampled in the River Corridor Areas During February 2012 | | | | | | | | | | | | |
|--|---|--------------|--------------|----------------|--------------|--|---------------|------|---------------|--|--|--|
| Week | 100-BC | 100-K | 100-N | 100-D/H | 100-F | 300 Area | | | | | | |
| 27-29 Feb 12 | <table border="1"> <tr><td>06-D</td></tr> <tr><td>06-M</td></tr> <tr><td>C6230</td></tr> </table> | 06-D | 06-M | C6230 | | <table border="1"> <tr><td>N116mArray-6A</td></tr> <tr><td>26-D</td></tr> <tr><td>N116mArray-4A</td></tr> </table> | N116mArray-6A | 26-D | N116mArray-4A | | | |
| 06-D | | | | | | | | | | | | |
| 06-M | | | | | | | | | | | | |
| C6230 | | | | | | | | | | | | |
| N116mArray-6A | | | | | | | | | | | | |
| 26-D | | | | | | | | | | | | |
| N116mArray-4A | | | | | | | | | | | | |

Attachment 2

March 8, 2012 Unit Manager's Meeting
Field Remediation Status

100-B/C

- Finished remediation efforts at 100-C-7:1 (minus west plume)
- Continued load-out activities
 - Truck and pup, 228,500 tons
 - ERDF cans, 114,300 tons
 - LDR material, 58,700 tons
- MSA continued procurement for relocation of high voltage transmission line. Awarded construction subcontract for powerline relocation
- Miscellaneous Restoration
 - Continued railroad track removal
 - Initiated debris pile cleanup

100-D

- Continued excavation, stockpiling and load-out at 100-D-30 and 100-D-50:1
- Continued load-out at 100-D-50:4 and 100-D-100
- Completed closure of 118-D-3:2 anomaly staging area, uranium capsules sent to CWC on 3/1/12

100-F

- Continued southern excavatuib at 100-F-57
- Continued final closeout activities for remaining waste sites
- Backfill/revegetation complete
- Truck and pup load-out from 100-F-57 stockpiles is scheduled to resume on March 26, 2012

100-H

- No activities being conducted at 100-H at this time

100-K

- Removed hot spot in trench N of 118-K-1
- Completed preliminary civil survey of 118-K-1
- Completed collection of additional pre-verification samples from 600-29
- Continued remediation of 128-K-2'
- Preparing for anomaly characterization/processing at 118-K-1

100-N

- Continued excavation and load-out at 100-N-28, 100-N-62, 100-N-63:2 and the Golf Ball Area and collocated waste sites (UPR-100-N-4, UPR-100-N-5, UPR-100-N-8, UPR-100-N-25, UPR-100-N-31 and 116-N-2)

618-10 Trench Remediation

- Continued load-out of soil waste to ERDF
- Continued procedure development and PSR checklist items for “in trench” bottle processing.
- Continued excavation of trench soils, and processing of drums and anomalies
- Still working to implement LEAN review improvements to process

100-IU-2/6

- Began remediation of plume at of 600-298 area # 5
- Finished remediation of 600-300 area #2
- Suspended IU work on March 8 to focus on 128-K-2

Attachment 3

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, February 28, 2012 3:56 PM
To: ^WCH Document Control
Subject: FW: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Attachments: RE REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-32.rtf

Please provide a chron number (and include the attachment). This email documents a regulatory agreement.

Thanks,

Dan Saueressig
 FR Environmental Project Lead
 Washington Closure Hanford
 521-5326



RE REQUEST FOR
 LOSURE OF ANOM..

From: Kapell, Arthur (ECY) [<mailto:akap461@ECY.WA.GOV>]
Sent: Tuesday, February 28, 2012 3:36 PM
To: Saueressig, Daniel G; Post, Thomas C
Cc: Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott); Boyd, Alicia
Subject: RE: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Dan,

I have reviewed the sample results from 118-D-3:2 within the attached document. I assume that the COPCs that were not included in the tables were not detected by laboratory analysis. Please include a statement to this effect prior to Table 1 in Folder 7.

Following removal of the uranium capsules, Ecology approves of the closing of this staging pile in agreement with Section 4.5.2 of DOE/RL-17, Revision 6.

Artie Kapell
 Nuclear Waste Program
 Washington State Department of Ecology
 (509) 372-7972
 (509) 372-7971 Fax

From: Saueressig, Daniel G [<mailto:dgsauere@wch-rcc.com>]
Sent: Thursday, February 23, 2012 9:38 AM
To: Kapell, Arthur (ECY); Post, Thomas C
Cc: Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott)
Subject: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Artie/Tom, the attached document is provided for your approval and summarizes the sample results for the anomaly staging area at 118-D-3:2. The summary documents that all sample results taken in accordance with the Ecology

approved. Verification Work Instructions are below the cleanup levels specified in the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17, Revision 6). All waste has been removed and disposed at ERDF with the exception of the uranium capsules which are scheduled to be sent to the Central Waste Complex on March 1, 2012.

I'd like to request your approval to close this area from a staging pile perspective consistent with the requirements in Section 4.5.2 of DOE/RL-96-17, Revision 6, before March 16, 2012. Once I receive your approval, I'll document the agreement at the next UMM.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 118-D-3-2 Staging Pile Closure.doc >>

From: Post, Thomas C [thomas.post@rl.gov]
Sent: Thursday, February 23, 2012 12:09 PM
To: Saueressig, Daniel G; Kapell, Arthur
Cc: Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott)
Subject: RE: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Dan,

I have reviewed your request and attached documentation. I concur for DOE with closing this staging pile per Section 4.5.2 of DOE/RL-96-17, revision 6.

Thanks for all your hard work on this issue.

Tom Post

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, February 23, 2012 9:38 AM
To: Kapell, Arthur; Post, Thomas C
Cc: Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott)
Subject: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Artie/Tom, the attached document is provided for your approval and summarizes the sample results for the anomaly staging area at 118-D-3:2. The summary documents that all sample results taken in accordance with the Ecology approved Verification Work Instructions are below the cleanup levels specified in the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17, Revision 6). All waste has been removed and disposed at ERDF with the exception of the uranium capsules which are scheduled to be sent to the Central Waste Complex on March 1, 2012.

I'd like to request your approval to close this area from a staging pile perspective consistent with the requirements in Section 4.5.2 of DOE/RL-96-17, Revision 6, before March 16, 2012. Once I receive your approval, I'll document the agreement at the next UMM.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 118-D-3-2 Staging Pile Closure.doc >>

Attachment 4

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, March 05, 2012 8:12 AM
To: ^WCH Document Control
Subject: FW: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Attachments: 118-D-3-2 Staging Pile Closure.doc

Please provide a chron number (and include the attachment). This email documents a regulatory agreement.

Thanks,

Dan Saueressig
 FR Environmental Project Lead
 Washington Closure Hanford
 521-5326

From: Saueressig, Daniel G
Sent: Thursday, March 01, 2012 12:50 PM
To: Kapell, Arthur
Cc: Post, Thomas C; Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott)
Subject: RE: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Artie, your requested change was made to the first paragraph of the attached file. The uranium drum left 100-D at approximately 11:00 am this morning for the Central Waste Complex. With that said, I'll include this email (with attachment) in the next UMM documenting your approval to close the anomaly staging area at 118-D-3:2.

Thanks,

Dan Saueressig
 FR Environmental Project Lead
 Washington Closure Hanford
 521-5326



118-D-3-2 Staging
 Pile Closure...

From: Kapell, Arthur (ECY) [<mailto:akap461@ECY.WA.GOV>]
Sent: Tuesday, February 28, 2012 3:36 PM
To: Saueressig, Daniel G; Post, Thomas C
Cc: Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott); Boyd, Alicia
Subject: RE: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Dan,

I have reviewed the sample results from 118-D-3:2 within the attached document. I assume that the COPCs that were not included in the tables were not detected by laboratory analysis. Please include a statement to this effect prior to Table 1 in Folder 7.

Following removal of the uranium capsules, Ecology approves of the closing of this staging pile in agreement with Section 4.5.2 of DOE/RL-17, Revision 6.

Artie Kapell
 Nuclear Waste Program

Washington State Department of Ecology
(509) 372-7972
(509) 372-7971 Fax

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, February 23, 2012 9:38 AM
To: Kapell, Arthur (ECY); Post, Thomas C
Cc: Landon, Roger J; Wilkinson, Stephen G; Myers, R (Scott)
Subject: REQUEST FOR CLOSURE OF ANOMALY STAGING AREA AT 118-D-3:2

Artie/Tom, the attached document is provided for your approval and summarizes the sample results for the anomaly staging area at 118-D-3:2. The summary documents that all sample results taken in accordance with the Ecology approved Verification Work Instructions are below the cleanup levels specified in the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17, Revision 6). All waste has been removed and disposed at ERDF with the exception of the uranium capsules which are scheduled to be sent to the Central Waste Complex on March 1, 2012.

I'd like to request your approval to close this area from a staging pile perspective consistent with the requirements in Section 4.5.2 of DOE/RL-96-17, Revision 6, before March 16, 2012. Once I receive your approval, I'll document the agreement at the next UMM.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 118-D-3-2 Staging Pile Closure.doc >>

118-D-3:2 Anomaly Staging Area Closure Document Outline

This package documents the closure of the 118-D-3:2 staging pile in accordance with Section 4.5.2 of the 100 Area Remedial Design Report/Remedial Action Work Plan (the RDR/RAWP, DOE/RL-96-17, Rev. 6) and the substantive requirements of 40 CFR 264.258(a) and 40 CFR 264.111, as identified in the RDR/RAWP. Furthermore, this document demonstrates that the cleanup levels specified in the RDR/RAWP have been attained for the former staging pile area, as shown in Tables 2 and 3. Contaminants of potential concern that are not included in Tables 2 and 3 were not detected by laboratory analysis.

Table 1. 118-D-3:2 Subsite Verification Sample Summary.

| Decision Unit | Sample Location | Sample Number | Northing | Easting | Sample Analysis |
|-----------------|--|---------------|----------|----------|--|
| Excavation | EX-1 | J1N3N3 | 151131.4 | 574087.7 | ICP metals ^a , mercury, hexavalent chromium, VOA, SVOA, GEA, nickel-63, carbon-14, strontium-90, isotopic plutonium, isotopic uranium, tritium ^b , anions ^c , nitrate/nitrite |
| | EX -2 | J1N3N4 | 151131.4 | 574098.2 | |
| | EX -3 | J1N3N5 | 151131.4 | 574108.8 | |
| | EX -4 | J1N3N6 | 151131.4 | 574119.3 | |
| | EX -5 | J1N3N7 | 151140.5 | 574093.0 | |
| | EX -6 | J1N3N8 | 151140.5 | 574103.5 | |
| | EX -7 | J1N3N9 | 151140.5 | 574114.0 | |
| | EX -8 | J1N3P0 | 151149.6 | 574087.7 | |
| | EX -9 | J1N3P1 | 151149.6 | 574098.2 | |
| | EX -10 | J1N3P2 | 151167.8 | 574087.7 | |
| | EX -11 | J1N3P3 | 151167.8 | 574108.8 | |
| | EX -12 | J1N3P4 | 151176.9 | 574114.0 | |
| | EX -Duplicate ^d (excavation) | J1N3P5 | 151131.4 | 574098.2 | |
| | EX -Split ^d (excavation) | J1MM91 | 151131.4 | 574098.2 | |
| Focused Samples | FS-1 | J1N3P8 | 151144.0 | 574085.0 | |
| | FS-2 | J1N3P9 | 151144.0 | 574083.0 | |
| | FS-3 | J1N3R0 | 151143.0 | 574083.0 | |
| | FS-4 | J1N3R1 | 151151.8 | 574101.3 | |
| | FS-5 | J1N3R2 | 151144.9 | 574098.2 | |
| | FS-6 | J1N3R3 | 151134.1 | 574093.5 | |
| NA | Equipment. blank | J1N3P6 | NA | NA | ICP metals ^a , mercury, SVOA, VOA |
| NA | Trip blanks ^e | J1N3P7 | NA | NA | VOA |

^a The expanded list of ICP metals included aluminum, antimony, arsenic, barium, beryllium, calcium, chromium (total), cobalt, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, selenium, silicon, silver, sodium, vanadium, and zinc in the analytical results package.

^b The portion of the sample for tritium analysis was collected at a depth of 0.15 m (6 in.) below the excavation surface per Tri-Party Agreement Change Notice TPA-CN-177 (dated August 21, 2007).

^c The expanded list of IC anions was performed to include bromide, fluoride, chlorine, nitrate, phosphate, nitrite, and sulfate in the analytical results package.

^d The duplicate soil sample location was at the discretion of the project analytical lead.

^e Trip blanks were collected for each day of sampling.

GEA = gamma energy analysis

IC = ion chromatography

ICP = inductively coupled plasma

NA = not applicable

SVOA = semivolatle organic compounds

TBD = to be determined

VOA = volatile organic analysis

Figure 1. 118-D-3:2 Subsite Verification Sample Design.

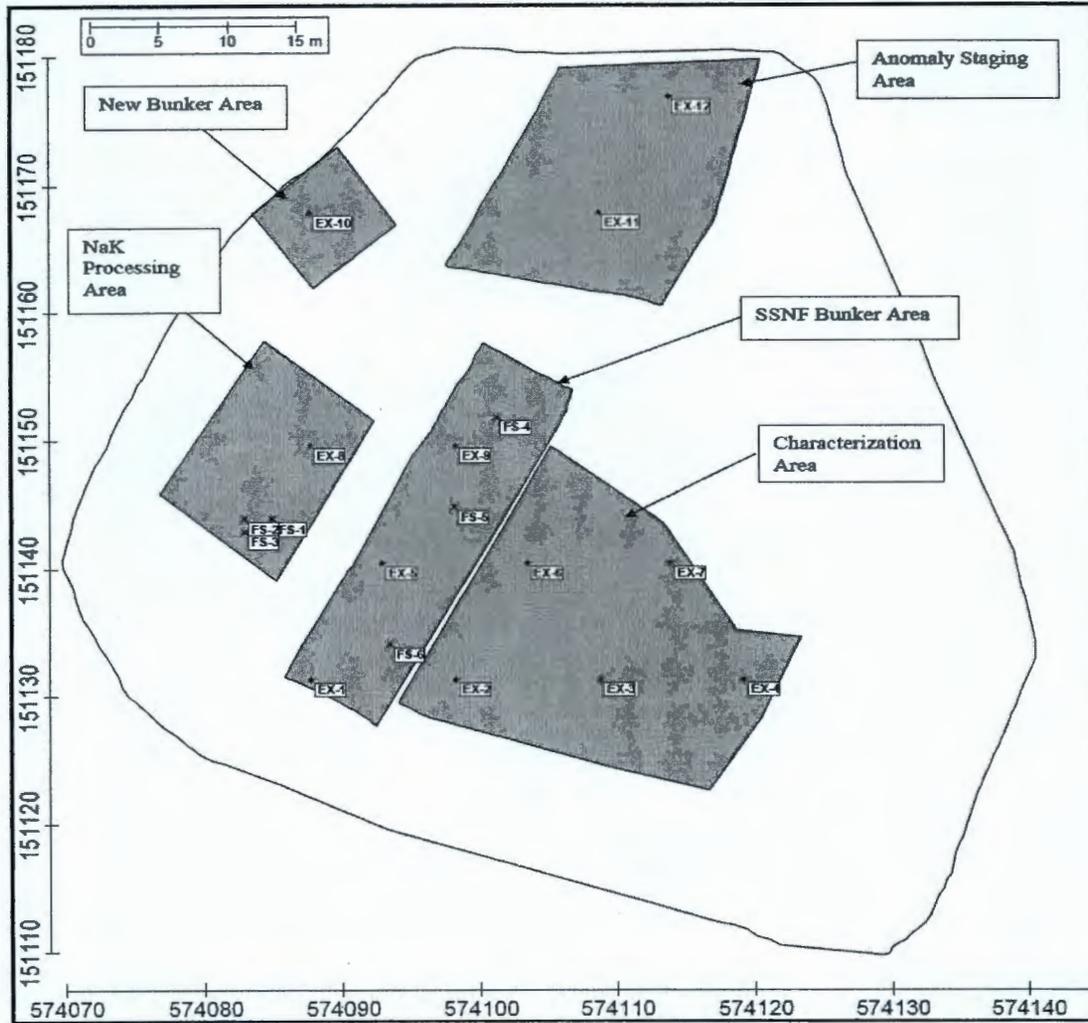


Table 2. Comparison of Statistical Contaminant Concentrations to Action Levels for the 118-D-3:2 Subsite Excavation Verification Sampling. (2 Pages)

| COPC | Statistical or Maximum Result ^b (pCi/g) | Site Lookup Values ^a (pCi/g) | | | Does the Result Exceed Lookup Values? | Does the Result Pass RESRAD Modeling? |
|-----------------|--|---|-------------------------------------|-------------------------------|---------------------------------------|---------------------------------------|
| | | Shallow Zone Lookup Value | Groundwater Protection Lookup Value | River Protection Lookup Value | | |
| Tritium | 0.0627 | 459 | 12.6 | 25.2 | No | -- |
| Uranium-233/234 | 0.196 (<BG) | 1.1 ^c | 1.1 ^c | 1.1 ^c | No | -- |
| Uranium-238 | 0.298 (<BG) | 1.1 ^c | 1.1 ^c | 1.1 ^c | No | -- |

Table 2. Comparison of Statistical Contaminant Concentrations to Action Levels for the 118-D-3:2 Subsite Excavation Verification Sampling. (2 Pages)

| COPC | Statistical or Maximum Result ^b (mg/kg) | Remedial Action Goals ^a (mg/kg) | | | Does the Result Exceed RAGs? | Does the Result Pass RESRAD Modeling? |
|---------------------------------|--|--|---|---|------------------------------|---------------------------------------|
| | | Direct Exposure | Soil Cleanup Level for Groundwater Protection | Soil Cleanup Level for River Protection | | |
| Arsenic | 3.1 (<BG) | 20 ^c | 20 ^c | 20 ^c | No | -- |
| Barium | 71.1 (<BG) | 5,600 | 200 | 400 | No | -- |
| Beryllium | 0.094 (<BG) | 10.4 ^d | 1.51 ^c | 1.51 ^c | No | -- |
| Boron | 1.7 ^e | 7,200 | 320 | -- ^f | No | -- |
| Cadmium | 0.13 (<BG) | 13.9 ^d | 0.81 ^c | 0.81 ^c | No | -- |
| Chromium (total) | 12.4 (<BG) | 80,000 | 18.5 ^c | 18.5 ^c | No | -- |
| Cobalt | 6.8 (<BG) | 24 | 15.7 ^c | -- ^f | No | -- |
| Copper | 15.2 (<BG) | 2,960 | 59.2 | 22.0 ^c | No | -- |
| Lead | 4.2 (<BG) | 353 | 10.2 ^c | 10.2 ^c | No | -- |
| Manganese | 292 (<BG) | 3,760 | 512 ^c | -- ^f | No | -- |
| Nickel | 12.4 (<BG) | 1,600 | 19.1 ^c | 27.4 | No | -- |
| Vanadium | 41.0 (<BG) | 560 | 85.1 ^c | -- ^f | No | -- |
| Zinc | 36.7 (<BG) | 24,000 | 480 | 67.8 ^c | No | -- |
| Chloride | 147 | -- ^f | 25,000 | -- ^f | No | -- |
| Fluoride | 1.1 (<BG) | 4,800 | 96 | 400 | No | -- |
| Nitrogen in Nitrate | 1.8 (<BG) | 128,000 | 1,000 | 2,000 | No | -- |
| Nitrogen in Nitrate and Nitrite | 1.2 (<BG) | 128,000 | 1,000 | 2,000 | No | -- |
| Sulfate | 3.1 (<BG) | -- ^f | 25,000 | -- ^f | No | -- |
| Dimethyl phthalate | 0.616 ^f | 80,000 | 1,600 | 14,400 | No | -- |
| Methylene chloride | 0.0014 ^f | 480 | 0.5 | 0.94 | No | -- |

^a Lookup values and RAGs obtained from the Remedial Design Report/Remedial Action Work Plan for the 100 Area (RDR/RAWP) (DOE-RL 2009), unless otherwise noted.

^b Maximum or 95% UCL result, depending on data censorship, as described in the 118-D-3:2 Subsite Cleanup Verification 95% UCL Calculations, 0100D-CA-V0444.

^c Where cleanup levels are less than background, cleanup levels default to background per WAC 173-340-700[4][d] (Ecology 1996). The arsenic cleanup level of 20 mg/kg has been agreed to by the Tri-Party Agreement Project Managers as discussed in Section 2.1.2.1 of the RDR/RAWP (DOE 2009)

^d Carcinogenic cleanup level calculated based on the inhalation exposure pathway (WAC 173-340-750[3]) (Ecology 1996).

^e No Hanford Site-specific or Washington State background value available.

^f No parameters (bioconcentration factors or ambient water quality criteria values) are available from the Ecology Cleanup Levels and Risk Calculations database or other databases to calculate cleanup levels (WAC 173-340-730(3)(a)(iii), 1996 [Method B for surface waters]).

-- = not applicable

BG = background

TPH = total petroleum hydrocarbon

COPC = contaminant of potential concern

Ecology = Washington State Department of Ecology

RAG = remedial action goal

RESRAD = Residual Radioactivity (dose assessment model)

UCL = upper confidence limit

WAC = Washington Administrative Code

Table 3. Comparison of Maximum Contaminant Concentrations to Action Levels for the 118-D-3:2 Subsite Focused Verification Sampling.

| COPC | Maximum Result ^b (pCi/g) | Site Lookup Values ^a (pCi/g) | | | Does the Result Exceed Lookup Values? | Does the Result Pass RESRAD Modeling? |
|---------------------------------|-------------------------------------|--|---|---|---------------------------------------|---------------------------------------|
| | | Shallow Zone Lookup Value | Groundwater Protection Lookup Value | River Protection Lookup Value | | |
| Uranium-233/234 | 0.195 (<BG) | 1.1 ^c | 1.1 ^c | 1.1 ^c | No | -- |
| Uranium-238 | 0.176 (<BG) | 1.1 ^c | 1.1 ^c | 1.1 ^c | No | -- |
| COPC | Maximum Result ^b (mg/kg) | Remedial Action Goals ^a (mg/kg) | | | Does the Result Exceed RAGs? | Does the Result Pass RESRAD Modeling? |
| | | Direct Exposure | Soil Cleanup Level for Groundwater Protection | Soil Cleanup Level for River Protection | | |
| Antimony | 0.52 (<BG) | 32 | 5 ^c | 5 ^c | No | -- |
| Arsenic | 3.9 (<BG) | 20 ^c | 20 ^c | 20 ^c | No | -- |
| Barium | 73.7 (<BG) | 5,600 | 200 | 400 | No | -- |
| Beryllium | 0.10 (<BG) | 10.4 ^d | 1.51 ^c | 1.51 ^c | No | -- |
| Boron | 1.3 ^c | 7,200 | 320 | -- ^f | No | -- |
| Cadmium | 0.14 (<BG) | 13.9 ^d | 0.81 ^c | 0.81 ^c | No | -- |
| Chromium (total) | 13.3 (<BG) | 80,000 | 18.5 ^c | 18.5 ^c | No | -- |
| Cobalt | 6.9 (<BG) | 24 | 15.7 ^c | -- ^f | No | -- |
| Copper | 15.0 (<BG) | 2,960 | 59.2 | 22.0 ^c | No | -- |
| Lead | 4.1 (<BG) | 353 | 10.2 ^c | 10.2 ^c | No | -- |
| Manganese | 299 (<BG) | 3,760 | 512 ^c | -- ^f | No | -- |
| Nickel | 12.1 (<BG) | 1,600 | 19.1 ^c | 27.4 | No | -- |
| Vanadium | 40.3 (<BG) | 560 | 85.1 ^c | -- ^f | No | -- |
| Zinc | 37.6 (<BG) | 24,000 | 480 | 67.8 ^c | No | -- |
| Chloride | 30.3 (<BG) | -- ^f | 25,000 | -- ^f | No | -- |
| Fluoride | 2.3 (<BG) | 4,800 | 96 | 400 | No | -- |
| Nitrogen in Nitrate | 1.2 (<BG) | 128,000 | 1,000 | 2,000 | No | -- |
| Nitrogen in Nitrate and Nitrite | 1.1 (<BG) | 128,000 | 1,000 | 2,000 | No | -- |
| Sulfate | 4.5 (<BG) | -- ^f | 25,000 | -- ^f | No | -- |
| Dimethyl phthalate | 0.550 ^e | 80,000 | 1,600 | 14,400 | No | -- |

^a Lookup values and RAGs obtained from the *Remedial Design Report/Remedial Action Work Plan for the 100 Area (RDR/RAWP)* (DOE-RL 2009), unless otherwise noted.

^b Maximum or 95% UCL result, depending on data censorship, as described in the *118-D-3:1 Waste Site Cleanup Verification 95% UCL Calculations* (Appendix C).

^c Where cleanup levels are less than background, cleanup levels default to background per WAC 173-340-700[4][d] (Ecology 1996). The arsenic cleanup level of 20 mg/kg has been agreed to by the Tri-Party Agreement Project Managers as discussed in Section 2.1.2.1 of the RDR/RAWP (DOE 2009)

^d Carcinogenic cleanup level calculated based on the inhalation exposure pathway (WAC 173-340-750[3]) (Ecology 1996).

^e No Hanford Site-specific or Washington State background value available.

^f No parameters (bioconcentration factors or ambient water quality criteria values) are available from the Ecology Cleanup Levels and Risk Calculations database or other databases to calculate cleanup levels (WAC 173-340-730(3)(a)(iii), 1996 [Method B for surface waters]).

-- = not applicable

BG = background

COPC = contaminant of potential concern

Ecology = Washington State Department of Ecology

RAG = remedial action goal

RESRAD = Residual Radioactivity (dose assessment model)

UCL = upper confidence limit

WAC = Washington Administrative Code

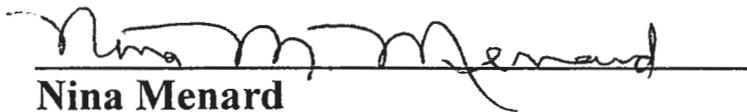
Attachment 5

**Approval to Treat the 100-D-30 Chromium Contaminated Soil
in Accordance with the "TREATMENT PLAN AND
PROTOCOL FOR TREATMENT OF CHROMIUM-
CONTAMINATED SOILS, WCH-284, Rev. 2"**

This approval applies to approximately 500 m³ of chromium contaminated soil from the 100-D-30 waste site as described under waste profile WP100D30001. The waste matrix consists of chromium contaminated soil. Sample number J1N4K2 had a high of 7.1 mg/L TCLP chromium for the soil from the 100-D-30 waste site.

The waste is similar to the material treated in "*TREATMENT PLAN AND PROTOCOL FOR TREATMENT OF CHROMIUM-CONTAMINATED SOILS, WCH-284, Rev. 2*".

This approval allows treatment of this waste (and any future waste generated under profile WP100D30001 during tier 3 excavation of 100-D-30 that remains under the 36 mg/L limit) using Mixture 3, described in Table 1, *Bench-Scale Test Results for the 100-D-56 and 100-C-7* of the treatment plan which limits the TCLP chromium to 36 mg/L.



Nina Menard

State of Washington Department of Ecology

3/5/12
Date



Tom Post

U.S. Department of Energy

3/11/12
Date

DISTRIBUTION

U.S. Department of Energy Richland Operations Office

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| S.E. Parnell | N3-30 |
| D. G. Saueressig | N3-30 |
| S. G. Wilkinson | N3-30 |
| J. A. Winterhalder | N3-30 |

| | |
|------------------|-------|
| Document Control | H4-11 |
|------------------|-------|

Attachment 6

100 Area D4/ISS Status

March 8, 2012

100-N

181-N River Pumphouse: Continuing with above grade demolition. Approximately 35% complete.

181-NE HGP River Pumphouse: Continuing with above grade demolition. Approximately 20% complete.

1908-NE HGP Outfall: No significant demolition activities conducted to date.

1908-N Reactor Outfall: Above grade demolition scheduled to begin within next two weeks.

182-N High Lift Pumphouse: Continuing with below grade demolition. Approximately 35% complete. Debris loadout is approximately 40% complete.

105-N Fuel Storage Basin (FSB): Demolition and load out of north and south FSB floors complete. Demolition is currently concentrating on the cask pits and lift station with completion scheduled for the end of this month. DOH indicated the results from the second set of air samples, collected during FSB demolition on February 2, 2012, were within normal background levels. To date, radiological controls in place have kept dose levels below ALARA goals.

105-NE Fission Products Trap (FPT): Above and below grade demolition complete. Load out scheduled for completion by the end of this month.

105-N/109-N Reactor/Heat Exchanger Buildings (ISS): Subcontract awarded to complete above and below grade ISS work on west side of 105-N. Work scheduled to begin early April.

107-N Basin Recirculating/Cooling Facility: Below grade demolition scheduled to begin before next UMM.

1303-N Spacer Silos: Demolition scheduled to begin before next UMM.

Other Facilities Demolished (since last UMM): 1143-N Carpenter/Paint Shop, MO-403 (1119-N) Mobile Office, 1112-N Document Control Building slab, 1112-NA Microwave Tower slab and tower bases (4), MO-765 Mobile Office, and two metal containers (HS-007 and HS-008) that had been used for storing chemical products.

Other Areas

400 Area: All buildings scheduled for demolition in 400 Area complete. Demobilization from 400 Area scheduled for completion within next two weeks.

Attachment 7

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-001

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: Steam Trestle

Building Number: 1802-N

WIDS Sites Associated or Adjacent:

100-N-37 (irrelevant due to nature of hazard and distance from 1802-N), 100-N-61 (irrelevant because pipelines were located underground and 1802-N was an elevated facility), 100-N-84 (colon sites: 1, 3, 4, 5, 6, and 7) (irrelevant because pipelines were located underground and 1802-N was an elevated facility), and 120-N-3 (by way of 100-N-84:7) (irrelevant because pathway to 1802-N is through an underground pipeline and 1802-N is an elevated facility)

Other:

C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: N/A

Site Walkdown: N/A

IH Characterization Report: N/A

Radiological Survey: Global Positioning Environmental Radiological Surveyor (GPERS) surveys ESR-FRM-08-016 / 0072 / 0156 / 0165

IHC/FHC Document: 100-N Ancillary Facilities Preliminary Hazard Categorization CCN 095435

WIDS/SIS: SIS data sheets for 1802N, 100-N-37, 100-N-61, 100-N-84 (colon sites: 1, 3, 4, 5, 6, and 7), and 120-N-3

PDSR: Post Demolition Summary Report for the 1802-N Pipe Trestle CCN 142547

Facility Inspection: Facility Inspection Summary Report CCN 113678

Waste Characterization Checklist: N/A

Summary Report: N/A

Other:

Radiological Survey Records: RSR-IFSM2-06-0003 / 0005 / 0114

Radiological Survey Records: RSR-100N-08-1694 / 1836 (Downposting)

Radiological Control Survey Requirements Technical Assessment: TA-05-SR-12, Rev. 5

Work Package 2005 10 10 003: Demolition of the 1802-N Pipe Trestle

Work Package 100 07 03 07 001: Complete 1802-N Demolition, Loadout, and Transition under IWCP

Work Package 100 06 11 21 001 E: 100 Area Sampling and Characterization

D. HAZARDOUS SUBSTANCES

Check all that apply:

None Asbestos containing material Lead PCBs/PCB Articles Oils/Greases

Chemicals List: Arsenic, Barium, Cadmium, Chromium, Mercury (CCN 113678-pg. 1)

Radiological Contamination Mercury/Mercury Devices

Additional hazardous substances are associated with waste sites 100-N-61, 100-N-84 (colon sites: 1, 3, 4, 5, Other: 6, and 7), and 120-N-3. Such substances are not listed here because the corresponding waste sites have no connection to 1802-N, as specified in part B of this document.

References/Comments:

Lead and PCBs were associated primarily with the paint on the structure, which does not constitute a threat for release to the environment during demolition or facility operations. Additionally, the material remained adhered to the structure for subsequent disposal at the ERDF.

Asbestos: CCN 113678 pg. 1 & Work Package 2005 10 10 003 Job Hazard Analysis pg. 3

Lead: CCN 113678 pg. 1 & Work Package 2005 10 10 003 Job Hazard Analysis pg. 3

PCBs/PCB Articles: CCN 113678 pg. 1

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-001

Radiological Contamination: CCN 113678 pg. 1, TA-05-SR-12, Rev. 5, and Work Package 2005 10 10 003 Job Hazard Analysis pg. 4

Liquids: Yes No

If yes, describe source and nature of liquids:

Were the hazardous substances removed from the facility prior to demolition? Yes No

As verified by what documentation:

Asbestos was removed from the facility in 2004, prior to commencement of demolition in 2006 (WP 2005 10 10 003-WCH Task Instruction pg. 1; CCN 142547 pg. 1). None of the other hazardous substances appear to have been removed prior to demolition.

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? Yes No N/A

References/Comments:

There was a potential for hazardous substances to be introduced into the soils during facility operations, however, there was no information found that would suggest that this ever occurred. There was no potential for hazardous substances to be introduced into the soils during demolition. Lead and PCBs were associated primarily with the paint on the structure, which does not constitute a threat for release to the environment during demolition or facility operations. Additionally, the material remained adhered to the structure for subsequent disposal at the ERDF.

List any hazardous materials left in the building for demolition:

The paint on the structural steel contained lead, the paint on the pipe trestle contained PCBs, and the piping and concrete drip pads of the facility contained radiological contamination (CCN 113678 pgs. 4-6; WP 100 06 11 21 001 E-WCH Task Instruction pg. 3).

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

No. While various hazardous substances are associated with the facility, no stains were present during the facility inspection (CCN 113678-pg. 5). This indicates that no hazardous substances were introduced into environmental media during facility operations. Downposting radiological survey records indicate that radiological contamination levels were below detection levels (RSR-100N-08-1694 / 1836). Final radiological surveys indicate that residual radiological contamination did not exceed twice the background level (ESR-FRM-08-016 / 0072 / 0156 / 0165).

Comments:

The structural steel, piping, pipe trestle, and concrete drip pads were removed during demolition (CCN 142547 pg. 5). These components contained the majority of hazardous substances, yet the substances were bound to the paint which did not constitute a threat for release to the environment during demolition. Since no anomalies were discovered, no associated WIDS sites developed during demolition of the facility, and no stains were documented, all hazardous substances are believed to have been removed during the demolition process (see citations for part G of this document).

E. FIELD OBSERVATIONS

Visual Inspection

Were any stained soils/anomalies discovered during or after demolition of the facility? Yes No

References/Comments:

CCN 142547 pg. 5 and CCN 113678 pg. 5

Were samples taken of the stained soils/anomalies? Yes No N/A

References/Comments:

Since neither stained soils nor anomalies were discovered, this question is not applicable.

Do results of the samples indicate that chemical contamination exists? Yes No N/A

References/Comments:

Since neither stained soils nor anomalies were discovered, this question is not applicable.

Is the area potentially a discovery site? Yes No

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References/Comments:
Neither stained soils nor anomalies were discovered.

Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination? Yes No

References/Comments:

RSR-100N-08-1694, RSR-100N-08-1836, ESR-FRM-08-016, ESR-FRM-08-0072, ESR-FRM-08-0156, and ESR-FRM-08-0165

Were samples taken of the radiologically contaminated soils? Yes No N/A

References/Comments:

Since radiological contamination was not identified through radiological surveys, this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:

Radiological contamination was not identified through radiological surveys.

Were the contaminated materials removed? Yes No N/A

References/Comments:

Since radiological contamination was not identified through radiological surveys, this question is not applicable.

F. WIDS SITES

Were there any WIDS sites affected by D4 activities? Yes No

If yes, list the WIDS sites:

Four transformers just south of 109-N were affected by D4 activities. The transformers were drained and removed (WP 2005 10 10 003-WCH Task Instruction pg. 8). The oil removed did not contain PCBs (WP 100 07 03 07 001-WCH Task Instruction pg. 6). These transformers were not classified as WIDS sites.

Were the WIDS site(s) completely removed? Yes No

References/Comments:

No WIDS sites were affected by D4 activities, so this question is not applicable.

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? Yes No

References/Comments:

No WIDS sites were affected by D4 activities, so this question is not applicable.

G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

What are the potential contaminants of concern for the remaining below-grade soil?

None SVOC VOC Metals TPH Rad PCBs

Other (Specify): _____

Comments:

See part D of this document for the reasoning for this determination.

Summary of in-process soil sampling requirements:

N/A

Constituents detected / concentrations / rationale

N/A

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Sample Collection Summary
N/A

H. NOTES / ADDITIONAL INFORMATION

Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards?

Yes No

Based on the above information it was determined that sampling: will will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

Information Reviewer Signature

David Warren

Printed Name

David Warren

Date

2-8-12

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

DOE Signature

RF Guercia

Printed Name

RF Guercia

Date

1/26/12

Ecology Signature

Nina M. Menard

Printed Name

NINA M. MENARD

Date

2/9/12

Attachment 8

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-003

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: Chemical Unloading Facility Building Number: 108-N

WIDS Sites Associated or Adjacent:

Associated (taken from CCN 143099 pgs. 4-5):

100-N-8 (rejected), 100-N-27 (rejected), 100-N-40 (rejected), 100-N-58 (closed out), 120-N-1 (irrelevant due to distance from 108-N), 120-N-2 (intersects 120-N-5), 120-N-3 (intersects 120-N-5), 120-N-5 (rejected), 120-N-6 (rejected), and 120-N-7

Adjacent (determined using GIS Site Tool)

100-N-10 (within 120-N-5, rejected); 100-N-11 (within 120-N-5, rejected); 100-N-61; 100-N-84:1 (intersects 120-N-5); 100-N-84 colon sites 3, 4, 5, and 6 (each connects directly to 108-N); 100-N-103:1; UPR-100-N-15 (rejected); UPR-100-N-33 (rejected)

Other:

Note: A waste site with a rejected status, as well as a waste site whose only association with a facility is through a rejected waste site, are of no concern in determining the need to sample at that facility. Accordingly, the only waste sites that should be considered in determining the need for sampling at this facility are: 100-N-58, 120-N-7, 100-N-61, 100-N-84 (colon sites 1, 3, 4, 5, and 6), and 100-N-103:1.

C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: N/A

Site Walkdown: N/A

IH Characterization Report: N/A

Global Positioning Environmental Radiological Surveyor (GPERS)
Radiological Survey: surveys ESR-FRM-08-0011, ESR-FRM-08-0012, ESR-FRM-08-0170, and ESR-FRM-09-0005

IHC/FHC Document: N/A

RCC Stewardship Information System Facility
WIDS/SIS: Summary Reports: 108-N, 100-N-27, 120-N-5, and 120-N-7

PDSR: Post-Demolition Summary Report for the 108-N Chemical Unloading Facility and the 120-N-5 Transfer Line Trench and Neutralization Pit CCN 143099

Facility Inspection: N/A

Waste Characterization Checklist: N/A

Summary Report: Characterization Summary Report for the 163-N Demineralized Water Treatment Plant and the 108N Chemical Unloading Facility CCN 122914

Other:

Radiological Survey Record: RSR-100N-09-0045 (Downposting)
100-N Area Technical Baseline Report: WHC-SD-EN-TI-251
Asbestos Summary Report, 108-N Chemical Unloading Facility: CCN 125292
Pre-Existing Conditions Survey of Hanford Site Facilities: BHI-00221
Waste Site Reclassification Form for 120-N-5: CCN 523335
Discovery Site Evaluation Checklist for 120-N-7
Sample Results on 108-N Neutralization Pit Water: CCN 131359
Hazardous Material Removal from 100N Buildings: CCN 137407
Work Package 2005 09 20 005: Master 100 Area Building and Structure Demolition
Work Package 2005 09 20 003 G: 100 Area TSI Asbestos Abatement
Work Package 2005 09 20 002 AG: 100 Area Hazardous Material Removal

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Work Package 2005 09 20 002 P: 100 Area Hazardous Material Removal
Work Package 2005 09 20 001 D: 100 Area Characterization and Sampling
Work Package 100 07 12 03 002: 108N Demolition / Phase 2
Photographs of 108-N, No Time Stamps: CCN 143099 Figures 1-5

D. HAZARDOUS SUBSTANCES

Check all that apply:

None
 Asbestos containing material
 Lead
 PCBs/PCB Articles
 Oils/Greases
 Chemicals
 List: Sulfuric Acid & Sodium Hydroxide (WHC-SD-EN-TI-251 Figure 2-12). Of the materials present within the facility, these had the greatest potential for release.

Radiological Contamination
 Mercury/Mercury Devices

Other: Anions, Hexavalent Chromium, Total Chromium, Metals, PAHs, PCBs, and SVOCs (100-N Area Waste Site Summary, Rev. 19 for waste sites 100-N-61, 100-N-84 (colon sites 1, 3, 4, 5, and 6), and 100-N-103:1)

References/Comments:

Asbestos: CCN 125292 Appendices B & D

Lead: BHI-00221 pg. 3-54

Work Package 2005 09 20 002 AG WCH Task Instruction pgs. 3 & 4

Oils/Greases: Work Package 2005 09 20 002 P WCH Task Instruction pg. 3

Radiological Contamination: Work Package 2005 09 20 001 D WCH Task Instruction pg. 2

Mercury/Mercury Devices: Work Package 2005 09 20 002 P WCH Task Instruction pg. 3

Liquids: Yes No

If yes, describe source and nature of liquids:

This facility contained storage tanks and transfer pumps for sulfuric acid and sodium hydroxide (WHC-SD-EN-TI-251 Figure 2-12).

Were the hazardous substances removed from the facility prior to demolition? Yes No

As verified by what documentation:

While it is unclear if all hazardous substances were removed from the facility prior to demolition, verification of removal exists for several sources of hazardous substances. All friable asbestos was removed during abatement (Work Package 2005 09 20 003 G WCH Task Instruction pg. 5). All door actuators, which typically contained oils (sometimes PCB oils), were removed (Work Package 2005 09 20 002 WCH Task Instruction pg. 7). All incandescent and fluorescent light bulbs, which typically contained various metals including mercury, were removed (Work Package 2005 09 20 002 WCH Task Instruction pg. 7).

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? Yes No N/A

References/Comments:

Multiple spills and stains are documented for this facility. Consult the remaining text from part D of this form for references.

List any hazardous materials left in the building for demolition:

It is unclear if any hazardous materials were left in the building for demolition. Lead-Acid batteries are identified as an expected hazardous material for this facility (Work Package 2005 09 20 002 AG WCH Task Instruction pgs. 3 & 4). A note within this work package indicates that items listed in the task instructions had been completed (WCH Task Instruction pg. 1). Accordingly, the battery removal might have occurred as this activity was addressed in the WCH Task Instruction on pages 2-4. However, the Hazmat Removal Checklist for this work package doesn't indicate that the batteries were removed (WCH Task Instruction pg. 7).

At least one indication exists for the usage of lead piping at this facility (BHI-00221 pg. 3-54). While the removal of lead piping was not addressed in either of the corresponding hazardous material removal work packages, it is not an item of environmental concern as the EPA and Washington State Department of Ecology approved a demolition plan for another 100-N ancillary facility that allowed lead piping to remain in the facility during demolition (CCN 137407).

Oils/greases and mercury are identified as expected hazardous materials for this facility (Work Package 2005 09 20 002 P WCH Task Instruction pg. 3). However, both materials are marked "N/A" on the corresponding Hazmat Removal

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Checklist (Work Package 2005 09 20 002 P WCH Task Instruction pg. 7). This suggests that these materials were either not encountered as expected, or were encountered but not removed under this work package.

It is unknown if the acid and caustic tanks and pumps were removed prior to demolition. Such information could possibly be addressed in the above grade demolition work package, as referenced in the Post-Demolition Summary Report for this facility (CCN 143099 pg. 5). The referenced work package is generic, but states that it shall be applied to an individual building through an applicability attachment (Work Package 2005 09 20 005 WCH Task Instruction pg. 1). Applicability attachment S is listed as that which corresponds to the 108-N facility (Work Package 2005 09 20 005 WCH Task Instruction pg. 7a). However, no such attachment is available through Universal Content Manager nor the Document And Records Tracking System. Furthermore, none of the other work packages pertaining to 108-N appear to address either the presence or removal of these chemical sources prior to demolition.

The facility's steam system was radiologically contaminated (Work Package 2005 09 20 001 D WCH Task Instruction pg. 2). It was not determined during review of the facility if the steam system was removed prior to demolition. However, radiological contamination is not an item of concern for the facility because none was detected in the downposting survey nor the GPERs surveys (RSR-100N-09-0045, ESR-FRM-08-0011, ESR-FRM-08-0012, ESR-FRM-08-0170, and ESR-FRM-09-0005).

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

Historical records indicate that the facility can be determined to be free of asbestos and radiological contamination, as explained in the previous section. However, the potential for the presence of the remaining hazardous substances listed above cannot be ruled out, as explained in the previous section. This includes lead, oils/greases, sulfuric acid, sodium hydroxide, and mercury.

Further indication of the potential for the presence of these substances can be found in various historical records. One document identifies a possible sodium hydroxide spill, standing liquid of unknown origin, and major historical acid spills (BHI-00221 pg. 3-54). Multiple stains were discovered in the soil and concrete of the facility (CCN 143099 pg. 5, Work Package 2005 09 20 001 D WCH Task Instruction pgs. 3 & 4). At least some of these stains were the result of sulfuric acid spills (Work Package 2005 09 20 001 D WCH Task Instruction pg. 4).

Comments:

The 120-N-7 french drain appears to have been part of the same sulfuric acid off-loading process that stocked the acid tanks at the 108-N facility (CCN 143099 pg. 5). The remediation of 120-N-7 was deemed necessary as a pH of less than 1 was present in the surrounding soil (Work Package 100 07 12 03 002 WCH Task Instruction pg. 2). Accordingly, the highly acidic conditions at 120-N-7 would be indicative of potential conditions of elevated acidity at 108-N.

It should be noted that waste site 120-N-5 was reclassified as rejected despite transporting the chemicals stored at the 108-N facility. This determination was based on the belief that any acid or caustic spills would have been neutralized by the soil and environmental conditions (CCN 523335). This was not the belief that was acted upon for 120-N-7. One difference between the two sites is the collection of chemicals that each likely received. Process knowledge of 120-N-5 indicates that it received both sulfuric acid and sodium hydroxide, while process knowledge of 120-N-7 suggests that it received only sulfuric acid (WHC-SD-EN-TI-251 Figure 2-12, and the Discovery Site Evaluation Checklist for 120-N-7). Of the two waste sites, the 108-N facility was most like 120-N-5 as it contained both sulfuric acid and sodium hydroxide.

The 108-N facility and adjoining 120-N-5 Transfer Pipes and Neutralization Pit were entirely removed along with all corresponding concrete pads during demolition (CCN 143099 pg. 6).

E. FIELD OBSERVATIONS

Visual Inspection

Were any stained soils/anomalies discovered during or after demolition of the facility? Yes No

References/Comments:

Several Anomalies were discovered throughout the demolition process. One of which was at 120-N-7 (french drain), already designated a waste site, which will be removed and closed out by FR at a later date. Additionally, another french drain was discovered during the demolition process. The french drain was determined to contain Asbestos Containing Material (ACM) and stained soils, both of which were sampled for purposes of waste disposal and subsequently removed (CCN 143099 pgs. 2 & 5).

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Were samples taken of the stained soils/anomalies? Yes No N/A

References/Comments:

Samples were taken at the extent of the 120-N-7 excavation and the french drain (see above and CCN 143099 pgs. 2 & 5).

Do results of the samples indicate that chemical contamination exists? Yes No N/A

References/Comments:

Samples taken from waste site 120-N-7 indicate several constituents above the Remedial Action Goals (RAGS). This site is already within FR scope.

Is the area potentially a discovery site? Yes No

References/Comments:

Samples taken from this location correlate with waste site 120-N-7, which is already within FR scope.

Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination? Yes No

References/Comments:

RSR-100N-09-0045, ESR-FRM-08-0011, ESR-FRM-08-0012, ESR-FRM-08-0170, and ESR-FRM-09-0005

Were samples taken of the radiologically contaminated soils? Yes No N/A

References/Comments:

Since radiological contamination was not identified, this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:

No radiological contamination was identified.

Were the contaminated materials removed? Yes No N/A

References/Comments:

Since radiological contamination was not identified, this question is not applicable.

F. WIDS SITES

Were there any WIDS sites affected by D4 activities? Yes No

If yes, list the WIDS sites:

120-N-7 was partially removed by D4. The french drain was dug to the extent of depth allowed by the excavation permit. Staining was still evident at this depth and samples indicated several constituents above the RAGS. The extent of excavation was delineated with straw and backfilled (CCN 143099 pg. 5).

Were the WIDS site(s) completely removed? Yes No

References/Comments:

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? Yes No

References/Comments:

120-N-7 is already within the scope of FR.

G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

What are the potential contaminants of concern for the remaining below-grade soil?

None SVOC VOC Metals TPH Rad PCBs

Other (Specify): Sulfates, Anions

Comments:

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Summary of in-process soil sampling requirements:

Constituents detected / concentrations / rationale
Consult Sample Collection Summary below.

Sample Collection Summary

Asbestos: CCN 125292 Appendix B (for sample numbers) and Appendix D (for sample results)
 French Drain Soil: Sample (HEIS) Numbers J11K52, J11K53, J11K54, and J11KD9 (CCN 143099 Attachment 2)
 French Drain Insulation: Sample (HEIS) Numbers J11KD7 and J11KD8 (CCN 143099 Attachment 2)
 Chemical Transfer Line Soil: Sample (HEIS) Number J16383 (CCN 143099 Attachment 2)
 Chemical Transfer Line Water: Sample (HEIS) Numbers J16385 and J16386 (CCN 143099 Attachment 2)
 120-N-7: Sample (HEIS) Numbers J17T54, J17T55, J17T56, and J17T57 (CCN 143099 pg. 5)
 Neutralization Vault Water: Sample (HEIS) Number J13VN7 (Work Package 2005 09 20 001 D Attachment 7.4 D)
 Neutralization Vault Sludge: Sample (HEIS) Number J13VN8 (Work Package 2005 09 20 001 D Attachment 7.4 D)
 163N Footing Concrete Stain: Sample (HEIS) Number J14BJ5 (Work Package 2005 09 20 001 D Attachment 7.4 D)
 163N Footing Soil Stain: Sample (HEIS) Number J14BJ7 (Work Package 2005 09 20 001 D Attachment 7.4 D)

H. NOTES / ADDITIONAL INFORMATION

Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards? Yes No

Based on the above information it was determined that sampling: will will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

| | | |
|---|------------------------------|----------------|
| Information Reviewer Signature <i>David Warren</i> | Printed Name David Warren | Date 2.8.12 |
|---|------------------------------|----------------|

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

| | | |
|--|--------------------------------|-----------------|
| DOE Signature <i>[Signature]</i> | Printed Name RF GUERRIA | Date 1/26/12 |
| Ecology Signature <i>Nina M. Menard</i> | Printed Name NINA M. MENARD | Date 2/9/12 |

Attachment 9

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-006

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: Sewage Lift Station

Building Number: 1706-NA

WIDS Sites Associated or Adjacent:

100-N-22, 100-N-84:3 (through intersection with 100-N-84:5), 100-N-84:5, 100-N-84:8 (through intersection with 100-N-84:5)

Other:

C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: Historical Site Assessment for the 1705N, 1705NA, 1706N, and 1706NA Facilities CCN 125286
Site Walkdown: N/A

IH Characterization Report: N/A

Radiological Survey: Global Positioning Environmental Radiological Surveyor (GPERS) survey ESR-FRM-09-0163

IHC/FHC Document: N/A

WIDS/SIS: RCC Stewardship Information System (SIS) Facility Summary Report: 1706-NA, 100-N-22

PDSR: Post-Demolition Summary Report (PDSR) for the 1706-NA Sewage Lift Station CCN 149292

Facility Inspection: N/A

Waste Characterization Checklist: N/A

Summary Report: N/A

Other:

Radiological Survey Record: RSR-100N-09-1627
 Radiological Survey Record: RSR-100SMT-02-0318
 Radiological Survey Record: RSR-IFSM-05-0374
 Asbestos Inspection Report for 1705-N, 1705-NA, 1706-N, and 1706-NA: CCN 125714
 Agreement Between DOE and Ecology-Demolition of 1706-NA Lift Station at 100-N Area: CCN 151480
 Facility Status Change Form for 1705-N, 1705-NA, and 1706-N: D4-100N-0013
 GIS Field Remediation Excavation Boundary Overlay: Attached to this Form
 Work Package 2005 09 20 001 A: 100 Area Characterization and Sampling
 Work Package 2005 09 20 002 G: 100 Area Hazardous Material Removal (For the nearby 1706-N facility)
 Work Package 2005 09 20 005 W: 100 Area Building and Structure Demolition
 Pre-Excavation Photographs of 1706-NA, No Time Stamps: (SIS Summary Report for 1706-NA pgs. 3-5)
 Post-Excavation Photographs of 1706-NA, Time-Stamped 10/27/2009 & 11/2/2009: (CCN 149292 pg. 5 & SIS Summary Report for 1706-NA pg. 6)

D. HAZARDOUS SUBSTANCES

Check all that apply:

None Asbestos containing material Lead PCBs/PCB Articles Oils/Greases

Chemicals List: _____

Radiological Contamination Mercury/Mercury Devices

Hazardous substances from associated and adjacent waste sites: anions, total chromium, hexavalent chromium, lead, mercury, nitrates/nitrites, PCBs, radiological contamination, and SVOCs (100-N Area Waste Site Summary, Rev. 19 for waste sites 100-N-22, 100-N-84:3, 100-N-84:5, and 100-N-84:8). Contaminants of concern (COCs) from the ERDF waste profile for water within the facility: gross alpha, gross beta, gamma

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

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emitters, ICP metals, IC anions, and pH (CCN 151480).

References/Comments:

N/A

Liquids: Yes No

If yes, describe source and nature of liquids:

The facility collected sewer wastes (CCN 125286 pg. 2). The facility also contained approximately 200-300 gallons of water (CCN 149292 pg. 2).

Were the hazardous substances removed from the facility prior to demolition? Yes No

As verified by what documentation:

No verification was found for the removal of any hazardous substances from the facility. However, no verification was found for the presence of hazardous substances at the facility. The Hazmat Removal Checklist for the nearby 1706-N facility indicates that all of the contained hazardous substances had either been removed or were not of environmental concern prior to demolition (Work Package 2005 09 20 002 g WCH Task Instruction pg. 3). This suggests that there was little potential for hazardous substances to be present in the facility during demolition.

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? Yes No N/A

References/Comments:

The facility was assumed either to be contaminated, or to have possessed the potential for release to the environment of hazardous material during its demolition (CCN 125286 pg. 1).

List any hazardous materials left in the building for demolition:

The potential for mud dauber nests was specifically identified for the facility (Work Package 2005 09 20 005 W WCH Task Instruction pg. 2). It should be noted that no document was found that indicated that mud dauber nests were encountered in the facility before or during demolition.

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

Multiple hazardous substances are identified as either possible or confirmed contaminants for the area in the proximity of the 1706-NA facility (CCN 125286 pgs. 2-3). However, no such confirmed contaminants are specifically identified in any reviewed document to have ever been present in the facility itself. Furthermore, the possible contaminants for this area are addressed generically, and therefore could be associated with the larger 1705-N, 1705-NA, and 1706-N facilities (CCN 125286 pgs. 2-3). No past releases or spills were identified for the facility (CCN 125286 pg. 2). There is also no history of unplanned releases from adjacent waste site 100-N-22 (D4-100N-0013 pg. 2). Furthermore, no stains were observed at the facility during a post-excavation examination (CCN 149292 pg. 2). Even the facilities closest to 1706-NA showed no sign of radiological contaminants or staining (D4-100N-0013 pg. 1).

There appears to be no potential for the presence of radiological contamination at the facility, as indicated by the lack of detectable radiation levels in the GPERs and work progress radiological surveys (ESR-FRM-09-0163, RSR-100N-09-1627, RSR-100SMT-02-0318, and RSR-IFSM-05-0374). No radiological downposting survey was identified for the facility in the PDSR (CCN 149292).

An asbestos inspection was conducted at the facility prior to its demolition (CCN 125714 pg. 1). No area of concern is specifically identified in the inspection documentation (CCN 125714 pgs. 2-4). No asbestos samples were taken at the facility (CCN 125714 Attachment 4).

Water within the facility was sampled and the results indicated that it was not suitable for dust suppression use (CCN 151480 & CCN 149292 pgs. 3-4). However, Ecology approved a plan to absorb the water with a mixture of rubble from the facility and the soils surrounding the facility (CCN 151480). Reviewed documents do not indicate that cracks were discovered in the reservoir of the facility, which implies that the water wouldn't have been able to migrate from the facility. The characterization and sampling work package does not specifically address samples or subsequent sample results for any portion of the facility (CCN 151480 & Work Package 2005 09 20 001 A WCH Task Instruction pgs. 2-4).

Comments:

The facility was completely removed and the excavation was backfilled with clean soil (CCN 149292 pg. 5).

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Determination Number
SDF-100N-008

The below grade demolition work package identified for the facility is not available in either the Universal Content Manager or the Document and Record Tracking System (CCN 149292 pg. 4).

It should be noted that the contaminants of concern related to the associated and adjacent waste sites have little potential to be located within the historical boundaries of the facility. Waste site 100-N-22 was the closest associated site to the facility (CCN 149292 pg. 4). While it had not been completely removed as of February 2010, it had not been known to have ever produced an unplanned release (CCN 149292 pg. 4 & D4-100N-0013 pg. 2). Additionally, the waste site was historically connected to multiple other facilities, any of which could have produced the contained contamination. Of the adjacent waste sites, only one, 100-N-84:5, broke the plane of the 1706-NA facility boundary. The rest of the adjacent sites are listed as adjacent only because they crossed through waste site 100-N-84:5.

The facility and its surrounding area are within the Field Remediation excavation boundary for waste site 100-N-22 (See GIS Field Remediation Excavation Boundary Overlay and FR design Drawing 0100N-DD-C0255), and any sampling of the underlying soil will be handled by the Field Remediation organization.

E. FIELD OBSERVATIONS

Visual Inspection

Were any stained soils/anomalies discovered during or after demolition of the facility? Yes No

References/Comments:
CCN 149292 pgs. 2 & 4

Were samples taken of the stained soils/anomalies? Yes No N/A

References/Comments:
Neither stained soils nor anomalies were discovered, so this question is not applicable.

Do results of the samples indicate that chemical contamination exists? Yes No N/A

References/Comments:
Neither stained soils nor anomalies were discovered, so this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:
Neither stained soils nor anomalies were discovered.

Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination? Yes No

References/Comments:
ESR-FRM-09-0163, RSR-100N-09-1627, RSR-100SMT-02-0318, and RSR-IFSM-05-0374

Were samples taken of the radiologically contaminated soils? Yes No N/A

References/Comments:
The radiological surveys did not identify radiological contamination, so this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:
The radiological surveys did not identify radiological contamination.

Were the contaminated materials removed? Yes No N/A

References/Comments:
The radiological surveys did not identify radiological contamination, so this question is not applicable.

F. WIDS SITES

Were there any WIDS sites affected by D4 activities? Yes No

If yes, list the WIDS sites:
100-N-22 (CCN 149292 pg. 4)

Were the WIDS site(s) completely removed? Yes No

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-006

References/Comments:
CCN 149292 pg. 4

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? Yes No

References/Comments:
CCN 149292 pg. 4

G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

What are the potential contaminants of concern for the remaining below-grade soil?

None SVOC VOC Metals TPH Rad PCBs

Other (Specify): _____

Comments:

Summary of in-process soil sampling requirements:

Constituents detected / concentrations / rationale
Consult Sample Collection Summary below.

Sample Collection Summary

Water in 1706-NA: Sample (HEIS) Number J17K72 (CCN 149292 pgs. 3-4)

H. NOTES / ADDITIONAL INFORMATION

Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

GIS Field Remediation Excavation Boundary Overlay

FR design Drawing 0100N-DD-C0255

I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards? Yes No

Based on the above information it was determined that sampling: will will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

Information Reviewer Signature

David Warren

Printed Name

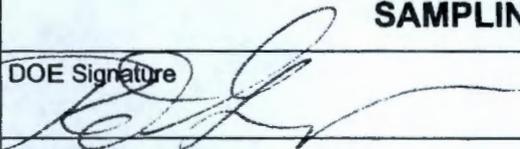
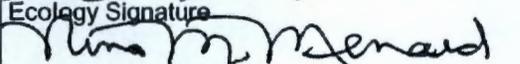
David Warren

Date

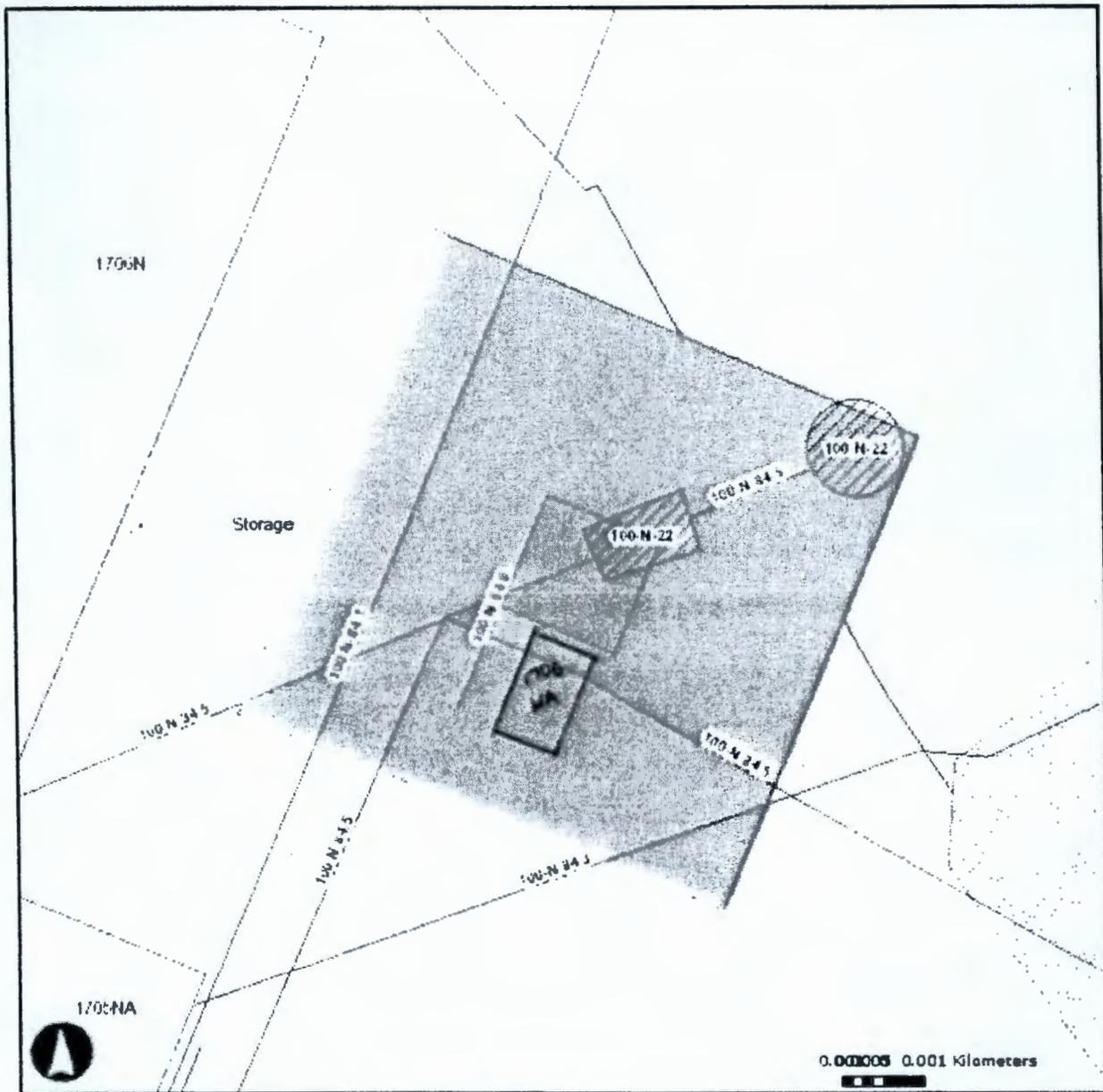
2/22/12

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

**100-N ANCILLARY FACILITIES REMOVAL ACTION
SAMPLING DETERMINATION FORM**Determination Number
SDF-100N-006

| | | |
|--|--------------------------------|-------------------|
| DOE Signature  | Printed Name R.F. GUERRA | Date 2/14/2012 |
| Ecology Signature  | Printed Name NINA M. MENARD | Date 2/23/2012 |

Map



Hydrant Names

Fire Hydrants



WasteSitePoints

- Sitecode Missing in SIS
- Accepted,
- Accepted, Closed Out

WasteSitePolys (continued)

- Accepted, Consolidated
- Accepted, Deleted From NPL
- Accepted, Interim Closed Out
- Accepted, No Action
- Accepted, Rejected
- Discovery,
- Not Accepted (Proposed),

Railroads



Roads

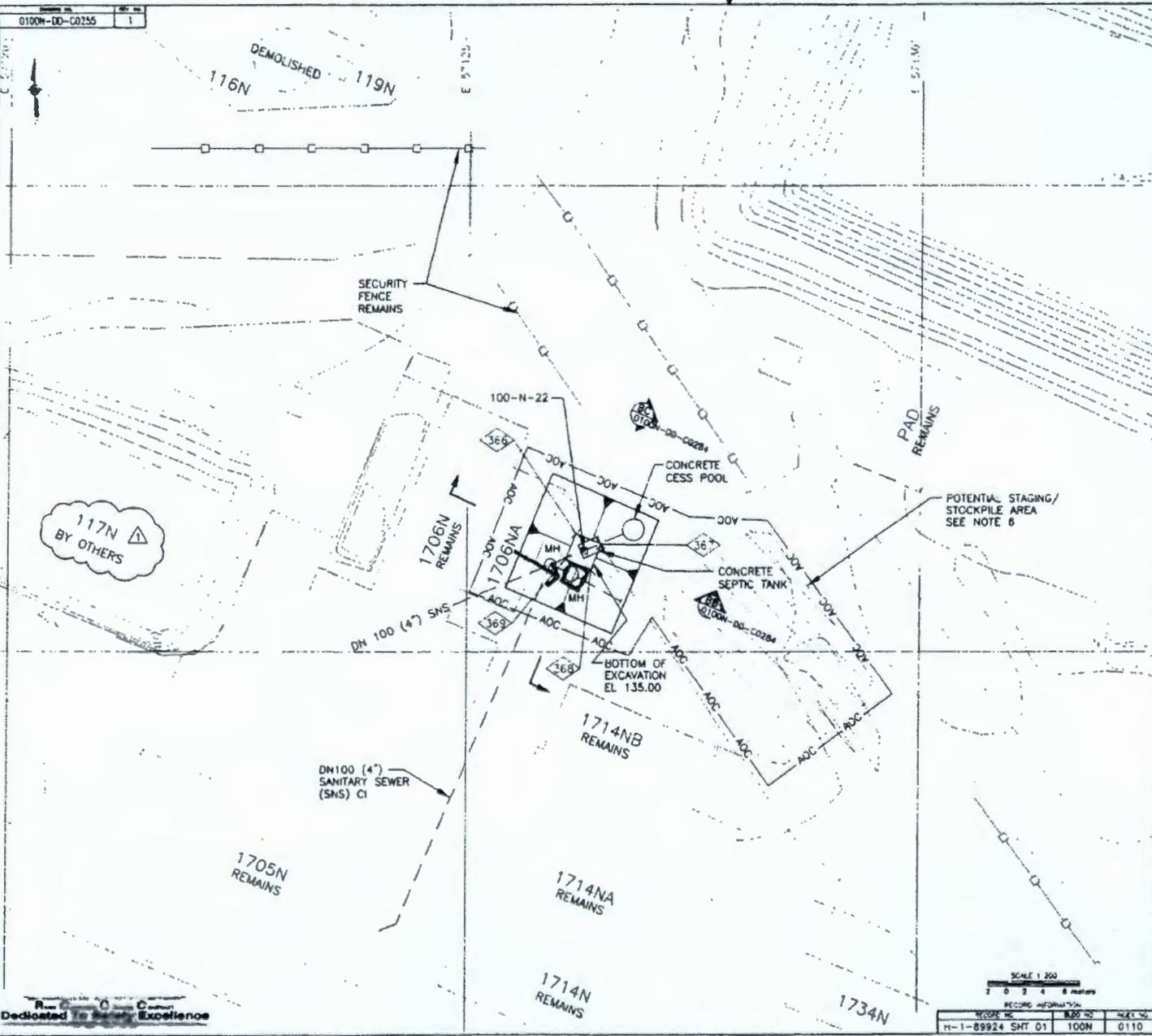


Buildings

- Unknown
- Active
- Demolished

- ▲ Accepted, Consolidated
- ▲ Accepted, Interim Closed Out
- Accepted, No Action
- Accepted, Rejected
- ▶ Discovery
- Not Accepted,
- WasteSitesLine
- Sitecode Missing in SIS
- Accepted,
- Accepted, Closed Out
- Accepted, Interim Closed Out
- Accepted, No Action
- Accepted, Rejected
- Discovery,
- Not Accepted,
- WasteSitePolys
- Sitecode Missing in SIS
- Accepted,
- Accepted, Closed Out
- Not Accepted,
- Waste Polygon Labels
- Waste Line Labels
- Stockpile(s)
- BCL
- Overburden
- Sorting Trench
- Staging Pile
- N_Build_EXC_Toe
-
- N_EXC_Toe
-
- N_EXC_Daylight
-
- N_Staging_Piles
-
- Main Roads
-
- Inactive
- Removed
- Building Labels
- MR & Stewardship Features
- MR
- S
- MR & Stewardship Labels
- HanfordWells
- AWAITING DRILLING
- CANDIDATE FOR DECOMMISSIONING
- DECOMMISSIONED-V
- DRILLING CANCELLED
- IN-USE
- CVPs
- WSRF Not Signed
- No Institutional Controls
- With Institutional Controls

0100N-DD-C0255 1



NOTES

1. SEE DRAWING 0100N-DD-G0023 FOR GENERAL ABBREVIATIONS AND SYMBOLS LIST.
2. LOCATION, GROUND SURFACE AND DIMENSIONS PROVIDED WERE TAKEN FROM HANFORD SITE RECORDS AND DRAWINGS, H-1-45007, SHEET 1 THROUGH B3, COMPOSITE UNDERGROUND LINES, ESSENTIAL DRAWING GEOPHYSICAL SITE INVESTIGATIONS G#0579926, G#0579929, G#0580014, G#0580015, G#0580016, G#0580017, G#0580019, AND G#0580044. ACTUAL LOCATIONS AND DIMENSIONS SHALL BE VERIFIED BY THE SUBCONTRACTOR. AS-BUILT CONSTRUCTION MAY VARY FROM NEAT-LINES SHOWN ON DRAWINGS.
3. ALL ELEVATIONS AND DIMENSIONS ARE IN METERS EXCEPT AS SPECIFICALLY SHOWN.
4. LIMITS OF EXCAVATION ARE SHOWN ASSUMING A 1.5 H:1.0 V CUT SLOPE. ACTUAL EXCAVATION LIMITS SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR. EXCAVATIONS SHALL COMPLY WITH ALL REQUIREMENTS OF 0100N-SF-C0643 CIVIL SPECIFICATION.
5. CONTOUR INTERVAL IS 0.5 METERS.
6. STAGING OF MATERIAL SHALL OCCUR WITHIN THE AOC, WASTE SITE BOUNDARY UNLESS DIRECTED BY THE CONTRACTOR. STAGING OF MATERIAL OUTSIDE OF THE AOC/WASTE SITE BOUNDARY, SHALL HAVE PRIOR APPROVAL IN WRITING BY THE CONTRACTOR.
7. SEE DRAWINGS NO. 0100N-DD-C0305, 0100N-DD-C0306, OR 0100N-DD-C0307 FOR WASTE SITE SURVEY CONTROL DESIGN COORDINATE TABLE.
8. REMAINS OF DEMOLISHED BUILDINGS ARE IN THE VICINITY OF REMEDIAL ACTION WASTE SITES, AND MAY CONSIST OF SUBGRADE STRUCTURES (e.g. BASEMENTS, DEMOLITION DEBRIS, SUCH REMAINS MAY BE REMOVED DURING PERFORMANCE OF WORK SCOPE AS DIRECTED BY CONTRACTOR.

DOCUMENT CONTROL

| | | | | | | | | | |
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U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

100 N AREA
100 N WASTE SITE REMEDIATION DESIGN
100-N-22 SANITARY SEWER SYSTEM CIVIL PLOT PLAN

| | | |
|-------------|--------------------|----------------|
| WCH JOB NO. | DOE CONTRACT NO. | SHEET FILENAME |
| 14635 | DE-AC06-05RL-14635 | 1NDC0255.DWG |

| | | |
|-------|----------------|----------|
| SCALE | DRAWING NO. | REV. NO. |
| 100 N | C100N-DD-C0255 | 1 |

Dedicated to Safety Excellence

SCALE 1:200
0 2 4 6 meters

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|------------------|----------|------|
| SCOPE NO. | REV. NO. | DATE |
| H-1-89924 SMT 01 | 100N | 0110 |

Attachment 10

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-008

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: Radioactive Chemical Waste Treatment Facility Building Number: 1310-N

WIDS Sites Associated or Adjacent:

- Associated (determined using GIS Site Tool):
116-N-2 (aka 1310-N), 100-N-63:2, 100-N-84:3, 100-N-84:5, 100-N-84:6, UPR-100-N-6, & UPR-100-N-25
- Adjacent (determined using GIS Site Tool):
100-N-84:2, 100-N-84:4, 100-N-84:7, 100-N-84:8, UPR-100-N-5, & UPR-100-N-38 (rejected)

Other:

The Post-Demolition Summary Report for the 1310-N Radioactive Liquid Waste Treatment Facility indicates that many of the above waste sites were associated with the facility (CCN 157088 pg. 3).

C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: N/A

Site Walkdown: N/A

IH Characterization Report: N/A

Global Positioning Environmental
Radiological Survey: Radiological Surveys (GPERS):
ESR-FRM-10-0144 / 0145

IHC/FHC Document: Initial Hazard Categorization (IHC)
Documentation Form for 1310-N:
Document No. IHC-2006-0038

WIDS/SIS: RCC Stewardship Information System (SIS)
Facility Summary Report: 1310-N (aka WIDS
116-N-2). Waste Information Data System
(WIDS) Report for 116-N-2.

PDSR: Post-Demolition Summary Report for the 1310-N
Radioactive Liquid Waste Treatment Facility: CCN
157088

Facility Inspection: N/A

Waste Characterization Checklist: N/A

Summary Report: N/A

Other:

- 100 Area D4 Project Building Completion Report: WCH-473
- Explanation of Significant Differences for the 100-NR-1 and 100-NR-2 Operable Units Interim Remedial Action Record of Decision (Relevant Portion Attached to this Form)
- GIS Site Tool Figure 1: (Attached to this Form)
- Remediation Designs: 0100-DD-C0656 / C0657
- Pre-Existing Conditions Survey of Hanford Site Facilities to be Managed by BHI, Phase II: Doc Num BHI-00221
- Photographs of 1310-N Pre-Demolition, No Time Stamps: SIS Facility Summary Report for 1310-N pgs. 4 & 6-8, BHI-00221 pg. 3-83, & CCN 157088 pg. 10
- Photograph of 1310-N Pre-Demolition, Time-Stamped 11/14/2006: SIS Facility Summary Report for 1310-N pg. 5
- Photograph of 1310-N Post-Demolition, No Time Stamp: CCN 157088 pg. 11

D. HAZARDOUS SUBSTANCES

Check all that apply:

- None
 Asbestos containing material
 Lead
 PCBs/PCB Articles
 Oils/Greases
 Chemicals List: _____
 Radiological Contamination
 Mercury/Mercury Devices
 Other: Contaminated sump, conex box with unknown contents (BHI-00221 pg. 3-83).

References/Comments:

- Asbestos: Friable asbestos piping insulation (BHI-00221 pg. 3-83)

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-008

- Lead: Lead sheets and blankets (BHI-00221 pg. 3-83)
- Radiological Contamination: Substantially elevated subgrade levels with surface contamination expected (BHI-00221 pg. 3-83)

Additional hazardous substances associated with this facility were not identified for use with this form because the area once occupied by this now-demolished facility will be closed out by the Field Remediation organization. Accordingly, the Field Remediation organization will be responsible to address all hazardous substances associated with this facility. See the "Comments" section below for details concerning the Field Remediation organization's responsibilities pertaining to the area once occupied by this facility.

Liquids: Yes No

If yes, describe source and nature of liquids:

The facility received contaminated liquid waste from the N-Reactor (CCN 157088 pg. 1, IHC-2006-0038 pg. 1, & WCH-473 pg. 3). It had a liquid storage tank with a capacity of 900,000 gallons (CCN 157088 pg. 1, IHC-2006-0038 pg. 1, & WCH-473 pg. 3).

Were the hazardous substances removed from the facility prior to demolition? Yes No

As verified by what documentation:

The facility's contaminated liquid, sediment, and water were removed by the end of the deactivation phase of D4 activities (CCN 157088 pg. 1 & IHC-2006-0038 pg. 1). All known hazardous substances were removed from the facility prior to demolition (WCH-473 pg. 15).

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? Yes No N/A

References/Comments:

No indication was found during review of the facility that suggests that a hazardous substance was introduced into the soil during demolition of the facility. This lack of indication is substantiated by the pre-demolition removal of all known hazardous substances (WCH-473 pg. 15). While there doesn't appear to have been a potential for hazardous substance introduction during demolition, such potential does appear to have existed during facility operations. During its operation, the facility received contaminated liquid waste from the N-Reactor (CCN 157088 pg. 1, IHC-2006-0038 pg. 1, & WCH-473 pg. 3). Elevated GPERs survey results suggest that hazardous substance introduction did occur at this location (ESR-FRM-10-0144 / 0145).

List any hazardous materials left in the building for demolition:

It seems that there were no hazardous materials left in the building for demolition.

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

GPERs surveys conducted at the facility indicate the presence of elevated radiological levels (ESR-FRM-10-0144 / 0145).

There is some indication that chemical contamination could have been present at the facility (BHI-00221 pg. 3-83). However, the facility's historical records and process knowledge pertaining to chemical contamination were not reviewed in detail because future remedial action will be performed at this location. See the "Comments" section below for details concerning the Field Remediation organization's responsibilities pertaining to this location.

Comments:

The Explanation of Significant Differences for the 100-NR-1 and 100-NR-2 Operable Units Interim Remedial Action Record of Decision (ESD) indicates that the 1310-N facility was added to the Interim Remedial Action Record of Decision (ESD pg. 17). By its inclusion in the ESD, the footprint of the 1310-N facility has been identified as one that will undergo remedial action. Accordingly, the area once occupied by this now-demolished facility will be closed out by the Field Remediation organization. Any sampling deemed necessary for this location will be handled by the Field Remediation organization. Remediation designs have been created for this location (0100-DD-C0656 & 0100-DD-C0657). As evidenced by the GIS Site Tool, the Field Remediation excavation boundary includes the entire footprint of the facility (GIS Site Tool Figure 1-attached to this form).

The facility was surrounded by a soil berm, part of which was not removed during D4 activities (WCH-473 pgs. 4 & 16). The foundation for this facility was removed during D4 activities (WCH-473 pg. 15).

E. FIELD OBSERVATIONS

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-008

Visual Inspection

Were any stained soils/anomalies discovered during or after demolition of the facility? Yes No

References/Comments:

The Field Remediation organization will perform closeout of this location. No anomalies were discovered during demolition of this facility (CCN 157088 pg. 5).

Were samples taken of the stained soils/anomalies? Yes No N/A

References/Comments:

It was not determined during review of this facility if stained soils were discovered. No anomalies were discovered. Accordingly, this question is not applicable.

Do results of the samples indicate that chemical contamination exists? Yes No N/A

References/Comments:

It was not determined during review of this facility if stained soils were discovered. No anomalies were discovered. Accordingly, this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:

However, historical records pertaining to soil appearance at this facility were not reviewed because the Field Remediation organization will perform closeout of this location. No anomalies were discovered during demolition of this facility (CCN 157088 pg. 5).

Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination? Yes No

References/Comments:

ESR-FRM-10-0144 / 0145

Were samples taken of the radiologically contaminated soils? Yes No N/A

References/Comments:

It was not determined during review of this facility if the radiologically contaminated soils were sampled because the Field Remediation organization will perform closeout of this location.

Is the area potentially a discovery site? Yes No

References/Comments:

The GPERS surveys identified elevated levels of radiological contamination.

Were the contaminated materials removed? Yes No N/A

References/Comments:

It was not determined during review of this facility if the radiologically contaminated soils were removed because the Field Remediation organization will perform closeout of this location.

F. WIDS SITES

Were there any WIDS sites affected by D4 activities? Yes No

If yes, list the WIDS sites:

116-N-2 (1310-N Golf Ball), 100-N-63:2, 100-N-84 (colon sites 2, 3, 4, 5, & 8), UPR-100-N-5, UPR-100-N-6, UPR-100-N-25, and UPR-100-N-38 (CCN 157088 pg. 3)

Were the WIDS site(s) completely removed? Yes No

References/Comments:

It is unclear which, if any, of the affected WIDS sites were completely removed during D4 activities (CCN 157088 pg. 3).

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? Yes No

References/Comments:

The 1310-N facility is listed in the ESD (pg. 17). Accordingly, closeout of the 1310-N footprint is already assigned to the remedial action, rendering its deferral unnecessary.

G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-008

What are the potential contaminants of concern for the remaining below-grade soil?

None
 SVOC
 VOC
 Metals
 TPH
 Rad
 PCBs

Other (Specify): See "Comments" below.

Comments:

The COPCs associated with this facility were not identified for use with this form because closeout of this location will be performed as part of a remedial action. Accordingly, the Field Remediation organization will be responsible to identify and address all COPCs associated with this facility.

Summary of in-process soil sampling requirements:

N/A

Constituents detected / concentrations / rationale

See below.

Sample Collection Summary

- Coupon at 1310-N: Sample (HEIS) Number J187N3 (CCN 157088 Attachment 1)
- Smear at 1310-N: Sample (HEIS) Number J187N4 (CCN 157088 Attachment 1)
- Soil at 1310-N: Sample (HEIS) Numbers J187N6, J187N7, J18KL0, J18KL1, J18KL4, J18KL5, J18KL6, J18KK4, J18KK5, J18KK6, J18KK7, J18KK8, J18KK9, J18PY1, J18PY2, J18PY3, J18PY4, & J19L07 (CCN 157088 Attachment 1)
- Concrete at 1310-N: Sample (HEIS) Number J19DK2 (CCN 157088 Attachment 1)
- Mastic at 1310-N: Sample (HEIS) Number J19DK3 (CCN 157088 Attachment 1)
- Pipe Wrap at 1310-N: Sample (HEIS) Number J19Y17 (CCN 157088 Attachment 1)

H. NOTES / ADDITIONAL INFORMATION

Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

- Explanation of Significant Differences for the 100-NR-1 and 100-NR-2 Operable Units Interim Remedial Action Record of Decision (select portion only)
- GIS Site Tool Figure 1

I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards?

Yes No

Based on the above information it was determined that sampling: will will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

Information Reviewer Signature

David Warren

Printed Name

David Warren

Date

2/22/2012

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

DOE Signature

R.F. Guercia

Printed Name

R.F. Guercia

Date

2/21/2012

**100-N ANCILLARY FACILITIES REMOVAL ACTION
SAMPLING DETERMINATION FORM**Determination Number
SDF-100N-008

Ecology Signature

Nina M. Menard

Printed Name

NINA M. Menard

Date

2/23/2012

Attachment 11

164254

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, February 22, 2012 8:58 AM
To: ^WCH Document Control
Subject: FW: RELOCATION OF ANOMALY AT UPR-100-N-19
Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Thursday, February 16, 2012 3:44 PM
To: Chance, Joanne C; Saueressig, Daniel G
Cc: Wilkinson, Stephen G; Landon, Roger J; Winterhalder, John A
Subject: RE: RELOCATION OF ANOMALY AT UPR-100-N-19

Dan, etc.
I concur with the proposed relocation.

Alicia L. Boyd
Washington State Department of Ecology
3100 Port of Benton Blvd
Richland, WA 99352
509-372-7934

From: Chance, Joanne C [mailto:joanne.chance@rl.gov]
Sent: Wednesday, February 15, 2012 4:01 PM
To: Saueressig, Daniel G; Boyd, Alicia (ECY)
Cc: Wilkinson, Stephen G; Landon, Roger J; Winterhalder, John A
Subject: RE: RELOCATION OF ANOMALY AT UPR-100-N-19

Dan and Alicia,

I concur. Thanks.

Joanne C. Chance
U.S. Department of Energy
Office of Assistant Manager for the River Corridor
825 Jadwin Ave / MSIN A3-04
Richland, WA 99352
(509) 376-0811

2/22/2012

From: Saueressig, Daniel G [<mailto:dgsauere@wch-rcc.com>]
Sent: Wednesday, February 15, 2012 2:33 PM
To: Boyd, Alicia; Chance, Joanne C
Cc: Wilkinson, Stephen G; Landon, Roger J; Winterhalder, John A
Subject: RELOCATION OF ANOMALY AT UPR-100-N-19

Alicia/Joanne, we're planning to characterize some of the anomalies found at the 128-N-1 next week and I'd like to request your approval to relocate one anomaly from UPR-100-N-19 over the the 128-N-1 area to characterize it at the same time. I've attached a photo of the anomaly we're planning to move, it looks like a pipe with lead caps on the ends, no radioactivity was detected on this piece. We plan to drill a hole in the pipe and verify there is nothing in the pipe. If the pipe contains material, we'll take a sample and disposition the material according to the sample results. This work will be conducted over a plastic lined area to preclude anything reaching the soil below.

Let me know if you concur.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 100N-AN-11-001 (a).jpg >>

Attachment 12

164216

^WCH Document Control

From: Faust, Toni L
Sent: Thursday, February 16, 2012 10:09 AM
To: ^WCH Document Control
Subject: UPR-100-N-9 Focused Sampling Approach Regulatory Agreement
Attachments: SIS report.pdf

Please provide a chron number for the below email chain and attached files for the regulatory agreement for UPR-100-N-9.

Please provide electronic distribution of chron document to the below:

Dan Saueressig, Jeff Walker, Toni Faust

Thank you

Toni Faust

From: Chance, Joanne C [mailto:joanne.chance@ri.gov]
Sent: Thursday, February 16, 2012 9:54 AM
To: Boyd, Alicia; Faust, Toni L
Cc: Saueressig, Daniel G; Walker, Jeffrey L; Dobie, Chad H
Subject: RE: UPR-100-N-9 focused sampling approach

Alicia and Toni,

I concur.

Joanne C. Chance
U.S. Department of Energy
Office of Assistant Manager for the River Corridor
825 Jadwin Ave / MSIN A3-04
Richland, WA 99352
(509) 376-0811

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Thursday, February 16, 2012 8:43 AM
To: Faust, Toni L; Chance, Joanne C
Cc: Saueressig, Daniel G; Walker, Jeffrey L; Dobie, Chad H
Subject: RE: UPR-100-N-9 focused sampling approach

Joanne and Toni

For the UPR-100-N-9 sampling Ecology would prefer to have several focused samples collected instead of a composite sample. We're requesting 3 focused samples from within the 10' by 10' square. We can then directly compare the results of the focused samples to the RAGs. This request is based on the fact that the UPR-100-N-9 area is slightly larger than the 100-N-59 area, where it would have been nearly impossible to collect more than 1 sample.

Alicia L. Boyd

2/16/2012

Washington State Department of Ecology
3100 Port of Benton Blvd
Richland, WA 99352
509-372-7934

From: Faust, Toni L [<mailto:tifaust@wch-rcc.com>]
Sent: Wednesday, February 08, 2012 1:37 PM
To: Chance, Joanne C; Boyd, Alicia (ECY)
Cc: Saueressig, Daniel G; Walker, Jeffrey L; Dobie, Chad H
Subject: UPR-100-N-9 focused sampling approach

Alica and Joanne

Just to follow up with today's interface meeting.

WCH request an email concurrence with the below to initiate writing the verification work instruction for UPR-100-N-9 waste site. This site was the result of a release of 2,200 gallons of low-level radioactive contaminated water from the 119-N cooling water drain line on October 14th 1974. The area was excavated to repair the drain line (at a depth of 4 feet below grade) and the area backfilled with clean soil. An unknown amount of contaminated soil was removed. Based on the depth of the 100-N-63:2 pipeline in this area (approximately 15 feet), remediation of this site is complete. WCH would like to designate a 10 x 10 Foot square around the UPR-100-N-9 waste site coordinate (E 571216.2, N 149671.9) as the area for verification of the closure of waste site UPR-100-N-9 using composite samples.

The verification work instructions list the COPCs for 100-N-63 as americium-241, cesium-137, cobalt-60, europium-154, europium-155, nickel-63, plutonium-239/240, strontium-90, thorium-228, thorium-232, uranium-233/234, uranium-238, tritium, ICP metals (cadmium, lead, and total chromium), mercury, and hexavalent chromium based on the TSD ROD and TSD RDR/RAWP (DOE/RL-2000-16 rev 2). Other COPCs were added to the 100-N-63:2 VWI due to collocated waste site however are not applicable to UPR-100-N-9 based on the site location and history. Therefore only the above listed analytes would be analyzed for.

The composite sample and duplicate design will be collected in accordance with the 100-N Area CERCLA SAP (DOE/RL-2005-92), Appendix B, Section B.2 last paragraph.

Below is a sketch of the UPR-100-N-9 waste site location as it relates to the 100-N-63:2 waste site. From this you can see that there is also a verification sample for the 100-N-63:2 (S-3) near the UPR-100-N-9 waste site. WCH is not intending to use the results of this sample to support UPR-100-N-9 closure.

I have included the SIS report below for the UPR-100-N-9 wastes site to give you a little more background. Please let me know if you have question or comments.

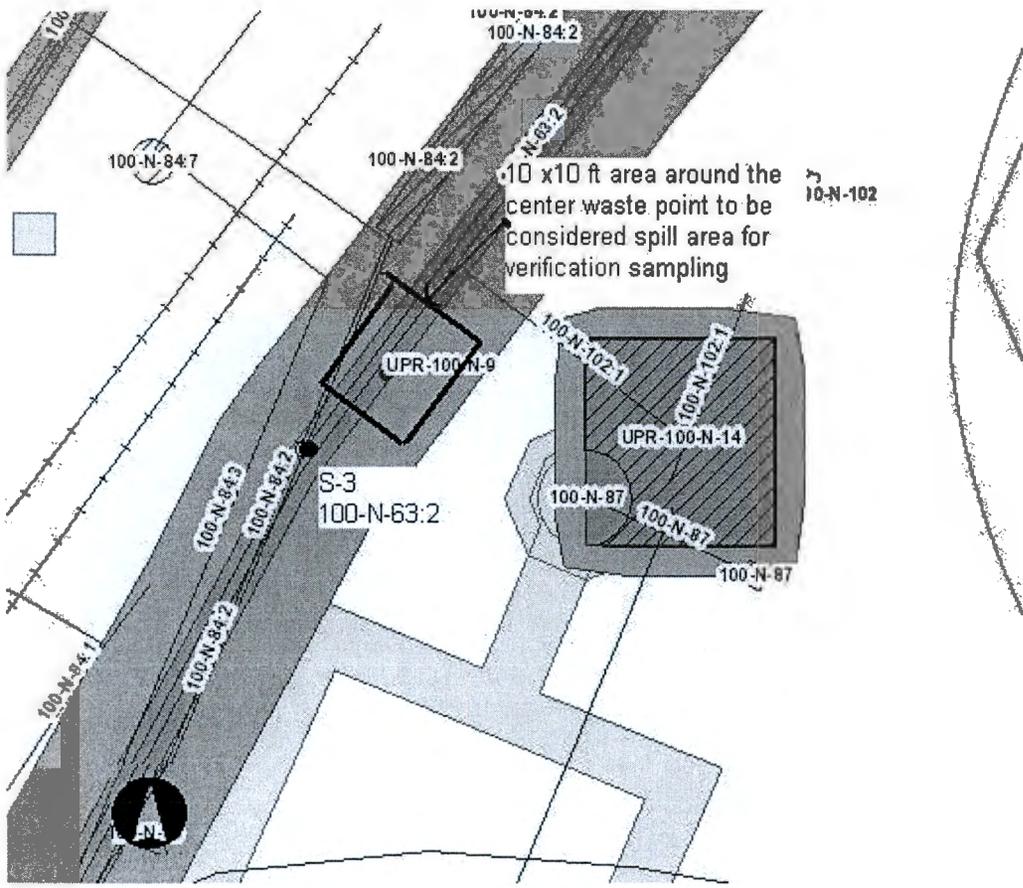
Thanks toni

<< File: SIS report.pdf >>

WCH would like to use a focus sampling approach for the UPR-100-N-9 waste site located within the 100-N-63:2 remediation design (0100-N-DD-C0296).

<< OLE Object: PBrush >>

2/16/2012



RCC Stewardship Information System

Site Summary Report

02/08/2012

Site Code: UPR-100-N-9

Site Classification Status: Accepted

Page 1

Site Names: UPR-100-N-9, 119-N Cooling Water Drain Line Leak, UN-100-N-9
Site Type: Unplanned Release **Start Date:** 1974
Status: Inactive **End Date:**
Decision Unit: 100-N **Coordinates:**
Operable Unit: 100-NR-1 (E) 571216.2
Hanford Area: 100N (N) 149671.9
QC Code: **QC Date:** Washington State Plane

Cleanup Activities:

Cleanup Summary: The remedial action of this site was deferred to the Field Remediation organization in 2006 (ISS-100-N-0001). In 2011, the site location appears to have been removed in the excavation for 116-N (163277).

Contaminants of Concern:

Excavation Depth (m):

Excavation Area (sq. m):

Material disposed at ERDF (metric tons):

Site Revegetated (Yes/No):

Site Downposted (Yes/No):

Institutional Controls Required (Yes/No):

Institutional Controls:

Historical Summary:

Site Description: The site is an excavation site (backhoe) greater than 1.2 meters (4 feet) below grade and includes a 5-centimeter (2-inch) valve on a drain line.

Process Description: A backhoe accidentally ruptured a buried 5-centimeter (2-inch) diameter cooling water drain valve during exploratory digging. Contaminated water immediately flowed into the excavation hole around the valve at approximately 19 liters (5 gallons) per minute and maintained a water level 1.2 meters (4 feet) below grade. The release occurred on October 14, 1974.

Location Description: The site is located in the 100N Area, north of 105-N (Reactor Facility) and about 26 meters (85 feet) northwest of 119-N (Air Sample Monitoring Stack Sampler).

Associated Structures: The site is associated with the 105-N (Lift Station), the 116-N-1 Crib and Trench, and the 119-N (Air Sample Monitoring Stack Sampler).

Site Comment: Repair was completed on the 5-centimeter (2-inch) valve and drain line. An unknown amount of contaminated excavation spoils were removed to a 200 Area Burial Ground, and the area was filled with clean soil. This site has been documented on Unusual Occurrence Report Number 74-29.

The waste site was contained in the original River Corridor Closure Contract Work Scope (DE-RP06-04RL14655).

RCC Stewardship Information System

Site Summary Report

02/08/2012

Site Code: UPR-100-N-9

Site Classification Status: Accepted

Page 2

Waste Information:

Type: Water Amount: 8327.9
Category: Radioactive Units: Liters
Physical State: Solid

Waste Obscured:

COPCs

Description: The release of 8,327 liters (2,200 gallons) of low-level radioactive contaminated water contained about 500,000 picocuries. The water was released from the 119-N cooling water drain line.

References: 1. PNL-6456, Volume 2, 10/01/1988, Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford: Volume 2, Pacific Northwest National Laboratories

Regulatory Info:

RCRA Permitting:

TSD Number:

RCRA Part A Permit: No

RCRA Part B Permit: No

Closure Plan:

RCRA Closure Type:

Residual Waste:

Other Permitting:

216/218 Permit: No

NPDES: No

Air Operating Permit
Numbers():

Remediation and Closure:

Closure Contractor: WCH. Washington Closure Hanford, LLC

ESD Document:

Decision Document Interim Remedial Action Record of Decision, 100-NR-1 and 100-NR-2 (1999)

Closure Document:

WSRF Number:

Transmittal Letter:

RCC Stewardship Information System
Site Summary Report

02/08/2012

Site Code: UPR-100-N-9

Site Classification Status: Accepted

Page 3

Site References:

1. 163277, 12/07/2011, Post-Demolition Summary Report for 116-N Reactor Stack, Washington Closure Hanford, LLC
2. 74-29, 10/24/1974, Valve Leak in 119-N Drain Line, United Nuclear Industries
3. DE-RP06-04RL14655, 09/29/2004, Section J, Attachment 1, River Corridor Closure Contract Work Scope, U.S. Department of Energy - Richland Operations Office
4. DSEC-UPR-100-N-9, 01/28/1997, Discovery Site Evaluation Checklist - UPR-100-N-9
5. EPA/ROD/R10-99/112, 09/30/1999, Interim Remedial Action Record of Decision for 100-NR-1 and 100-NR-2 Operable Units, U.S. Environmental Protection Agency
6. H-1-45007, Sheet 37, 06/26/1985, COMPOSITE UNDERGROUND LINES, Rev. 4, United Nuclear Industries
7. ISS-100N-0001, 09/28/2006, Project Soils or Below Grade Structures Deferral Form (119-N, 119-NA)
8. PNL-6456, Volume 2, 10/01/1988, Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford: Volume 2, Pacific Northwest National Laboratories
9. WHC-EP-0216, 02/01/1989, Preliminary Operable Units Designation Project, Westinghouse Hanford Company
10. WHC-SD-EN-TI-251, 06/01/1994, 100-N Area Technical Baseline Report, Rev. 0, Westinghouse Hanford Company

RCC Stewardship Information System
Site Summary Report

02/08/2012

Site Code: UPR-100-N-9

Site Classification Status: Accepted

Page 4

Image:

Date Taken: 6/4/1998

Historical Photo Number:

Description: The release occurred in the gravel area adjacent to the railroad tracks.



Attachment 13

^WCH Document Control

From: Saueressig, Daniel G
Sent: Thursday, March 01, 2012 1:33 PM
To: ^WCH Document Control
Subject: FW: ANOMALIES AT 128-K-2

Please provide a chron number. This email documents a regulatory agreement.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Christopher Guzzetti [mailto:Guzzetti.Christopher@epamail.epa.gov]
Sent: Thursday, March 01, 2012 1:27 PM
To: Glossbrenner, Ellwood T
Cc: Saueressig, Daniel G
Subject: RE: ANOMALIES AT 128-K-2

Dan,

I concur as well...

Christopher J. Guzzetti
U.S. EPA Region 10
Hanford Project Office
Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

From: "Glossbrenner, Ellwood T" <ellwood.glossbrenner@rl.gov>
To: "Saueressig, Daniel G" <dgsauere@wch-rcc.com>, Christopher Guzzetti/R10/USEPA/US@EPA
Date: 03/01/2012 01:13 PM
Subject: RE: ANOMALIES AT 128-K-2

Dan,

I concur with this approach. I think that we should take advantage of an opportunity to characterize these bottles at this time with the 118-K-1 burial ground anomalies. Keep me posted on what you find.

Ellwood T. Glossbrenner
509-376-5828

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, March 01, 2012 1:02 PM
To: Glossbrenner, Ellwood T; Christopher Guzzetti
Subject: RE: ANOMALIES AT 128-K-2

Resending. For some reason the email didn't go through to Chris.

Chris/Ellwood, we've found 2 anomalies at the 128-K-2 waste site (2 bottles containing ~ 100 and 200 ml of liquid). The bottles were overpacked into drums pending characterization. Since the 118-K-1 burial ground will be characterizing anomalies in the next few weeks, we'd like to move these 2 drums over to the anomaly characterization area at 118-K-1 to characterize the liquid.

Let me know if you concur with this path forward.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

Attachment 14

**Approval to Treat the 100-C-7:1 Chromium Contaminated
Soil in Accordance with the "TREATMENT PLAN AND
PROTOCOL FOR TREATMENT OF CHROMIUM-
CONTAMINATED SOILS, WCH-284, Rev. 2"**

This approval applies to approximately 2,750 m³ of chromium contaminated soil from the 100-C-7:1 waste site as described under waste profiles WP100C7005. The waste matrix consists of chromium contaminated soil. Sample# J1N267 had a high of 52.6 mg/L TCLP chromium.

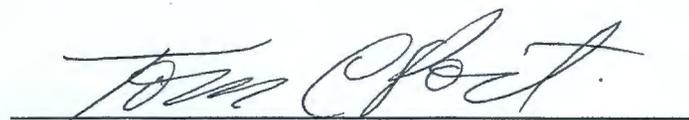
The waste is similar to the material treated in "*TREATMENT PLAN AND PROTOCOL FOR TREATMENT OF CHROMIUM-CONTAMINATED SOILS, WCH-284, Rev. 2*".

This approval allows treatment of this waste using the recipe described in Table 1, *Bench-Scale Test Results for the 100-D-56 and 100-C-7* of the treatment plan under Mixture 3, which limits the TCLP chromium to 36 mg/L. Although this material had a TCLP result for chromium at 52.6 mg/L, mixture 3 has a bench-scale test reduction factor of 25.4, therefore mixture 3 will meet the minimum treatment standard of 10 times the universal treatment standard (0.6 mg/L) or 6.0 mg/L.



Laura Buelow
U.S. Environmental Protection Agency

2-13-12
Date



Tom Post
U.S. Department of Energy

2-10-12
Date

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| C. Guzzetti | B1-46 |

Washington Closure Hanford

| | |
|--------------------|-------|
| J. F. Armatrout | T2-03 |
| C. L. Beach | X3-40 |
| S.W. Bisping | X9-08 |
| M. A. Buckmaster | X2-12 |
| R. D. Cantwell | N3-30 |
| M. A. Casbon | T2-03 |
| M.H. Conilogue | N3-20 |
| J. M. Curnutt | T2-07 |
| D. A. Duranceau | T2-05 |
| F. L. Farmer | T2-03 |
| B.L. Lawrence | T2-03 |
| R. S. Lipinski | N3-30 |
| S.E. Parnell | N3-30 |
| D. G. Saueressig | N3-30 |
| S. G. Wilkinson | N3-30 |
| J. A. Winterhalder | N3-30 |
| Document Control | H4-11 |

Attachment 15

300 Area Closure Project Status
February 9, 2012
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- Asbestos stop work has impacted preparations in all buildings except 3730, which has been cleared to proceed.
- 309 – Reactor removal preparations ongoing.
- 340 Complex – Completing demolition of 340, 340-A, and 307 Basins. Preparations for vault removal ongoing.
- 3730 - Preparing to place source term array and grout sources in facility.
- 308 – Above-grade demolition ongoing.
- 326 – Tritium decontamination ongoing.
- 320 – Completing below-grade demolition and process sewer removal.
- 327 – Below-grade demolition ongoing.
- 321 & 3706 – Completing remediation.
- 323 – Preparing to pump water from four below-grade tanks and ship to ETF for treatment.
- Preparing for asbestos abatement in 337B caisson.
- Slab removal west of Alaska continues.

Demolition & Remediation Preparation Activities

- Preparing for process sewer north of Apple, waste site close-out ongoing in same area.
- Finalize preparations for 310 TEDF demolition.
- Demolition preparations complete for 3766 Building.

60-Day Project Look Ahead

- Obtain authorization to resume asbestos removal activities.
- Continue 340 Complex waste site remediation and finalize engineering for vault removal.
- Continue 308 demolition. Finalize engineering for TRIGA reactor removal.
- Complete below-grade demolition and backfill of 320 Building.
- Complete 327 below-grade demolition.
- Complete work at the 337 Complex, backfill and close area.
- Initiate north of Apple (Zone 7) process sewer remediation.
- Complete remediation 321 and 3706 areas.
- Continue 309 reactor removal activities.
- Grout sources in 3730 gamma irradiation pit.

Attachment 16

Environmental Protection Mission Completion Project

March 8, 2012

Long-Term Stewardship

- The consolidated Rev. 0, 100-F/IU-2/IU-6 - Segment 2 turnover and transition package was transmitted to RL by MSA on February 29, 2012.
- The 100-F/IU-2/IU-6 – Segment 3 turnover and transition package is currently being consolidated with other contractor's input. The document is scheduled to be submitted to RL for review in April.
- The 100-F/IU-2/IU-6 Area – Segment 3 Interim Remedial Action Report was transmitted to RL on February 23, 2012 for review and subsequent transmittal to EPA for review.

River Corridor Baseline Risk Assessment

- The RCBRA Ecological Risk Assessment (Volume I) was approved by RL on February 28, 2012. Copies of the Rev. 0 document will be submitted to DOE on March 14, 2012 for distribution.

Remedial Investigation of Hanford Site Releases to the Columbia River

- Disposition of regulator comments on the Draft A screening level ecological risk assessment continues. Comment resolution meetings were held on January 26, February 6, February 16, and March 5, 2012. A redline of the document is being developed to reflect the agreed changes.
- EPA comments on the Draft A human health risk assessment were received on March 1, 2012. Ecology comments are anticipated on March 16, 2012 based on a request for a 2-week extension to the review period.

Document Review Look-Ahead

| Document | Regulator Review Start | Duration |
|---|------------------------|----------|
| Columbia River Component Risk Assessment – Baseline Human Health Risk Assessment Report (DOE/RL-2010-117, Draft A, Volume II) | January 16, 2012 | 45 days |
| 100-F/IU-2/IU-6 Area – Segment 3 Interim Remedial Action Report | February 28, 2012 | 30 days |