

**THIS DOCUMENT  
SUPERSEDES  
THE JUNE 8, 1998 MEETING  
MINUTES  
PREVIOUSLY SENT ON  
JUNE 11, 1998  
BHI-DIS CCN:059652**

**SUBJECT** GW/VZ INTEGRATION PROJECT WEEKLY MEETING - JUNE 8, 1998

**TO** Distribution

**FROM** Michael J. Graham, GW/VZ Project Manager

**DATE** October 2, 1998

**ATTENDEES**

See Attached Distribution List

**DISTRIBUTION**

Attendees  
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**NEXT GW/VZ INTEGRATION PROJECT WEEKLY MEETING:**

Date: June 15, 1998

Location: 3350 George Washington Way, BHI Assembly Room, Richland, Washington (Badging Required)

Local Call In Number: (509) 376-7411

Toll Free Call In Number: (800) 664-0771

**MEETING MINUTES FROM JUNE 8, 1998:**

A Groundwater/Vadose Zone (GW/VZ) Integration Project Weekly Meeting was held on June 8, 1998, in Richland, Washington, at 3350 George Washington Way, BHI Assembly Room.

**MONIZ BRIEFING:**

Originally there was a teleconference scheduled with Under Secretary Moniz Tuesday, June 9. However, at the request of Dr. Moniz, Linda Bauer (DOE), Michael Graham (BHI), Janice Williams (FDH), Tom Page (PNNL), and Shirley Rawson (PNNL) are traveling today to Washington, D.C. to give him a briefing on the Groundwater Vadose Zone Project. A copy of the presentation has been distributed.

The Agenda for the briefing included:

- Draft Vision and Mission Statement
- Project Approach
- National Laboratory Participation
- Expert Panel
- Public Involvement
- CRCIA
- Project Calendar

A copy of the Moniz Presentation will be attached to the meeting minutes. A debriefing of this meeting will be discussed at next week's meeting.

**CRCIA**

As you are aware of we had a commitment to send out our draft position to the high-level elements of CRCIA. That information was sent to the attendees at last week's meeting on Wednesday and a copy was attached to the meeting minutes that were sent on Thursday. Our hope was that we would be able to have your comments back by Tuesday, June 9. Tony Knepp has had a few telephone conversations regarding this document and received one set of written comments. If you have an interest in making comments, the sooner you can respond the better we can proceed. We will address all comments as they are received. If there are substantive comments, we will convene a meeting to resolve those details. We hope to be able to go through the high-level elements quickly and then begin working on the lower-level of detail.

COMMENTS: It was discussed that there are several people who have not yet had the time to prepare their comments. Many people are unavailable to work on this document until later in the week and that they wouldn't be ready to discuss their comments until next week. It was also discussed that the document was not received until Thursday, June 4, and that with the weekend it wasn't enough time to prepare comments by Tuesday, June 9.

Concern was raised with waiting until next week and whether it would jeopardize the project schedule.

RESPONSE: We are working many things in parallel at this time and we will wait until the beginning of next to have a meeting to discuss comments to the paper.

**TRIBAL NATION AND PUBLIC INVOLVEMENT PLAN:**

Last week we discussed meeting minutes. We decided to prepare more descriptive minutes. The downside of having more extensive minutes is that they take longer to prepare. What is your opinion on the new format for meeting minutes?

COMMENTS: The Quality of the notes were much better. Having them come out a couple of days later to have better minutes is worth the wait.

RESPONSE: We will continue to have more extensive meeting minutes.

The distribution list we are using to send out the meeting minutes is very large, in the last week we have had comments that people are not receiving the meeting minutes and notifications we have been sending to them. We would like to request your help. If you notice that we have a wrong electronic address or fax number, please let us know so that our distribution list can meet the needs of the public. We have also received comments, indicating that the minutes are providing them with the necessary information to stay current with the Project.

At the HAB last week, the issue of providing travel money for people to come to Project meetings was once again discussed. Marilyn Reeves said that she couldn't provide extra money from The HAB budget for travel

to attend the GW/VZ meetings. Rich Holten attended an RL Senior Management Meeting today and this issue was discussed. There will be a DOE policy issued soon.

**SCHEDULE FOR THE WEEK OF JUNE 22:**

As you are aware, we have had a tentative date to have our next public involvement workshop on June 23-25 with the National Labs. That is the same week that the SX Panel will convene. Initially we had wanted to have our public workshop in parallel with the other group meetings, and a tentative visit from Under Secretary Moniz.

Is it a conflict to have both the SX panel-National Lab workshop happening at the same time? We could delay out the National Labs/Science & Technology workshop, but if we do that we run into the July 4 Holiday weekend. We want to see progress in this area and Dr. Moniz wants to see progress in this area.

COMMENTS: It would help to have a set agenda both the GW/VZ Workshop and the SX Panel Meetings. If we had detailed agendas of both we could determine what we could/would attend.

RESPONSE: We have today a very rough draft of an agenda for the GW/VZ workshop. We propose that the workshop focus on the conceptual model.

COMMENTS: What expertise will be represented? Specifically, will ecological/river expertise be engaged in the Science and Technology (S&T) discussion of the conceptual model?

Has sufficient time been scheduled for presentation of the conceptual model, such that participants can have meaningfully comment? Revision of the agenda should ensure that this occurs.

Regarding modeling/assessment "tiers," the focus of the S&T input should be on uncertainties, a focus on sensitivities implies statistical analysis on an executable version of the model.

How can we build a conceptual model before we have specified what will be calculated (e.g., radioactivity levels at specific location or in specific receptors)?

- The difference between measuring specific effects versus judging the acceptability of those effects (the integrated assessment addresses the former, not the later).
- The difficulty of specifying the full suite of impacts to be calculated versus taking a staged or evolved approach, the latter would specify a first set of calculations designed to direct what further investigations need to be engaged (the integrated assessment will have to take a staged approach, we still need to design what the first set of calculations will be).
- It is important to establish an approach and capability that can be expanded or refocused based on initial assessment results, additional observations, or other non-project inputs.

Will copies of the conceptual model be made available prior to the workshop?

Ecology has some individuals that we would like to bring in on these discussions. Knowing when to bring them in is critical. We need to be able to determine when their input would be of most value without wasting their time.

We need to define what a conceptual model is.

RESPONSE: We have committed that we will proceed with planning our next workshop for June 23-25. We will revise the Agenda for the June 23-25 Workshop and attach it to the meeting minutes. We will also provide a location for the Workshop so that all interested parties can plan accordingly. David Shafer will provide the SX Panel Agenda and we will attach it to these meeting minutes.

#### **DETAILED PLANNING KICK-OFF WITH DOE-RL:**

Today we had a meeting with DOE-RL Managers to go over the Detailed Planning for the Groundwater/Vadose Zone Project and review with them the planning process. We will be interfacing this summer during the planning process to try and bring everything into a single planning document. This information will be used as input to our gap analysis. A copy of the presentation has been distributed with the agenda. We will attach a copy to the meeting minutes.

COMMENT: How is TWRS Vadose Zone going to interface with this project? Who is going to define the parameters.

RESPONSE: The expectation is that every project knows what it needs and will define those needs. If we find gaps or overlaps, we will address that. We need to stay together as a partnering team. We don't want to be a barrier to projects getting their on-going work done.

#### **WEEKLY MEETINGS:**

Once we get the comments on the CRCIA document we will have a meeting to go through and review the comments.

COMMENT: Is there any draft material that can be shared? A description of what is in the model and a visual description of the model?

RESPONSE: We hope to have a draft ready to distribute at next week's Project Team meeting.

#### **WRAP-UP:**

Regarding the Expert Panel, Tom Engel received a lot of input from people at the HAB last week. We have received input of additional names and those names will be forwarded to the selection committee. If the selection committee has not yet received the names it is because PNNL is tracking down their resumes and when then forward the names and the resumes together.

COMMENT: What is the deadline for the last names to be added?

RESPONSE: There is still an opportunity to provide additional names. Please send any candidates to Michael Graham and he will forward it to the right parties to have those candidates included in the selection process.

COMMENT: Since we now have an endangered species on the Reach it is critical that we have someone in that discipline.

RESPONSE: Again, if you have additional names give them to Michael Graham and we will have them included. If you have a resume it would be helpful, but don't let that stop you from providing any additional candidates.

**JUNE 23-25 WORKSHOP UPDATE JUNE 11, 1998:**

Due to the recommendation of the HAB-ER, the Public Involvement Workshop schedule for June 23, 1998, has been postponed until July. The National Laboratory Workshop will be expanded to cover the entire three days. The attached agenda will be revised to reflect this change.

Location: Hills Street Conference Center  
451 Hills Street  
Richland, WA 99352

Date: June 24-25

Time: 8:00 a.m. to 5:00 p.m. (Tentative)

Agenda: Attached

Call-in Telephone Number: (509) 376-7411 or (800) 664-0771

**ATTACHMENTS:** SX Panel Agenda  
Moniz Presentation  
DWP Kick-Off Meeting with DOE-RL Presentation  
Revised Agenda for the GW/VZ Workshop

## ATTACHMENT 1

### **SX EXPERT PANEL - DRAFT AGENDA -**

LOCATION: Los Alamos Technical Associates  
309 Bradley Boulevard - Richland, Washington

#### **TUESDAY, JUNE 23**

8:00 - 8:15	Welcome - Introductions	David Shafer (DOE-RL)
8:15 - 10:15	Shape Factor Analysis Discussion	John Mutuszek (Panel Member)
10:15 - 10:30	Break	
10:30-12:00	Spectral Gamma Logs -- BX Tank Farm	MACTEC-ERS
12:00 - 1:30	Lunch	
1:30 - 2:15	Additional Groundwater Sampling -- Depth Distribution of Contaminants below SX Farm	Vern Johnson (PNNL)
2:15 - 3:00	Borehole Extension Report	Dave Myers (IT Corp.)
3:00 - 3:15	Break	
3:15-4:00	Public Comments	

#### **WEDNESDAY, JUNE 24**

8:00 - 10:30	TWRS Vadose Zone Strategy in Support of Cleanup Decision	Harry Boston (LMHC)
10:30 - 10:45	Break	
10:45 - 11:45	Site-Wide Integration Update	Rich Holten (DOE-RL)
11:45 - 1:00	Lunch	
1:00 - 1:30	Commencement Bay	Jim Hanson (DOE-RL)
1:30 - 2:30	Clastic Dikes: Characteristics and Properties; Preliminary Analysis of Effects on Contaminant Transport During a Tank Leak	Karl Fecht (BHI)/Steve Reidel (PNNL) David Nichols and Phil Rogers (Jacobs Engineering)
2:30 - 2:45	Break	
2:45 - 3:45	Summary of Progress on Panel Recommendations	Dave Myers (IT Corp.)
3:45 - 4:30	Public Comments	

**THURSDAY, JUNE 25**

8:00 - 10:00	National Laboratory Meeting on Vadose Zone and Groundwater Science and Technology	Panel Members to Attend
10:00 - 12:00	Panel Members Caucus	
12:00 - 1:00	Lunch	
1:00 - 2:30	Closeout Meeting	
2:30 - 3:00	Public Comments	

# **ATTACHMENT 2**

# **GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT**

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**Status Briefing**

**June 9, 1998**

## **Agenda**

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- Vision, Mission, and Challenges
- Project Approach
- National Laboratory Participation
- Expert Panel
- Public Involvement
- CRCIA
- Project Calendar

## **Vision, Mission & Challenges (draft)**

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### **■ Vision**

- To protect the water resources, human health and ecology in an open manner that inspires public confidence and scientific credibility

### **■ Mission**

- Conduct site cumulative assessments and determine the potential Hanford contaminant impact on affected receptors to provide a basis for defensible cleanup/disposal decisions

### **■ Challenges**

- Management and Integration
- Infusion of science and technology
- Meaningful public involvement

## **Project Approach**

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- Approach to Identifying and Filling Gaps  
(Graphic not available)

## **National Laboratory Participation**

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- April 21, 1998 workshop
- Science and Technology Roadmaps
- National Laboratory Workshops
  - Objectives
  - Schedule

## **Expert Panel**

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- Protocol completed
- Selection process ongoing
- Diversity of disciplines/background
- Transitioning SX Panel into Expert Panel process

## **Public Involvement**

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- April 14, 1998 Workshop
- April 29, 1998 Workshop Scoping Meeting
- May 21, 1998 Workshop
- Public workshop planned for June 23, 1998
- Weekly GW/VZ Project Public Meetings
- Transition of TWRS Interagency Team

## **CRCIA**

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- May 20, 1998 Workshop
- Follow on meetings
- Alignment of purpose and scope
- Incorporation of requirements

## **Project Calendar**

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### ■ Week of June 22

- Under Secretary Televideo
- SX Panel Meeting
- National Laboratory Workshop
- Public Workshop

## **Draft Workshop Agenda - June 23**

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- Meeting Objectives
- Public Involvement Plan and Process
- Overview of Core Activity Drivers
  - TWRS and ER Projects
  - OST, Planning, Budget
- Conceptual Model Definition and Overview
- Conceptual Model Technical Description

## **Draft Workshop Agenda - June 24**

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- Summary of Day 1
- State of Columbia River
  - Washington Dept of Health
  - State of Oregon
  - Others (BPA, USACE)
  - Ongoing Studies (PNNL)
- Technical Issues (relative to Columbia River and associated impacts)
  - Breakout Sessions

## **Draft Workshop Agenda - June 25**

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- SX Panel Transition Briefing
- Summary Day 1 and 2
- National Lab Participation
- Planning Approach and Issues

# **ATTACHMENT 3**

# **GROUNDWATER/VADOSE ZONE PROJECT**

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**FY 1999 - FY 2001  
DETAILED WORK PLAN KICKOFF  
JUNE 8, 1998**

## **Why Are We Here?**

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- Kickoff of FY 1999-2001 Planning
- Provide guidance and schedule for Planning
- Obtain Projects commitment to process

## **Agenda**

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- Introduction
- GW/VZ Project
- Expectations
- Roles and Responsibilities
- Planning Process and Schedule
- FY 1999
- Closeout

## **Groundwater and Vadose Zone Project**

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### **■ DOE-RL issued letter to Prime Contractors that:**

- Assigned AME lead for sitewide integration of groundwater and vadose zone (GW/VZ) activities**
- Assigned BHI the responsibility for the development of sitewide program planning for GW/VZ activities, with PHMC and PNNL participation**
- Directed BHI to team with PHMC and PNNL to develop plan for integrating GW/VZ activities with meaningful participation of contractors, stakeholders, Tribal Nations and regulators**

## **Groundwater and Vadose Zone Project Objectives**

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- Develop credibility for the groundwater, vadose zone, Columbia River activities and associated remedial action decisions through:
  - Integration of groundwater and vadose zone activities
  - Application of sound science and technology
  - Early and meaningful participation of Tribal Nations and stakeholders
  - Independent peer review
- Assess impacts of all Hanford Site wastes on the vadose zone, groundwater and “Columbia River”

## **Groundwater and Vadose Zone Project**

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### **■ Key Elements of GW/VZ Project**

- Organize and Manage as a Project**
- Utilize systems engineering to integrate “core” GW/VZ activities**
- Use existing sitewide planning, reporting and functional support structures**

## **Groundwater/Vadose Zone Project**

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### ■ “Core” activities

- TWRS vadose zone characterization
- HTI vadose zone characterization
- ILAW vadose zone and groundwater characterization and modeling
- 200 Area assessment
- Groundwater remediation
- Groundwater monitoring
- Composite analysis
- Columbia River monitoring
- Associated Science and Technology

## **Expectations**

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- DOE HQ expects to be able to have a single point of contact for status, issues, and actions relative to Hanford Site “core” groundwater and vadose zone activities in FY 1999
- Projects will continue to fund and execute the groundwater and vadose zone activities

## **Planning Process**

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- Work through GW/VZ lead to obtain point of contact for each of the core activities
- GW/VZ staff will provide forms and formats for scope, cost and schedule information
- GW/VZ staff will work with projects to obtain information from existing planning tools
- GW/VZ will reformat as necessary for FY 1999 - FY 2001 Plan
- GW/VZ staff will coordinate with projects for reviews and revisions of the information

# Schedule

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## ■ June

### ■ Scoping

- | Description
- | Assumptions
- | Deliverables
- | Schedule

## ■ July

- Scoping review
- Cost Estimates
- Cost Estimate Review

## **Schedule**

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### ■ August

- DOE, Project Management, Regulator and stakeholder reviews
- Resolve comments and incorporate revisions

### ■ September

- Final Approvals

## **FY 1999**

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### ■ Monthly Project Review and Reporting

- Accomplishments
- Schedule status
- Cost and schedule variance
  - ┆ Explanation and Corrective Actions
- Issues

### ■ GW/VZ Project concurs on change control impacting the “core” groundwater and vadose zone activities

## **Good Practices/Lessons Learned**

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- Involve Regulators and stakeholders early and often in the planning process
- DOE involvement throughout process as part of the planning team
- Communicate roles and responsibilities at kickoff
- Maintain a consistent approach and level of detail for planning

## **ATTACHMENT 4**

### **DRAFT AGENDA GW/VZ NATIONAL LABORATORY MEETING JUNE 24-25, 1998 8:00 a.m. - 5:00 p.m.**

- LOCATION:** Hills Street Conference Center  
451 Hills Street - Richland, Washington
- PURPOSE:** Continue rprocess for establishing understanding of integrated assessment scope and approach.
- MEETING OBJECTIVES:**
1. Continue discussions by the National Laboratories of Groundwater/Vadose Zone issues associated with Hanford subsurface and the Columbia River
    - Initiate examination of scientific issues associated with Hanford contaminant effects on water quality and ecology of the Columbia River
    - Continue identification and prioritization of scientific issues affecting vadose zone geohydrology and biogeochemistry
  2. Examine overall site conceptual model and reach agreement on the nature of major model modules. Assess status of selected modules.
  3. Hear perspective on vadose zone issues from Hanford Expert Panel
  4. Enumerate and prioritize key scientific issues for vadose zone geohydrology and biogeochemistry areas.

#### **WEDNESDAY, JUNE 24**

- 8:00 a.m. - 8:45 a.m. Introduction/Project Approach
- 8:45 a.m. - 11:45 p.m. Background on Columbia River
  - Discussions of Sediment Chemistry and Ecological Risk
- 11:45 a.m. - 12:30 p.m. Conceptual Model Discussion
- 12:30 p.m. - 1:30 p.m. Lunch
- 1:30 p.m. - 1:45 p.m. Format for Breakout Session Products
- 1:45 p.m. - 4:00 p.m. Breakout Sessions
  - Columbia River Impacts: Review and refine conceptualization
  - Geochemistry/Vadose Zone: Review and refine technical issues (vis-a-vis assumptions, uncertainties, knowledge gaps, etc.)
- 4:00 p.m. - 5:00 p.m. Meeting Summary

## **THURSDAY, JUNE 25**

- |                        |                            |
|------------------------|----------------------------|
| 8:00 a.m. - 10:00 a.m. | SX Panel Briefing          |
| 10:00 a.m. - 1:00 p.m. | Continue Breakout Sessions |
| 1:00 p.m. - 2:00 p.m.  | Lunch                      |
| 2:00 p.m. - 4:00 p.m.  | Breakout Session Reports   |
| 4:00 p.m. - 5:00 p.m.  | Next Steps                 |

### **BREAKOUT SESSIONS:**

1. Three sessions will be held
  - Columbia River Impacts
  - Vadose Zone Geohydrology
  - Vadose Zone Biogeochemistry
2. Purpose of Columbia River Sessions - Conduct discussion of key scientific and technical issues associated with impacts on the Columbia River. Identify lists of scientific questions, with supporting characterization/experimental/computational needs.
3. Purpose of Vadose Zone Geohydrology and Biogeochemistry - Come to agreement on key scientific issues identified at previous meeting; determine which require only additional characterization data/interpretation and which require experimental research. Examine issues raised in technical modules prepared by Groundwater/Vadose Zone Integrated Project, and identify any issues overlooked in modules. Incorporate any perspectives of Hanford Expert Panel that may be relevant.

**DISTRIBUTION:**

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