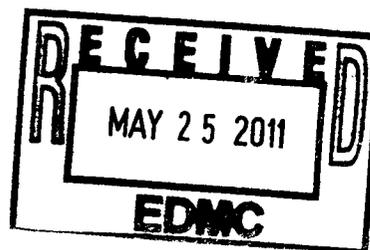


Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

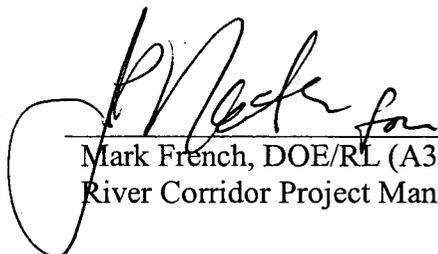
NAME	E-MAIL ADDRESS	MSIN	COMP
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French, Mark	Mark_S_French@rl.gov	A6-38	DOE
Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO
Gadbois, Larry E	Gadbois.larry@epa.gov	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH
Lewis, Jacquie	jllewis@wch-rcc.com	H4-21	WCH



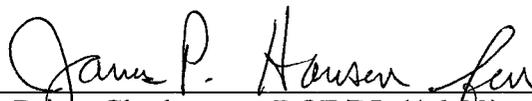
100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

April 14, 2011

APPROVAL:


Mark French, DOE/RL (A3-04)
River Corridor Project ManagerDate 5/12/11

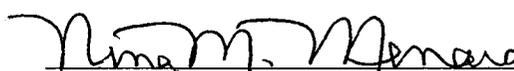
APPROVAL:


Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

Date

5/12/11

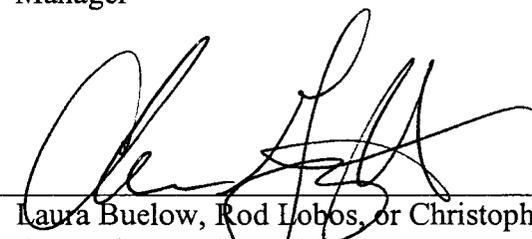
APPROVAL:


Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

Date

5/12/11

APPROVAL:


Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

Date

5/12/11

APPROVAL:


Larry Gadbois, EPA
(B1-46)
300 Area Project Manager

Date

May 12, 2011

Groundwater and Source Operable Units; Facility Deactivation, Decontamination, Decommission, and Demolition (D4); Interim Safe Storage (ISS); and Mission Completion

April 14, 2011

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held May 12, 2011, 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 March 10, 2011, 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)

Executive Session: An Executive Session was held by RL, EPA, and Ecology prior to the April 14, 2011, UMM, to discuss draft revisions to Remedial Action Objectives (RAOs).

Action Item: DOE will revise the RAOs per the UMM discussion and route to management and agencies with the intent of documenting approval at the May 12, 2011, UMM.

100 AREA (GENERAL)

Agreement 1: Attachment 1 documents DOE, EPA, and Ecology approval of TPA-CN-418 that adds text to the Integrated 100 Area Remedial Investigation/Feasibility Study (RI/FS) Work Plan (DOE/RL-2008-46, Rev. 0) regarding an alternative fate and transport model. The STOMP modeling code will be used in 100 Area RI/FS documents to evaluate impacts of vadose zone contaminant concentrations on the groundwater aquifer and the Columbia River.

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

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

Agreement 1: Attachment 3 documents EPA approval to conduct sampling at 100-F-45 according to the associated sample design.

Agreement 2: Attachment 4 documents EPA approval regarding a proposed plan and path forward for the chromium contamination encountered at 100-F-57.

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

Attachment 2 provides status and information for groundwater. No issues were identified.

Action Item 1: DOE will provide EPA and Ecology with a CD containing the documents produced using EM-22 funding.

Action Item 2: DOE will provide Ecology with a briefing on the applicability and status of bioremediation of chromium and the associated feasibility studies.

Action Item 3: DOE will provide Ecology with data from the recently installed RI/FS borehole at 100-H-33/183-H Solar Evaporation Basin (when it becomes available).

Agreement 1: Attachment 5 documents Ecology approval to add three additional stockpile locations in support of 100-D-50:6 and the high-priority chrome sites cleanup activities

Agreement 2: Attachment 6 documents Ecology approval to relocate the 118-D-1 overburden soil stockpile to provide access to the 100-D-50:6 pipeline subsite for removal and to backfill the 118-D-1 sorting cells using the overburden material.

Agreement 3: Attachment 7 documents Ecology and EPA approval to extend the operating time for the 118-2-3:2 anomaly staging area for six months from March 18, 2011.

Agreement 4: Attachment 8 documents Ecology approval to treat the 128-H-1 burn pit lead contaminated soil in accordance with mixture 2 in Table 1 of the "Treatment Plan and Protocol for the Treatment of Lead Contaminated Soils, WCH-252, Rev. 2."

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

Attachment 2 provides status and information for groundwater. Attachment 9 provides status and information for D4/ISS at 100-N. No issues were identified and no agreements were documented.

Action Item 1: DOE will meet with Ecology to discuss phytotesting.

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

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

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

Attachment 2 provides status and information for groundwater. Attachment 10 provides a schedule and map showing the status of remediation at 100-C-7. Attachment 11 provided aerial photographs of the 100-C-7. No issues were identified and no agreements or action items were documented.

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

Attachment 2 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 2 provides status and information for groundwater. Attachment 12 provides status and information for field remediation activities. Attachment 13 provides status and information for D4 activities. No issues were identified and no action items were documented.

Agreement 1: Attachment 14 documents DOE, EPA, and Ecology approval of TPA-CN-449 that adds text to the 300 Area Remedial Investigation/Feasibility Study (RI/FS) Work Plan for the 300-FF-1, 300-FF-2, and 300-FF-5 Operable Units (DOE/RL-2009-30, Rev. 0) regarding an alternative fate and transport model. The STOMP modeling code will be used in 300 Area RI/FS documents to evaluate impacts of vadose zone contaminant concentrations on the groundwater aquifer and the Columbia River.

REGULATORY CLOSEOUT DOCUMENTS OVERALL SCHEDULE

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

MISSION COMPLETION PROJECT

Attachment 15 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.

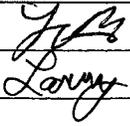
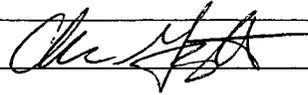
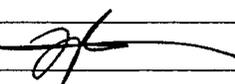
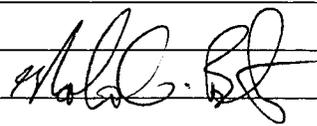
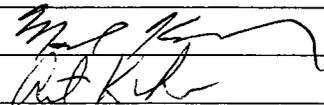
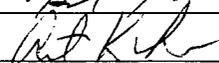
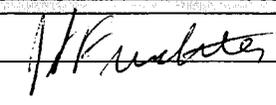
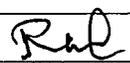
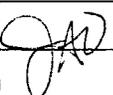
Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

April 14, 2011

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Attachment B

100/300 Area UMM
Action List
April 14, 2011

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-180	RL	M. Thompson	100-HR	DOE will provide EPA and Ecology with a CD containing the documents produced using EM-22 funding.	Open: 4/14/11; Action:
O	100-181	RL	M. Thompson	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:

Attachment C

100/300 Area Unit Manager Meeting
April 14, 2011
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 1:30-4:30 p.m.

1:30 - 1:45 p.m.

Administrative:

- Approval and signing of previous meeting minutes (March 2011)
- Update to Action Items List
- Next UMM (5/12/2011, Room C209)

1:45 - 4:00 p.m.

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

Note: Each session is estimated at 5 to 15 minutes.

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

4:00 - 4:15 p.m.

Special Topics/Other

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

4:15 - 4:30 p.m.

Adjourn

100/300 Area UMM

Action List

April 14, 2011

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status

Attachment 1

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN-418	TPA CHANGE NOTICE FORM	Date: 04/13/2011
------------------------------------	------------------------	---------------------

Document Number, Title, and Revision: DOE/RL-2008-46, Integrated 100 Area Remedial Investigation/Feasibility Study Work Plan, Rev. 0	Date Document Last Issued: January 2010
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Originator J.P. Sands	Phone: 372-2282
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Description of Change:
Adds text to the Integrated 100 Area Remedial Investigation/Feasibility Study (RI/FS) Work Plan regarding an alternative fate and transport model available to use in the 100 remedial investigations.

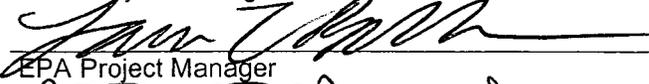
B. L. Charboneau and L. C. Buelow(EPA)/N. M. Menard(Ecology) agree that the proposed change
DOE **Lead Regulatory Agency**
modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

The following text is added to the Integrated 100 Area Remedial Investigation/Feasibility Study Work Plan, new Section 5.6.4 Groundwater/Surface Water Evaluation:

The STOMP modeling code will be used in 100 Area RI/FS documents to evaluate impacts of vadose zone contaminant concentrations on the groundwater aquifer and the Columbia River. Models will be constructed using a graded approach. Modeling assumptions, methods, and results will be documented in vadose zone modeling package reports, which will be included as appendices in each of the 100 Area RI/FS reports. The vadose zone modeling appendices will be subject to lead regulatory agency review and approval, in accordance with the HFFACO Action Plan Section 9.2 primary document review and comment process.

Note: This change is to page 5-11.

Justification and Impacts of Change:
This change notice supports the RI/FS process for the 100 Area and approves the use of the STOMP model as an alternative fate and transport model to establish soil cleanup levels that are protective of groundwater and surface water resources. The modeling results will be used to evaluate the risk of contamination and inform the formulation of appropriate remedy options that will achieve protectiveness of human health and the environment.

Approvals:  BOE Project Manager	4-13-2011 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
 EPA Project Manager	4-14-11 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
 Ecology Project Manager	4-14-11 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved

Attachment 2

100/300 Areas Unit Managers Meeting
April 14, 2011

100-FR-3 Groundwater Operable Unit – Nathan Bowles / 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 - On schedule to meet the TPA milestone. Field investigations are now complete.

The two RI/FS characterization boreholes that were completed as temporary monitoring wells (C7970 at 116-F-14 -- well 199-F5-55-- and C7972 near F reactor -- well 199-F5-56) were sampled. They will not be put on the decommissioning list until analytical results are received and evaluated. They could be useful monitoring points.

As recently reported to DOE and EPA, carbon tetrachloride was detected at low levels in all three of the new RI wells when sampled after completion in January:

- 199-F5-52 -- 2.2 J $\mu\text{g/L}$ (characterization samples had one detection at 1.8 J $\mu\text{g/L}$)
- 199-F5-53 -- 1.8 J $\mu\text{g/L}$ (non-detects during characterization)
- 199-F5-54 -- 1.9 J $\mu\text{g/L}$ (non-detects during characterization)

Samples from the new wells will continue to be sampled for VOAs, including carbon tetrachloride. Currently this is a method with a 1 $\mu\text{g/L}$ detection limit. CHPRC will request that a split sample be collected from at least one of the wells and analyzed at a different lab (lower detection limit).

Final results of river pore water samples conducted in February show only one of twenty locations with a detection of Cr(VI): 2.7 $\mu\text{g/L}$. A split sample at that same location had <2 $\mu\text{g/L}$. (At the last UMM, preliminary Cr(VI) results were presented with a detection of 4.6 $\mu\text{g/L}$; that result was later corrected for turbidity effects to 2.7 $\mu\text{g/L}$). A report on pore water sampling results is in preparation.

New RUM well 199-F5-53 was pump tested in March. These results, along with results of slug tests (new and selected older wells) will be published in SGW reports and incorporated into the RI.

The three new monitoring wells and well 199-F5-48 are scheduled for sampling in April; subject to restrictions of the electrical pump stop-work.

The 2010 site-wide annual groundwater report is being revised following internal review.

100-HR-3 Groundwater Operable Unit – Fred Biebesheimer / Jim Eluskie

(M-15-70-T01, 07/30/2011, 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 - On schedule to meet the TPA milestone. Field investigations were initiated following approval of the Rev. 0 RI/FS work plan documents. Drilling and sampling continue and are anticipated to be completed at the end of April.

- HR-3 Treatment System
 - For the period March 1 through 31, 2011:
 - The HR-3 system operated with the four D Transfer wells, two RUM wells in 100 H Area, and two wells in H Area along the river.
 - The HR-3 system will be taken off-line in May to realign wells from the HR-3 system to the new HX system. This work is being performed in May to coincide with high river stage.
 - Total average flow through the system was 207 gpm.

**100/300 Areas Unit Managers Meeting
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Average influent hexavalent chromium concentration for H Area was 18 µg/L.

Average influent hexavalent chromium concentration for D Area was 220 µg/L.

- The HR-3 system will be scheduled for HX well realignment in April

- DR-5 Treatment System
 - For the period March 1 through 31, 2011:
 - The DR-5 system ran intermittently due to the realignment of wells to the DX system. Realignment activities began in late February, and are expected to be complete in mid April.
 - Wells 199-D5-39 and 199-0D5-20 ran for only one day.
 - Well 199-D5-92 ran intermittently throughout the period.
 - Total average flow through the system was 1.4 gpm.
 - Average influent hexavalent chromium concentration was 1,363 µg/L.

- DX Pump and Treat system
 - For the period March 1 through 31, 2011:
 - The DX pump and treat system is completed Operations Test Procedure field activities. The OTP reporting is expected to be complete in April.
 - Total average flow through the system is 472 gpm.
 - The average influent hexavalent chromium concentration was 230 µg/L.

- ISRM Pond Sealing
 - Waiting for ISRM pond liquids to finish evaporation. Approximately 70% of the pond floor is covered in water. The water depth appears to be approximately 1 foot deep.
 - CHPRC is evaluating decommissioning path forward. Upon completion of the evaluation a meeting will be held to present recommendations.

- Planned treatment capacity at the 100-HX facility is 800 gpm. The formal HX design has been issued. Construction is underway on road maintenance, HDPE pipe runs (77% of 318,000 feet), and all 28 road crossings have been completed. Process building construction is complete, and process equipment is currently being installed. Major process building efforts include wiring installation and bolting up process piping. Transfer building construction is complete, and transfer equipment is currently being installed and wired. Twenty of 31 extraction wells have had their downhole equipment installed.

- EM-22 Technology Projects
 - The ZVI amendment test report was issued in March 2011.

- RI/FS Activities
 - All three spatial and temporal uncertainty groundwater sampling events have been conducted and data has been received from the laboratories.
 - RI/FS aquifer tube installation and three sampling rounds are completed.
 - Drilling and installation has been completed at 15 of 15 wells. One replacement well is being drilled at Well 9 (C8375).
 - Installation and sampling of all 10 boreholes is complete. Five of these have been completed as temporary wells.
 - Test pits have been installed at 1607-H4, 116-H2, 100-D-4, 116-D-4, and 100-D-12.

100/300 Areas Unit Managers Meeting
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(M-015-61, 12/31/2009, Submit RI/FS Work Plan for the 100-NR-1 and 100-NR-2 Operable Units.)
Schedule Status- TPA milestone met by DOE/RL submittal of Draft A document to Ecology on December 22, 2009. Approval of the Rev. 0 document occurred on March 10, 2011.

(M-015-60, six months after the ROD amendment [03/29/2011], if an amendment to the 100-NR-1/2 Record of Decision for Interim Action is issued, DOE shall submit an RD/RA Work Plan.)
Schedule Status - TPA milestone met by DOE/RL submittal of Rev. 1 Draft A document to Ecology on March 25, 2011. The submitted document is currently under review by Ecology.

(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 and will identify a preferred alternative in accordance with CERCLA requirements.)
Schedule Status – On schedule. Following the approval of the associated 100-N work plan addendum (described above) on March 10, 2011, the due date for this TPA Target Date changed from December 31, 2011 to September 17, 2012 under TPA CNM-015-11-1, approved on March 12, 2011.

- 100-N Integrated Groundwater Sampling and Analysis Plan – The Draft A document was submitted to Ecology by RL on June 2, 2010, and is still under Ecology review. Ecology review of this document is underway. Based on recent work associated with the revision to the NR-2 RD/RA Work Plan, this SAP will likely need revision to a Draft B once the RD/RA Work Plan revision is approved.
- RI/FS Activities
 - Well drilling: C8187/#R2 (RUM well along lower river shore road) - Work began at the first drill site on March 17, 2011. The borehole reached a total depth of 92.5 ft bgs (over 50 ft into the RUM) on April 6, 2011. Since a water-producing zone within the RUM was not observed within this borehole, the well will be constructed with a 5 ft screen at the bottom of the unconfined aquifer from 36 to 41 ft bgs as agreed to by DOE and Ecology. C8185/#2 (replacement well for N-18) - Work began at the second drill site on March 29, 2011. Current borehole depth as of April 7, 2011 was 40 ft bgs. Total planned depth is approximately 100 ft bgs.
- Annual Reports
 - The 2010 site-wide annual groundwater report and the 100 Areas pump-and-treat performance report have finished internal review and are in comment incorporation/resolution at this time.

100-KR-4 Groundwater Operable Unit – Art Lee

- RI/FS Activities:
 - Drilling and sampling of the RI wells and boreholes completed and well construction is complete.
 - Data validation has been completed.
 - Internal review of the RI/FS is currently in progress and will be completed April 18.
- Pump and Treat Systems Expansions and Modifications:
 - Phase 3 Realignment is in progress to add 1 new extraction well to KW, 2 new extraction wells to KR-4, and 6 spare lines to KX P&T systems.

**100/300 Areas Unit Managers Meeting
April 14, 2011**

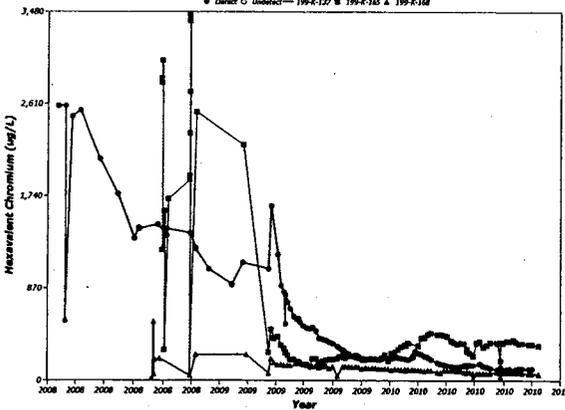
- Drilling and construction completed for first of the four Phase 3 wells (199-K-199). Analytical results for the from collected water samples during drilling indicate hexavalent chromium contamination (up to 38.5 ppb) is present in the lower portion of the aquifer between 70 and 94 ft. The well is screened across the contamination interval.
- Drilling in progress for the second well, 199-K-198.
- Completion of acceptance testing of KR-4 P&T PLC upgrades in progress. Testing is approximately 95% complete.
- Construction work completed to convert 199-K-152 to an extraction well and walk down performed. Punchlist items have been completed and testing of the well is scheduled for April.
- Planning is underway for implementing RPO recommendations for additional wells to support 2020 groundwater cleanup target.
- Process Test Plan for Implementation of ResinTech SIR-700 in the KW pump and Treat Facility has been issued. Resin procurement and facility modifications designs for increased acid addition have been initiated for the test. Test is scheduled to start in April 2011, pending resolution of NFPA 1, Fire Code, controls for increased sulfuric acid use at the facility.
- Pump and Treat Operations:
 - The draft 2010 Annual Pump-and-Treat Performance Report is out for internal PRC and RL review.
 - KR-4, KX, and KW pump and treat systems are operating normally.
 - Average Flow Rates in March:
 - KX - 320 gpm with transfer building #2 shut off to reroute lines interfering with remediation of waste site 100-N-18.
 - KW - 188 gpm (94% capacity)
 - KR4 - 143 gpm with reduced flow at <10 ppb wells
 - Cr(VI) Removed in January:
 - KX - 4.5 pounds (average influent 40.9 ppb)
 - KW - 5.7 pounds (average influent 84.4 ppb)
 - KR4 - 1.1 pounds (average influent 21.4 ppb)
 - Shipments of resin for regeneration resumed in March following approval of the revised Authorized Limit Application.
 - Analytical results for Sr-90 were above the DWS (8 pCi/L) from January monitoring sample from extraction well 199-K-141. Analytical results indicated 12 pCi/L Sr-90. Analytical results from sample collected on February 17 indicate decrease in Sr-90 concentration to 8.2 and 9.7 ppb, but still above the DWS. Sample results confirm that Sr-90 is not migrating rapidly. Review of the KX influent and effluent tank samples did not identify any detectable Sr-90.
- Monitoring Activities:
 - Monthly Cultural Monitoring: The monitoring was conducted on Friday March 18th. No new incidents were observed this month. It was recommended that railroad ties be placed at the three new well pads on the lower terrace; 199-K-197, 199-K-198, and 199-K-199 as a preventative measure. Railroad ties have been placed at the well pads as recommended
 - Routine Monitoring:
 - In March 2011, only 2 aquifer tubes were sampled with 6 sampled collected. The next major sampling event for 100-KR_4 OU is scheduled for April 2011.
 - Monthly values from KW extraction wells were at or above the 20 µg/L aquatic standard in March (ranging from 22 µg/L to 194 µg/L), except for wells 199-K-138 and 199-K-166 which were at 19 µg/L and 14 µg/L, respectively, for field analyses.

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- Well 199-K-173 will be converted to an extraction well in the future to the KW P&T to address high Cr6+ detected at the monitoring well (968 µg/L in August and 659 µg/L in Jan 2011).
- Wells 199-K-149 and 199-K-150 in the KX Northern plume are below 10 ppb and will be converted to monitoring wells in the future. At that time, wells 199-K-152 and 199-K-182 will serve as replacement extraction wells.
- No change since February 2011. Long-term decreases in overall Cr6+ levels observed at KX extraction wells at Northeast end of the K-2 Trench. Only well 199-K-22 and new shallow RI/FS well 199-K-201 at 116-K-2 trench show continuing high values above 100 µg/L.
- Wells 199-K-29 and K-30 located within excavation zone of buildings 115-KE and 117-KE are being decommissioned in support of subsurface remediation. The wells were geophysically logged and water samples collected prior to decommissioning.
- Well 199-K-18, which has shown an increasing Cr6+ concentration trend since December 1996, now has three quarters of results with decreasing Cr6+ concentrations. After peaking at 190-200 µg/L in Spring 2010, concentrations have declined to 173 and 131 µg/L in August 2010 and January 2011. Hexavalent chromium concentrations at the downgradient extraction wells 199-K-162 and K-120A declined or remained below 10 µg/L for January. Extraction well 199-K-145 declined from 62 to 46 µg/L between early October 2010 to 46 µg/L in January 2011. No change in March 2011.

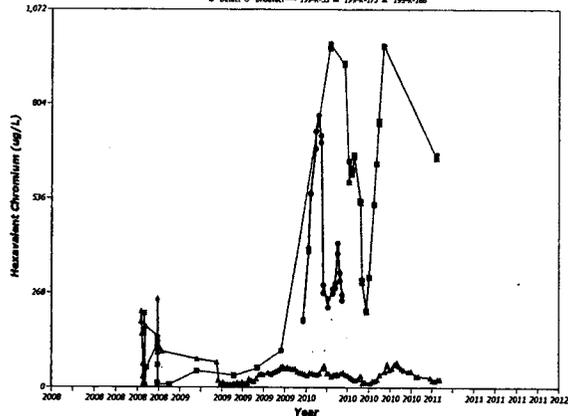
Extraction Wells, High Cr6+ Plume Segment, KW P&T

199-K-137, 199-K-165, 199-K-168
Hexavalent Chromium (µg/L)



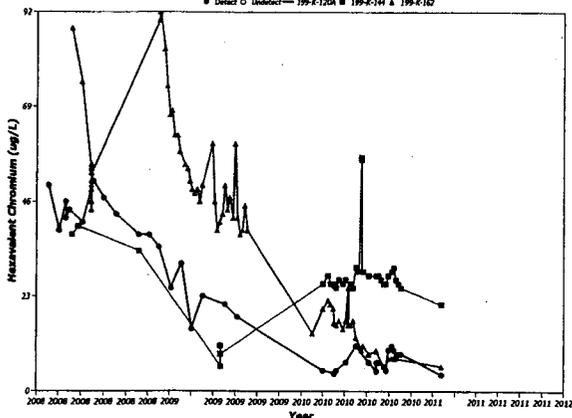
Monitoring Wells KW P&T

199-K-35, 199-K-173, 199-K-166
Hexavalent Chromium (µg/L)



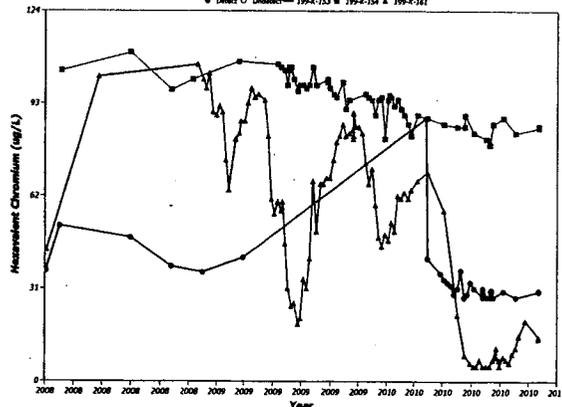
KR-4 SW Extraction Wells 116-K-2 Trench

199-K-120A, 199-K-144, 199-K-162
Hexavalent Chromium (µg/L)

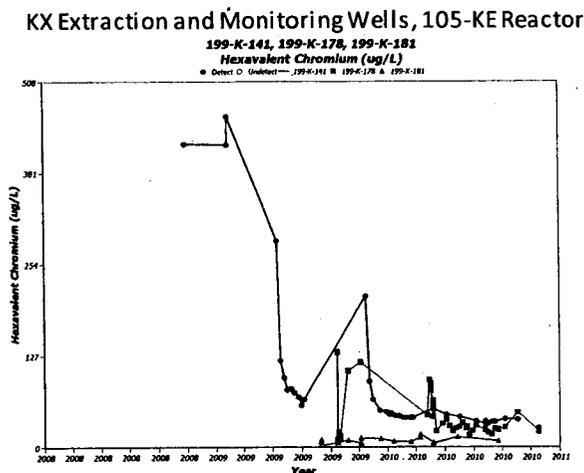
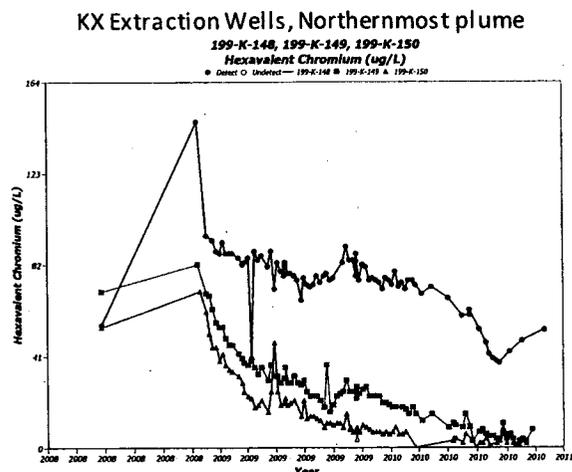


KX Plume, Northeast End of 116-K-2 Trench

199-K-153, 199-K-154, 199-K-161
Hexavalent Chromium (µg/L)



**100/300 Areas Unit Managers Meeting
April 14, 2011**



100-BC-5 Groundwater Operable Unit – Nathan Bowles / 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 - On Schedule to meet TPA milestone. Field investigations are now complete.

All of the new RI wells are complete and sample ready. Only 199-B8-9 (near C Reactor) has been sampled following its completion (January). All are scheduled for sampling in April, but this is subject to restrictions of the sampling stop-work. Six of the older wells scheduled for annual sampling in January also remain to be sampled.

Results of post-completion sampling of 199-B8-9 were consistent with characterization samples from the upper part of the aquifer.

Carbon tetrachloride was detected in 6.8% of characterization samples collected during drilling, as recently reported to DOE and EPA. All but one of these detections was flagged “J” (below contract required detection limit but above MDL, which was 1 µg/L). The maximum was 6 µg/L in 199-B5-8 (upgradient well). The action level for carbon tetrachloride is 0.23 µg/L. We are having the detections checked at the lab to determine if there were any irregularities; also checking blanks. Because occurrences are low concentration and isolated vertically, this would not seem to be a risk driver (characterization samples are not used in our risk assessment). Future 100-BC groundwater samples will be analyzed for VOAs with a low detection limit to track carbon tetrachloride (also TCE and chloroform, which are final COPCs).

Aquifer tube sampling began in early March; results received so far are in trend with previous data. The remaining tubes will be sampled if river levels allow.

New RUM well 199-B2-15 was pump tested in March. These results, along with results of slug tests (new and selected older wells) will be published in SGW reports and incorporated into the RI.

The 2010 site-wide annual groundwater report is being revised following internal review.

300-FF-5 Groundwater Operable Unit – Mark Kemner / Bob Peterson

(M-015-72-T01, 11/30/2011, Submit CERCLA RI/FS Report and Proposed Plan for the FF-5 Operable Units for groundwater and soil.)

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April 14, 2011

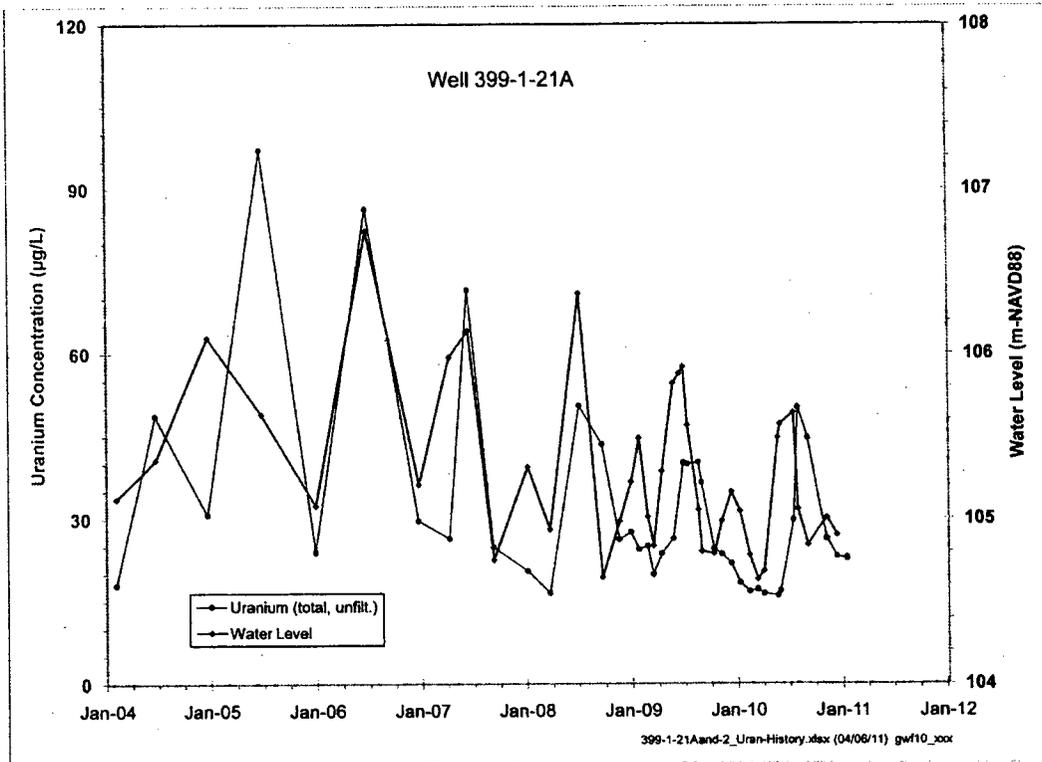
Schedule Status - On Schedule to meet TPA milestone. Field investigations are complete. The 11 monitoring wells and 5 temporary wells in the RI/FS work plan are complete. The four IFRC wells in the South Pond have now been drilled to total depth and are being constructed. Sampling of the boreholes for VOCs from the finer-grained Ringold Unit was conducted to enhance our understanding of the nature and extent of VOCs in this part of the site.

- All three rounds of RI/FS spatial and temporal groundwater sampling for 300-FF-5 have been completed.

- 300 Area RI/FS Activities (DOE/RL-2009-30, Rev. 0, 2010)
 - *300 Area Drilling:* All eleven of the planned characterization boreholes have been drilled, completed as monitoring wells, and accepted for use in February. They are in the scheduling queue for quarterly sampling. The five ‘temporary wells’ have been drilled, completed, and accepted for use in early April, and are also in the scheduling queue. At the IFRC research site in the former South Process Pond, four boundary condition wells have been completed and accepted for use by that project.
 - *300 Area RI/FS Report, Groundwater Aspects:* Work continues on Chapter 4 (Nature and Extent), with draft input on groundwater components in Chapter 2 (RI Investigations) and Chapter 3 (Physical Characteristics) complete except for final figure updates. Recent activities include compiling all groundwater analytical results from the two previous drilling campaigns (LFI and VOC investigation) and the current RI/FS drilling campaign into summary tables for the report. Additional summaries include tables showing recent groundwater monitoring results for all COPC’s identified in the Work Plan, and maximum values for various waste indicator constituents by well for each year since the remedial investigation began in 1992.

- 300-FF-5 Operations and Maintenance Plan Activities (DOE/RL-95-73, Rev. 1, 2002)
 - *300 Area Subregion:*
 - The backlog of wells scheduled for the December 2010 semi-annual sampling event continues to be reduced, with most wells now having been sampled. The most recent analytical results are for samples collected in March 2011. Sampling of some aquifer tubes along the 300 Area shoreline took place during March.
 - 324 Building issue: The most recent sampling of a well that monitors conditions near the building took place in April. To date, monitoring results do not reveal evidence of groundwater impacts from releases at the building.
 - Special sampling downgradient of the 618-7 Burial Ground remediation site: The most recent sampling at wells that monitor the plume occurred in early April. No new results are available to describe the movement of the plume since the March unit manager meeting.
 - Special sampling near the 618-1 Burial Ground/Acid Neutralization Pit remediation site: The most recent sampling at two wells that monitor conditions downgradient of these remediation sites took place in early April. Monthly sampling continues at wells 399-1-2 and 399-1-21A, although remediation activities are essentially complete at these waste sites. No groundwater impacts attributable to remediation have been observed (see Figure below). However, uranium concentrations do increase at these wells whenever the water rises significantly, suggesting the presence of mobile uranium nearby in the lower portion of the vadose zone.

**100/300 Areas Unit Managers Meeting
April 14, 2011**



- *618-11 Burial Ground Subregion*: No new information to report since the March unit manager meeting. The most recent results are for samples collected in January 2011.
- *618-10 Burial Ground/316-4 Cribs Subregion*: The three wells closest to excavation activities at the burial ground were sampled in mid-March, with analytical results expected before the May unit manager meeting. (The most recent results are for a December sample from 699-S6-E4A, which monitors groundwater beneath the former 316-4 cribs remediation site.)

Attachment 3

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, April 11, 2011 6:12 AM
To: ^WCH Document Control
Subject: FW: COPC LIST FOR 100-F-45

Attachments: Excavation sampling plan.doc; COPC list for field.doc



Excavation sampling plan.doc
 COPC list for field.doc (30 KB..)

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

Thanks,

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

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

From: Guzzetti.Christopher@epamail.epa.gov [mailto:Guzzetti.Christopher@epamail.epa.gov]
Sent: Wednesday, April 06, 2011 4:17 PM
To: Post, Thomas C
Cc: Dobie, Chad H; Saueressig, Daniel G; Fancher, Jonathan D (Jon); Jakubek, Joshua E
Subject: RE: COPC LIST FOR 100-F-45

I agree with Tom.

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: "Post, Thomas" <Thomas.Post@rl.doe.gov>
To: "Saueressig, Daniel G" <dgsauere@wch-rcc.com>, Christopher Guzzetti/R10/USEPA/US@EPA
Cc: "Fancher, Jonathan D (Jon)" <jdfanche@wch-rcc.com>, "Jakubek, Joshua E" <jejakube@wch-rcc.com>, "Dobie, Chad H" <chdobie@wch-rcc.com>
Date: 04/06/2011 03:30 PM
Subject: RE: COPC LIST FOR 100-F-45

Dan and Chris,

I agree with the proposed sampling locations.

In the original confirmatory sampling in 2008, Cesium-137 was detected at 1.36 pCi/g (Direct Exposure cleanup level is 6.2 pCi/g). Europium-152 was detected at 0.094 pCi/g

157829

(Direct Exposure cleanup level is 3.3 pCi/g). Even though these two radionuclides were below the RAGs during the confirmatory sampling event, I think they should be included as COPCs in the verification sampling to close out the site

Thanks.

Tom

From: Saueressig, Daniel G
Sent: Wednesday, April 06, 2011 10:27 AM
To: Guzzetti, Christopher; Post, Thomas
Cc: Fancher, Jonathan D (Jon); Jakubek, Joshua E; Dobie, Chad H
Subject: RE: COPC LIST FOR 100-F-45

Chris/Tom, attached is a sample design we'd like to use for sampling the 100-F-45. We haven't gotten the final civil survey drawing of the excavation finalized, so Josh walked the disturbed area with a hand held GPS to depict the area of disturbance. The black line is the area that was disturbed to access the pipe and remove it. Although not real clear, the sample locations are in the bottom of the excavation and underneath where the pipe was located. They were laid in a random triangular shape that you should be familiar with as it's similar to other sample designs that have been approved in the past.

I'd like to request your approval to conduct the sampling at 100-F-45 according to the attached design and with the COPC's from the original request below. Let me know if you concur.

I'll be gone this afternoon and tomorrow, so if you have any questions, please call Josh Jakubek on 942-4703.

Thanks,

Dan
521-5326

< File: Excavation sampling plan.doc >
From: Saueressig, Daniel G
Sent: Wednesday, March 30, 2011 2:21 PM
To: Guzzetti, Christopher; Post, Thomas C
Cc: Fancher, Jonathan D (Jon); Jakubek, Joshua E; Dobie, Chad H
Subject: COPC LIST FOR 100-F-45

Chris/Tom, attached is the COPC list we are proposing for closure sampling of 100-F-45. We're still finalizing the sample design and hope to get that to you next week. Once you receive the sample design, we'd like approval to go sample the site while the verification work instructions get finalized. This will allow us to backfill the site (should the sample results indicate the site is clean), while to closure documentation proceeds through the system.

We'd like to backfill the site as soon as the sample results indicate we've met the RAGs due to the proximity of this site to the river.

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

Dan
521-5326

< File: COPC list for field.doc >

100-F-45 Verification Sample Design for the Excavation.

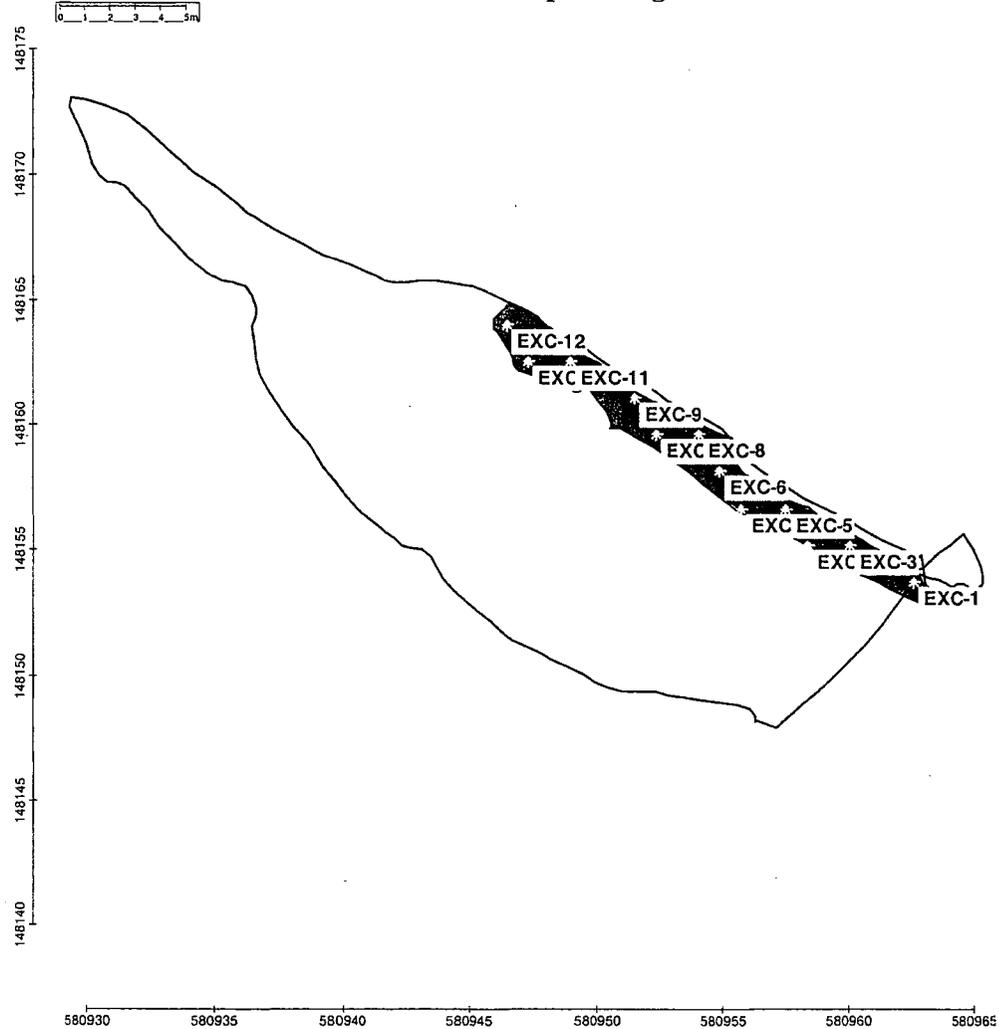


Table 1. 100-F-45, Buried River Effluent Pipelines Excavation Sample Summary.

Sample Location	HEIS Sample Number	Northing	Easting	Sample Analysis
EXC-1	TBD	148153.7	580962.6	ICP metals ^a , mercury, hexavalent chromium
EXC-2	TBD	148155.2	580958.4	
EXC-3	TBD	148155.2	580960.1	
EXC-4	TBD	148156.7	580955.8	
EXC-5	TBD	148156.7	580957.5	
EXC-6	TBD	148158.2	580955	
EXC-7	TBD	148159.6	580952.4	
EXC-8	TBD	148159.6	580954.1	
EXC-9	TBD	148161.1	580951.6	
EXC-10	TBD	148162.6	580947.3	

Table 1. 100-F-45, Buried River Effluent Pipelines Excavation Sample Summary.

Sample Location	HEIS Sample Number	Northing	Easting	Sample Analysis
EXC-11	TBD	148162.6	580949	
EXC-12	TBD	148164	580946.5	
Duplicate ^b	TBD	TBD	TBD	

^a Analysis will be performed for the expanded list of ICP metals to include antimony, arsenic, barium, beryllium, boron, cadmium, chromium(total), cobalt, copper, lead, manganese, molybdenum, nickel, selenium, silver, vanadium, and zinc.

^b One duplicate soil sample will be collected from each decision unit at a location selected at the project analytical lead's discretion.

HEIS = Hanford Environmental Information System

ICP = inductively coupled plasma

NA = not applicable

TBD = to be determined

The contaminants of potential concern (COPCs) for the 100-F-45 Buried River Effluent Pipelines, specified in the 100 Area SAP (DOE-RL 2009a), are based on those for the 1904-F Outfall (116-F-8) and are identified carbon-14, cesium-137, cobalt-60, europium-152, europium-154, europium-155, nickel-63, strontium-90, and hexavalent chromium. However, based on confirmatory sampling results, it was determined that no major or minor deficiencies were identified for the radionuclide results in the analytical data set. Thus the radionuclide results are of sufficient quality to rule out radionuclide COCs/COPCs for this site.

Analytical results from the confirmatory samples indicate that the 100-F-45 site fails direct exposure remedial action goals (RAGs) for hexavalent chromium. The site also fails groundwater and/or river protection values for total chromium, copper, lead, and zinc. Based on these results, the site is being recommended for remediation, with hexavalent chromium, total chromium, copper, lead, and zinc being identified as contaminants of concern/contaminants of potential concern (COC/COPC). Although not considered COPCs, antimony, arsenic, barium, beryllium, boron, cadmium, cobalt, manganese, molybdenum, nickel, selenium, silver, and vanadium, will be evaluated by performing analyses for the constituents of the expanded inductively coupled plasma (ICP) metals lists. Mercury analysis will also be included.

Table 1. 100-F-45 Laboratory Analytical Methods.

Analytical Method	Contaminant of Concern/Contaminant of Potential Concern
ICP metals ^a – EPA Method 6010	Chromium (total), copper, lead, and zinc
Mercury – EPA Method 7471	Mercury
Hexavalent chromium – EPA Method 7196	Hexavalent chromium

^a Analysis will be performed for the expanded list of ICP metals to include antimony, arsenic, barium, beryllium, boron, cadmium, copper, manganese, molybdenum, nickel, selenium, silver, and vanadium.

EPA = U.S. Environmental Protection Agency

ICP = inductively coupled plasma

Attachment 4

^WCH Document Control

From: Saueressig, Daniel G
 Sent: Thursday, March 24, 2011 8:11 AM
 To: ^WCH Document Control
 Subject: FW: 100-F-57 CHROME REMOVAL PLAN PHASE 1

Please provide a chron number. This email documents a regulatory agreement. Also, I'll be bringing a couple files down to include with the agreement, as they are color photos with sample data from the potholes.

Thanks,

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

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

From: Guzzetti.Christopher@epamail.epa.gov [mailto:Guzzetti.Christopher@epamail.epa.gov]
 Sent: Monday, March 14, 2011 7:25 AM
 To: Post, Thomas C
 Cc: Saueressig, Daniel G; Fancher, Jonathan D (Jon)
 Subject: RE: 100-F-57 CHROME REMOVAL PLAN PHASE 1

I also concur...thanks!

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: "Post, Thomas" <Thomas.Post@rl.doe.gov>
 To: "Saueressig, Daniel G" <dgsauere@wch-rcc.com>, Christopher Guzzetti/R10/USEPA/US@EPA
 Cc: "Fancher, Jonathan D (Jon)" <jdfanche@wch-rcc.com>
 Date: 03/10/2011 02:44 PM
 Subject: RE: 100-F-57 CHROME REMOVAL PLAN PHASE 1

Dan,

I concur.

Thanks.

Tom Post

From: Saueressig, Daniel G
 Sent: Thursday, March 10, 2011 11:53 AM
 To: Guzzetti.Christopher@epamail.epa.gov; Post, Thomas
 Cc: Fancher, Jonathan D (Jon)
 Subject: RE: 100-F-57 CHROME REMOVAL PLAN PHASE 1

157338

Chris/Tom, based on our discussion Tuesday, March 8, 2011, below is WCH's proposed plan and path forward for the chromium contamination encountered at 100-F-57. This first phase will be performed while plans are finalized for the remaining soil below what we remove and dispose.

Let me know if you concur with this plan and path forward and I'll document this agreement at the next UMM. I'll also include the PowerPoint slides that were distributed at yesterday's meeting in the agreement, they were just too large in size to send with this request.

Slab removal

Remove and dispose of the 100-F-57 concrete slab and 2-ft of soil below the slab. To stabilize the ground prior to slab removal, clean fill will be placed into the potholes prior to slab removal. The amount of clean fill placed back into the potholes will be tracked and the locations of the potholes will be marked via GPS so that we will know the locations where the potholes were located. In addition, approximately 2-ft of soil will be removed to the northwest of the slab (potholes 1, 2, 3, 9, and 10 on PowerPoint drawing Mr. Fancher provided at Tuesday's meeting). WCH plans to initially backfill only potholes 1, 3, 9, and 10 at the northwest corner of the slab so additional sampling can be conducted at pothole 2 where visible staining on the side wall was identified (see additional discussion below) after which it will be backfilled with clean borrow. In addition, all the soil stockpiled on plastic from digging the potholes will be loaded out and disposed at ERDF.

It is understood that at some areas (pothole 2 & 8) Cr6 exists at over 2-ft deep that will require remediation. The initial removal of the slab plus 2-ft is the first step to allow remediation to commence quickly while further plans for excavation below 2-ft are finalized.

New potholes

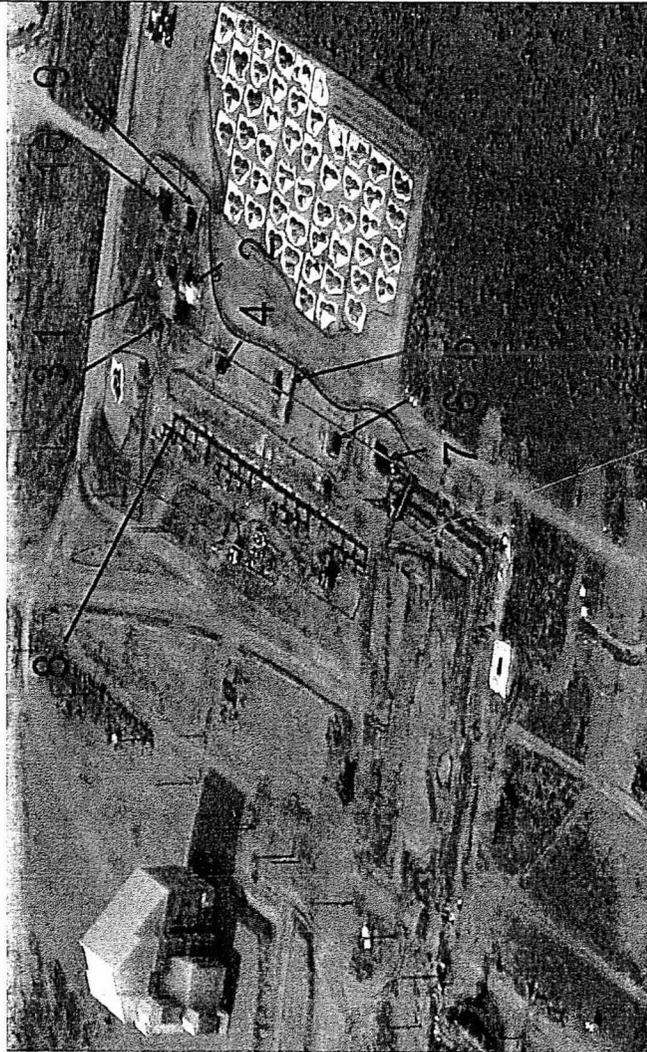
During this removal a new pothole will be dug west of pothole 8, another new pothole will be dug within the slab in the southeast area (south of pothole 7). Additionally, the visibly stained soil within the west wall of pothole #2 will be sampled at ~1-ft intervals (starting >2-ft deep) to the maximum depth (appx. 15-ft deep). The excavated soil will be stockpiled on plastic and disposed at ERDF once sample results are received. If backfilling of these new potholes becomes necessary, clean fill material from the 100-F borrow pit will be used.

Let me know if you concur with our proposed plan.

Thanks,

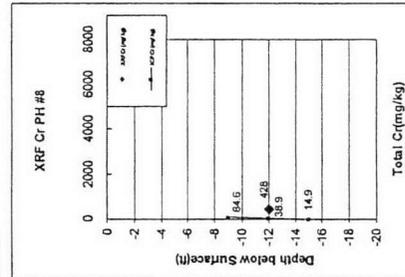
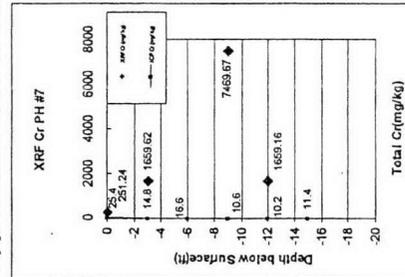
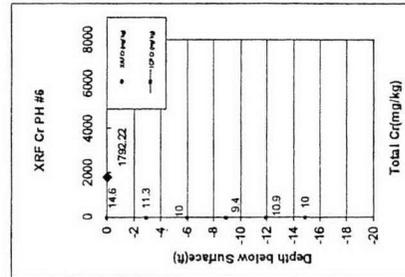
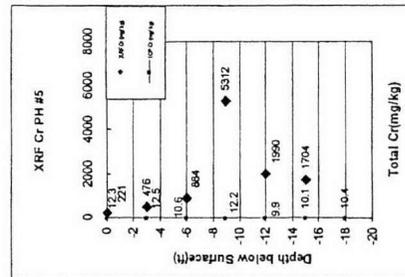
Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

100-F-57 Fact Sheet Update March 3rd, 2011

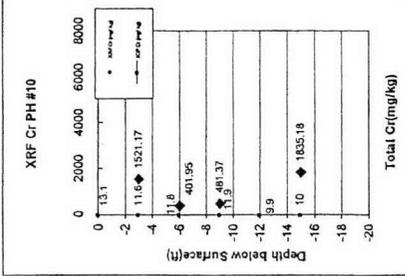
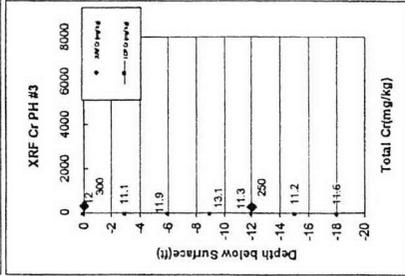
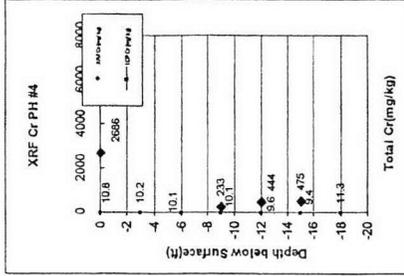
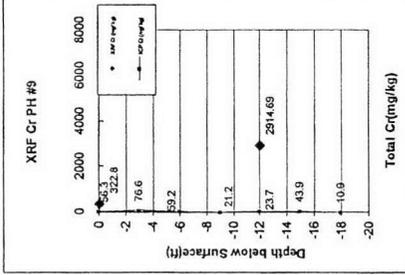
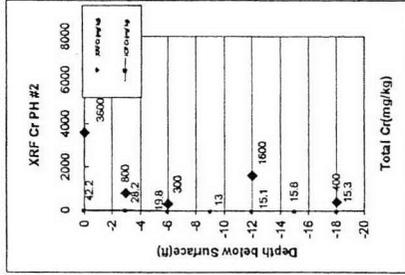
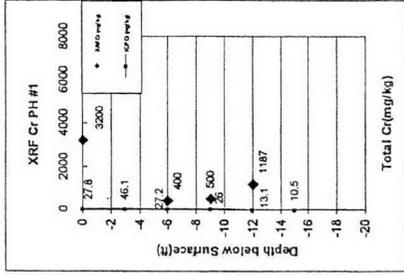


- All potholes excavated, most sample data received.
- No total Cr data above cleanup level.
- 5/6 concrete samples indicate concrete removal is necessary.
- Most soil contamination present in western portion of 100-F-57.
- Poor correlation between field XRF Total Cr and ICP laboratory total Cr.
- Cr+6 cleanup RAG is 2.1 mg/kg
- Most sample results indicate a minimal amount of soil/concrete will require treatment before disposal at ERDF.
- Excavating 3-ft will fill approximately 700+ containers

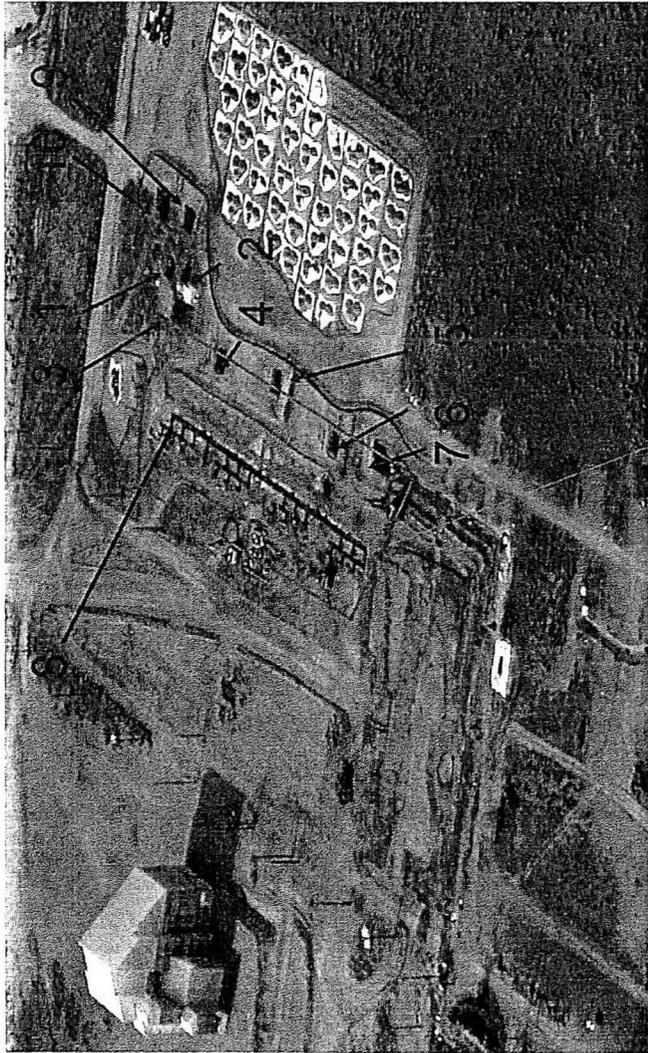
Approximate 190-F foundation



NOTE:
 XRF Cr minimum detection level is ~ 100 mg/kg
 ICP Cr minimum detection level is ~ XX mg/kg

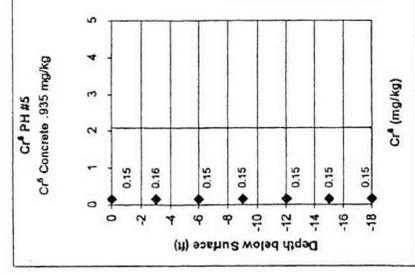
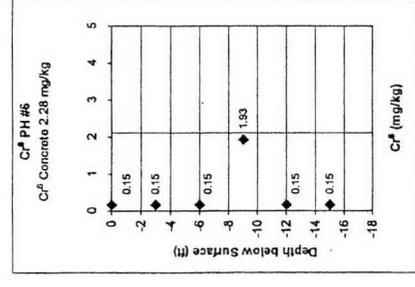
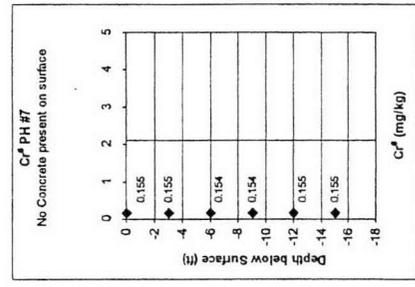
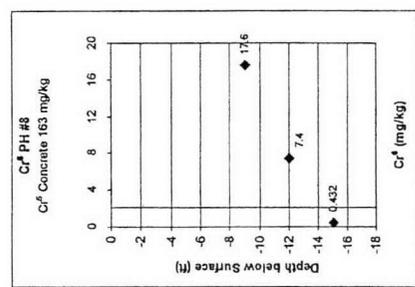
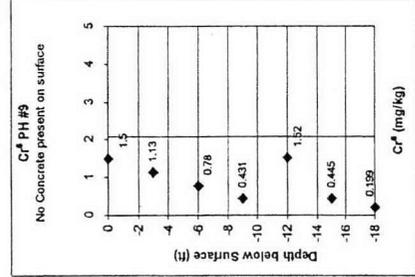
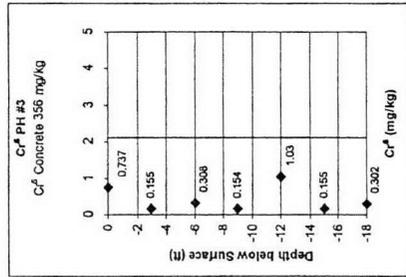
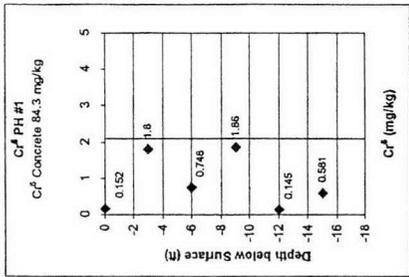
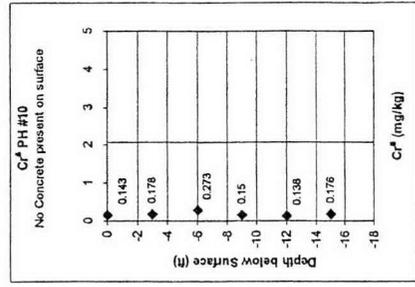
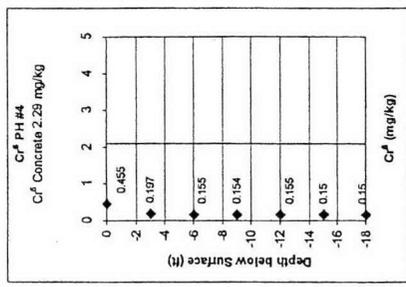
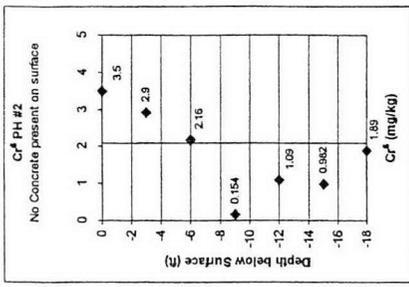


100-F-57 Fact Sheet Update March 15th, 2011



Vertical red line indicates cleanup level for Cr⁶
 Cr⁶ laboratory detection level is approximately 0.15 mg/kg

Approximate 190-F foundation



Attachment 5

157340

^WCH Document Control

From: Saueressig, Daniel G
Sent: Thursday, March 24, 2011 8:02 AM
To: ^WCH Document Control
Subject: FW: Stockpile Area Requests
Attachments: SPA Requests_3-19-11.PDF

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: Welsch, Kim (ECY) [mailto:KIWE461@ECY.WA.GOV]
Sent: Tuesday, March 22, 2011 8:11 AM
To: Laurenz, Julian E; Boyd, Alicia; Varljen, Robin
Cc: Martin, David W; Saueressig, Daniel G
Subject: RE: Stockpile Area Requests

Julian/Dan,

Thanks for all the clarification remarks concerning your request to add the three additional stockpile locations (SPA #1-3) indicated on the map Julian provided. Ecology approves these sites for temporary stockpile use in support of 100-D-50:6 and the high-priority chrome sites cleanup activities.

Kim Welsch

WA State Dept. of Ecology
Nuclear Waste Program
3100 Port of Benton Blvd
Richland, WA 99354-1670
MSIN: Ho-57
(509) 372-7882
kim.welsch@ecy.wa.gov

From: Laurenz, Julian E [mailto:jelauren@wch-rcc.com]
Sent: Saturday, March 19, 2011 3:23 PM
To: Boyd, Alicia (ECY); Varljen, Robin (ECY); Welsch, Kim (ECY)
Cc: Martin, David W; Saueressig, Daniel G
Subject: Stockpile Area Requests

Alicia/Robin/Kim,

3/24/2011

157340

How is it going? The purpose of this e-mail is to request additional ACL stockpile areas (SPAs) to support on-going and future activities. Specifically, we'll need the SPAs to support 100-D-50:6 and the high-priority chrome sites. Although SPAs were previously approved by Ecology during the design phase, these are considered preliminary drawings. The final SPAs are determined during the construction phase in the field, which is where we're at right now.

As you'll see on the attached sketch, I've highlighted three additional SPAs we need to support remediation activities (SPA #1, 2, 3). All these areas have been approved through our cultural and ecological process, and do not interfere with future remediations.

This will be the first of two e-mails you should be receiving over the next week requesting additional SPAs. The second e-mail involves using the 118-D-1 process cells for a future SPA. Since this site is currently going through the closeout process, this e-mail will be coming from Megan.

If you feel the SPAs are acceptable, I'd like to get approval by COB Thursday, March 24.

Thanks,
Julian

<<SPA Requests_3-19-11.PDF>>

NOTES

1. SEE DRAWING 01000-DD-00026 FOR GENERAL ABBREVIATIONS AND SYMBOLS LIST.
2. SUBCONTRACTOR TO INSTALL AIR MONITORS AND PROVIDE ELECTRICAL POWER TO AIR MONITOR STATIONS SHOWN AND MAINTAIN STATIONS IN COMPLIANCE WITH THE SUBCONTRACT DOCUMENTS, AIR MONITOR STATION EQUIPMENT PROVIDED BY CONTRACTOR. SUBCONTRACTOR TO MAINTAIN AIR MONITOR STATIONS FOR THE DURATION OF PROJECT.
3. NO PROJECT ACTIVITIES MAY TAKE PLACE, INCLUDING PEDESTRIAN TRAFFIC, OUTSIDE OF THE PROJECT LIMITS OR INSIDE EXCLUSION ZONE WITHOUT WRITTEN AUTHORIZATION FROM THE CONTRACTOR.
4. SUBCONTRACTOR SHALL SUPPLY SUPPORT TRAILERS THAT ARE IN ADDITION TO THE EXISTING CONTRACTOR SUPPORT TRAILERS. INSTALLATION SHALL BE COORDINATED WITH THE CONTRACTOR.
5. SUBCONTRACTOR SHALL SUPPLY SURVEY AND DECONTAMINATION STATION, DESIGN AND INSTALLATION SHALL BE COORDINATED WITH THE CONTRACTOR.
6. REMAINING SITE 100-D-31 NOT SHOWN FOR CLARITY. SEE DRAWING 01000-DD-00025 FOR 100-D-31. PRELIMINARY ORBALL SITE LOCATION PLAN.
7. WASTE SITE MIDS BOUNDARIES SHOWN EXCAVATION LIMITS OMITTED FOR CLARITY.
8. SEE DRAWING 01000-DD-00274 FOR SUPPORT FACILITIES.
9. SUBCONTRACTOR SHALL ONLY CROSS EXPORT WATER LINE WITH EQUIPMENT/VEHICLES AT ESTABLISHED CROSSINGS. SUBCONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL CROSSINGS ARE ADEQUATELY PROTECTED TO PREVENT UNINTERRUPTED OPERATION OF THE EXPORT WATER LINE IN ACCORDANCE WITH THE SUBCONTRACTOR DOCUMENTS.

Best Available Corp: W&H R & DC 23 C6

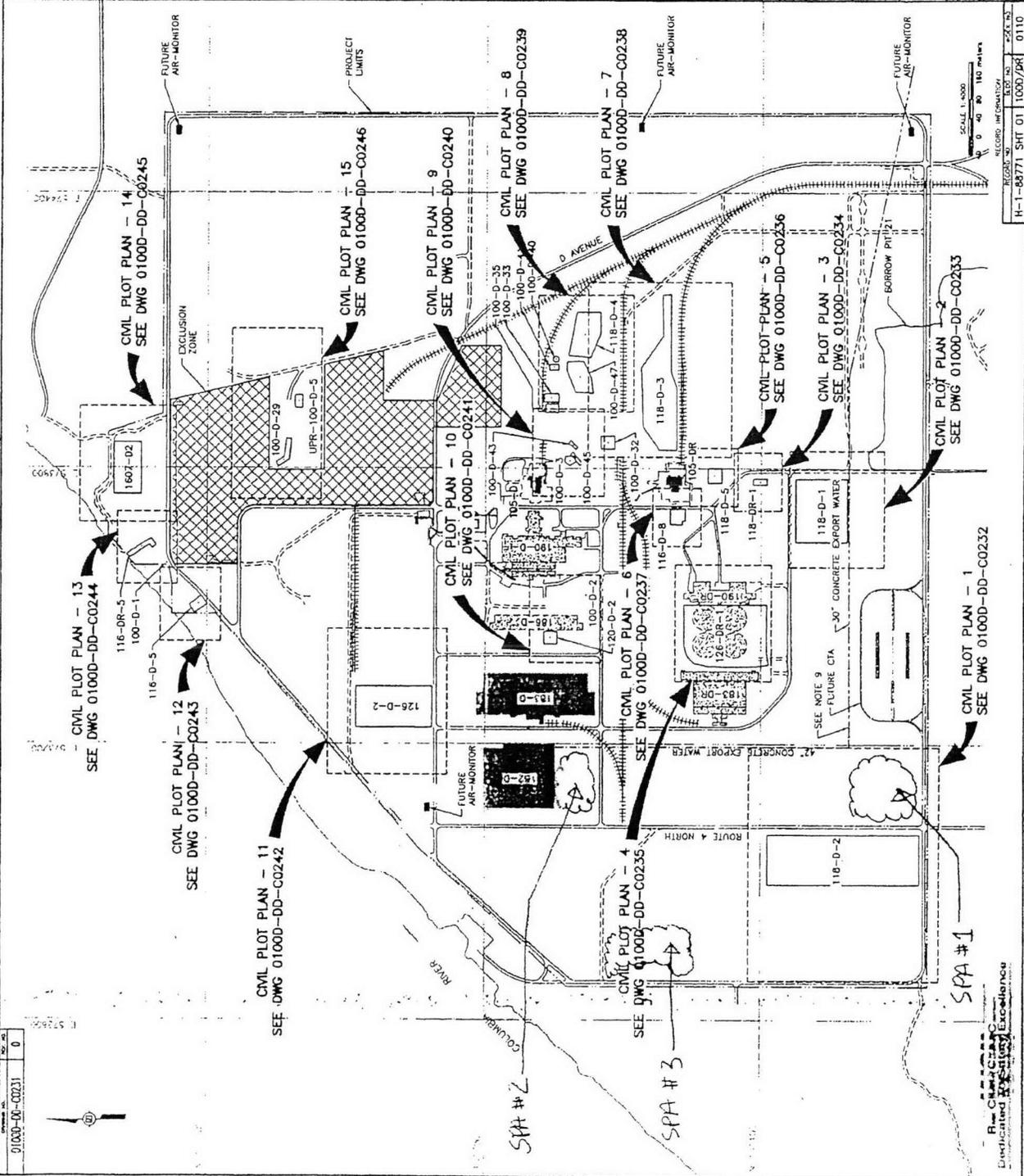
NO.	DATE	DESCRIPTION
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2	12/15/00	REVISED PER PERMITS
3	01/10/01	REVISED PER PERMITS
4	01/10/01	REVISED PER PERMITS
5	01/10/01	REVISED PER PERMITS
6	01/10/01	REVISED PER PERMITS
7	01/10/01	REVISED PER PERMITS
8	01/10/01	REVISED PER PERMITS
9	01/10/01	REVISED PER PERMITS
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17	01/10/01	REVISED PER PERMITS
18	01/10/01	REVISED PER PERMITS
19	01/10/01	REVISED PER PERMITS
20	01/10/01	REVISED PER PERMITS

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

WASHINGTON CLOSURE HANFORD LLC.
Federal Subsidiary

100 D/DR AREA
BURIAL GROUNDS AND REMAINING SITES
OVERALL WASTE SITE LOCATION PLAN

WCH JOB NO.	DC-AC05-056-14655	DWG NUMBER	10000231.DWG
TASK	1000	DRAWING NO.	01000-DD-C0231
REV. NO.	0		



RECORD NO. H-1-80771 SHT 01 1000/DR 0110
SCALE INFORMATION
DATE 11/16/00

Prepared by: [Name]
Checked by: [Name]
Electrical Engineering

Attachment 6

^WCH Document Control

157725

From: Saueressig, Daniel G
Sent: Monday, April 04, 2011 7:38 AM
To: ^WCH Document Control
Subject: 118-D-1 request to move overburden pile
Attachments: Request to relocate the overburden pile.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: Welsch, Kim (ECY) [mailto:KIWE461@ECY.WA.GOV]
Sent: Tuesday, March 22, 2011 2:51 PM
To: Proctor, Megan L; Saueressig, Daniel G
Cc: Boyd, Alicia; Laurenz, Julian E; Nielson, Renee J; Post, Thomas C; nina.menard@ecy.wa.gov; Varljen, Robin
Subject: RE: 118-D-1 request to move overburden pile

Megan,

Per the attachment provided, Ecology sees no problem with the overburden pile being used to backfill the 118-D-1 sorting cells. This would provide WCH with additional stockpile area, and reduce moving the material more than necessary.

Kim Welsch
WA State Dept. of **Ecology**
Nuclear **Waste Program**
3100 Port of Benton Blvd
Richland, WA 99354-1670
MSIN: HO-57
(509) 372-7882
kim.welsch@ecy.wa.gov

From: Proctor, Megan L [mailto:mlprocto@wch-rcc.com]
Sent: Monday, March 21, 2011 9:31 AM
To: Welsch, Kim (ECY)
Cc: Boyd, Alicia (ECY); Laurenz, Julian E; Nielson, Renee J
Subject: 118-D-1 request to move overburden pile

4/4/2011

157725

Hi Kim. Attached is a write up with two options related to an overburden pile that is situated on top of the 100-D-50:6 pipeline for your review. If you could take a look and let me know if you have any concerns it would be appreciated. The project has requested your response by COB 3/25/11.

Thanks.

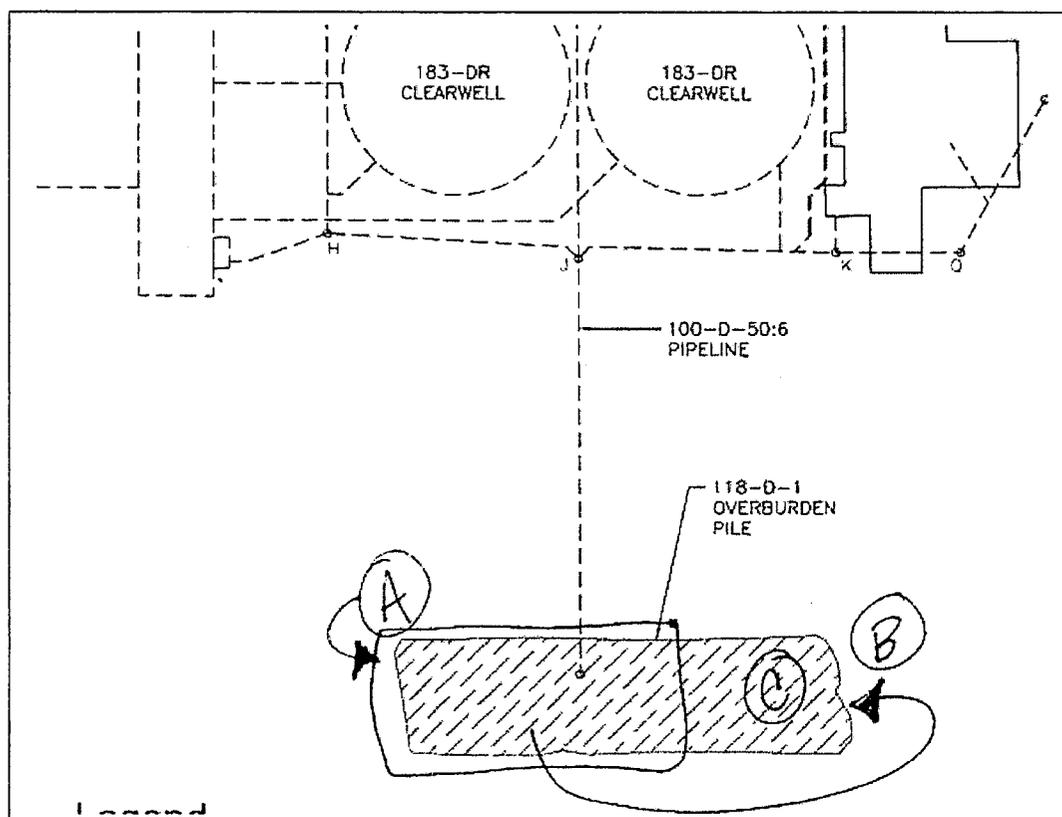
Megan

<<Request to relocate the overburden pile.doc>>

Request to relocate the 118-D-1 overburden soil stockpile

Remediation has started on the 100-D-50:6 pipeline subsite. A portion of the 118-D-1 overburden soil stockpile is located on top of the southern most section of the 100-D-50:6 pipeline subsite. A request is being made to relocate the overburden soil stockpile to provide access to the pipeline subsite for removal. The request includes two options.

- Relocate a portion of the overburden soil stockpile (marked A on figure) to the east end of the stockpile (marked B on figure), or place it on top of the east end of the stockpile (marked C on figure).
- Backfill the 118-D-1 sorting cells using the overburden material. This would provide the Field Remediation project additional area to stockpile the 100-D-50:6 material.



Statistical verification soil samples were collected over the surface of the overburden soil stockpile and from within the sorting cells. Evaluation of the statistical results (Tables 1 and 2) indicates that all COPCs were undetected and/or quantified below RAGs and lookup values with the exception of benzo(b)fluoranthene in the overburden soil stockpile. However, based on RESRAD modeling discussed in Appendix C of the *Remedial Design Report/Remedial Action Work Plan for the 100 Area*, residual concentrations are expected to show no vadose zone migration within 1,000 years (based on the benzo(b)fluoranthene distribution coefficient of 803 mL/g) and will not impact groundwater or the Columbia River.

Table 1. Comparison of Statistical Contaminant Concentrations to Action Levels for the 118-D-1 Overburden Stockpile Verification Sampling. (2 Pages)

COC/COPC	Statistical Result ^b (pCi/g)	Site Lookup Values ^a (pCi/g)			Does the Statistical Result Exceed Lookup Values?	Does the Statistical Result Pass RESRAD Modeling?
		Shallow Zone Lookup Value	Groundwater Protection Lookup Value	River Protection Lookup Value		
Cesium-137	0.0393 (<BG)	6.2	1,465	2,930	No	--
Tritium	0.0151	459	12.6	25.2	No	--
Uranium-233/234	0.704 (<BG)	1.1 ^c	1.1 ^c	1.1 ^c	No	--
Uranium-238	0.719 (<BG)	1.1 ^c	1.1 ^c	1.1 ^c	No	--
COC/COPC	Statistical Result ^b (mg/kg)	Remedial Action Goals ^a (mg/kg)			Does the Statistical Result Exceed RAGs?	Does the Statistical Result Pass RESRAD Modeling?
		Direct Exposure	Soil Cleanup Level for Groundwater Protection	Soil Cleanup Level for River Protection		
Arsenic	3.0 (<BG)	20	20	20	No	--
Barium	70.4 (<BG)	5,600	200	400	No	--
Boron ^d	1.4	7,200	320	-- ^e	No	--
Cadmium	0.064 (<BG)	13.9 ^f	0.81 ^g	0.81 ^g	No	--
Chromium (total)	9.9 (<BG)	80,000	18.5 ^g	18.5 ^g	No	--
Cobalt	7.3 (<BG)	24	15.7 ^g	-- ^e	No	--
Copper	15.0 (<BG)	2,960	59.2	22.0 ^g	No	--
Hexavalent Chromium	0.382	2.1 ^f	4.8	2	No	--
Lead	3.9 (<BG)	353	10.2 ^g	10.2 ^g	No	--
Manganese	305 (<BG)	3,760	512 ^g	512 ^g	No	--
Mercury	0.0073 (<BG)	24	0.33 ^g	0.33 ^g	No	--
Molybdenum ^d	0.76	400	8	-- ^e	No	--
Nickel	11.6 (<BG)	1,600	19.1 ^g	27.4	No	--
Vanadium	50.4 (<BG)	560	85.1 ^g	-- ^e	No	--
Zinc	38.4 (<BG)	24,000	480	67.8 ^f	No	--
TPH-diesel range	1.3	200 ^h	200 ^h	200 ^h	No	--
Benzo(b) fluoranthene	0.120	1.37	0.015 ⁱ	0.015 ⁱ	Yes	Yes ^j
Bis(2-ethylhexyl) phthalate	0.224	71.4	0.6	0.36	No	--

Table 1. Comparison of Statistical Contaminant Concentrations to Action Levels for the 118-D-1 Overburden Stockpile Verification Sampling. (2 Pages)

COC/COPC	Statistical Result ^b (mg/kg)	Remedial Action Goals ^a (mg/kg)			Does the Statistical Result Exceed RAGs?	Does the Statistical Result Pass RESRAD Modeling?
		Direct Exposure	Soil Cleanup Level for Groundwater Protection	Soil Cleanup Level for River Protection		
Butylbenzyl phthalate	0.110	16,000	320	250	No	--
Dimethyl phthalate	0.046	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-1 Cleanup Verification 95% UCL Calculations* (Appendix C).

^c The remedial action goal is below the Hanford Site-specific soil background concentration. The value presented is the Hanford Site-specific soil background concentration.

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

^e 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]).

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

^g Where cleanup levels are less than background, cleanup levels default to background per WAC 173-340-700[4][d] (Ecology 1996).

^h The soil cleanup value for TPH is from WAC 173-340-740(2), Table 2, "Method A Cleanup Levels Soil" (Ecology 1996), for diesel and other.

ⁱ Where cleanup levels are less than RDLs, cleanup levels default to RDLs per WAC 173-340-707(2) (Ecology 1996) and (DOE-RL 2009b).

^j Because the K_d value for this contaminant is greater than 80 mL/g, RESRAD modeling discussed in Appendix C of the RDR/RAWP (DOE-RL 2009) predicts the contaminant will show no vadose zone migration within 1,000 years and will not impact groundwater or the Columbia River.

-- = not applicable

BG = background

COC = contaminant of concern

COPC = contaminant of potential concern

Ecology = Washington State Department of Ecology

RAG = remedial action goal

RESRAD = RESidual RADioactivity (dose assessment model)

RDL = required detection limit

TPH = total petroleum hydrocarbons

UCL = upper confidence limit

WAC = *Washington Administrative Code*

Table 2. Comparison of Statistical Contaminant Concentrations to Action Levels for the 118-D-1 Sorting Cell Verification Sampling. (2 Pages)

COC/COPC	Statistical Result ^b (pCi/g)	Site Lookup Values ^a (pCi/g)			Does the Statistical Result Exceed Lookup Values?	Does the Statistical Result Pass RESRAD Modeling?
		Shallow Zone Lookup Value	Groundwater Protection Lookup Value	River Protection Lookup Value		
Carbon-14	0.221	8.69	-- ^c	-- ^c	No	--
Tritium	0.747	459	12.6	25.2	No	--
Uranium-233/234	0.772 (<BG)	1.1 ^d	1.1 ^d	1.1 ^d	No	--
Uranium-238	0.744 (<BG)	1.1 ^d	1.1 ^d	1.1 ^d	No	--

Table 2. Comparison of Statistical Contaminant Concentrations to Action Levels for the 118-D-1 Sorting Cell Verification Sampling. (2 Pages)

COC/COPC	Statistical Result ^b (mg/kg)	Remedial Action Goals ^a (mg/kg)			Does the Statistical Result Exceed RAGs?	Does the Statistical Result Pass RESRAD Modeling?
		Direct Exposure	Soil Cleanup Level for Groundwater Protection	Soil Cleanup Level for River Protection		
Arsenic	2.7 (<BG)	20	20	20	No	--
Barium	76.4 (<BG)	5,600	200	400	No	--
Beryllium	0.20 (<BG)	10.4 ^c	1.51 ^f	1.51 ^f	No	--
Boron ^g	1.2	7,200	320	-- ^h	No	--
Chromium (total)	10.5 (<BG)	80,000	18.5 ^f	18.5 ^f	No	--
Cobalt	7.2 (<BG)	24	15.7 ^f	-- ^h	No	--
Copper	18.9 (<BG)	2,960	59.2	22.0 ^f	No	--
Lead	3.7 (<BG)	353	10.2 ^f	10.2 ^f	No	--
Manganese	283 (<BG)	3,760	512 ^f	512 ^f	No	--
Mercury	0.0067 (<BG)	24	0.33 ^f	0.33 ^f	No	--
Molybdenum ^g	0.31	400	8	-- ^h	No	--
Nickel	12.2 (<BG)	1,600	19.1 ^f	27.4	No	--
Vanadium	54.0 (<BG)	560	85.1 ^f	-- ^h	No	--
Zinc	38.1 (<BG)	24,000	480	67.8 ^f	No	--
TPH- diesel range	3.4	200 ⁱ	200 ⁱ	200 ⁱ	No	--
Bis(2-ethylhexyl) phthalate	0.068	71.4	0.6	0.36	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-1 Cleanup Verification 95% UCL Calculations* (Appendix C).

^c No value; because the distribution coefficient (K_d) value for this contaminant is greater than 80 mL/g RESRAD modeling discussed in Appendix C of the RDR/RAWP (DOE-RL 2009) predicts the contaminant will show no vadose zone migration within 1,000 years and will not impact groundwater or the Columbia River.

^d The remedial action goal is below the Hanford Site-specific soil background concentration. The value presented is the Hanford Site-specific soil background concentration.

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

^f Where cleanup levels are less than background, cleanup levels default to background per WAC 173-340-700[4][d] (Ecology 1996).

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

^h 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]).

ⁱ The soil cleanup value for TPH is from WAC 173-340-740(2), Table 2, "Method A Cleanup Levels Soil" (Ecology 1996), for diesel and other.

-- = not applicable

BG = background

COC = contaminant of concern

COPC = contaminant of potential concern

Ecology = Washington State Department of Ecology

RAG = remedial action goal

RESRAD = RESidual RADioactivity (dose assessment model)

TPH = total petroleum hydrocarbon

UCL = upper confidence limit

WAC = Washington Administrative Code

Attachment 7

^WCH Document Control

From: Saueressig, Daniel G
 Sent: Thursday, March 24, 2011 8:05 AM
 To: ^WCH Document Control
 Subject: FW: FW: REQUEST FOR EXTENSION OF THE 118-D-3:2 ANOMALY STAGING AREA

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

Thanks,

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

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

From: Buelow.Laura@epamail.epa.gov [mailto:Buelow.Laura@epamail.epa.gov]
 Sent: Wednesday, March 16, 2011 9:55 AM
 To: Welsch, Kim (ECY)
 Cc: Boyd, Alicia; Saueressig, Daniel G; Martin, David W; Seiple, Jacqueline; Proctor, Megan L; Post, Thomas C
 Subject: Re: FW: REQUEST FOR EXTENSION OF THE 118-D-3:2 ANOMALY STAGING AREA

EPA concurs with extension of the staging pile.

Laura Buelow, Environmental Scientist
 U.S. Environmental Protection Agency
 Hanford Project Office
 309 Bradley Blvd, Suite 115
 Richland, WA 99352
 Phone: 509 376-5466
 Fax: 509 376-2396
 E-mail: buelow.laura@epa.gov

From: "Welsch, Kim (ECY)" <KIWE461@ECY.WA.GOV>
 To: "Saueressig, Daniel G" <dgsauere@wch-rcc.com>
 Cc: "Boyd, Alicia (ECY)" <aboy461@ecy.wa.gov>, "Post, Thomas C" <thomas.post@rl.doe.gov>, <dwmartin@wch-rcc.com>, "Proctor, Megan L" <mlprocto@wch-rcc.com>, Laura Buelow/R10/USEPA/US@EPA, "Seiple, Jacqueline (ECY)" <jash461@ecy.wa.gov>
 Date: 03/16/2011 06:48 AM
 Subject: FW: REQUEST FOR EXTENSION OF THE 118-D-3:2 ANOMALY STAGING AREA

Dan,

It was enjoyable meeting with you and some of your co-workers yesterday during Robin's 'Round Robin' tour. After seeing the 118-D-3:2 Anomaly Staging Area, Ecology agrees to a 6 month extension from 3/18/11 for this staging area to be used in its current capacity. Have a great day!

Kim Welsch

WA State Dept. of Ecology

Nuclear Waste Program

3100 Port of Benton Blvd

Richland, WA 99354-1670

MSIN: H0-57

(509) 372-7882

Kim.welsch@ecy.wa.gov

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, March 09, 2011 6:44 AM
To: Buelow.Laura@epamail.epa.gov
Cc: Boyd, Alicia (ECY); Varljen, Robin (ECY); Post, Thomas C
Subject: REQUEST FOR EXTENSION OF THE 118-D-3:2 ANOMALY STAGING AREA

Hi Laura, I'd like to request an operating term extension for the 118-D-3:2 anomaly staging area approved in March 2009 (see attached approval). Per Section 4.5.2 of the RDR/RAWP (DOE/RL-96-17, Revision 6), a staging pile must not operate for more than 2 years, except when the EPA grants an operating term extension. In accordance with the RDR/RAWP and 40 CFR 264.554(i), WCH would like to request a 6 month extension for this staging area. The original approval of this staging area was granting on 3/18/09, and this extension request is needed to finish characterization activities for the anomalous waste remaining in the area to support final disposition of the waste. I sent Alicia Boyd an email letting her know I would be requesting this extension, so hopefully Ecology concurs with allowing this extension.

Thanks, let me know if you approve this request and I'll document the approval at the next UMM.

Dan Saueressig

FR Environmental Project Lead

Washington Closure Hanford

521-5326

<<100-D ANOMALY AREA APPROVAL.pdf>> [attachment "100-D ANOMALY AREA APPROVAL.pdf" deleted by Laura Buelow/R10/USEPA/US]

Attachment 8

**Approval to Treat the 128-H-1 Lead Contaminated Soil in
Accordance with the "TREATMENT PLAN AND
PROTOCOL FOR TREATMENT OF LEAD
CONTAMINATED SOILS, WCH-252, Rev. 2"**

This approval applies to lead contaminated soil from the 128-H-1 burn pit as described under waste profile WP128H1004, Revision 1. The waste matrix consists mainly of soil. Sample# J1B8D5 had a high of 18.3 mg/L TCLP Lead.

The waste is similar to the material treated in "*TREATMENT PLAN AND PROTOCOL FOR TREATMENT OF LEAD CONTAMINATED SOILS, WCH-252, Rev. 2*". Refer to attached discussion for additional details

This approval allows treatment of this waste using the recipe described in Table 1, *Bench-Scale Test Results (Including Results and Reduction Ratios)* of the treatment plan under Mixture 2, which limits the TCLP Lead to 23.6 mg/L.



Nina Menard
Washington Department of Ecology

4-12-11
Date



Joanne Chance
U.S. Department of Energy

4-12-11
Date

Summary of Material Proposed for Treatment

During remediation of the 128-H-1 burn pit, lead contaminated soil was encountered on the western sideslope of the excavation that exceeded land disposal restriction requirements. It is estimated that this material amounts to approximately 45 bank cubic meters of waste. Analysis of the material indicated that it had a concentration of lead at 18.3 mg/L TCLP with no other underlying hazardous constituents identified. WCH requests approval to use Mixture 2 identified in Table 1 of WCH-252 to treat this material.

It is believed this waste fits the profile for treatment under this plan due to the composition of the waste (primarily soil). In addition, the lead concentration of the original pure waste matrix (18.3 mg/L) is less than the concentration that was tested in Mixture 2 (23.6 mg/L) of WCH-252. Results of bench scale treatment of Mixture 2 indicates that at a concentration of 23.6 mg/L, a reduction factor of 694:1 was achieved, which is orders of magnitude greater than required by the regulations.

Attachment 9

D4

100N River Structures (181N, 181NE, 1908NE): With the exception of the superstructure (diesel pumphouse) on the 181N, removal of equipment (e.g., pumps, traveling screens) from the river structures is complete and the cranes used for the work have been demobilized. The superstructure removal has been delayed to facilitate nearby remediation activities. A Request for Proposal has been prepared and sent out soliciting bids (due next week) for sediment removal from the structures. Bench installation is still scheduled for the late summer "in water" work window pending completion of agency consultations. NMFS and USFWS have received the current design information and revised Biological Assessment, which reflect the inclusion of shallow habitat restoration as mitigation for potential ecological impacts. They will each develop a Biological Opinion, and have verbalized their intent to complete the review process to support the project schedule. The Federal Archaeologist at RL will advise WCH regarding the need to revise the cultural resource plan, given that the changes to the design do not change the "area of potential effect" identified in the NHPA Section 106 review. The Draft DQO/SAP is still under review with Ecology.

182N High Lift Pumphouse: Repairs to gantry crane successful. Asbestos abatement activities have resumed.

105N Fuel Storage Basin (FSB): Above grade demolition of FSB almost complete. Below grade demo began approximately 2 weeks ago and is proceeding with the demo of the concrete cover plates and upper portions of the walls (over the basin) working from west to east.

117-N Exhaust Air Filter House: Above grade demolition of 117N almost complete. Demolition and load out of tunnels north of 117N continues. Completion expected in July with start of 105NE Fission Product Trap soon after.

Other Temporary Structures: Subcontractor office trailers and equipment previously stationed south of the 109N have been relocated and that area is now available for FR to begin remediation of below grade pipelines. Buildings 186N and 1902N, also south of 109N, have been demolished above grade.

ISS/SSE

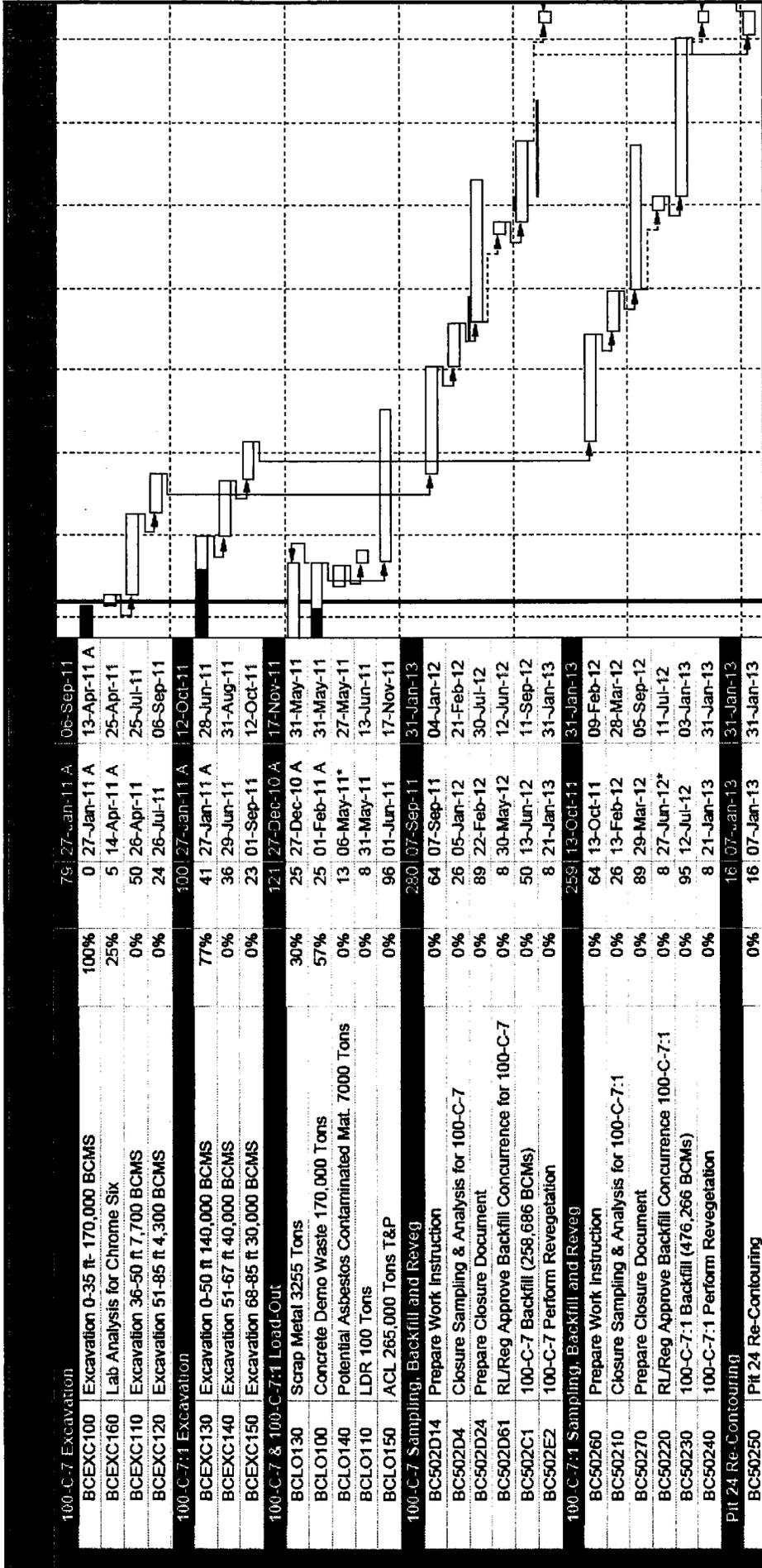
105N Reactor Building: Anchor bolt installation and steel erection continues on roof of 105N. Structural steel to support 105N roof continues to arrive on site.

109N Heat Exchanger Building: Installation of pressurizer roof almost complete. Lower roof is complete with only a few minor punch list items remaining.

Attachment 10



Field Remediation 100-C-7



ISSUE / CONCERNS

Milestones

PM - 31

Due Date

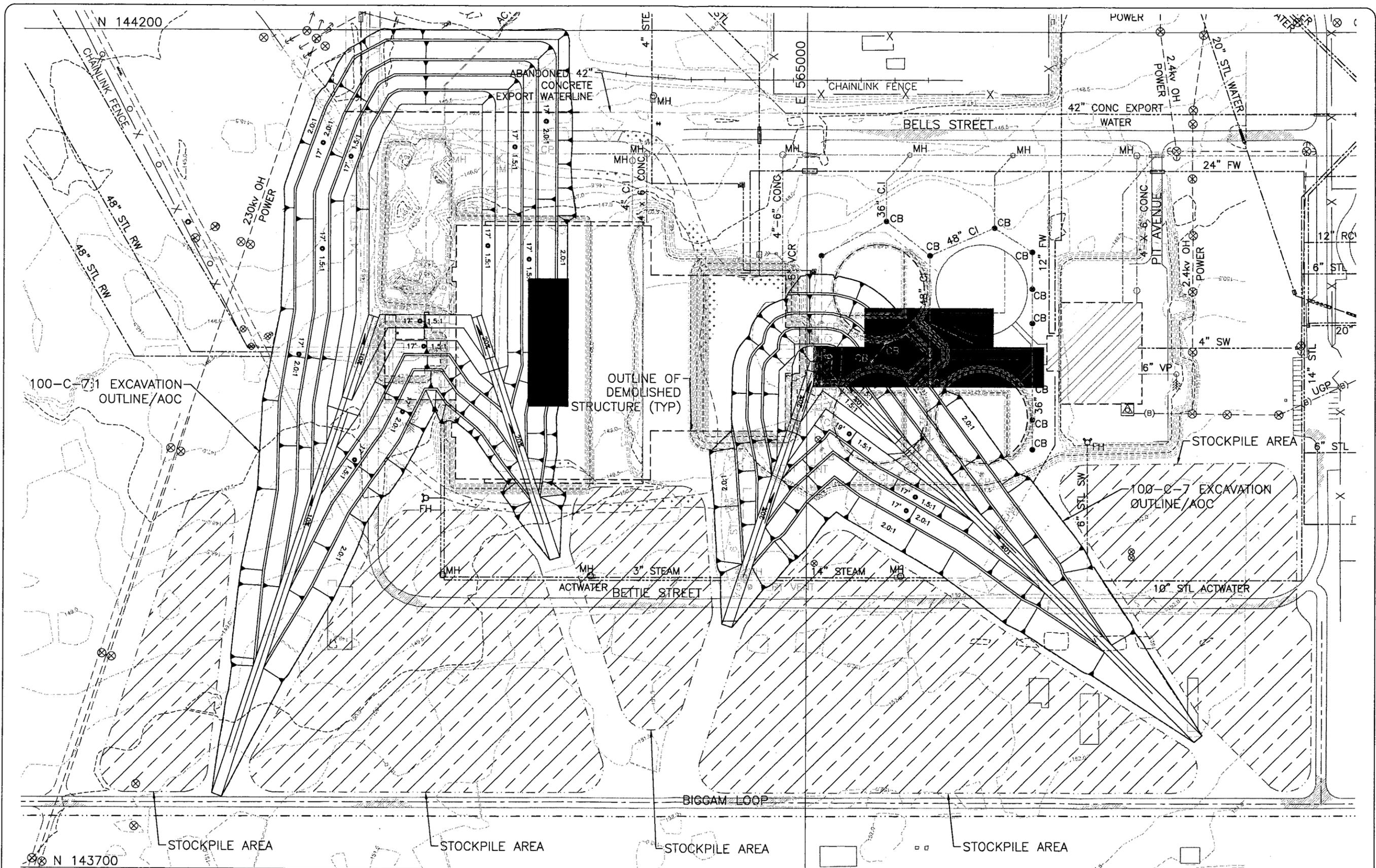
6/30/2013

Status

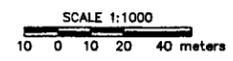
6/30/2013 F

ACTIVITIES / ACTIONS SUPPORTING SCHEDULE

- Continue to transport 100-C-7 and 100-C-7:1 concrete demo material to U-Canyon.
- Based on field instruments, 100-C-7 appears to meet clean-up goals at ~40 feet. Lab analysis pending.



OVERALL SITE PLAN
 100-C-7 / 100-C-7:1
 SCALE: 1:1000

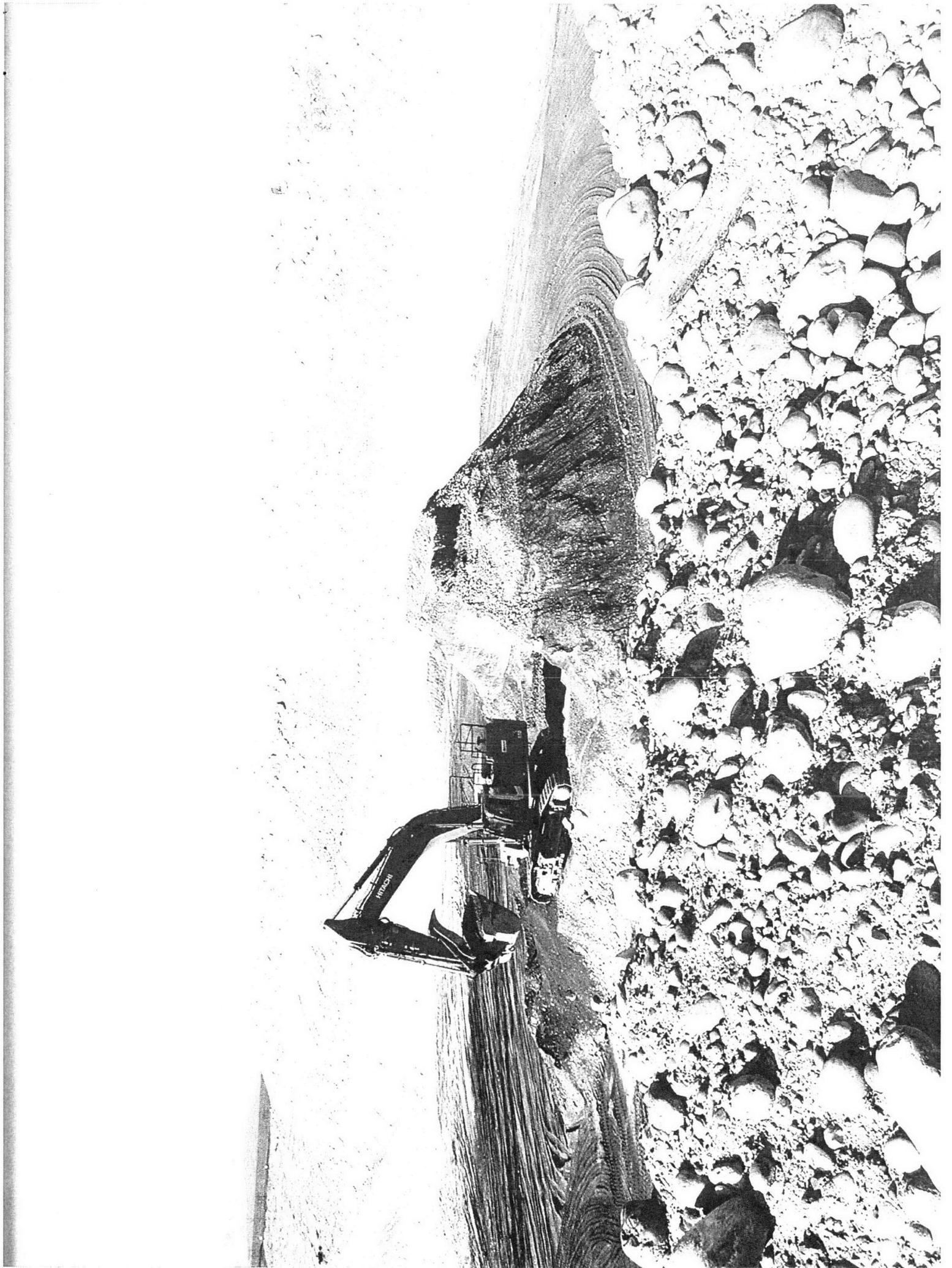


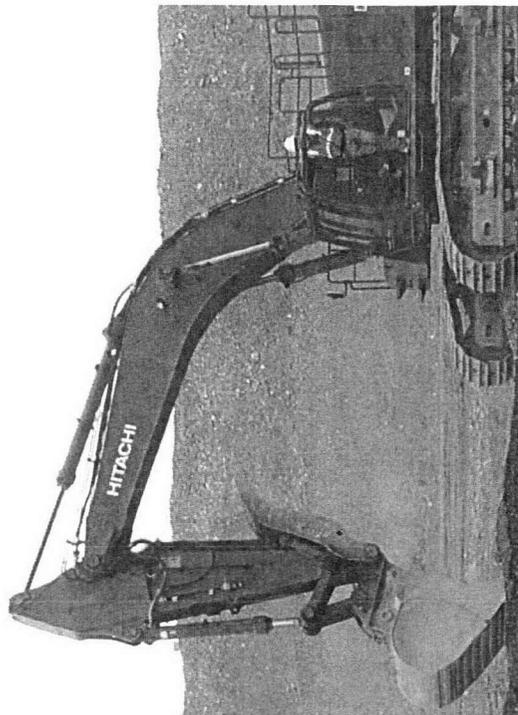


Attachment 11

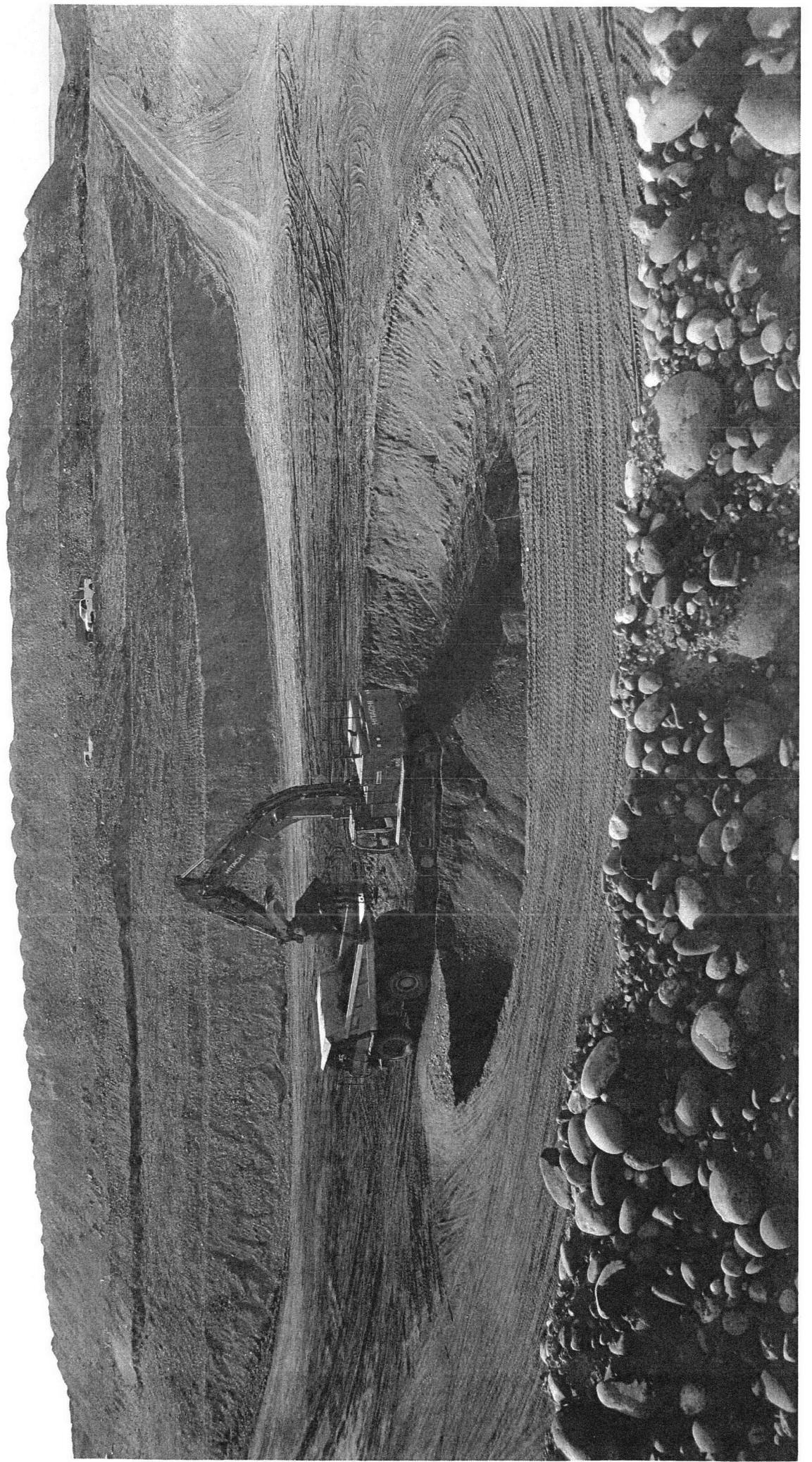








04.11.2011





Attachment 12

300 Area Field Remediation Status
April 14, 2011

Current activities

- Continued excavation, loadout and demo at 321
- Continued excavation and loadout at 3706
- Continued background and preparatory work to support risk evaluation of hazardous waste sites left in place for retained facilities
- Initiated geoprobe work at 340 for gross-gamma measurements at foundation of 340 vault

Monthly look ahead

- Continue excavation, demo and loadout at 321
- Continue loadout and demo at 3706
- Continue background and preparatory work to support risk evaluation of hazardous waste sites left in place for retained facilities
- Obtain gross-gamma measurements at foundation of 340 vault

Attachment 13

300 Area D4 Status
April 14, 2011
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 324 – Preparing to mobilize subcontractor to perform additional characterization pushes under B Cell to confirm vertical distribution of source-term.
- 327 – Continue below-grade demolition and preparations for lower SERF cell and dry carousel removal.
- 309 – Initiated wire sawing to remove remainder of containment structure to grade. Engineering on reactor core removal ongoing. RFP issued for reactor core removal.
- 308 – Glove box removal and shipment campaign nearing completion. Zone 1 duct removal to commence.
- 340 – Initiated decontamination and hazardous material removal. RFP issued for vault and vault tank removal.
- Continue size reduction and processing of 337 High Bay demolition debris in preparation for CRCTA vessel removal.

Current Demolition Preparations & Activities

- Continue 327 below-grade demolition.
- Continue demo preparations for 308
- Continue preparations for 309 reactor core removal

60-Day Project Look Ahead

- Continue evaluation/characterization of source-term beneath 324 Building.
- Complete shipment of 308 glove-boxes, initiate Zone 1 duct removal, initiate removal of ACM duct on roof.
- Continue planning and engineering on final group of delayed release facilities from PNNL (326, 329, 320, 331C, D, H &G). Initiated planning, documentation, and characterization activities for demolition.
- Remove lower SERF Cell and dry storage carousel from 327 basement.
- Initiate demolition of 340B.

Attachment 14

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN-449	TPA CHANGE NOTICE FORM	Date: 04/13/2011
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Document Number, Title, and Revision: DOE/RL-2009-30, 300 Area Remedial Investigation/Feasibility Study Work Plan for the 300-FF-1, 300-FF-2, and 300-FF-5 Operable Units, Rev. 0	Date Document Last Issued: April 2010
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Originator J.P. Sands	Phone: 372-2282
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Description of Change:
Adds text to the 300 Area RI/FS Work Plan regarding an alternative fate and transport model available to use in the 300 Area remedial investigations.

B. L. Charboneau and L. E. Gadbois (EPA) agree that the proposed change modifies an **DOE Lead Regulatory Agency** approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

The following text is added to the 300 Area Remedial Investigation/Feasibility Study Work Plan, Section 5.6 Task 6-Assessment of Risk:

The STOMP modeling code will be used in 300 Areas RI/FS documents to evaluate impacts of vadose zone contaminant concentrations on the groundwater aquifer and the Columbia River. Models will be constructed using a graded approach. Modeling assumptions, methods, and results will be documented in a vadose zone modeling package report, which will be included as an appendix in the 300 Area RI/FS report.

Note: This change is to page 5-8.

Justification and Impacts of Change:
This change notice supports the RI/FS process for the 300 Areas and approves the use of the STOMP model as an alternative fate and transport model to establish soil cleanup levels that are protective of groundwater and surface water resources. The modeling results will be used to evaluate the risk of contamination and inform the formulation of appropriate remedy options that will achieve protectiveness of human health and the environment.

Approvals:

	4-13-2011	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
DOE Project Manager	Date	
	April 14, 2011	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager	Date	
NA		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager	Date	

Attachment 15

Environmental Protection Mission Completion Project
April 14, 2011

Orphan Sites Evaluations

- Meeting to review the findings of the 100-F/IU-2/IU-6 Area – Segment 4 orphan sites process was conducted with EPA on 4/13/11. A meeting with Ecology is scheduled for 4/18/11.
- The field investigation task for 100-F/IU-2/IU-6 – Segment 5 continues and is anticipated to be completed by the end of April.

Long-Term Stewardship

- Continued working with RL, MSA, and CHPRC regarding the 100-F/IU-2/IU-6 - Segment 1 turnover and transition package to support transition of interim surveillance and maintenance responsibilities between contractors.
- Continue with the development of the remedial action report for 100-F/IU-2/IU-6 Segment 1.
- Continue with the development of the remedial action report for the 100-BC-1 OU.

River Corridor Baseline Risk Assessment

- The Draft C Ecological Risk Assessment report is being finalized to reflect RL pre-concurrence review comments. DOE has provided proposed Ecological PRGs to EPA and Ecology for their review. A meeting to discuss the PRGs and receive feedback was held on April 12, 2011.
- The Draft C Human Health Risk Assessment report was transmitted to EPA and Ecology for review in late December 2010. EPA comments were submitted to DOE on February 8, 2011. Ecology comments were submitted to DOE on April 4, 2011. The Yakama Nation also submitted comments to DOE on February 28, 2011. The comments are currently being reviewed for incorporation into the Rev 0 document.

Remedial Investigation of Hanford Releases to Columbia River

- DOE is presently reviewing the Decisional Draft Ecological risk assessment.
- The draft Decisional Draft Human Health risk assessment is being reviewed and finalized by WCH.

Document Review Look-Ahead

Document	Regulator Review Start	Duration
River Corridor Baseline Risk Assessment – Ecological Report (DOE/RL-2007-21, Volume I)	June 2011	45 days
100-F/IU-2/IU-6 - Segment 4 Orphan Sites Evaluation Report	June 2011	30 days
100-F/IU-2/IU-6 Area – Segment 1 Interim Remedial Action Report	May 2011	30 days
100-BC-1 Operable Unit Interim Remedial Action Report	June 2011	30 days
Columbia River Component Risk Assessment – Screening Level Ecological Risk Assessment Report (DOE/RL-2010-117, Volume I)	July 2011	45 days
Columbia River Component Risk Assessment – Human Health Risk Assessment Report (DOE/RL-2010-117, Volume II)	September 2011	45 days