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Hanford Natural Resource Trustee Meeting

Richland, Washington

Ecology Office Building

October 30 and 31, 2007

October 30, 2007

<u>Time</u>	<u>Topic</u>	<u>Lead</u>
1:00 – 1:30	Administration	Bohnee
	a. Administrative	DOE
1:30 – 2:30	Old Business/Updates	Bohnee
	a. Accomplishments Booklet	Landeen
	b. Facilitation	all
	c. River Corridor Status	Sands
	d. Groundwater Status	Thompson
	e. Central Plateau Status	Foley
2:30 – 2:40	Break	
2:40 – 3:00	HCP-EIS Supplement Analysis Status	Foley
3:00 – 3:30	Budget	Hawkins
	a. Funds for NRDA contractor	
	b. Funds for Trustee participation	
	c. Mechanisms to transfer funds	
	d. Budget request for FY 2010	
3:30 – 4:30	Borrow Pit C	Leary/others

October 31, 2007

<u>Time</u>	<u>Topic</u>	<u>Lead</u>
8:00 – 8:15	Administration	Bohnee
8:15 – 9:00	Mitigation Discussions a. WCH b. Fluor c. USFWS	all TBD Johnson Newsome
9:00 – 9:15	PNSO, status New Construction	Erickson
9:15 – 9:40	NRDA Credit	Ward
	Subtopics: a. Advisory board for SEPs* b. A broader ERWG**	Harper
9:40 – 10:00	Break	
10:00 – 10:30	MOA for doing NRDA	Bohnee
10:30 – 11:30	Strategic Planning	Shaffer
	a. Ecology on future events of NRTC concern b. EPA on future events of NRTC concern c. DOE on future events of NRTC concern	Price Gadbois TBD
11:30 - 1:00	Lunch	
1:00 – 3:00	Strategic Planning	Shaffer

*SEP is an acronym for supplemental environmental project. Usually the result of a “fine” to a DOE contractor.

**ERWG is an acronym for Ecological Resources Working Group. It is composed of stakeholders, contractors and DOE personnel.

**Natural Resource Trustee Council
Meeting Summary
September 12, 2007
Richland, Washington**

Participants:

CTUIR	WDOE
Barbara Harper	Larry Goldstein
Rico Cruz	
NPT	WDFW
Gabriel Bohnee	Charlene Andrade
Dan Landeen	
Sandra Lilligren	
Michael Lopez	
ODOE	YN
Susan Hughs	Jay McConnaughey
Paul Shaffer	Russell Jim
John Gear	Brian Barry (telephone)
	Ray Givens (telephone)
USFWS	USDOE
Jim Hansen	
	Dana Ward, RL
	Jamie Zeisloft, RL
USEPA	Al Hawkins, RL
Larry Gadbois	Kevin Clarke, RL (present during the day)
	Frances SiJohn, RL (present during the day)
Avocet	
Teresa Michelsen	

September 12, 2007

Welcome

Barbara Harper welcomed the attendees of the Assessment Plan Workshop to a special mini-meeting of the Natural Resources Trustees. The basic purpose of the meeting is to select a future meeting date for a regular Trustee Council Meeting and transfer of the Chair position per the Hanford Natural Resources Trustee Council By-laws.

March and June Meeting Summaries

The March and June 19 and 20, 2007 meeting summaries were approved by the attendees with one caveat that Oregon would review the meeting summaries and serious concerns, if any would be raised at the next Trustee Council Meeting. It was also noted that the letter "e" should replace the letter "o" in Pam Larsen's last name. The meeting summaries will be corrected.

NRTC Background, History and Accomplishments Booklet

The Trustee Council determined that the document "Background, History and Accomplishments" booklet was in a form suitable for publication. It was suggested that the current information be added to the book to bring it up to date. Dan Landeen said that he would be able to take care of the update. Jay McConnaughey requested that some changes be made to the text. The recommended changes will be sent to Dan by Jay to be incorporated. It was not determined if an additional review would be made prior to printing.

Dan will work with Dana Ward on publication of the document when the changes and updates are made.

Next Trustee Meeting

The Council determined that the next Trustee meeting should be held in Richland on Monday, October 29 and Wednesday, October 31, 2007 till noon. No start time was selected for the 29th.

It was suggested that the following topics be covered at the next meeting:

- Borrow Pit C
- What happened at the Ecological Resources Working Group meeting
- MOA for doing NRDA
- Some strategic planning
 - Possible 2 to 3 hours of planning
 - Presentations by Ecology, EPA and RL on future events

Changing of Officers

Barbara Harper transferred the Chair to Gabriel Bohnee. Both gave brief outgoing and incoming remarks. Barbara was presented with a beautiful Pendleton Blanket as a going out of office gift from the Trustees. The Trustees thanked Sandra Lilligren for her work in acquiring the blanket.

The Trustees resumed work on the workshop directly after the brief Council Meeting.

Ward, Dana C

From: Ward, Dana C
Sent: Monday, October 29, 2007 4:16 PM
To: Ward, Dana C
Subject: FW: Sources Sought Notice

RFQ ID: **RFQ252256**

RFQ Title: NRDA Injury Assessment Plan

RFQ Issue Date: 10/26/2007 03:59:46 PM EDT

RFQ Close Date: 11/15/2007 07:00:00 PM EST (Time Remaining: 17D 10H 56M)

Delivery: Date of Award to Date of Completion

Reference #:

Category: 899: 899 1

Contact: JENNIFER CHRISTENSEN
 Department of Energy

chrij@rl.gov

Description: This announcement constitutes an official Sources Sought announcement. This notice does not constitute a commitment by the Government. The Department of Energy (DOE) anticipates soliciting proposals in January 2008 from GSA e-buy for a Natural Resource Damage Assessment Plan (NRDA) for the Hanford Site. At present, DOE is seeking industry interest in providing these services as available through GSA. DOE intends to procure these services through the award of a single, performance-based, labor-hour not-to-exceed price, service prime contract. It is requested that your response include a summary of your capabilities relative to the work summarized in the attached "Summary of Work" as available through your GSA contract. Your summary should briefly address your NRDA experience, and your experience working with stakeholders such as the Trustees identified in the attached "Summary of Work." Firms should consider any organizational conflicts of interest as addressed by FAR 9.5. Responses to this Sources Sought announcement should be submitted no later than close-of-business, Thursday, November 15, 2007.

The decision whether to issue an RFP for the work described in this notice is solely within DOE's discretion. Please note that this notice is not a request for proposals. The Government will not pay for the information requested herein, nor will it compensate any respondent for any costs incurred in developing information provided to the Government in response to this Sources Sought announcement.

Please send comments to Jennifer Christensen, Contract Specialist, through GSA e-buy or by email to: Jennifer_Christensen@rl.gov. For questions, please contact Jennifer Christensen at the above email or by phone at: (509) 373-1046.

Additional information on the Hanford Site can be found at <http://www.hanford.gov>.

Buyer Documents:

[Summary of Work](#)

Entire buyer document is captured below...

Summary of Work

The contractor shall prepare an Injury Assessment Plan in accordance with the United States Department of Interior (DOI) regulations for a NRDA Type B assessment. This assessment planning process shall be designed to address the natural resources listed in the DOI NRDA regulations. This process will also identify opportunities for early restoration and be flexible enough to allow for such restoration when the opportunity arises and the data support it.

The objective of this Hanford NRDA assessment planning effort is to, in collaboration with all Trustees, produce an Injury Assessment Plan for potentially injured natural resources caused from releases of hazardous substances from the Hanford Site, all as defined by the federal CERCLA statute and the DOI NRDA regulations (42USC 9601 et seq., 43 CFR Part 11). The Hanford Trustees are DOE, DOI and the U.S. Department of Commerce; the states of Washington and Oregon; and the Yakama Nation, the Confederated Tribes of the Umatilla Indian Reservation and the Nez Perce Tribe. The plan shall describe a holistic, site-wide approach for injury assessment related to releases from the Hanford Site. The plan will also address those areas where Hanford releases have come to be located and the location of resources that may have come into contact with these releases.

The work requires knowledge and understanding of the assessment of hazardous substance impacts on natural resources. In particular, proposals shall be evaluated based on the following criteria:

Contractor Experience:

- Experience developing NRDA Type B injury assessment plans
- Familiarity and experience working with DOI NRDA regulations
- Injury assessment experience at large complex sites
- Experience working with federal/state/Tribal Trustees
- Corporate Performance - References/past projects/clients (at least 3 in past 5 years)

Qualifications of Key Personnel:

- Multi-disciplinary technical expertise in NRDA injury assessment planning
- Experience evaluating injury to natural resources as it pertains from a cultural resource perspective
- Experience assessing the effects of radionuclides on natural resources, in addition to metals, solvents, and pesticides
- Facilitation and communication skills

Ward, Dana C

From: Thompson, K M (Mike)
Sent: Tuesday, October 30, 2007 7:27 AM
To: Ward, Dana C
Subject: Columbia River Protection Projects S&T Update

I'll be giving a discussion on this topic at the HAB meeting on Thursday afternoon

300 Area Uranium Sequestration with phosphates

Field injection test at the 300 Area, June, 2007 - Initial groundwater performance monitoring data looks promising for removing U from groundwater

100-N Apatite Barrier

- Completed two injection campaigns with low concentration solutions in 2007
- Will reinject with higher-concentration solutions in 2008
- Lab tests underway to design vadose zone application
- Phytoremediation tests ongoing
- Initiating lab tests for insect uptake of Sr-90

100 Area Chromium

Electrocoagulation tests complete

Successfully removes chromium

Some difficulties in well plugging encountered in reinjection of treated water

Mending ISRM Barrier with micron-sized iron

Initial lab tests indicates iron did not react as expected

Testing iron from a variety of alternate sources

Field injection on hold until lab testing is complete

Search for sources of chromium at 100-D

Completed seven boreholes, 4 more planned

Biostimulation

All wells drilled

Molasses injected in September, undergoing monitoring

Vegetable oil injection planned for 2008

Chromium Geochemical Conceptual Model

Cr(VI) from 100 Area contaminated sediments is dominantly highly mobile in solution or highly soluble solid phases

A fraction of the Cr(VI) is present as coatings on grain surfaces.

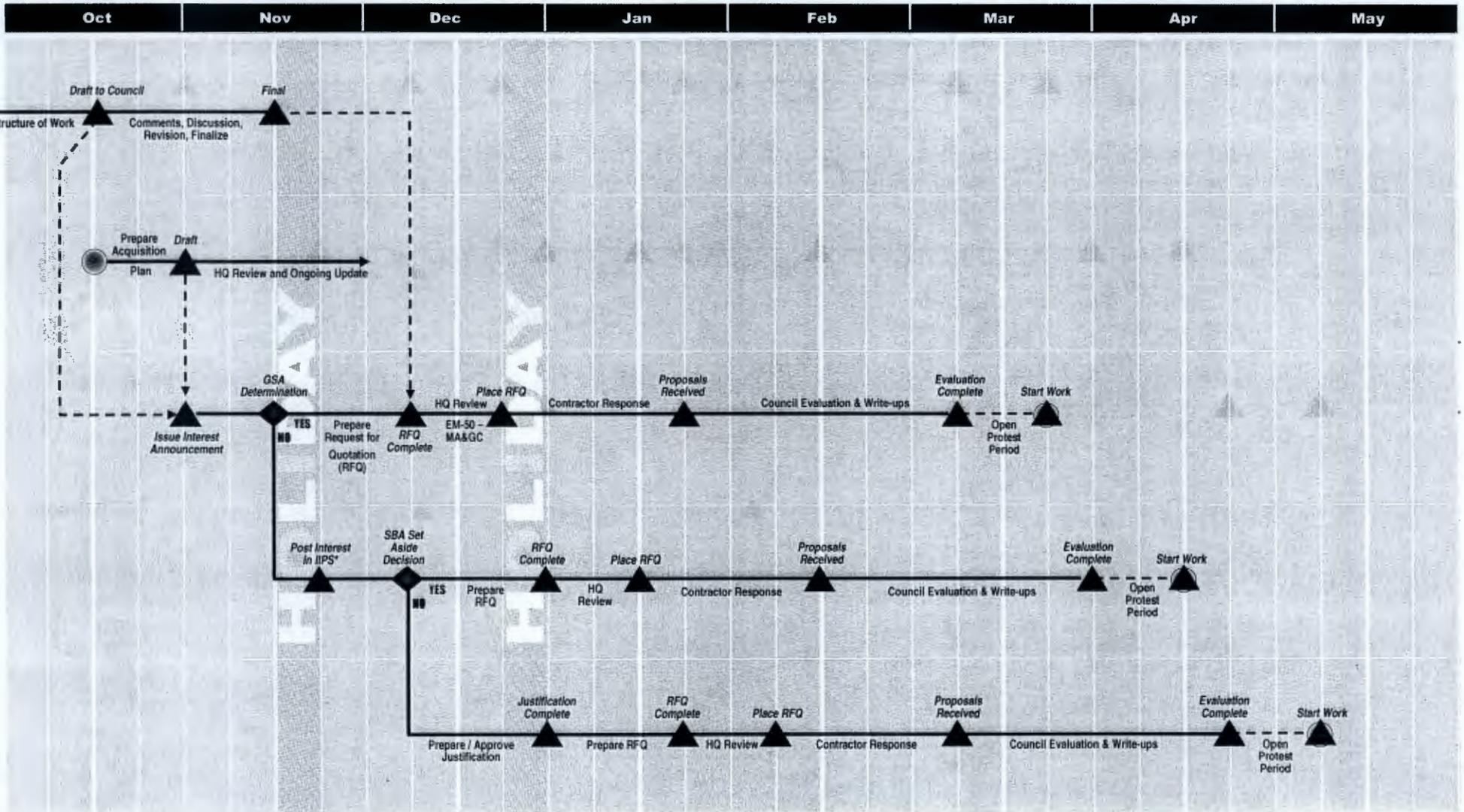
Some of the coating material is associated with weathered clays and secondary minerals

There is no apparent association with iron-bearing phases

Column studies show long tailing and rebound during stop-flow events, indicating the potential for ongoing leaching of the

less-mobile fraction

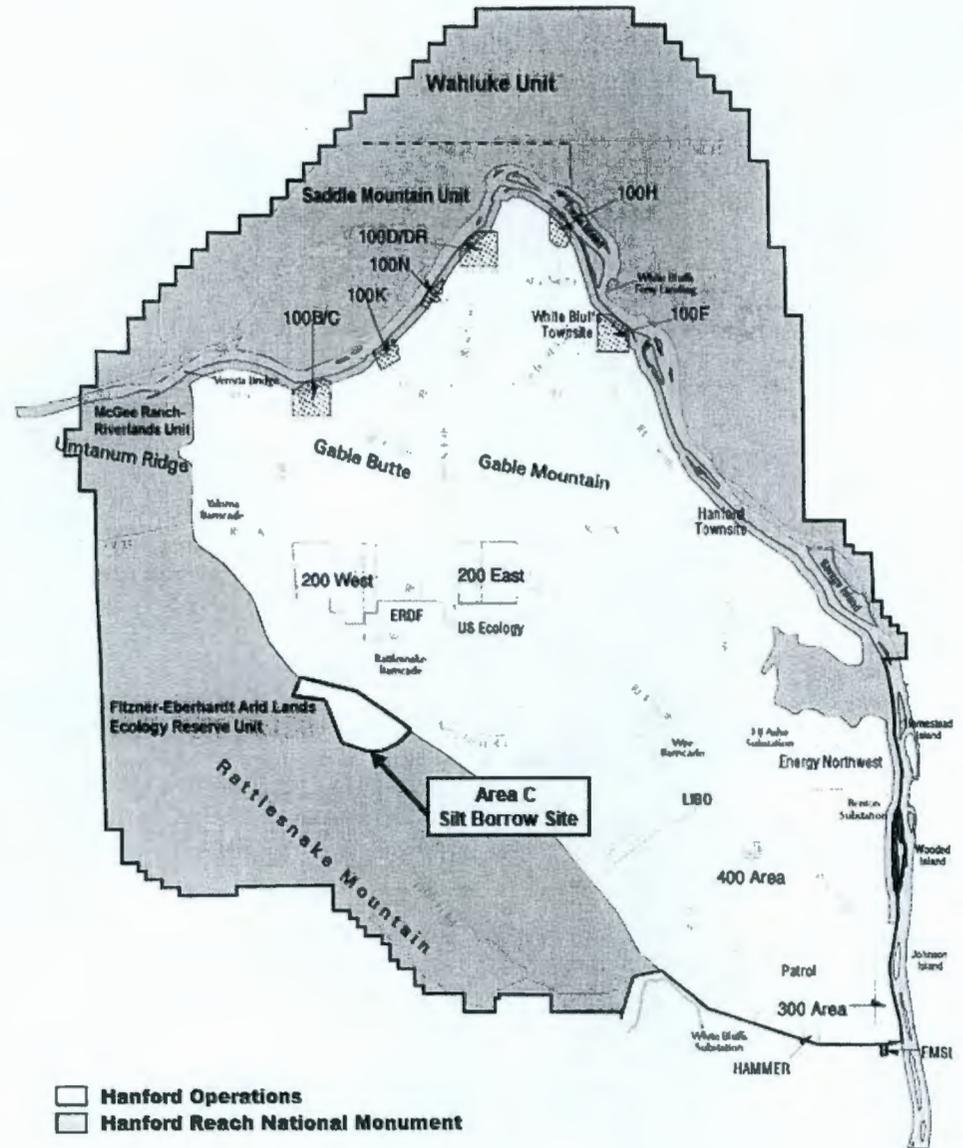
Timeline



Legend

- = Holiday
- = Start
- = Milestones
- = Decision Point
- = Major Milestone
- * IIPS = Industry Interactive Procurement System

Initial Development of Area C Borrow Source



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Purpose

- Discuss the initial development of a fine-grained soil borrow site at Area C.
- Identify issues for future consultation, e.g., operational controls, identification of plant species for reclamation, etc.
- Lay out next steps.



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Why Area C?

- Remediation of some waste sites at Hanford may require the application of a surface barrier.
- Fine-grained soil was identified as a critical component of surface barriers in arid climates.
- There are a limited number of areas within the Hanford Site that contain fine-grained soils of the quality and quantity that could be used to construct barriers at Hanford.
- In collaboration with several interested parties, the McGee Ranch was removed from consideration as a source of barrier materials to provide a wildlife migration corridor between the ALE Reserve and the Umtanum Ridge.



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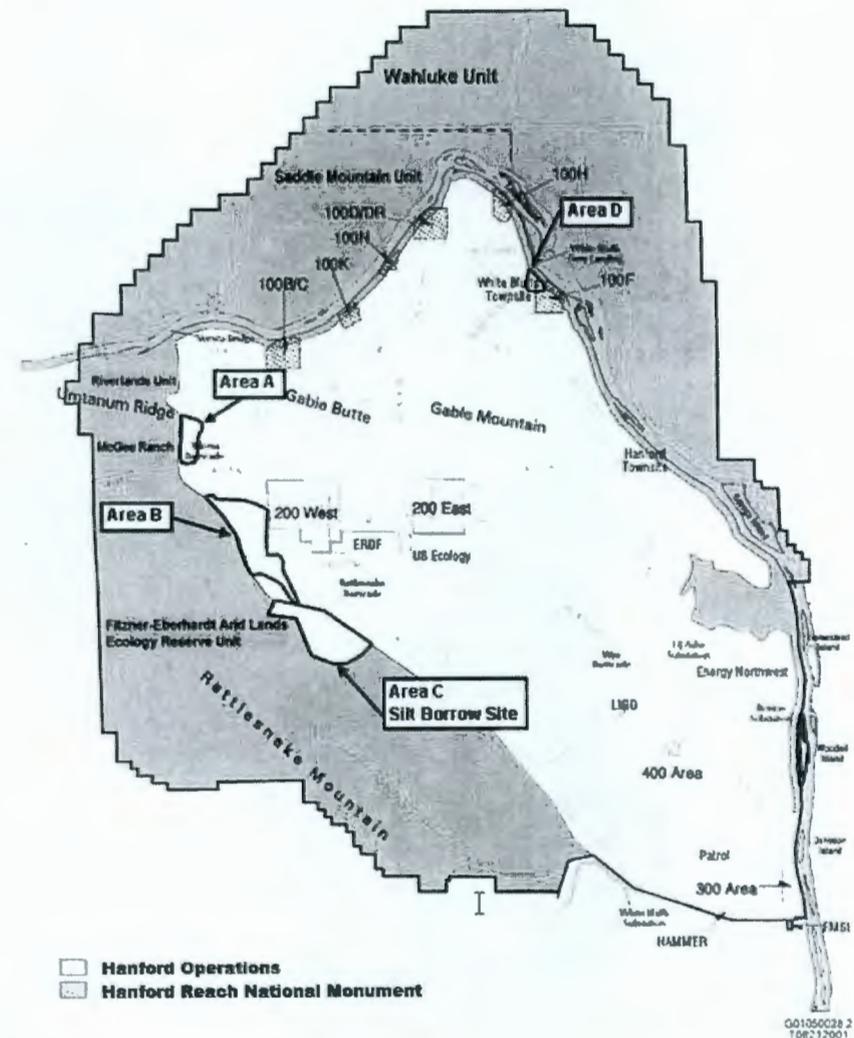
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Sources of fine-grained soils

Of the four possible sites, only Area C was found to be potentially capable of meeting quality and quantity requirements.

Reference: *Alternative Fine-Grained Soil Borrow Source Study Final Report (BHI-01551)*



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Locating the Initial Area C Borrow Site

- Sampling data indicates the larger area contains a fine-grained soil deposit in excess of 10 million yds³ (Reference D&D-25575)
- Minimal vegetation present
 - BRMaP Level I habitat due to pre-Hanford grazing followed by range fires.
- High probability of a reasonably thick (>15 feet) fine-grained soil layer with minimal or no sand overburden.



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Treatability Study

Based on past comments received from the tribes and the public on the 200-UW-1 OU Proposed Plan concerning the effectiveness of surface barriers, the Tri-Party agencies are considering a five-year treatability study that includes the following:

- Barrier construction
- Intense monitoring of the surface barrier over the 216-U-8 waste site
- Evaluating the effects of barriers on deep vadose zone contaminant transport



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Volume of Fine-grained soil needed for the 216-U-8 Barrier

The barrier at 216-U-8 will require approximately 10,000 cubic yards of fine-grained soil.

- Excavation activities will likely require disturbing approximately 5 acres within Area C Borrow site.
- Initial estimate for depth of disturbance for the treatability test is approximately 6-10 feet.

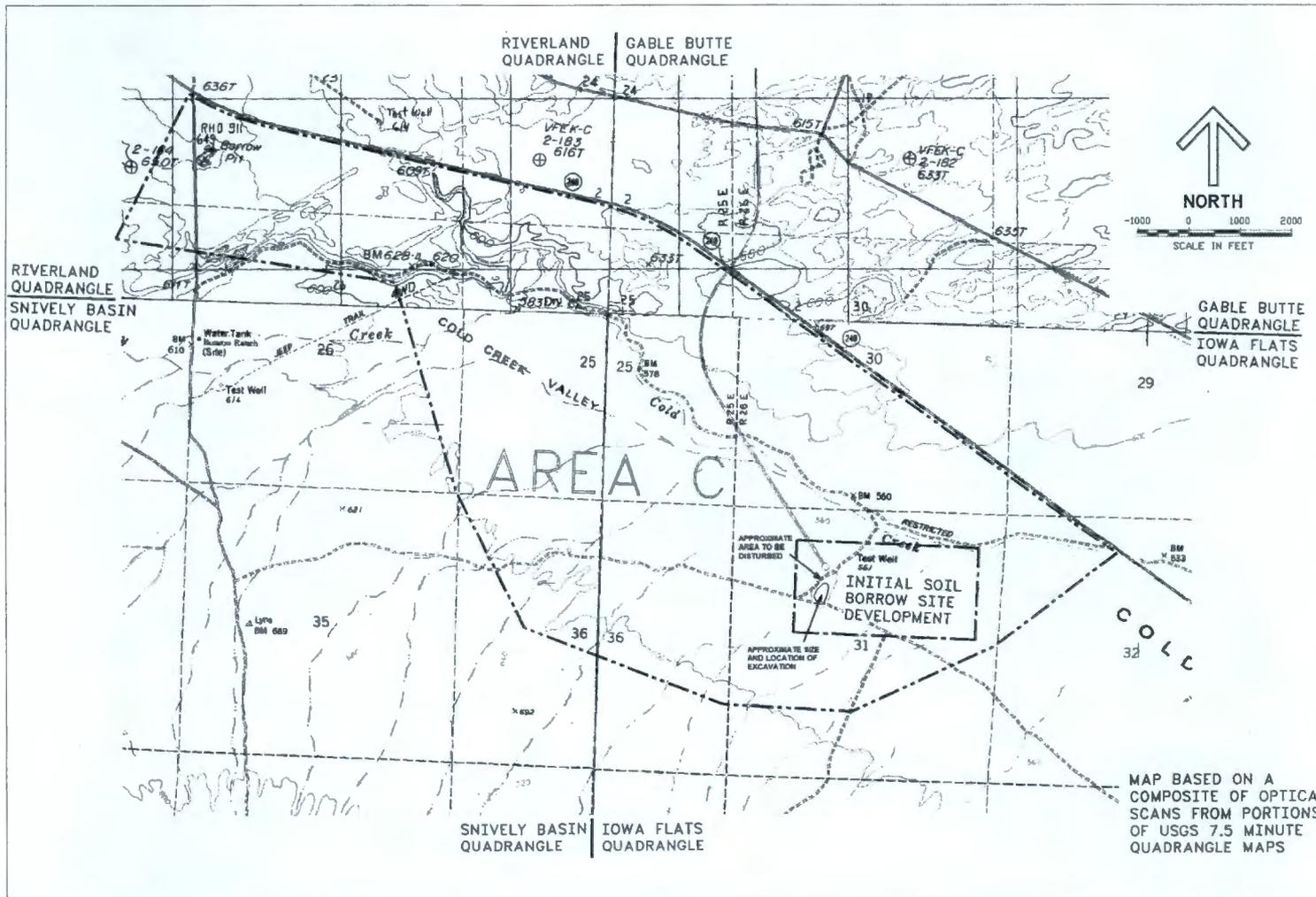


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Initial Development of the Fine-grained soil Borrow Site



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Planned NEPA Documentation

- For this initial scope, the NEPA values will be included in the 200-UW-1 OU Record of Decision and/or the Treatability Test Plan.
- The TC&WM EIS, which is currently under development, will consider potential cumulative impacts associated with use of Area C borrow materials at the Hanford Site.



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Cultural Resource Documentation and Background

Cultural Resource Review Title	Scope	Cultural Resource Document No.
Tank Closure & Waste Management EIS (2007)	Entire Project Scope which includes most of the Central Plateau as well as all of Area C	HCRC #2007-600-018
ALE Reserve Quarry Borrow Site (2006)	145 acres within Area C	HCRC #2006-600-008
Haul Road to the ALE Reserve Quarry (2005)	149 acres within Area C	HCRC #2005-600-012
Area C Sampling (2003)	52 acres within Area C	HCRC #2003-600-023
Solid Waste EIS Area C (2002)	Area C (~2283 Acres)	HCRC #2002-600-012



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Operations & Maintenance at Area C

- Consult with the Tribes and the NRTC on the development of Operations and Maintenance guidelines.
- Some topics could include:
 - Minimization of fugitive dust
 - Maintain viability of live plants for future reclamation and/or utilize cleared vegetation as a mulch for reclaimed areas.
 - Excavate in ways to minimize the use of stockpiles and/or spoil piles.
 - Maintain a neat and orderly borrow pit.



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Potential Mitigation Components

- **Cultural Resources**

- Maintain conformance with the *Hanford Cultural Resources Management Plan* (DOE/RL-98-10)

- **Ecological Resources**

- Maintain conformance with the Hanford Biological Resources Management Plan (BRMaP) (DOE/RL-96-32)

- **Air Quality**

- Project will be required to have an approved project specific dust control plan in place prior to initiating activities within Area C

- **Fire Prevention and Response**

- Project will be required to consult with the Hanford Fire Department, and obtain written authorization, prior to traveling over or clearing any vegetation, either loose or rooted, whenever the fire hazard levels are set at High, Very High, and Extreme.
- Borrow site operations staff shall have wireless communications equipment available and fully operational whenever on site.
- Project will be required to have written specific emergency procedures that address responsibilities, signals, alarms, communications, evacuation routes, assembly points, and personnel accounting in accordance with HNF-PRAC-30459



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Proposed Reclamation of the Borrow Pit

- Final surface and shape:
 - gentle slopes and undulating instead of flat
 - side slopes irregularly graded
- Planting and seeding could be with a broad mix of native species.



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Next Step

- Finalize the Memorandum Of Agreement (MOA) with the Tribes
- Complete MOA Implementation Plan
- Complete Reclamation Plan/Plant Matrix Guide for Reclamation/ Revegetation



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