

**HARD COPY DISTRIBUTION  
UNIT MANAGERS' MEETING,  
200 AREA GROUNDWATER SOURCE OPERABLE UNITS  
January 17, 2007**

DOE/RL

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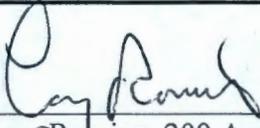
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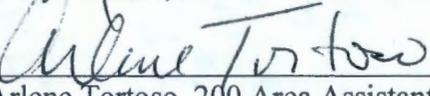
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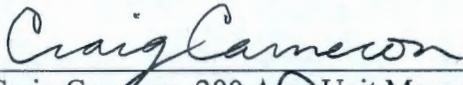
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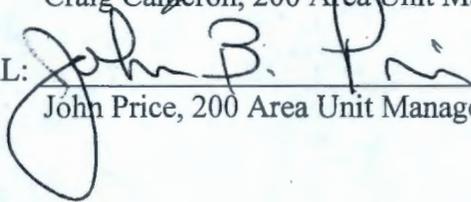
**Meeting Minutes Transmittal/Approval  
Unit Managers' Meeting  
200 Area Groundwater and Source Operable Units  
1200 Jadwin Avenue, Richland, Washington  
January 17, 2007**

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APPROVAL:  Date: 2/15/07  
Larry Romine, 200 Area Unit Manager, DOE/RL

APPROVAL:  Date: 2/15/07  
Arlene Tortoso, 200 Area Assistant Manager, DOE/RL

APPROVAL:  Date: 2/15/07  
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL:  Date: 2/15/2007  
John Price, 200 Area Unit Manager, Ecology

Minutes of the 200 Area Unit Managers' Meeting of January 17, 2007 are attached. Minutes are comprised of the following:

Attachment 1	Agenda
Attachment 2	Attendance Record
Attachment 3	Groundwater Operable Units Status
Attachment 4	200-UP-1 Rebound Study, Technetium-99
Attachment 5	200-UP-1 Rebound Study, Uranium
Attachment 6	Tc-99 concentrations in extraction wells 299-W15-44 and 299-W15-765
Attachment 7	Tc-99 concentrations in monitoring well 299-W15-763
Attachment 8	New ZP-1 well DD (C5101, 299-W11-86)
Attachment 9	Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 Soil Vapor Extraction Sites FY 2003 – FY 2007
Attachment 10	Location of Proposed Wells Associated with 200-BP-5 Operable Unit
Attachment 11	Surface Geophysical Exploration Investigation Area
Attachment 12	Source Operable Units and Facilities Status
Attachment 13	Agreements and Issues List
Attachment 14	Action Item List

# 200 AREA UNIT MANAGERS' MEETING DRAFT AGENDA

1200 Jadwin/Rm 1-C-1  
January 17, 2007

## GROUNDWATER OPERABLE UNITS STATUS (8:30-9:15)

### ISSUE RESOLUTION (9:15- )

- (See Issues List)

## SOURCE OPERABLE UNITS AND FACILITIES STATUS (9:15-10:00)

### General

- Outstanding Action Items
- Open for Regulatory Topics or Action Items

200 Area Unit Managers Status Meeting  
January 17, 2007

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Shelley Cimarr	ODOS		541 962 0853
Bob Lobos	EPA		
Jenne Seaver	Ecology		372-7956
Rob Pippo	FH		373-3285
Jeanne Whelan	FH		
Virginia Rohay	FH		3733803
Larry Pennine	RL	200 A	376-4747
GLORIA Cummins	FH	PO-1	372-2484
Jon Lindberg	PUNL	PO-1	376-5005
Brian Charbonneau	RL		373-8137
Mark Byrnes	FH	ZP-1/UP-1/ZP-2	373-3996
John Winterhalders	FH		372-8144
Leon Vanne	ECO		372-7930
Ann Shattuck	FH	PWI/MW-1	376-8750
John MORSO	ODOS	ACC	376-0057
Ted Repasky	CTUIR		541-966-2412
Arline Torbett	DOE		373-9631
Ed Swanson	FH-GRP	Techn. Support	373-3807
Brian Sly	DOE-RL	2531M	376-7037
Craig Cameron	IEPA		376-8665



## 200-UP-1, 200-ZP-1, AND 200-ZP-2 GROUNDWATER OPERABLE UNITS

January 17, 2007

### GROUNDWATER OPERABLE UNITS STATUS

#### 200-UP-1 OU

- Rebound Study:
  - Tc-99 and uranium concentrations are still below the interim RAOs of 9,000 pCi/L and 480 µg/L respectively (**Attachments 4 and 5**).
  - Ecology is working on an Explanation of Significant Difference (ESD) for the UP-1 interim ROD.
- RI/FS Work Plan:
  - Six of 12 new 200-UP-1 wells (UP1, UP2, UP3, UP4, UP5, and UP11) required by the RI/FS Work Plan have been installed. The remaining six are scheduled for FY2008.
  - The detailed RI/FS schedule was sent to Ecology by plant mail and FAX on December 18, 2006.

#### 200-ZP-1 OU

- Remediation Treatment Status:
  - Between October 1, 2006 and January 7, 2007 the 200-ZP-1 pump-and-treat system average pumping rate was approximately 259 gpm.
  - Nine of the 10 200-ZP-1 extraction wells are currently on line pumping at approximately 265 gpm. Extraction well #9 went down this past weekend due to freezing temperatures. It is still frozen.
  - **Attachments 6 and 7** shows the most recent Tc-99 concentrations in extraction wells 299-W15-765 and 299-W15-44, and nearby monitoring well 299-W15-763. The average Tc-99 concentration of the mixed extraction water entering the ZP-1 treatment building has dropped to ~45% of the MCL of 900 pCi/L. This drop is due to a drop in production from well 299-W15-765 due to dropping water levels.
  - DOE-RL and EPA comments have been incorporated into the Treatability Test Plan for Tc-99 removal from groundwater. The document will be going into final editing shortly.
  - MSE's design of the Purolite resin column is near completion. Construction will start in the near future. We are currently looking at an early April hookup.
  - Briant Charboneau asked Mark Byrnes to check with ETF to see if they have the capability to regenerate the resin columns.

- **New Well Status:**
  - The re-drilling of New ZP-1 well DD (C5101, 299-W11-86) (**Attachment 8**) will get started before the end of this month.
  - New ZP-1 well EE (C5102, 299-W14-71) and AA (C5103, 299-W14-72) are complete.
  - New ZP-1 wells CC and BB are scheduled to be installed starting in April 2007.
  
- **RI/FS Status:**
  - **FS Report:**
    - We made a short presentation to the HAB on January 9, 2007 on the status and approach of the ZP-1/PW-1 FS and baseline risk assessment.
    - The 2<sup>nd</sup> Stakeholder Workshop is currently being scheduled for February 7-8, 2007.
    - Detailed analysis of technologies is now complete.
    - Currently completing the detailed analysis of alternatives.
    - Detailed cost estimating will get started in the next few weeks.
    - We met with the DOE-ORP Tank Waste EIS team last week and updated them on the status of the ZP-1/PW-1 FS and baseline risk assessment and discussed general inputs and strategies we plan to use for modeling plume movement. This was our third meeting.
  
- **Tc-99 Investigation Status:**
  - Drilling has started on the T-4 well. They are currently at a depth of approximately 197 ft bgs.
  - The draft DQO summary report (WMP-28389) has been issued to DOE-RL for stakeholder review.

#### **200-PW-1 (200-ZP-2) OU**

- **Soil Vapor Extraction System (SVE):**
  - The SVE system is shut down for the winter.
- The passive system remains operational.
  
- Monthly monitoring results for November and December 2006 are presented in **Attachment 9**.

## **200-PO-1 GROUNDWATER OPERABLE UNIT**

January 17, 2007

### **GROUNDWATER OPERABLE UNIT STATUS**

#### **200-PO-1 OU**

- **DQO**

The DQO process continued for a 200-PO-1 OU investigation effort. Decision Makers meetings were held January 10-11 to review work in progress. A draft listing and screening of COPCs was completed and presented to be consistent with the efforts done at 200-ZP-1 and 200-UP-1 OUs.

- **SAP**

Work started on a draft 200-PO-1 Characterization SAP to support the RI/FS Work Plan development. This SAP along with the existing Monitoring SAP (DOE/RL-2003-04 Rev.1) will be included in the Draft A Work Plan due to Ecology September 30, 2007

- **WORK PLAN**

Work started on the 200-PO-1 Draft A Work Plan.

- **INTEGRATION**

The 216-A-4 well being drilled by waste sites has reached groundwater and will be completed as a 200-PO-1 OU monitoring well.

## 200-BP-5 GROUNDWATER OPERABLE UNIT

January 17, 2007

### GROUNDWATER OPERABLE UNIT STATUS

**DQO:** Sent to DOE 12/06/06 for Review awaiting comments.

**Drilling Status:** (See Figure 1, Attachment 10))

**"I" well:** Twelve soil sample intervals were collected. The samples were collected at 2.5' intervals from twenty feet above basalt. All samples collected were from the unsaturated zone as groundwater was not encountered before contact of basalt. The lower most sample interval included two split spoons. The last of these two split spoons encountered basalt. The sediments from these samples were moist. For more details on sampling plan see DOE/RL-2006-55, Rev. 0.

Well construction was completed 12/04/06.

Two water samples were collected, 12/05/06 and 12/06/06. The water samples may not be representative as approximated 1500 gallons of potable water was added during drilling through the basalt and no groundwater was encountered prior to drilling into the basalt. The second water sample was not originally planned, however, it was determined that the second water sample would provide comparative information as 540 gallons of additional water was pumped before this sample was collected. The second water sample costs were offset by encountering basalt and not analyzing for an additional soil samples.

**"J" well:** Eleven soil sample intervals were collected on Nov 20th and 21st. Eight of the sediment samples were collected from the vadose zone at 2.5' intervals above the aquifer. Three sample intervals were collected from the aquifer.

One groundwater sample was collected on Nov 28<sup>th</sup> at two feet above the basalt with a variable speed pump. The aquifer is approximately 10 feet thick at this location.

Well construction was completed 12/14/06.

**"F" well:** Drilling at F well has advanced to 212.5 ft bgs as of Jan 12th. Twenty-eight continuous split spoon samples have been collected from four intervals: 60-85, 105-120, 160-170 and 185-195. Grab samples have been collected from 60' bgs to current depth every 2.5 feet and are planned for the remainder of the borehole at this same increment. Currently no field instruments have detected contamination. At the completion of the borehole 5 split spoons will be analyzed from the various intervals for detailed physical property and geochemical analysis. This information will be used as a baseline standard for low permeability comparisons with future analysis from contaminated sites and provided for model development.

*Please Add highlighted  
Sections Attached.  
Thanks Greg*

from the various intervals for detailed physical property and geochemical analysis. This information will be used as a baseline standard for low permeability comparisons with future analysis from contaminated sites and provided for model development.

**Work Plan:** Internal review is completed and the decisional draft for DOE review is scheduled for January 22, 2007.

**HRR: Field work is on going.** (See Figure 2)

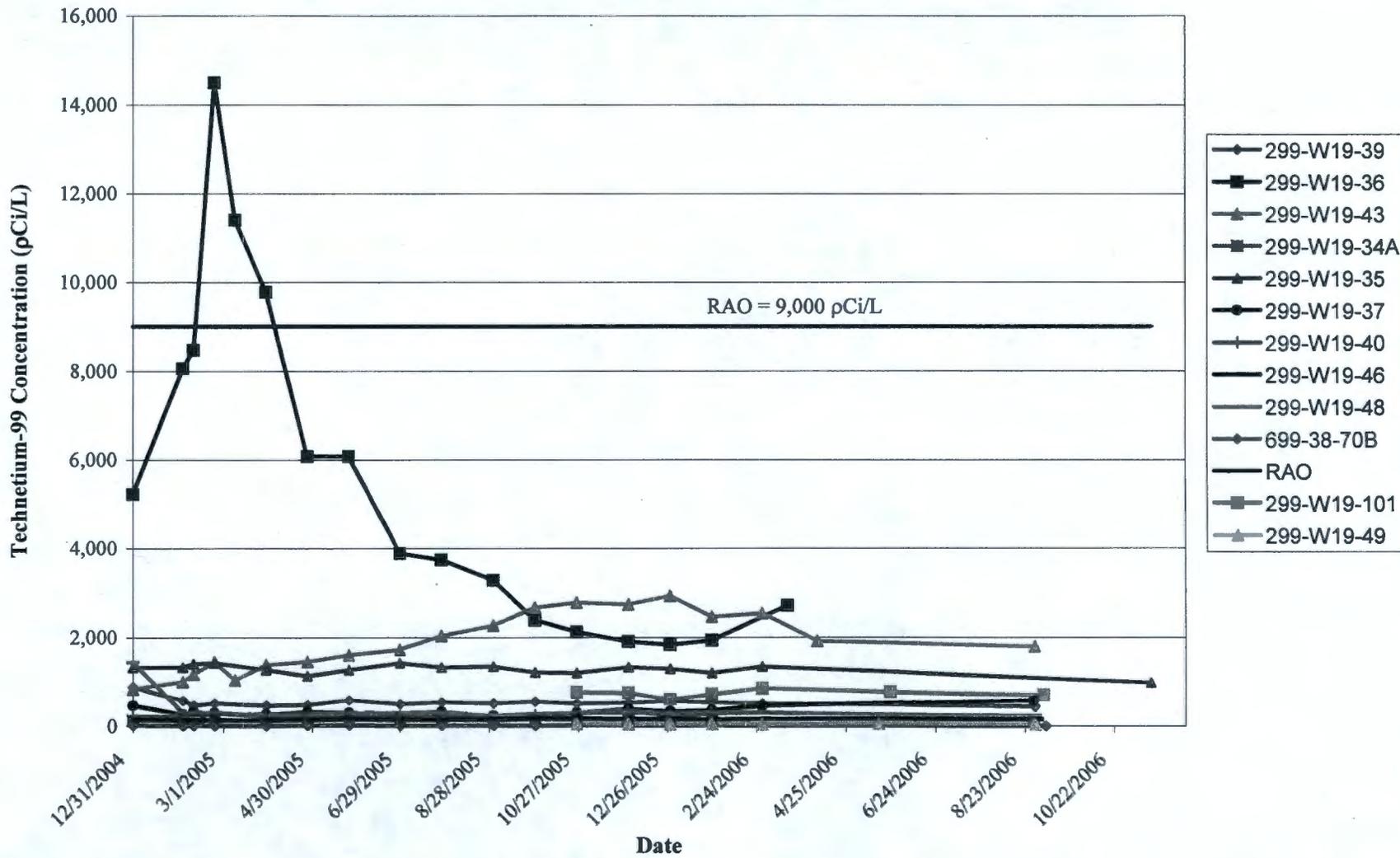
Integration between FH and CHG has been successful.

Currently installing remote electrodes. 8400 electrodes are being placed throughout the B/BX/BY WMA and adjacent waste sites.

Well to well surveys is planned for late March which will provide information for the aquifer.

**Groundwater Annual Report:** Review of the annual report began this week.

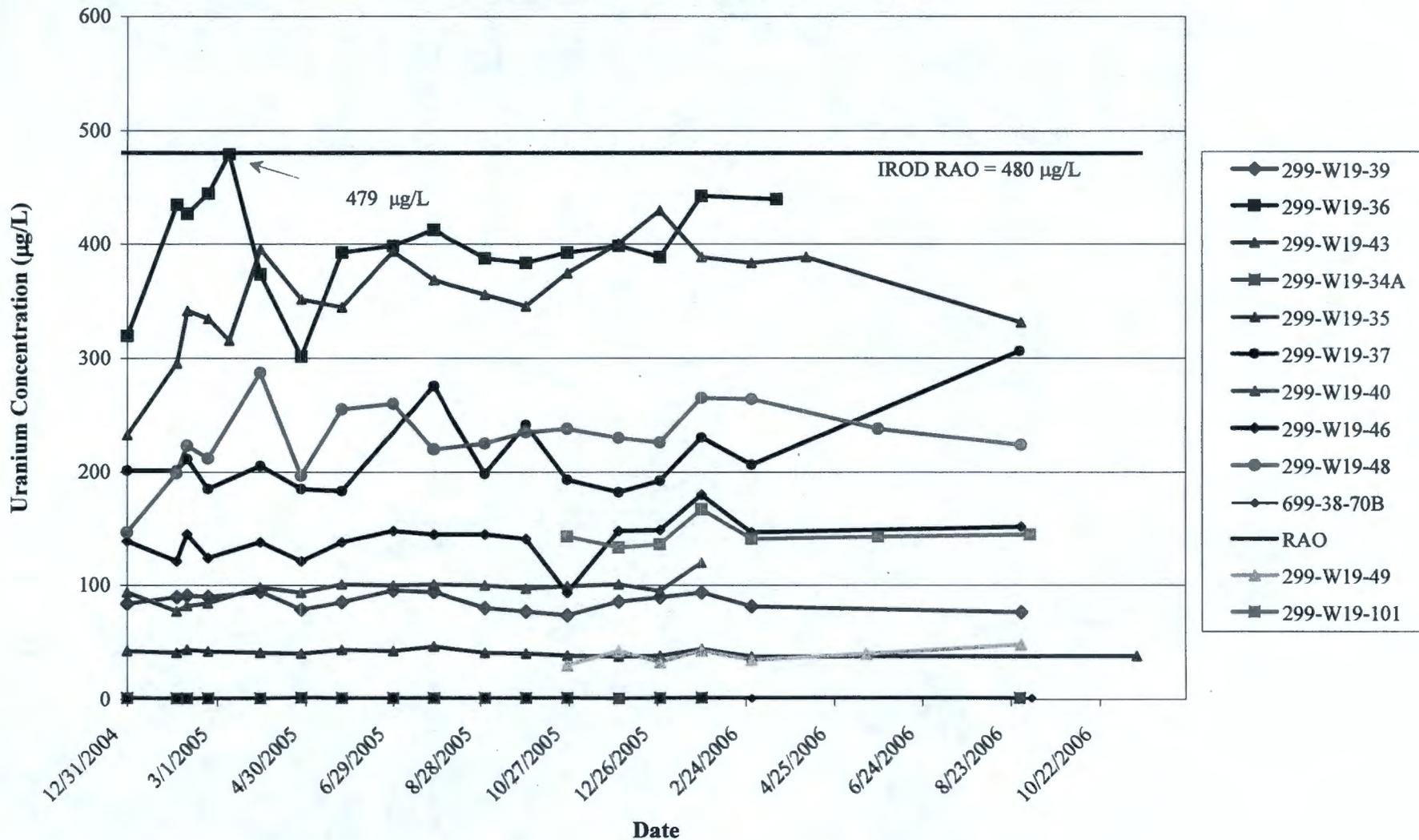
200-UP-1, Rebound Study, Technetium-99 (pCi/L)



Attachment 1

Attachment 4

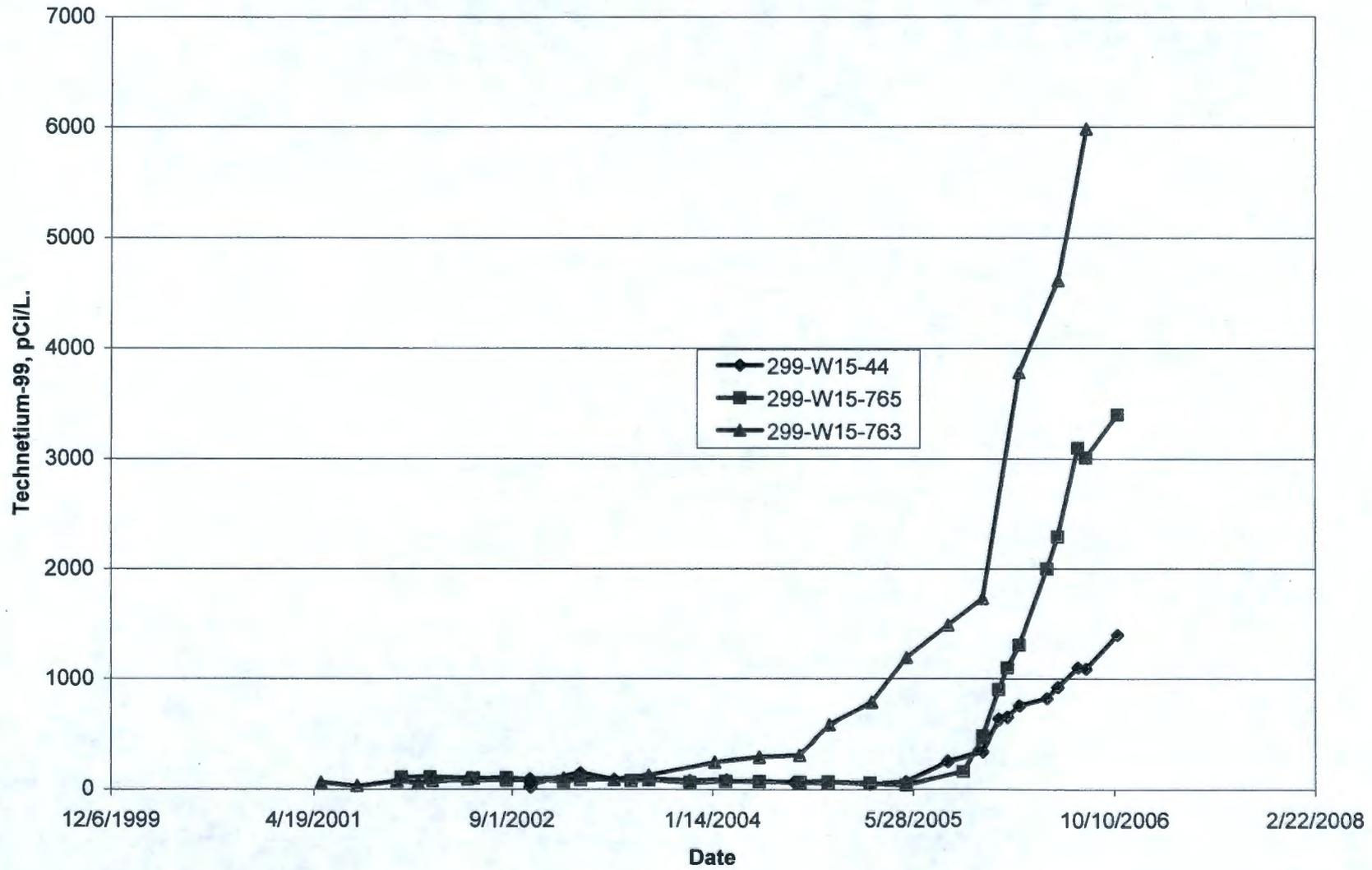
200-UP-1, Rebound Study, Uranium ( $\mu\text{g/L}$ )



Attachment 2

Attachment 5

### Technetium-99 at Extraction Wells 299-W15-44 and 299-W15-765



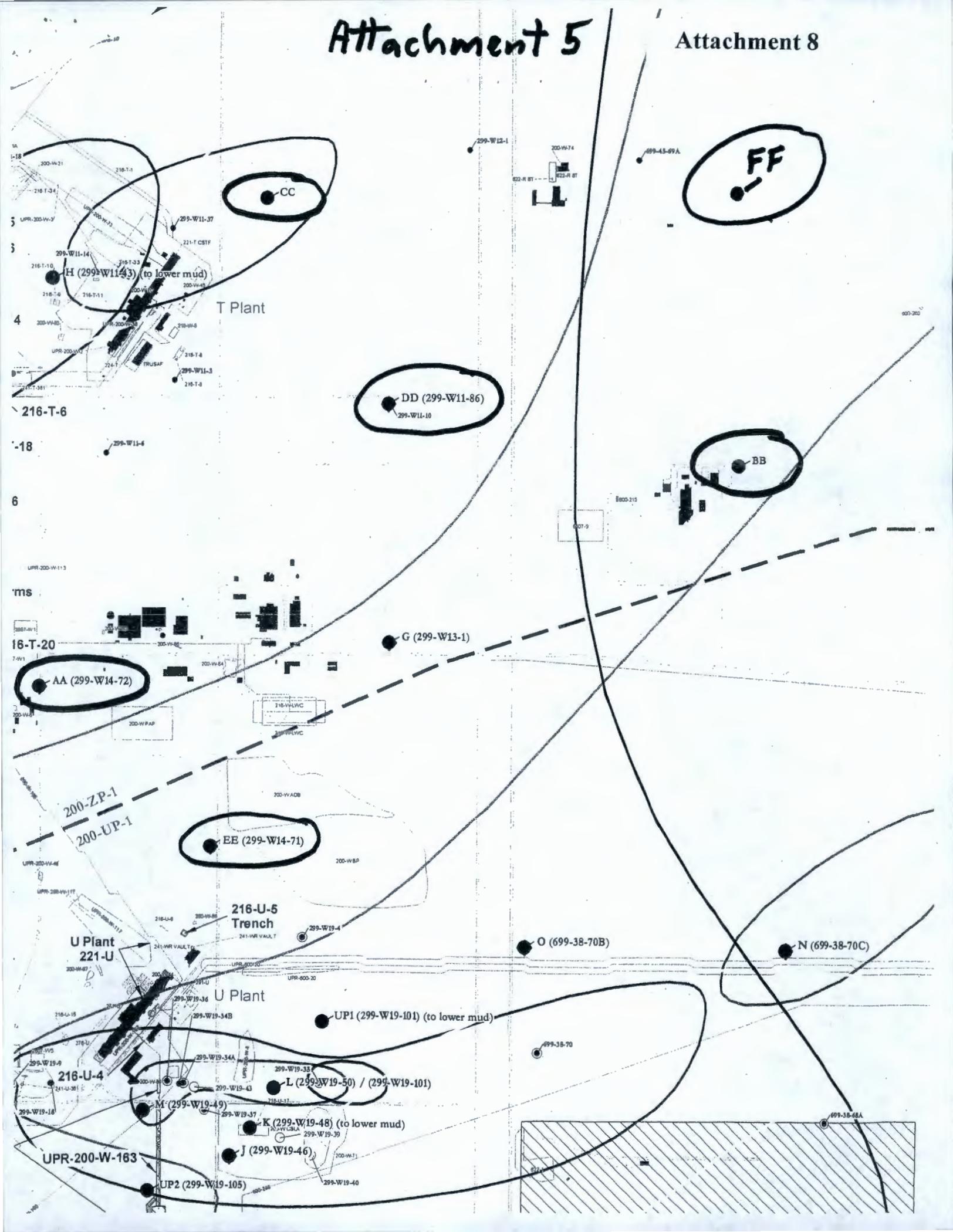
Attachment 3

Attachment 6



# Attachment 5

# Attachment 8



Comparison of Maximum Carbon Tetrachloride Rebound Concentrations  
Monitored at 200-PW-1 Soil Vapor Extraction Sites  
FY 2003 - FY 2007

200-PW-1 (200-ZP-2)	Location (Well or Probe)	Site	July 2002 (Z-9) or October 2003 (Z-1A) - March 2004		July 2002 (Z-9) or April 2004 (Z-1A) - September 2004		October 2004 - June 2005		July 2005 - June 2006		July 2006 - December 2006	
			Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound
79-03/ 5 ft	Z-18											
79-06/ 5 ft	Z-1A											
79-11/ 5 ft	Z-1A											
88-05/ 5 ft	Z-9											
88-05-01/ 5 ft	Z-9											
88-06/ 5 ft	Z-9											
87-05/ 5 ft	Z-1A											
87-09/ 5 ft	Z-1A											
94-02/ 5 ft	Z-9											
95-11/ 5 ft	Z-9											
95-12/ 5 ft	Z-9											
95-14/ 5 ft	Z-9											
CPT-13A/ 9 ft	Z-1A											
CPT-16/ 10 ft	Z-9											
CPT-17/ 10 ft	Z-9		9.0	21	9.9	27	11.4	5	2.5	12	1.2	3
CPT-18/ 15 ft	Z-9		2.4	21	2.5	27	3.1	5	0	12		
CPT-4A/ 25 ft	Z-1A											
CPT-27/ 15 ft	Z-9										0	3
CPT-4E/ 25 ft	Z-1A				2.4	0	2.4	9	2.4	0	0	3
CPT-16/ 25 ft	Z-9		2.6	21	3.6	27	4.4	5	1.6	12	1.0	3
CPT-31/ 25 ft	Z-12											
CPT-32/ 25 ft	Z-1A		5.9	6			8.6	9	6.4	6	2.1	6
CPT-30/ 28 ft	Z-18		0	6			1.6	9	1.2	6	0	3
CPT-13A/ 30 ft	Z-1A		1.8	6	1.9	0	8.3	9	4.1	0	5.8	6
CPT-7A/ 32 ft	Z-1A		9.5	6	1.9	0	4.4	9	3.8	0	2.6	6
CPT-27/ 33 ft	Z-9		2.7	21	2.7	27	8.4	5	1.8	12		
CPT-1A/ 35 ft	Z-12		18.3	6	18.0	0	14.0	9	17.2	0	13.4	6
CPT-18/ 35 ft	Z-9										0	3
CPT-28/ 40 ft	Z-9						5.4	0			5.5	0
CPT-33/ 40 ft	Z-18						3.9	9			1.6	3
CPT-34/ 40 ft	Z-18				1.8	0	3.0	9	2.0	0	1.3	3
CPT-21A/ 45 ft	Z-9						7.9	0				
CPT-30/ 48 ft	Z-18										4.2	6
W15-220ST/ 52 ft	Z-9											
CPT-9A/ 60 ft	Z-9		35.9	21	35.9	27	32.4	5	29.2	12	16.2	3
CPT-28/ 60 ft	Z-9						68.3	0				
CPT-C3872 / 63 ft	Z-1A						15.5	9	9.9	6	6.1	6
CPT-16/ 65 ft	Z-9				4.2	27	6.7	5	5.8	0		
CPT-21A/ 65 ft	Z-9		150	21	150	27	170	0	167	12	153	3
CPT-1A/ 68 ft	Z-12						13.7	9			13.2	3
CPT-30/ 68 ft	Z-18											
CPT-13A/ 70 ft	Z-1A											
CPT-24/ 70 ft	Z-9				9.1	27			5.2	12		
CPT-32/ 70 ft	Z-1A						5.5	9			4.3	3
W15-219SST/ 70 ft	Z-9				5.7	22						
CPT-4A/ 75 ft	Z-1A											
CPT-18/ 75 ft	Z-9				8.3	27			4.3	12		
CPT-31/ 76 ft	Z-12											
CPT-33/ 80 ft	Z-18											
W15-82/ 83 ft	Z-9		85.8	21	85.8	27	95.8	5	8.1	12	0	3
CPT-21A/ 86 ft	Z-9		244	21	244	27	209	5	223	12	194	3
CPT-34/ 86 ft	Z-18											
W15-95L/ 86 ft	Z-9											
W15-218SST/ 86 ft	Z-9											
CPT-28/ 87 ft	Z-9		258	21	258	27	246	5	245	12	216	3
CPT-4B/ 90 ft	Z-1A											
CPT-1A/ 91 ft	Z-12											
CPT-4A/ 91 ft	Z-1A											
CPT-9A/ 91 ft	Z-9											
W15-85/ 91 ft	Z-9											
W18-252SST/ 100	Z-1A											
W18-152/ 101 ft	Z-12		12.4	6			16.0	9	16.2	6	14.4	6
W15-8U/ 103 ft	Z-9								10.4	12	6.1	3
CPT-4E/ 103 ft	Z-1A											
W18-167/ 106 ft	Z-1A		266	6			196	9	174	6	0	6
CPT-4F/ 109 ft	Z-1A						11.9	9			2.9	3
W18-165/ 109 ft	Z-1A		205	6			35.2	9	394	6	0	6
W15-217/ 114 ft	Z-9		458	21	467	27	374	5	19.7	12	0	3
CPT-24/ 118 ft	Z-9				15.3	27			23.9	12		
W15-220SST/ 118	Z-9				26.0	27			25.2	12		
W18-158L/ 120 ft	Z-1A											
W15-219SST/ 130	Z-9				0	22						
W18-249/ 130 ft	Z-18		41.0	6			64.9	9	24.1	6	19.4	6
W18-248/ 131 ft	Z-1A		180	6			249	9	67.0	6	45.3	6
W15-95L/ 144 ft	Z-9		40.3	21	40.3	27	26.7	5	25.7	12	16.2	3
W15-219SST/ 155	Z-9				9.5	22						
W15-220L/ 163 ft	Z-9				7.5	27			13.2	12		
W15-219L/ 175 ft	Z-9				23.0	27			12.2	12		
W15-9L/ 176 ft	Z-9		13.1	21	13.1	27	2.1	5	5.4	12	4.7	3
W15-84L/ 180 ft	Z-9		25.9	21	25.9	27	23.0	5	14.0	12		
W15-6L/ 182 ft	Z-9											
W15-220SST/ 185	Z-9											
W18-7/ 197 ft	Z-1A											
W18-12/ 198 ft	Z-18											
W18-8L/ 208 ft	Z-1A											
W15-46/ 217 ft	Z-9								4.7	12	0	3

\* - based on location (Z-1A/18/12 or Z-9) of monitoring point; specific points may be beyond SVE zone of influence during particular operating configurations

- Z-18 and Z-12 wells off-line Oct 96 - Apr 98

- CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct 96 based on differential pressure (BHI-01105, p. 6-1)

- CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May 96 based on CCl4 concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)

Carbon Tetrachloride Rebound Concentrations  
Monitored at 200-PW-1 Soil Vapor Extraction Sites  
October 2005 - December 2006

200-PW-1 (200-ZP-2)		10/25/2005	11/01/2005	11/28/2005	12/20/2005	01/26/2006	02/23/2006	03/28/2006	04/28/2006	05/26/2006	06/29/2006	07/26/2006	08/30/2006	09/26/2006	10/25/2006	11/30/2006	12/19/2006
Location (Well or Probe) /feet bgs	Site	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)
CPT-17/ 10 ft	Z-9	--(n)	1.4	1.2	1.2	1.3	1.5	1.7	2.0	2.2	2.3				1.2	1.2	1.2
CPT-18/ 15 ft	Z-9	0		0	0	0	0	0	0	0	0						
CPT-27/ 15 ft	Z-9														0	0	0
CPT-4E/ 25 ft	Z-1A								2.4	1.7	0	0	0	0			
CPT-16/ 25 ft	Z-9	1.6		1.2	1.4	1.1	1.1	1.1	1.0	0	0				0	1.0	0
CPT-32/ 25 ft	Z-1A			1.1	3.4	4.0	4.8	6.4				0	0	0	0	1.2	2.1
CPT-30/ 28 ft	Z-1A	1.2		0	1.1	0	0	0				0	0	0			
CPT-13A/ 30 ft	Z-1A	3.6		4.1	3.9	3.6	3.5	3.3	3.6	3.8	3.3	2.4	2.5	2.4	3.3	2.9	5.8
CPT-7A/ 32 ft	Z-1A	2.3		2.7	2.2	2.8	3.3	3.8	2.4	2.4	1.8	2.0	1.9	1.2	1.9	2.5	2.6
CPT-27/ 33 ft	Z-9	1.8		0	0	0	0	0	0	0	0						
CPT-1A/ 35 ft	Z-12	17.2		9.1	3.6	7.7	6.0	7.4	6.2	8.9	13.2	11.0	13.4	10.2	10.0	4.6	5.1
CPT-18/ 35 ft	Z-9														0	0	0
CPT-28/ 40 ft	Z-9											5.5	4.3	4.8			
CPT-33/ 40 ft	Z-18											0	1.3	1.6			
CPT-34/ 40 ft	Z-18	1.8							1.3	1.7	1.2	0	1.3	1.3			
CPT-21A/ 45 ft	Z-9																
CPT-30/ 48 ft	Z-9														0	4.2	3.1
CPT-9A/ 50 ft	Z-9	52.8		50.9	50.6	48.1	50.4	46.1	46.9	49.0	39.1	32.8	40.7	43.3	30.6	42.6	42.0
CPT-9A/ 60 ft	Z-9	25.5		21.2	18.6	17.4	11.4	16.0	17.3	24.4	13.3	12.8	9.6	15.7	14.2	16.2	13.1
CPT-28/ 60 ft	Z-9																
CPT-C3872 / 63 ft	Z-1A	4.0		4.3	3.7	5.1	6.3	9.9				2.1	2.2	2.4	3.5	5.5	6.1
CPT-9A/ 64 ft	Z-9	38.6		36.9	36.9	33.4	36.2	36.6	33.1	36.4	33.1	33.8	33.8	33.9	28.1	32.3	28.9
CPT-16/ 65 ft	Z-9								5.3	5.6	4.6						
CPT-21A/ 65 ft	Z-9	151		137	140	139	146	145	139	160	137	153	132	137	123	120	123
CPT-1A/ 68 ft	Z-12											13.2	12.5	5.6			
CPT-24/ 70 ft	Z-9								4.4	5.2	4.3						
CPT-32/ 70 ft	Z-1A											4.2	4.3	3.5			
W15-219SST/ 70 ft	Z-9																
CPT-18/ 75 ft	Z-9								3.4	3.7	4.3						
W15-82/ 83 ft	Z-9	8.1		1.4	--(m)	--(m)	--(m)	--(m)	2.2	6.8	0				0	0	0
CPT-21A/ 86 ft	Z-9	208		196	--(p)	186	194	201	192	204	165	179	171	194	159	169	164
CPT-28/ 87 ft	Z-9	241		219	224	213	226	217	217	223	174	180	185	216	181	202	196
W18-152/ 101 ft	Z-12	12.7		14.2	14.5	15.4	15.2	16.2				10.8	12.5	13.3	13.0	14.4	13.8
W15-8U/ 103 ft	Z-9	10.4		2.6	5.1	3.1	4.5	1.3	1.5	2.8	5.5				2.4	6.1	1.2
W18-167/ 106 ft	Z-1A	63.1		174	--(m)	--(m)	--(m)	--(m)				0	0	0	0	0	0
CPT-4F/ 109 ft	Z-1A											1.2	2.9	0			
W18-165/ 109 ft	Z-1A	65.1		394	220	161	160	164				--(q)	0	0	0	0	0
W15-217/ 114 ft	Z-9	16.1		1.7	8.4	11.5	19.7	12.1	1.0	8.6	0				0	0	0
CPT-24/ 118 ft	Z-9								22.9	23.9	16.0						
W15-220SST/ 118 ft	Z-9								17.9	22.0	21.5						
W18-249/ 130 ft	Z-18	22.5		22.0	12.2	12.4	17.1	24.1				4.6	19.4	18.1	16.8	18.4	8.8
W15-219SST/ 130 ft	Z-9																
W18-248/ 131 ft	Z-1A	67.0		23.1	--(m)	--(m)	--(m)	--(m)				--(m)	27.2	43.0	42.1	45.3	30.7
W15-95L/ 144 ft	Z-9	15.8		16.7	19.0	19.9	22.6	20.6	17.8	17.8	25.7				10.0	16.2	15.3
W15-219SST/ 155 ft	Z-9																
W15-220L/ 163 ft	Z-9								2.4	9.3	7.3						
W15-219L/ 175 ft	Z-9								4.5	12.2	11.7						
W15-9L/ 176 ft	Z-9	4.0		0	0	4.0	5.4	3.5	1.5	2.4	0				4.7	2.3	2.2
W15-84L/ 180 ft	Z-9								4.2	14.0	4.1						
W15-46/ 217 ft	Z-9	3.0	--(o)	0	0	4.7	--(p)	2.1	0	2.6	0				0	0	0
		(m) Unable to sample; well in use by Vista Engineering															
		(n) Unable to sample; aboveground tubing needs to be repaired. Repaired and sampled on 11/1/2005.															
		(o) On 10/25/05, well 299-W15-46 sampled at a depth of approximately 172 ft. E-tape could only be advanced to a depth of 173 ft.															
		(p) Unable to pull representative sample.															
		(q) Unable to sample; well in use for geophysical logging															

Carbon Tetrachloride Concentrations  
 Monitored at 200-PW-1 Passive Soil Vapor Extraction Wells  
 October 2005 - December 2006

200-PW-1 (200-ZP-2)	10/19/2005	11/23/2005	12/15/2005	1/27/2006	2/28/2006	3/27/2006	4/28/2006	5/26/2006	6/29/2006	7/26/2006	8/29/2006	9/26/2006	10/26/2006	11/28/2006	12/20/2006
Location (Well or Probe)	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4	CCI4
/feet bgs	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)
W18-6L/ 208 ft	19.8	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	15.8	3.7	1.4	0
W18-7/ 197 ft	0	9.2	11.7	15.8	16.2	15.3	33.8	20.3	5.9	11.0	15.3	0	5.6	6.0	2.1
W18-10L/ 183 ft	8.4	11.6	4.0	12.1	13.0	3.9	14.1	11.4	11.2	10.0	12.7	11.7	0	0	2.0
W18-11L/ 199 ft	0	5.9	0	7.6	9.0	0	5.4	7.2	1.8	3.0	8.4	1.3	0	0	0
W18-12/ 198 ft	0	1.6	0	4.9	9.4	1.3	0	2.4	0	0	4.8	0	0	0	0
W18-246L/ 170 ft	13.0	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	3.7	1.7	0	0
W18-247L/ 167 ft	0	0	2.4	5.1	7.6	0	3.0	1.8	1.3	0	5.7	1.0	0	0	0
W18-252L/ 175 ft	0	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)	---(b)
(b) in use by Vista Engineering for cross-well seismic investigation															

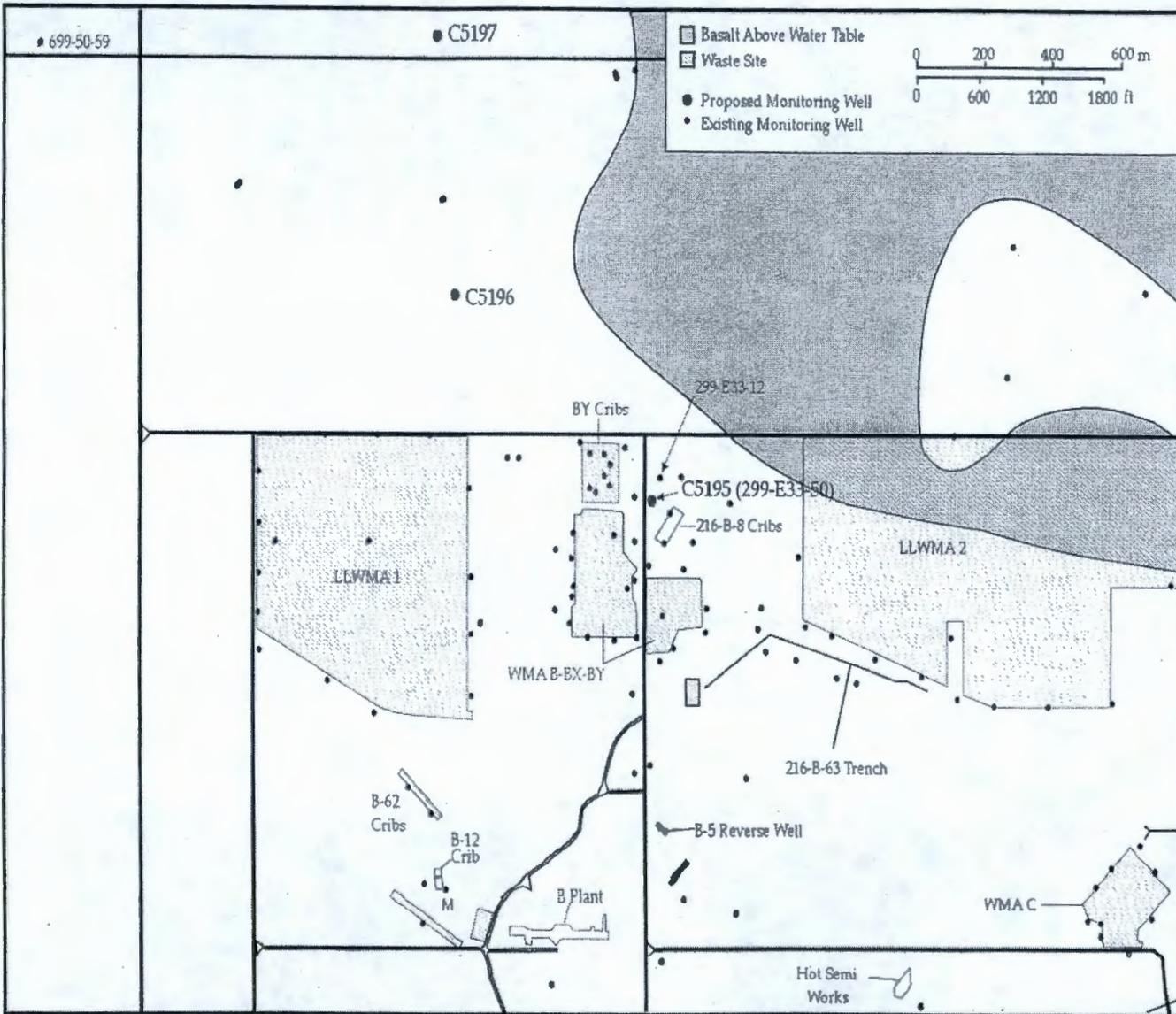
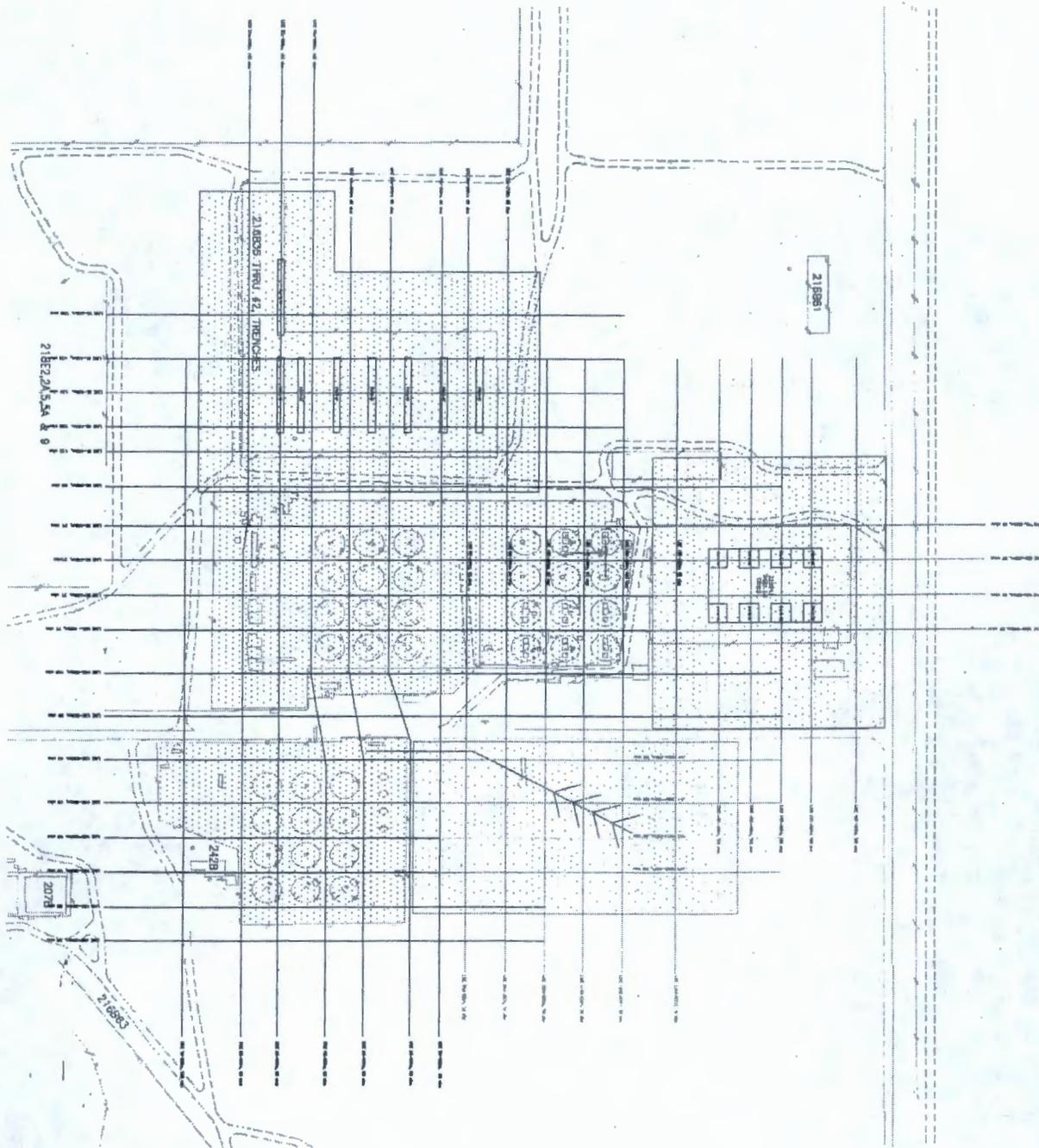


Figure 1. Locations of Proposed Wells Associated with 200-BP-5 Operable Unit.

Figure 2 Surface Geophysical Exploration Investigation Area



## **200 AREA UNIT MANAGERS' MEETING SOURCE OPERABLE UNITS AND FACILITIES STATUS**

January 17, 2007

### **SOURCE OPERABLE UNITS STATUS**

#### **M-15 TPA Milestones**

- The public comment period is closed for the "Proposed Tri-Party Agreement Modifications for Central Plateau Waste Site and Groundwater Remediation" (a.k.a. M-15 Tentative Agreement). Responses to comments have been prepared and the Parties are reviewing those responses. The change requests within the package should be signed by the end of the month.

#### **200-PW-1, 200-PW-3, & 200-PW-6**

- Comment resolution for EPA comments is being drafted and discussed with EPA.
- Vista Engineering completed vadose zone sampling at 9 locations in the Z-9 area on 11/28 using the Hydraulic Hammer Rig for subsurface access. Three locations were completed to allow future vapor sampling. Vista collected the final vapor samples on 01/08/07.
- Vista Engineering completed collecting data on 01/08/07 from the two instrument trees installed in the air space of the 216-Z-9 trench in May 2006.

#### **200-TW-1, 200-TW-2 & 200-PW-5**

- Draft Addendum to the Work Plan addressing the excavation-based BC Cribs and Trenches Area waste sites treatability test was submitted to EPA 12/22/06.

#### **200-CW-1 & 200-CW-3 (no change)**

- On October 16<sup>th</sup> met with EPA to present the path forward. The project is moving forward with geo-logging and push sampling for waste characterization.

#### **200-PW-2 & 200-PW-4 (no change)**

- At the October UMM Ecology stated that subsequent to the finalization of the M-15 TPA Change Request, Ecology plans to send a letter to DOE-RL responding to the submitted FS including a resultant path forward.

#### **200-CS-1**

- RL has determined that no additional meetings are needed to support developing responses to Ecology comments. To that end RL is planning to submit to Ecology by January 19, 2007, a proposed comment response package. Of the 330 Ecology July 3, 2006 comments, RL proposes: to incorporate 276 comments, as clarified, in the Draft B FS; that 46 comments directly relate to policy or plateau-wide issues; and specific comment responses for 8 comments. Subsequently, RL proposes a one-day workshop with Ecology to be held during the week of February 5, 2007, to conclude

comment resolution and to present for discussion the path forward for the development of Draft B of the FS.

**200-CW-5, CW-2, CW-4, & SC-1 (no change)**

- Initiated Z-Ditch Study.

**Ecological Risk Assessment (no change)**

- Phase III soil sampling activities began on 11/06/06. All biota and soil sampling activities have been completed. A radiological survey is required at one of the offsite reference sites. This was prevented because of snow cover.
- Two of the Phase III West Lake activities will be performed in March, 2007, including pore water and brine fly sampling. This is because the SAP was approved in October, after West Lake had dried-up and the flies were no longer present.
- The Ecological Risk Assessment Report is undergoing initial text development.
- The March 2005 sampling performed in the BC Controlled Area to verify the presence or absence of chemical constituents will be repeated because a QC duplicate sample was not collected according to plan. This characterization is very important because it supports the establishment of the COPEC list for the Central Plateau Phase II Ecological DQO and the COPC list for the 200-UR-1 Work Plan. The sampling and analysis instruction will be revised and re-issued to support this characterization effort.

**200-IS-1 & 200-ST-1 (no change)**

**200-LW-1/200-LW-2 (no change)**

- Responses to Ecology's RI Report comments have been prepared for submittal to Ecology. Submittal of Draft A of the FS and PP has been delayed to 3/31/07, per TPA Change Number M-15-06-05.

**200-MW-1**

- Drilling of the 216-A-4 borehole to 315' bgs (planned depth) was completed on January 4, 2007. Continued drilling and completion of the well was turned over to GW (PO-1 OU). Total depth at 356' bgs was achieved on January 10, 2007.
- New (unplanned) field work at 216-A-2 crib and 216-A-21 was identified in the supplemental DQO process. Initial planning for this field work has started.

**200-UR-1 (no change)**

- Rev. 1 of the Sampling and Analysis Plan is in the Department of Ecology approval process. Conditional approval to proceed for field sampling activities was given by e-mail on December 13, 2006.
- Non-Intrusive surveys for BC Controlled Area completed September 27, 2006.
- Geoprobe logging for the BC Controlled Area scheduled to begin in February.

### 200-SW-1/2

- Collaborative DQO workshops have been underway since late August, and will require more time than originally planned. It was noted during this meeting that additional DQO workshops will affect the planned completion date for the RI/FS Work Plan, Draft B (a proposed TPA interim milestone, M-13-028). Further discussion on this topic will be held with DOE and Ecology.
- Decision makers from DOE-RL, Ecology and EPA met on November 9, 2006 to review, comment and ensure alignment on the 200-SW-2 DQO scope, objective and assumptions. Four of eleven agenda items were addressed during the November meeting. Preparations are underway for additional meetings.
- Results from the second phase of surface geophysics were recently published in D&D-30708, "*Geophysical Investigations Summary Report – 200 Areas Burial Grounds: 218-E-1, 218-E-8, 218-E-12A, 218-W-1, 218-W-2, 218-W-3 and 218-W-11*".
- Report D&D-31260, "*Historical Information Associated with Burial Grounds in the 200-SW-2 Operable Unit*," was recently published to serve as introductory material for participants in the 200-SW-1 and 200-SW-2 DQO workshops.

### BC Cribs and Trenches

- Draft DQO summary reports have been prepared that addresses the excavation-based treatability test and correlation of HRR characterization with soil characterization data. Final comment incorporation is in progress.

### 200-UW-1

- 200-W-42 VCP / UPR-200-W-163 – All Time Critical Removal Action (TCRA) excavation completed and Phase I portion backfilled on 9/30/06. Phase II backfill pending resolution of >15' deep contamination. A BCR is being prepared which will establish priorities considering available funding. Excavation area monitoring (contamination and air) continues.
- ROD is being updated and reviewed to reflect recent path forward. Schedule is being reviewed and is expected to show additional delays in the ROD. Public comment of the Proposed Plan was completed on June 30, 2005. Increased focus is needed to prioritize the issuance of this decision document.
- Responsiveness summaries to public comments on TPA Change Request for reclassifying Crib 216-U-12 to a RCRA Past Practice (RPP) unit will be sent for final review week of 1/15/07.
- TPA Change Request to change 216-U-15 from a CPP to a RPP has been reviewed and updated. Package will be transmitted with U-12 package for final review. No public review is anticipated for this portion of the change request.
- RAGs for 200-UW-1 need to be finalized. Several peer reviews have been completed. Presentations are planned for RL senior management the week of 1/15/07. Presentation to regulators is scheduled for end of January. Due to contamination >15' depth at 200-W-42 excavation (and possible need for this information in the ROD), establishing acceptable goals is a high priority.

- Challenges to the Area C cultural review are being made by Yakama Tribes and Washington State Department of Archaeology & Historic Preservation (DAHP). Path-forward is under RL review.
- Phase II of the 241-U-361 Settling Tank (sampling tank sludge) has begun. Tri-party support is needed for timely issuance of the SAP in early February 2007

## FACILITIES STATUS

- **221-U Facility/Canyon Disposition Initiative (CDI)**
  - Continuing development of remedial design engineering alternatives studies
    - Grout study (June 2007)
    - Cell 30 tank contents removal study (June 2007)
  - Draft A *Remedial Design/Remedial Action Work Plan for the 221-U Facility* and an accompanying draft TPA change form were transmitted for EPA and Ecology review on 12/21/06. *milestone package C.E.C./LDR*
  - Continuing development of canyon waste acceptance study (June 2007)
  - Gathering information to support initiation of PUREX canyon collaborative DQO in February 2007
- **Facility Binning (no change)**

A preliminary draft of an Agreement-in-Principle for proposed TPA revisions related to facility binning path forward is in review at DOE-RL.
- **Miscellaneous Facility D&D**

Completed structural demolition of Buildings 2231E, 2232E, 2233E, MO-943 and 2710-E. Initiated demolition of MO-991 and mobilized the excavator and shear to demolish MO-040. Three additional buildings are scheduled to be demolished in FY 2007.

**Issue Resolution Meeting  
Agreements and Issues List  
January 17, 2007  
200 Area Unit Managers' Meeting**

- **None Identified**

**200 Area Unit Managers' Meeting  
OPEN ACTION ITEMS & TRACKING**

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Date Complete	Status
78	Present IS-1 DQO briefing to HAB. RL to request time slot on HAB River & Plateau Committee for this briefing.	DOE-Leary	All	8/23/06	9/21/06	4/15/07		November date could not be met. Due date pushed 4 months per K. Leary.
80	Send report from Remedial Action Decision Making panel (Tom Fogwell)	FH-Byrnes	ECY/EPA Price/Goswami/Cameron	10/18/06	11/16/06	1/17/07		Panel requested more time to complete their report.
86	Confirm number of boreholes required for BC Crib. How many (3 or 5) are identified in the baseline?	DOE-Foley	ECY/EPA	1/17/07	2/15/07			