

**DISTRIBUTION
UNIT MANAGERS' MEETING,
200 AREA GROUNDWATER SOURCE OPERABLE UNITS**

0063946

EPA

Craig Cameron

B5-01

Ecology

John Price

H0-57

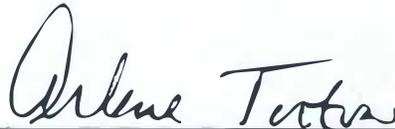
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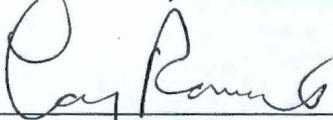
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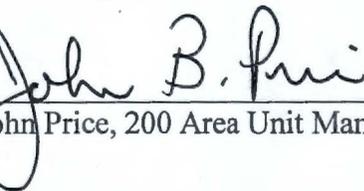
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**Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin Avenue, Richland, Washington
June 17, 2004**

APPROVAL:  Date: 2/17/05
Arlene Tortoso, Groundwater Unit Manager, DOE/RL

APPROVAL:  Date: 2-17-05
Larry Romine, Federal Project Director, 200 Area D4 & Waste Site
Remediation, DOE/RL

APPROVAL:  Date: 2/17/05
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL:  Date: 2/17/05
John Price, 200 Area Unit Manager, Ecology

Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Agenda
Attachment 2	--	Attendance Record
Attachment 3	--	200 Area UMM Minutes – June 17, 2004
Attachment 4	--	200 Area Current Action Log
Attachment 5	--	Float Table
Attachment 6	--	200-UP-1, 200-ZP-1 and 200-PW-1 Status Report
Attachment 7	--	Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 Soil Vapor Extraction Sites FY 1998- FY 2004
Attachment 8	--	Groundwater Remediation Project, 2 nd Quarter FY 2004 "Draft"
Attachment 9	--	CW-1 Timeline
Attachment 10	--	CW-5 Information Sheet

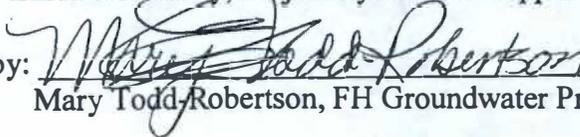
Prepared by:



Linda DeLannoy, Project Systems & Support (H8-49)

Date 1-26-05

Concurrence by:



Mary Todd Robertson, FH Groundwater Protection Program (E6-35)

Date 2/9/05

UNIT MANAGERS' MEETING AGENDA

1200 Jadwin Avenue

June 17, 2004

9 a.m. – 12 p.m. 200 Area Room 1C1

Project Managers or Delegates – Only Meeting (1hour)

- Review & Prioritize Issues

General (20 minutes)

- Float Table
- Revise and Approve TPA Quarterly Draft Presentation
- IAMIT CP Work Group Status/200 Area ROD Strategy
- Outstanding Action Items

HIGH PRIORITY ACTIONS

U Plant Area Regional Closure (15 minutes)

- CDI ROD Schedule Review
 - Ancillary Facilities EE/CA Schedule for Regulatory Review
- 200-UW-1 Status
 - Pipelines EE/CA Schedule for Regulatory Review
 - Soil Waste Sites status
 - FFS/PP Status
 - Drive casing/Spectra Gamma
 - Status of Design Efforts/Schedule for Regulatory Review

200-TW-1, 200-TW-2, & 200-PW-5 (10 minutes)

- 200-TW-1 Confirmatory DQO and SAP Schedule
- Status of RI Report
- Status of 200-TW-1-FS and PP
- Proposed Schedule for 200-TW-2 and 200-PW-5

GROUNDWATER OPERABLE UNITS

General (5 minutes)

- Update on Well Decommissioning
 - RFP Being Prepared for FY2005 Webster Type Wells

200-BP-5 & 200-PO-1 OUs (5 minutes)

- 200-BP-5
 - Sample Collection/Well List Status
 - Sampling and Analysis Plan Revisions Beginning
- 200-PO-1 Status of Detailed Schedule Development

200-UP-1 OU (5 minutes)

- Remediation Treatment Status
- RI/FS Work Plan Status – Received Ecology Comments on Draft B
- Started Drilling New Monitoring Well “P”
 - New Monitoring Wells “K” and “R” Will Follow.
- Met with Ecology June 2, 2004, to Discuss Rebound Study Option
 - Currently Preparing Operating Plan for Rebound Study

200-ZP-1 OU (5 minutes)

- Remediation Treatment Status
- RI/FS Work Plan Status – Final Going Through Signature Process
- DOE-RL Update on DNAPL Subcontractor Selection
- Update on Expanding Extraction Well Network to North

SOURCE OPERABLE UNITS**200-PW-1, 200-PW-3, & 200-PW-6 OUs (15 minutes)**

- Schedule Review
 - Remediation Treatment Status
 - Monthly Monitoring
 - Status of Field Work Preparation and Planning
 - Status of Field Work at 216-Z-9

200-CW-1 & 200-CW-3 OUs (10 minutes)

- Schedule Review
 - Status of FS and PP
 - Current Status Spring Sampling

200-PW-2 & 200-PW-4 OUs (5 minutes)

- Schedule Review
 - Status of Work Plan
 - Status of RI Report

- Status of Field Planning for 216-S-7 Borehole

200-CS-1 OU (2 minutes)

- Schedule Review
 - Status of RI Report – RI Report is in Review by Ecology

200-CW-5, CW-2, CW-4, & SC-1 OUs (10 minutes)

- Schedule Review
 - Status of Work Plan
 - Status of RI Report
 - Disposition of FS
 - Discussion of Path Forward

200 Area Ecological Evaluation (5 minutes)

- Schedule Review
 - Status of Eco DQO
 - Status of Eco Evaluation Report
- Overview of Eco Activities
 - Spring Sampling Progress

200-IS-1 & 200-ST-1 (5 minutes)

- Schedule Review
 - Status of Work Plan – Review Issues to Resolve for October Work Plan Submittal
 - Status of ORP/RL Work on Pipeline Strategy – Status of discussions between RL and ORP; What Interface Agreements are Needed?

200-LW-1/200-LW-2 (2 minutes)

- Status of Field Planning

200-MW-1 (2 minutes)

- Status of Field Planning

200-UR-1 (10 minutes) Schedule Review

- Status of DQO and Work Plan

200-SW-1/2 (5 minutes)

- Schedule Review
 - Status on Ecology and EPA Discussions

Groundwater and Source Operable Units Unit Managers' Meeting
Official Attendance Record – 200 Area
June 17, 2004

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Kevin Leary	DOE-RL	U-Plant	373-7285
Julie Robertson	FH	U-Plant	376 8162
Arlene Tortoso	DOE-RL	200 Area Groundwater	373-9631
John Price	Ecology	Proj Mgr	372-7291
Briant Charbonneau	DOE	GW Proj Dir	373-6137
Brenda Jentzen	Ecology	PW 2.4 IS/ST	372-7912
Mary Todd-Robertson	FH	200 Area WS Remedial Action	373-3920
Lee J Farrey	FH	admin/200 Area	373-3854
Bryan L. Foley	DOE-RL	200 Area	376-7087
Bruce Ford	FH	GW Panel Proj	373-3809
Lanny Dusek	FH	Old Projects	438-1756
Dennis Paul	EPA		
Craig Cameron	EPA	Proj. mgr.	376-8665
Jane V Borghese	FH	G-RP-GW	373-3804
Craig Owanson	FH	Techn. Spt.	373-3807
Mark Byrnes	FH	Task lead	373-3996
Zelma Jackson	Ecology	HG	372-7910
Beth Rochette	Ecology	200 area comm GW-1, UR1	372-7922
Dan Teimour	FH		308-6513
Colin Murphy	FH TRAI		376-8868
John W. Jernaldor	FH/GRP	ECO	372-8144
Mike Burch	"	BC Conts...	376-0002
Michael Huey	FH	TASK LEAD	373.3092
Dave Erb	FH	IS-I	373-4457

MEETING MINUTES
200 AREA UNIT MANAGERS' MEETING -- 200 AREA
June 17, 2004

Agenda: See Attachment #1

Attendees: See Attachment #2

Table of Issues:

IAM IT	UMM	ISSUES MTG	ISSUES	AGREEMENTS	FOLLOW- ON ACTION
	X	X	Points of calculation		Ecology set up meeting by 6/25
	X		Rod Strategy		
	X	X	200-IS-1 OU –RL/ORP Agreements on scope (pipeline) by Oct 2004, clear delineation of sites, TSD vs. RPP status		RL/ORP meeting with ecology on pipeline proposal by July 2 nd (RL- Foley)
	X		RCRA/CERCLA Integration		
			200- SW-2 OU – Collaborative negotiations on TPA milestone, request for commitment within 1 week, outstanding Issues (40CFR191; criteria for use of process building)		RL respond to Ecology request (Oct/Nov) to collaborate negotiations
			D&D representation at UMM	Lanny Dusek already invited	
			U-plant tech discussion on wells		RL (Thompson) to set up meeting by 6/25

Project Managers or Delegates – Only Meeting

- Review & Prioritize Issues – Issues were stasured

Topics of Discussion:

1. General

- Float Table – The float table was handed out. It was mentioned that the float table should be distributed the week before the UMM.
- Revised and Approved TPA Quarterly Draft Presentation – (attached)
- IAMIT CP Work Group Status/200 Area ROD Strategy – Ecology reported that they were getting closer to discussing a strategy for grouping.
- Outstanding Action Items – Ecology indicated that they were still looking for a clear definition of what constitutes the Central Plateau.

HIGH PRIORITY ACTIONS

2. U Plant Area Regional Closure

- CDI ROD Schedule Review – Incorporating last of comments from EPA, expect to have draft complete by July 1, 2004.
 - Ancillary facilities EE/CA Schedule for Regulatory Review – EPA voiced a concern regarding obtaining approvals without formal transmittals.
- 200-UW-1 Status
 - Pipelines EE/CA Schedule for Regulatory Review – Deferred to FY 2005, scope for 2005, 2006 is EE/CA and action memorandum.
 - Soil Waste Sites Status
 - FFS/PP Status – Have not proposed a draft schedule for draft C. Plan is to provide the draft schedule to RL by August 11, 2004, and to EPA by August 31, 2004.
 - Drive Casings/Spectral Gamma – Work is complete (39 DPTs). A borehole summary report documenting the results will be finalized the end of September, 2004.
 - Status of Design Efforts/Schedule for Regulatory Review – NPL form eliminated by RL during review.

3. BC Cribs Area Closure

- Confirmatory DQO and SAP – An initial strawman workbook was reviewed informally with RL. Following incorporation of comments, it will be reviewed similarly with EPA.
- Tc Plume Delineation – A contract was awarded to PNNL to employ advanced geophysical characterization techniques to delineate the Tc-99/nitrate plume in the vicinity of the 216-B-26 Trench.

4. 200-TW-1, 200-TW-2, & 200-PW-5

- 200-TW-1 Confirmatory DQO and SAP Schedule – Meetings were held with DOE this month. Planning to complete something in the next two to three weeks. A list of waste sites outside of BC Cribs was requested.
- Status of RI Report – Updated STOMP modeling of the 216-T-26 waste site was provided to EAP and USGS for review. Input is expected from USGS sometime after July 19, 2004.
- Status of 200-TW-1 FS and PP – No action at this time, put on hold. The FS is being partitioned to separate the BC Cribs and trenches area waste sites separately. Following issuance of a ROD for those waste sites the remainder of the waste sites will be addressed in a revised FS and associated PP. A meeting with EPA and Ecology was requested to review the path forward for these remaining waste sites. Ecology requested for FH to provide a listing of wells in relation to the Focused Feasibility Study.

GROUNDWATER OPERABLE UNITS

5. General

- Update on Well Decommissioning – RFP being prepared for FY 2005 Webster Type Wells (70-100). Contract to be awarded August 2004.

6. 200-BP-5 & 200-PO-1 OUs

- 200-BP-5
 - Sample Collection/Well List Status – No discussion.
 - Sampling and Analysis Plan revisions beginning – No discussion.
- 200-PO-1 Status of Detailed Schedule Development – No discussion.

7. 200-UP-1 OU

- Remediation Treatment Status – Average Pumping Rate (counting all outage time as 0 gpm) for CY 2004 through May 30, 2004: 49.0 gpm. Since most recent groundwater sampling shows we are below the RAOs (Uranium 480 ppb, Tc-99 9,000 pCi/L) for all wells. Discussions have begun with Ecology on a 6-month rebound study tentatively to begin January 1, 2005, or sooner, with a follow-on 6-month rebound study option. Currently preparing an “Operating Plan” to support this study. From May 10 through May 30, 2004, the system operated between 48.2 and 53.2 gpm. Well 299-W19-39 was shutdown for 10.5 hrs between May 23 and 24 due to low water levels. System Run Time:

– For May 10 – 30	100.0%
– FY 2004 (Year to date)	88.8%
– System Inception to date	Error in Table
- RI/FS Work Plan Draft B – Will be meeting with Ecology July 7, 2004, to discuss comments. Important Deliverables:
 - July 12, 2005 – DOE-RL submits Draft A RI Report to Regulators
 - April 5, 2007 – Issue Draft A FS Report to Regulators
- Started Drilling New Monitoring Well “P” – A problem with the subcontractor’s equipment shut the job down due to safety concerns. New wells “K” and “R” will follow. Missing data to support the CERCLA RI/FS process will be collected from these wells.
- Met with Ecology on June 2, 2004, to Discuss Rebound Study Option – Currently Preparing Operating Plan for Rebound Study.

8. 200-ZP-1 OU

- Remediation Treatment Status – Average Pumping Rate for FY 2004 through May 30: 126 gpm. From May 3 through May 30, 2004, system operated at between 153 and 212 gpm. New Extraction Well #1 is currently online. New Extraction Well #4 was online until May 15, 2004, when a gasket failed. The recent defining of the area around Z-9 as an asbestos control area has delayed getting new Extraction Well #4 back online. System was shutdown for 4.5 hrs on May 10 due to high filter pressure. Preparing detailed cost and

schedule estimates for pump-and-treat expansion. Design work will begin in early FY 2005. System Run Time:

- For May 3 - May 30 98.9%
- FY 2004 (Year to date) 95.1%
- System Inception to date 92.4%
- RI/FS Work Plan Status – Final going through signature process. Waiting for EPA to give us their concurrence to issue Rev. 0.
- DOE-RL Update on DNAPL Subcontractor Selection – No discussion.
- Update on Expanding Extraction Well Network to North – No discussion.

SOURCE OPERABLE UNITS

9. 200-PW-1, 200-PW-3, and 200-PW-6 OUs

- Remediation Treatment Status – 200-PW-1, system was restarted June 7, 2004, safety concerns were addressed. Currently no air flow rate data is available. Updated system run time data will be reported next month. The passive system remains operational. The need to update the Operations Plan was discussed.
- Monthly Monitoring – Carbon tetrachloride vapor monitoring data collected at wells and probes May 2004 was provided along with summaries of previous monitoring results (attached).
- Status of Field Work Preparation and Planning – The Waste Control Plan for 200-PW-1, 200-PW-3, and 200-PW-6 operable units was approved on June 14, 2004.
- Status of Field Work at 216-Z-9 – Drilling operations at the 216-Z-9 site have been temporarily suspended while safety concerns are addressed.

10. 200-CW-1 & 200-CW-3 OUs

- Schedule Review
 - Status of FS and PP – No discussion.
 - Current Status Spring Sampling – Sampling is currently being done. DOE requested that some of the individuals doing the sampling attend the next 200 Area UMM. 200-CW-1 sampling was complete on June 30, 2004. Analytical analysis is underway. Results are expected by mid-August.

11. 200-PW-2 & 200-PW-4 OUs

- Schedule Review
 - Status of Work Plan – All remaining comments were resolved at a meeting held on May 12, 2004. As of June 12, 2004, the Rev.1 version was submitted for clearance processing.
 - Status of RI Report – The Draft A version was submitted to RL on June 14, 2004, for transmittal to the regulators by June 30, 2004, and completion of TPA milestone M-015-43B.

- Status of Field Planning for 216-S-7 Borehole – Preliminary hazards classification work is in process. A radiological evaluation is underway to determine high risk intervals. Drilling may begin in August or September 2004. Rev. 1 of the 200-PW-2 Waste Control Plan (CP-13935) was released on June 11 as an update to add the 216-S-7 borehole
- 12. 200-CS-1 OU**
- Schedule Review
 - Status of RI Report – Ecology currently reviewing report.
- 13. 200-CW-5, CW-2, CW-4, & SC-1 OUs**
- Schedule Review
 - Status of Work Plan – FH has completed the clearance review. RL is reviewing the document from a Quality Assurance standpoint.
 - Status of RI Report – The RI report is being routed for transmittal letter signature and clearance review. It will be issued on or about June 30, 2004.
 - Status of FS – No Discussion.
 - Discussion of Path Forward – No Discussion.
- 14. 200 Area Ecological Evaluation**
- Schedule Review
 - Status of Eco DQO – The final draft of the DQO report and SAP were received from the subcontractor and are undergoing final technical editing.
 - Status of Eco Evaluation Report – This report is undergoing final technical editing and is expected to be ready for issuance by June 30, 2004.
 - Overview of Eco Activities
 - Spring Sampling Progress – The results of the reconnaissance survey were incorporated into the CP Ecological SAP.
- 15. 200-IS-1 & 200-ST-1**
- Schedule Review
 - Status of Work Plan - Review Issues to resolve for October Work Plan Submittal – No discussion.
 - Status of ORP/RL Work on Pipeline Strategy, What Interface Agreements are Needed? – No discussion.
- 16. 200-LW-1/ 200-LW-2/200 MW-1**
- Status of Field Planning – No discussion.
- 17. 200-MW-1**
- Status of Field Planning – No discussion.

18. 200-UR-1

- Schedule Review
 - Status of DQO and Work Plan – The Draft A version of the Work Plan was delivered to RL on June 8, 2004, three days ahead of schedule. It is currently being reviewed by RL prior to transmittal to Ecology; in compliance with the M-13-00N milestone (June 30, 2004).

19. 200-SW-1/2

- Schedule Review
 - Status on Ecology and EPA Discussions – The global issue, whether 40 CFR 191 is relevant and appropriate as an ARAR, has not yet been resolved.

200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
June 2004

Task	Scheduled Date	Float	Comments
200-CS-1			
Deliver Draft A RI Report for Regulator Review	5/31/04	--	Delivered 05/28/04
Deliver Draft A FS/PP for Regulator Review	11/30/05	--	On schedule
200-CW-1			
Deliver Draft B FS for Regulator Review	7/3/2003 (original date based on receipt of regulator comments 45 calendar days after submittal (which would be 5/15/2003) with 45 days to revise and reissue)	-345-d	Regulator comments originally due on 5/15/2003; policy level comments received on that date; Ecology indicated additional comments would be coming; to date these comments have not been received; the new schedule date assumes no additional comments will be received from the regulators on Draft A
	10/31/2004 (new target date based on collecting spring samples and incorporating data into the revision)	--	On schedule
200-LW-1			
Deliver Draft A RI Report for Regulator Review	10/31/05	--	On schedule
200-PW-2			
Deliver Revised Waste Control Plan for regulator review	3/8/04	--	Delivered 02/23/04
Ecology approve Rev 1 RI/FS work plan	2/14/03	-490-d	After BCR approval, field work is scheduled for 8/04 and completion of work is forecast to not generate a variance for the FS. Comments are resolved. The document is in
Deliver Draft A RI Report for Regulator Review	6/30/04	--	On Schedule
Deliver Draft A FS/PP for Regulator Review	12/31/05	--	Assumes additional sampling necessary for Ecology request
200-SW-1/200-SW-2			
Regulator DQO Interview	4/27/04	--	Interview conducted on 03/17/04
Deliver Draft DQO to regulators	7/5/04	--	On schedule
Deliver draft A RI/FS work plan for regulator review	12/31/04	--	On schedule
Deliver Waste Control Plan for regulator review	4/15/05	--	On schedule
Start field sampling	7/27/05	--	On schedule
Deliver Draft A RI Report for Regulator Review	9/19/07	--	On schedule
200-TW-1 (includes 200-TW-2)			
EPA/Ecology approve RI Report	7/10/03	-247-d	Modeling results delivered on 05/21/04 to regulators
Deliver Draft A FS/PP for Regulator Review	3/31/04	--	Comments received and document modification underway

200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
June 2004

Task	Scheduled Date	Float	Comments
200-UR-1			
Deliver draft A RI/FIS work plan for regulator review	6/30/04	--	On schedule
Deliver Waste Control Plan for regulator review	3/1/06	--	On schedule
Start field sampling	4/26/06	--	On schedule
Deliver Draft A RI Report for Regulator Review	5/14/07	--	On schedule
U Plant Waste Sites			
Ecology approve confirmatory sampling SAP	12/1/03	-110-d	Remedial decisions were not reached with Ecology and EPA as planned. General consensus has just been developed and the SAP is being finalized.
Start U Plant Confirmatory and Design Sampling	1/5/04	--	Deferred until FY05 due to budget constraints
Deliver Draft A RD/RA work plan for regulator review (surface barrier RD/RA)	1/18/05	--	On schedule
Deliver Draft A RD/RA work plan for regulator review (excavation RD/RA)	1/18/05	--	On schedule
200-IS-1/200-ST-1			
Deliver Rev. 1 RI/FIS work plan	10/29/04		On schedule with current understanding of work scope. If scope of work expands, then schedule will require reevaluation.
Deliver Waste Control Plan for regulator review	1/24/05	--	On schedule
200-PW-1/200-PW-3/200-PW-6			
Deliver Rev. 0 RI/FIS work plan	3/31/04	--	Work Plan approved on 04/26/04
Deliver PW-3 Waste Control Plan for regulator review	3/29/04	--	Waste Control Plans combined at EPA's request. Delivered on
Deliver revised PW-1 Waste Control Plan for regulator review	3/29/04	--	06/09/04
200-MW-1			
Deliver Waste Control Plan for regulator review	3/26/03	--	Delivered 03/23/04
Deliver Draft A RI Report for Regulator Review	12/31/05	--	On schedule
200-CW-5/200-CW-2/200-CW-4/200-SC-1			

200 Area Unit Managers' Meeting
 200 Area Remedial Action Float Table
 June 2004

Task	Scheduled Date	Float	Comments
Deliver Rev. 1 RI/FS work plan	M-013-22 met on schedule; Rev. 0 work plan approved 9/28/2002. Consolidation TPA change package approved 6/5/2002. Rev. 1 originally scheduled to be delivered 5/6/2003	-347-d	Delivered 03/22/04
Deliver Rev. 0 RI Report	9/1/2003 (original date based on receipt of regulator comments on 7/15/2003 with 45 days for revision)	-289-d	Inconsistencies between the work plan and the RI report were identified last month. RESRAD runs are underway to resolve the issue. New delivery date 06/30/04
Deliver Draft A FS/PP for Regulator Review	10/31/04	--	On schedule

200 Area UMM – June 2004

200-UP-1:

- Average Pumping Rate (counting all outage time as 0 gpm) for CY04 through May 30: 49.0 gpm.
- Since most recent groundwater sampling shows we are below the RAOs (Uranium 480 ppb, Tc-99 9,000 pCi/L) for all wells. We have begun discussions with Ecology on a 6 month rebound study tentatively to begin January 1, 2005 or sooner, with an follow-on 6 month rebound study option. Currently preparing an "Operating Plan" to support this study.
- From May 10 through May 30, the system operated between 48.2 and 53.2 gpm.
- Well 299-W19-39 was shutdown for 10.5 hrs between May 23 and 24 due to low water levels.
- System Run Time
 - For May 10 – 30 100.0%
 - FY2004 (Year to date) 88.8%
 - System Inception to date Error in Table
- RI/FS Work Plan Draft B – Will be meeting with Ecology July 7 to discuss comments
- Important ~~Milestones~~ *Deliverables JBP 2-17-05 Act 2/17/05*
 - > July 12, 2005 – ~~G2U40195~~, DOE-RL submits Draft A RI Report to Regulators
 - > April 5, 2007 – ~~G2U54150~~; Issue Draft A FS Report to Regulators
- Started drilling new monitoring well "P", but problem with subcontractor's equipment shut the job down due to safety concerns. New wells "K", and "R" will follow. Missing data to support the CERCLA RI/FS process will be collected from these wells.

200-ZP-1:

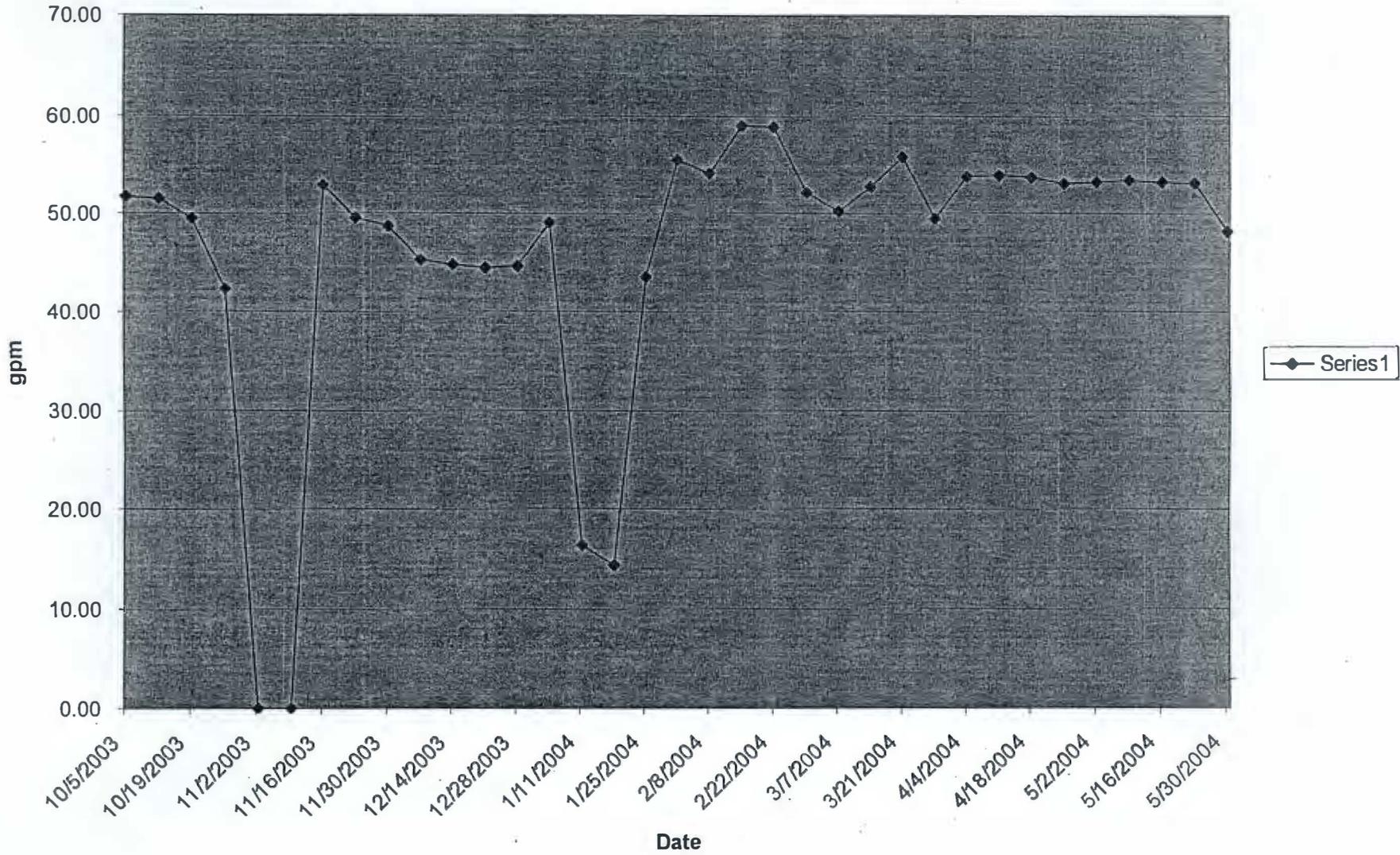
- Average Pumping Rate for FY04 through May 30: 126 gpm
- From May 3 through May 30, the system operated at between 153 and 212 gpm.
- New Extraction Well #1 is currently online. New Extraction Well #4 was online until May 15 when a gasket failed. The recent defining of the area around Z-9 as an Asbestos control area has delayed getting new Extraction Well #4 back online.
- System was shutdown for 4.5 hrs on May 10 due to high filter pressure.
- System Run Time
 - For May 3 - May 30 98.9%
 - FY2004 (Year to date) 95.1%
 - System Inception to date 92.4%

- RI/FS Work Plan Status – Waiting for EPA to give us their concurrence to issue Rev. 0.

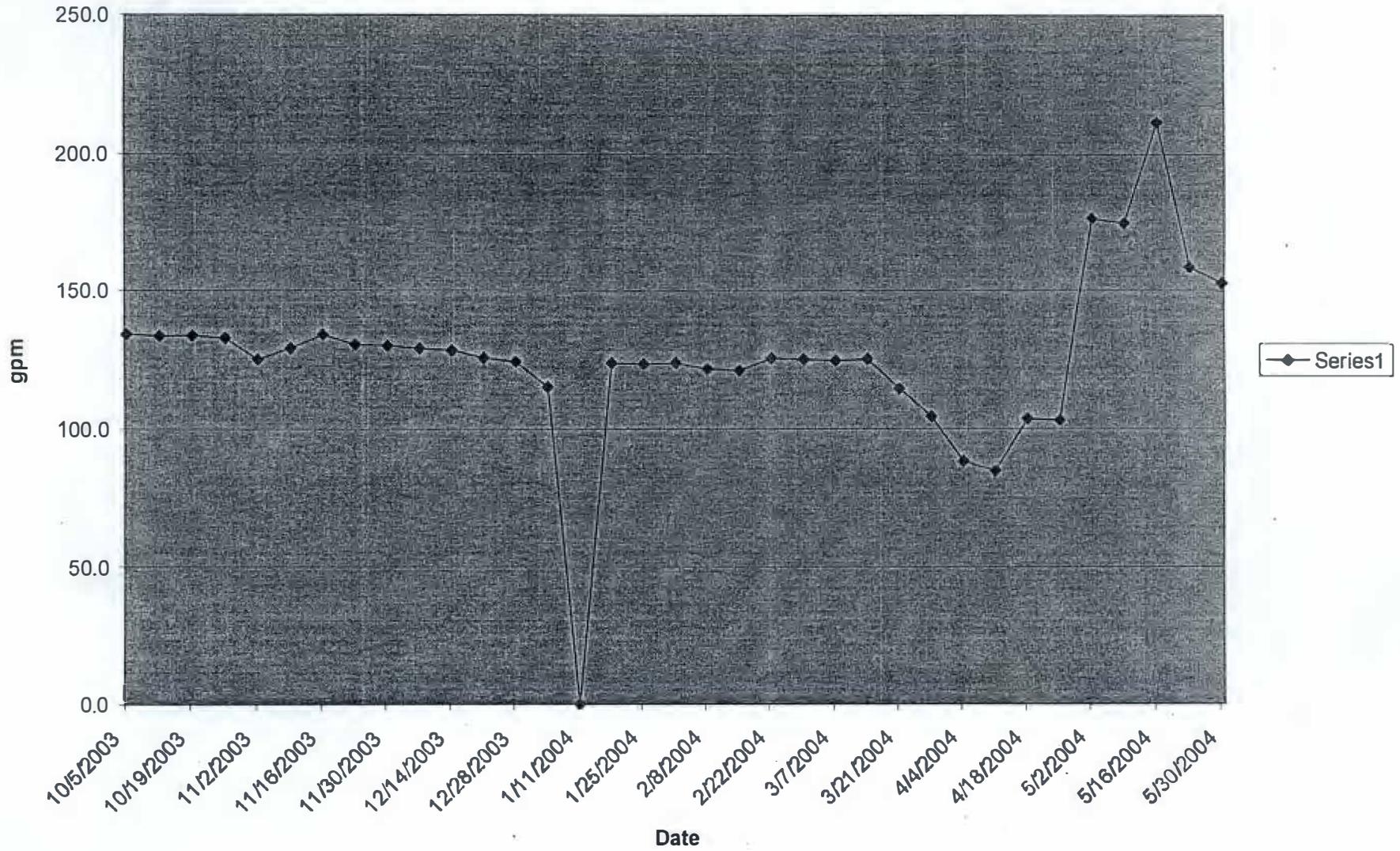
200-PW-1 (200-ZP-2):

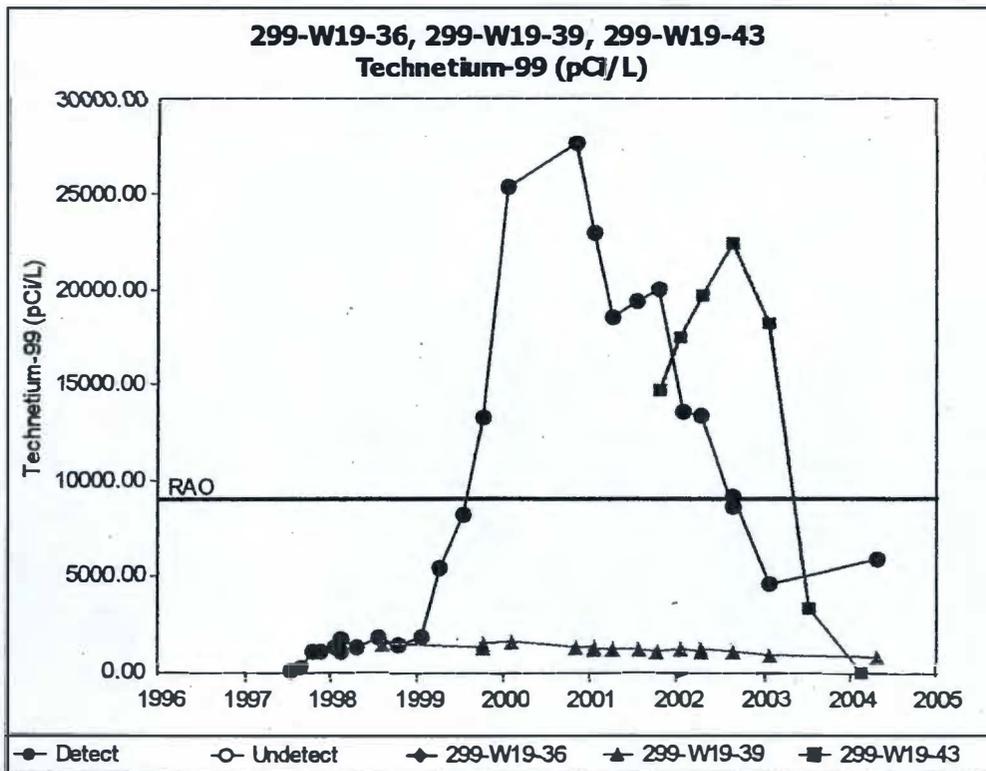
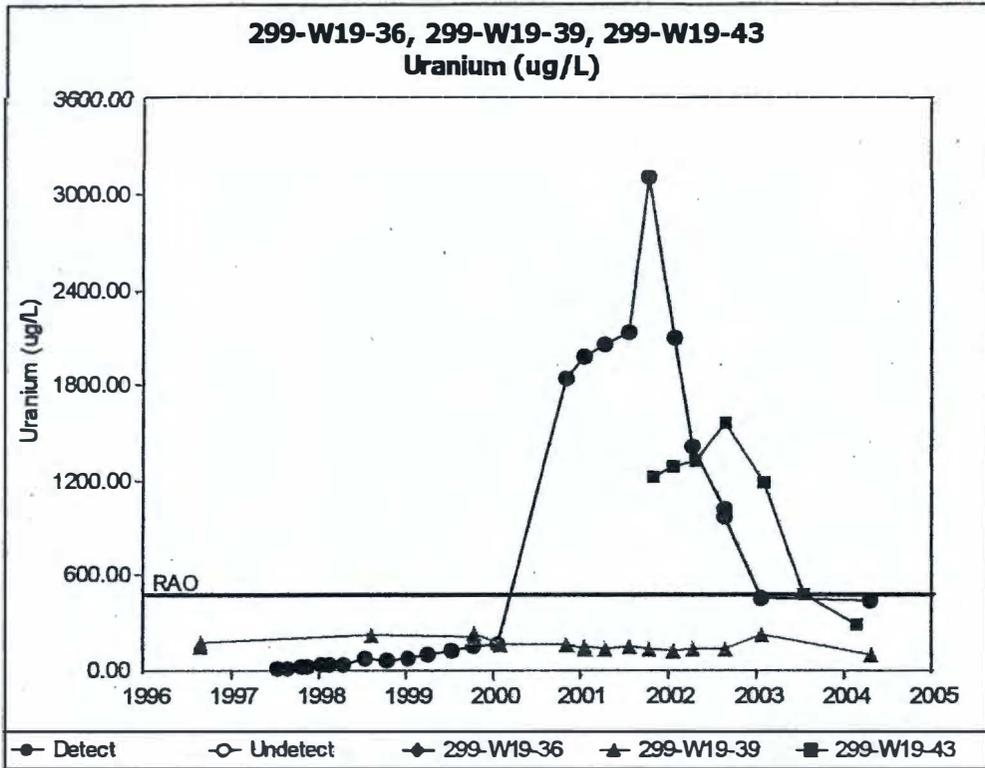
- System was restarted June 7 after safety concerns were addressed.
- Currently no Air Flow Rate data is available.
- Updated system run time data will be reported next month.
- The passive system remains operational.

200-UP-1 Average Pumping Rate for FY2004



200-ZP-1 Average Pumping Rate for FY2004





Comparison of Maximum Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 Soil Vapor Extraction Sites
FY 1998 - FY 2004

200-PW-1 (200-ZP-2)		July 1998 - September 1999		July 1999 - June 2001		July 2001 - June 2002		July 2002 - September 2003		July 2002 (Z-9) or October 2003 (Z-1A) - March 2004		July 2002 (Z-9) or April 2004 (Z-1A) - May 2004	
Location (Well or Probe) /feet bgs	Site	Maximum Rebound Carbon Tetrachloride (ppmv)	of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	of rebound						
79-03/ 5 ft	Z-18	0	12										
79-06/ 5 ft	Z-1A	1.4	12										
79-11/ 5 ft	Z-1A	2.9	12										
86-05/ 5 ft	Z-9	0	3										
86-05-01/ 5 ft	Z-9	0	3										
86-06/ 5 ft	Z-9	1.9	6										
87-05/ 5 ft	Z-1A	1.0	12										
87-09/ 5 ft	Z-1A	2.6	12										
94-02/ 5 ft	Z-9	1.4	3										
95-11/ 5 ft	Z-9	2.5	6										
95-12/ 5 ft	Z-9	1.3	6										
95-14/ 5 ft	Z-9	0	3										
CPT-13A/ 9 ft	Z-1A	1.0	12										
CPT-16/ 10 ft	Z-9	1.5	6										
CPT-17/ 10 ft	Z-9	5.1	6	6.6	24	3.2	6	6.6	15	9.0	21	9.9	23
CPT-18/ 15 ft	Z-9	5.0	6	5.2	24	1.4	6	2.4	15	2.4	21	2.5	23
CPT-4A/ 25 ft	Z-1A	not measured		3.5	0	3.4	10						
CPT-4E/ 25 ft	Z-1A	not measured		not measured		2.6	12	1.3	0			1.7	0
CPT-16/ 25 ft	Z-9	not measured		1.8	24	1.1	6	2	15	2.6	21	2.6	23
CPT-31/ 25 ft	Z-1A	0	12										
CPT-32/ 25 ft	Z-1A	10	12	16.5	18	13.0	12	8.3	6	6	6		
CPT-30/ 28 ft	Z-18	3.2	12	1.4	18	0	12	0	6	0	6		
CPT-13A/ 30 ft	Z-1A	not measured		3.6	18	2.6	12	1.6	6	2	6	1.5	0
CPT-7A/ 32 ft	Z-1A	5.4	12	6.2	18	5.6	12	3.9	6	9.5	6	1.9	0
CPT-27/ 33 ft	Z-9	not measured		2.6	24	1.5	6	1.7	15	2.7	21	2.7	23
CPT-1A/ 35 ft	Z-12	3.0	12	7.7	18	11.3	12	22.0	15	18.3	6	10.7	0
CPT-28/ 40 ft	Z-9					56.5	6						
CPT-33/ 40 ft	Z-1A	2.6	12			2.3	12						
CPT-34/ 40 ft	Z-18	1.7	12	1.9	0	2.2	12	1.6	0			1.4	0
CPT-21A/ 45 ft	Z-9	57	3	127	24	133	6	90.0	15	150	21	150	23
W15-220ST/ 52 ft	Z-9	1.6	3	2.5	24			1.5	1				
CPT-28/ 60 ft	Z-9	3.7	3										
CPT-9A/ 60 ft	Z-9	44	3	68	24	45.3	6	35.9	15	35.9	21	35.9	23
CPT-16/ 65 ft	Z-9	not measured		not measured		not measured		4.2	15			4.0	23
CPT-1A/ 68 ft	Z-12	not measured		not measured		5.5	12						
CPT-30/ 68 ft	Z-18	3.0	12										
CPT-32/ 70 ft	Z-1A					7.7	12						
CPT-13A/ 70 ft	Z-1A	5.6	12										
CPT-24/ 70 ft	Z-9	3.6	3					4.7	15			4.4	23
W15-219SST/ 70 ft	Z-9	7.6	3	7.8	24			1.9	1			9.5	22
CPT-18/ 75 ft	Z-9	not measured		18	24			4.5	15			8.0	23
CPT-4A/ 75 ft	Z-1A	not measured		not measured		7.1	3						
CPT-31/ 76 ft	Z-1A	4.2	12										
CPT-33/ 80 ft	Z-1A	9.2	12										
W15-82/ 83 ft	Z-9	46	6	55	24	66.7	6	85.8	15	85.8	21	85.8	23
CPT-21A/ 86 ft	Z-9	148	6	195	24	186	6	206	15	244	21	244	23
CPT-34/ 86 ft	Z-18	0	12										
W15-95U/ 86 ft	Z-9	3.9	6	43	21								
W15-218SST/ 86 ft	Z-9	0	3					1.6	2				
CPT-28/ 87 ft	Z-9	203	6	224	24	229	6	235	15	258	21	258	23
CPT-4B/ 90 ft	Z-1A					3.2	10						
CPT-1A/ 91 ft	Z-18	4.2	12			10.7	10						
CPT-4A/ 91 ft	Z-1A	14	12			7.5	2						
CPT-9A/ 91 ft	Z-9	72	3			74.3	6						
W15-85/ 91 ft	Z-9	not measured		51	24								
W18-252SST/ 100	Z-1A	24	12										
W18-152/ 101 ft	Z-12	33	12	25	18	25.7	12	20.7	6	12.4	6		
CPT-4E/ 103 ft	Z-1A	not measured		not measured		16.1	12						
W18-167/ 106 ft	Z-1A	228	12	248	18	297	12	243	6	266	6		
W18-165/ 109 ft	Z-1A	not measured		not measured		278	12	328	6	205	6		
W15-217/ 114 ft	Z-9	561	6	442	24	93.6	6	444	15	458	21	458	23
CPT-24/ 118 ft	Z-9	37	6	35	24			27.8	15			15.3	23
W15-220SST/ 118	Z-9	36	3	34	24			27.5	3			26.0	23
W18-158L/ 120 ft	Z-1A	492	12	284	18	163	3						
W15-219SST/ 130	Z-9	47	3	54	24			23.1	1			5.7	22
W18-249/ 130 ft	Z-18	215	12	176	18	196	12	46.3	6	41.0	6		
W18-248/ 131 ft	Z-1A	177	12	214	18	306	12	182	6	180	6		
W15-95L/ 144 ft	Z-9	not measured		not measured		31.8	6	25.1	15	40.3	21	40.3	23
W15-219SST/ 155	Z-9	24	3	44	24			6.8	1			0	22
W15-220L/ 163 ft	Z-9							---	15			8	23
W15-219L/ 175 ft	Z-9							---	15			23	23
W15-9L/ 176 ft	Z-9	15	6	20	21	16.9	6	13.1	15	13.1	21	13.1	23
W15-84L/ 180 ft	Z-9	not measured		not measured		not measured		25.9	15	25.9	21	25.9	23
W15-6L/ 182 ft	Z-9	1.3	6										
W15-220SST/ 185	Z-9	13	3	15	24			---	1				
W18-7/ 197 ft	Z-1A	29	12										
W18-12/ 198 ft	Z-18	19	12										
W18-6L/ 208 ft	Z-1A	15	12										

* 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
July 2002 (Z-9) or April 2004 (Z-1A) - May 2004

200-PW-1 (200-ZP-2)		05/01/2003	05/22/2003	07/01/2003	08/05/2003	08/26/2003	10/31/2003	12/04/2003	12/22/2003	01/20/2004	02/19/2004	03/16/2004	03/24/2004	04/29/2004	05/05/2004	06/03/2004
Location (Well or Probe) /feet bgs	Site	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)
CPT-17/ 10 ft	Z-9	5.3	6.6	4.5	6.1	5.3	3.2	4.1	2.7	5.8	5.0	— (c)	9.0	7.0		9.9
CPT-18/ 15 ft	Z-9	0	2.0	0	1.8	2.4	0	1.1	1.0	1.5	1.4	— (c)	1.6	1.2		2.5
CPT-4E/ 25 ft	Z-1A													1.7		1.4
CPT-16/ 25 ft	Z-9	1.0	0	1.2	1.5	1.5	2.6	1.2	1.4	0	1.7	2.2		1.8		1.4
CPT-32/ 25 ft	Z-1A						0	0	0	2.4	5.1	5.9				
CPT-30/ 28 ft	Z-1A						0	0	0	0	0	0				
CPT-13A/ 30 ft	Z-1A						0	0	0	0	0	1.8		1.4		1.5
CPT-7A/ 32 ft	Z-1A						2.4	3.0	2.7	4.3	3.0	9.5		1.7		1.9
CPT-27/ 33 ft	Z-9	1.0	1.7	1.1	1.0	1.6	1.1	0	1.1	1.5	2.0	2.7		2.5		1.4
CPT-1A/ 35 ft	Z-12						18.3	9.5	13.1	10.8	6.0	9.0		4.2		10.7
CPT-34/ 40 ft	Z-18													1.4		1.1
CPT-21A/ 45 ft	Z-9	72.8	90.0	75.1	85.5	83.0	52.3	89.1	68.5	59.2	71.8	— (c)	150	59.2		136
CPT-9A/ 60 ft	Z-9	30.1	33.2	30.1	30.0	28.5	25.9	33.1	30.8	24.3	33.8	27.1		25.7		28.3
CPT-16/ 65 ft	Z-9													3.1		4.0
CPT-24/ 70 ft	Z-9													4.4		4.4
W15-219SST/ 70 ft	Z-9													9.5		
CPT-18/ 75 ft	Z-9													8.0		6.2
W15-82/ 83 ft	Z-9	50.0	56.2	49.2	44.3	54.4	24.0	34.4	43.1	47.5	45.9	50.5		83.1		0
CPT-21A/ 86 ft	Z-9	199	206	153	187	197	91.8	183	171	244	98.1	— (c)	212	73.3		177
CPT-28/ 87 ft	Z-9	178	235	150	197	190	155	206	140	56.7	96.1	— (c)	258	26.8		222
W18-152/ 101 ft	Z-12						5.7	10.5	11.3	10.5	12.4	12.1				
W18-167/ 106 ft	Z-1A						201	223	201	266	201	— (b)				
W18-165/ 109 ft	Z-1A						94.2	205	193	188	186	94.8				
W15-217/ 114 ft	Z-9	74.3	409	89.7	335	444	53.8	80.4	66.4	82.5	62.0	— (c)	458	256		377
CPT-24/ 118 ft	Z-9													5.3		15.3
W15-220SST/ 118 ft	Z-9														26.0	18.7
W18-249/ 130 ft	Z-18						8.0	31.1	21.4	19.6	22.1	41.0				
W15-219SST/ 130 ft	Z-9													5.7		
W18-248/ 131 ft	Z-1A						78.6	80.4	85.6	90.9	166	180				
W15-95L/ 144 ft	Z-9	17.2	18.8	25.1	13.7	10.9	19.2	20.3	— (a)	— (a)	40.3	23.0		35.0		22.0
W15-219SST/ 155 ft	Z-9													0		
W15-220L/ 163 ft	Z-9													7.5		6.4
W15-219L/ 175 ft	Z-9													— (d)	23.0	2.9
W15-9L/ 176 ft	Z-9	8.2	11.6	10.3	13.1	12.5	6.1	5.8	— (a)	— (a)	9.1	9.6		8.8		10.1
W15-84L/ 180 ft	Z-9	8.3	25.9	17.9	21.0	23.8	4.7	4.9	4.9	10.7	18.5	— (c)	19.5	15.6		16.4
		(a) Unable to access because of drilling operations														
		(b) Unable to sample; tubing will be repaired.														
		(c) anomalously low due to pump problems; resampled on 3/24/04														
		(d) unable to install sample tubing; sampled W15-219SST/70 ft, W15-219SST/130 ft, and W15-219SST/155 ft instead														

GROUNDWATER REMEDIATION PROJECT



DRAFT
2nd Quarter FY 2004

GROUNDWATER REMEDIATION PROJECT

GROUNDWATER REMEDIATION PROJECT FY 2004 TPA MILESTONE SUMMARY (Major & Interim Milestones)

Status as of: March 31, 2004

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast		
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule
	M-024-57A	Complete required well installations in accordance with RCRA and CERCLA groundwater requirements. Install a minimum of 15 wells by 12/31/03.	12/31/03	12/31/03		X			
	M-015-41C	Submit 200-TW-1 & TW-2 OU FS and PP including Past Practice Waste Sites in 200-PW-5 Fission Product-Rich Process Waste Group	3/31/04	3/30/04		X			
	M-015-39B	Submit 200-CS-1 Chemical Sewer Group RI Report	5/31/04	5/31/04				X	
	M-013-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for the 200-UR-1 Unplanned Releases	6/30/04	6/30/04				X	
	M-015-43B	Submit 200-PW-2 OU RI Report including Past Practice Waste Sites in the 200-PW-4 General Process Waste Group	6/30/04	6/30/04				X	
	M-024-57B	DOE Initiates Discussions Annually to Reaffirm Selected Wells	6/30/04	6/30/04				X	
	M-024-57C	Conclude Negotiations & Revise M-024-57	8/1/04	8/1/04				X	
	M-016-66	Initiate Intermediate Design and Authorization Safety Analysis for Remedial Actions (618-10/11)	9/30/04	9/30/04				Note 1	

ACCOMPLISHMENTS

200 Area Waste Site Remediation

The feasibility study and proposed plan for the 200-TW-1, 200-TW-2, and 200-PW-5 Operable Units (OU) were transmitted to the regulators on March 31, 2004 for their review in accordance with the TPA. The transmittal of these documents fulfills interim TPA Milestone M-015-41C. These documents are the decision documents for 79 waste sites, including 28 waste sites in the BC Cribs and Trenches area.

The U Plant Waste Sites Draft Proposed Plan was modified to reflect comments received from EPA Region 10. On February 9, 2004, a half day workshop was held with EPA and Ecology to brief them on the comment resolutions and the revised proposed plan. A copy of the revised proposed plan was provided prior to the work shop. Remaining issues include RCRA/CERCLA integration and evaluating a new alternative, e.g. excavation and capping option.

The 200-PW-1, 200-PW-3, and 200-PW-6 Operable Unit (OU) Grouping field investigation is in progress. Drilling continued at the 216-Z-9 Trench.

The Rev.0 Work Plan for 200-PW-1, 200-PW-3, and 200-PW-6 OU's (plutonium and organic-rich) is complete and will be submitted to EPA for review in accordance with the TPA. EPA stated that additional comments will be minimal, if any, and could be addressed through the approval letter.

The 200-CW-5, 200-CW-2, 200-CW-4, and 200-SC-1 Rev. 1 consolidated work plan for these OUs is being finalized for transmittal to DOE/RL and the regulators in April 2004. Comments were received on the OU Remedial Investigation (RI) Report from the regulators and comment resolution was finalized in December 2003.

Progress continues on development of the data quality objectives (DQO) to support completion of the 200 Area NPL site ecological risk assessment needs. A workshop was held on March 30, 2004 with the Parties, and participants from the HNRTC and the HAB River & Plateau Committee to discuss the draft DQO summary report.

A series of collaborative meetings was held with Ecology and DOE/RL participants concerning the development of the 200-SW-1 and 200-SW-2 RI/FS Work Plan. Issues discussed include 40 CFR 191 as an applicable or relevant and appropriate requirement for these OUs and the use of process knowledge. The DQO for this work plan is

underway. The work plan is due December 31, 2004 under Tri-Party Agreement milestone M-013-00O.

Groundwater Remediation

Draft B RI/FS work plan for the 200-UP-1 operable unit is being reviewed by Ecology. The title of this report is *Remedial Investigation /Feasibility Study Work Plan for the 200-UP-1 Groundwater Operable Unit*, DOE-RL-92-76.

EPA and DOE/RL comments were received on the *Remedial Investigation/Feasibility Study Work Plan for the 200-ZP-1 Groundwater Operable Unit*, DOE/RL-2003-55 and the comments are currently being incorporated.

The three 100 Area pump-and-treat systems (100-KR-4, 100-NR-2 and 100-HR-3) and the 200-ZP-1 OU are all operating above 90% availability for FY 04. For the 200-ZP-1 OU, replacements for current extraction wells 1 and 4 have been installed and will be connected to the treatment system in April 2004.

Three extraction wells are currently pumping within the 200-UP-1 OU. Due to technical difficulties during the first quarter of FY04, the 200-UP-1 pump-and-treat system is currently showing 84% availability through the end of the second quarter of FY04. The 200-UP-1 OU is pumping >50gpm throughout the remainder of the year to ensure that a 50 gpm average, as required by the interim action record of decision, is achieved at the end of CY 2004.

Vapor extraction at Trench T-04 in the 218-W-4C Burial Ground continued.

As of March 31, 2004 2 wells have been completed and accepted, drilling and completion of another 11 wells is underway for FY 2004.

A total of 99 wells were decommissioned as of March 2004.

The DQO Process was initiated in October for the evaluation of impacts at 100 N to aquatic and riparian ecoreceptors. The schedule for the DQO and SAP was revised so that seasonal sampling could be included. The final report will be issued in October, 2005 rather than October 2004 as previously planned. The revised schedule will also allow better coordination with the River Corridor Risk Assessment so that appropriate sample media are collected for both assessments.

Initial laboratory work supporting the 100-NR-2 strontium-90 (Sr-90) treatment options (phytoremediation and apatite-sequestration) began during the second quarter of FY 2004. Core samples were collected during drilling of a new monitoring well near the center of the former N springs. The core samples will be used to help assess Sr-90 mobility and extraction efficiency based on site-specific media properties.

Work continued on remedial actions to address an additional area of chromium contaminated groundwater in the 100 D Area. During the second quarter of FY 2004, over 75% of the water lines in the 100 D area were cut and capped, thus eliminating this potential driver. Plans to extend the ISRM were deferred until the causes of the apparent reduction in barrier longevity are better understood. A targeted pump and treat system was selected for the near term to minimize the impact of contaminated groundwater on the river and to achieve mass reduction of hexavalent chromium. Design of the extraction and injection network and associated treatment system has begun. Startup of an initial 40 -50 gpm system is scheduled for July 2004. Bechtel is preparing a test plan for investigation suspected soil contamination source areas.

A focus group of outside experts was assembled to evaluate possible causes of the ISRM breakdown and to make recommendations for a mitigation plan. The group met at Hanford on March 2nd, 3rd and 4th. Additional characterization of the barrier is anticipated as result of the focus group report expected in April 2004.

ISSUES

U Plant Soil Waste Sites

Issue- The characterization and remediation planning approach for pipelines in the U Plant area is not progressing at a pace that is satisfactory to the regulators due to primarily budgetary constraints.

Status- RL and ORP are jointly working on characterization and remediation criteria for central plateau pipelines. They last provided status information to the IAMIT in March of 2004. The scope division between RL and ORP is the subject of ongoing discussions between the two organizations, and is also the focus of the IAMIT Central Plateau closure strategy working group

200-PW-2 and 200-PW-4 Work Plan Approval

Issue- Outstanding comments on the 200-PW-2 and 200-PW-4 Operable Units Work Plan remain unresolved. These comments include the need for a borehole in a hexone waste site.

Status- A comment resolution meeting was held with Ecology on February 23, 2004. The remaining comments were discussed and Ecology was provided redline copies of the text revisions. Ecology also raised the issue of RCRA/CERCLA integration and offered to revise work plan text on that issue. Input from Ecology on the RCRA/CERCLA integration text or comments on the redline text of the comment incorporation has not been received by DOE/RL.

Planning is underway to drill a borehole in the 216-S-7 Crib in response to Ecology's comment on the need to characterize a hexone waste site. At the November Unit Manager Meeting Ecology stated that the additional characterization data could be included in the Feasibility Study which follows the RI report so the associated FY04 and FY05 TPA milestones should not be negatively impacted.

Draft B Revision of the 200-CW-1, 200-CW-3, and other 200 North Waste Sites Feasibility Study and Proposed Plan

Issue- EPA & Ecology transmitted a comment letter that identified a number of "global issues" but did not include detailed technical comments. The Parties continue to address the issues.

Status- The remedial actions were re-packaged as a result of the issue resolution activities. Fall ecological sampling was conducted to resolve concerns over the potential presence of new-to-science species at the waste sites. Additional ecological sampling is planned for this spring to help resolve the contaminants that were identified in the ecological risk assessment in the feasibility study as representing marginal ecological risks. The data from these sampling events will be available in August, 2004, and will be incorporated into Draft B of the FS and proposed plan. The proposed plan will be migrated to the new format developed as part of the U Plant Waste Site Project. A revision of the feasibility study and proposed plan will be prepared for delivery to the regulators in October 2004. Ecology indicated at the February UMM that this FS is not a high priority, given the other FSs currently in process.

200-IS-1 and 200-ST-1 Work Plan Approval

Issue-Ecology has requested that the pits, lines, tanks, and boxes (200-IS-1) and septic tanks (200-ST-1) work plan be revised to include additional information on "likely response scenarios and potentially applicable technologies and operable units that may address site problems." This would require a revision to the Rev. 0 document.

Status- USDOE is preparing a Revision 1 work plan. One unresolved issue is the interface between RL and ORP; the latter has programmatic responsibility for some waste sites included in these operable units that are not addressed by the work plan. ORP and the IAMIT Central Plateau work group are looking at the latter issue.

200-TW-1, 200-TW-2, and 200-PW-5 RI Report Approval

Issue – The regulators provided comments in a letter dated March 2, 2004, concerning the fate and transport modeling performed for the representative waste sites. The regulators provided conditional approval of the RI Report pending resolution of the modeling comments.

Status – A meeting with the regulators, USDOE, and USGS representatives was held on March 17, 2004 to discuss the comments and identify a path forward for revising the documents. The USGS provided clarification on the comment concerning Monte Carlo simulations by stating they are really interested in sensitivity analysis and not actual Monte Carlo simulations. RL will prepare some modifications to the modeling strategy and present them for discussion to USGS and the regulators. Once the strategy is agreed to, USDOE will rerun the modeling and present the information in the RI Report revision. This is expected to be done by July, 2004.



TPA Milestone Summary Schedule

Status as of: March 31, 2004
Updated April 13, 2004 11:45 Am

Operable Unit	Fiscal 2002 By Quarter				Fiscal 2003 By Quarter				Fiscal 2004 By Quarter				Fiscal 2005 By Quarter				Fiscal 2006 By Quarter				Fiscal 2007 By Quarter				Fiscal 2008 By Quarter				Fiscal 2009 By Quarter				Fiscal 2010 By Quarter			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
200 Area Remedial Action	<p>Note 1 - "Ecology believes this is at risk" Note 2 - "Ecology believes these are at risk due to unresolved comment on sampling plan"</p>																																			
200 Area Work Plans	<p>M-13-00L 12/26/01(A) Submit 3 200 NFL RI/FS (RFI/CMS) Work Plans</p> <p>M-13-26 12/26/01(A) Submit Plutonium / Organic-Rich Process Waste Group (200-PW-1) Work Plan</p> <p>M-13-00M 12/30/02(A) Submit 1 200 NFL RI/FS (RFI/CMS) Work Plan for 200-IS-1 OU, Includes waste sites in 200-ST-1</p> <p>M-13-00N (Date revised from 12/31/03 per TPACC M-13-01 approved by RL 10/23/03) Submit 1 200 NFL RI/FS (RFI/CMS) Work Plan for 200-UR-1 OU</p> <p>M-13-00O (Note 1) Submit 1 200 NFL RI/FS (RFI/CMS) Work Plan for 200-SW-2 OU, Includes waste sites in 200-SW-1</p>																																			
200 Area Assessments	<p>M-15-38A 09/23/02(A) Submit 200-CW-1FS/PP Proposed RCRA Permit Mod for Gable Mtn Pond/B Pond & Ditch Cooling Waste Group</p> <p>M-15-40B 05/30/02(A) Submit 200-CW-5 U Pond / Z Ditches Cooling Water Group RI Report Including Past Practice Waste Sites in 200-CW-2, 200-CW-4 & 200-SC-1</p> <p>M-15-40C Submit 200-CW-5 FS/PP for U Pond / Z Ditches Cooling Water Group, Including Past Practice Waste Sites in 200-CW-2, 200-CW-4, & 200-SC-1</p> <p>M-15-46A Submit 200 Area Chemical Lab Waste OUs RI Report</p> <p>M-15-44A Submit 200-MW-1 OU RI Report</p> <p>M-15-46B Submit 200 Area Chemical Lab Waste OUs FS</p> <p>M-15-44B Submit 200-MW-1 FS & Proposed Plan</p>																																			
200-CS-1	<p>M-15-39A 09/29/03(A) Complete Chemical Sewer Group field Work Through Sample Collection & Analysis</p> <p>M-15-39B Submit 200-CS-1 Chemical Sewer Group RI Report</p> <p>M-15-39C Submit 200-CS-1 FS/PP/Proposed RCRA Permit Mod for Chemical Sewer Group</p>																																			
200-TW-1 / 200-TW-2	<p>M-15-41B 10/23/02(A) Submit 200-TW-1 & 200-TW-2 OU RI Report to Regulators, Including Past Practice Waste Sites in 200-PW-5</p> <p>M-15-41C 03/30/04(A) Submit 200-TW-1 & 200-TW-2 OU FS/Proposed Plan to Regulators, Including 200-PW-5</p>																																			
200-PW-2	<p>M-15-43B (Note 2) Submit 200-PW-2 OU RI Report Including Past Practice Waste Sites in 200-PW-4</p> <p>M-15-43C (Note 2) Submit 200-PW-2 OU FS/PP/Proposed RCRA Permit Mod Including Past Practice Waste Sites in 200-PW-4</p>																																			
200 Area Common	<p>M-15-47 06/27/02(A) Submit PP to Regulators to Conduct RA for Source Control at High-Risk Waste Sites Which Includes an Engineering Evaluation of an Engineered Surface Barrier</p> <p>M-15-00 Complete RI/FS (or RFI/CMS) Process for All Operable Units</p> <p>M-15-00C Complete All 200 Area Non-Tank Farm OU Pre-ROD Site Investigations Under Approved Work Plan Schedules</p>																																			
200 Area Closure Plans	<p>M-20-39 Submit 216-S-10 Pond/Ditch Closure/ Post Closure Plan to Ecology in Coord with / FS for 200-CS-1 (to coord under M-15-39C)</p> <p>M-20-33 Submit 216-A-10, 216-A-36B, 216-A-37-1 Crib & 207-A South Retention Basin Closure/Post Closure Plan to Ecology in Coord w/FS for 200-PW-2 (to coord under M-15-43C)</p> <p>M-20-54 Submit 314-CX-70, -71, -72 Tanks Closure/ Post Closure Plan to Ecot in Coord w/ 200-IS-1 FS Scheduled under M-13-00M</p> <p>M-20-00B Submit Closure/Post Closure Plans for 216-A-10, 216-A-36B, 216-A-37-1, 207-A South Retention Basin Pond, 216-S-10 Ditch, 341-CX-71, and 241-CX-72</p>																																			



TPA Milestone Summary Schedule

Status as of: March 31, 2004
Updated April 13, 2004 11:45 Am

	Fiscal 2002 By Quarter				Fiscal 2003 By Quarter				Fiscal 2004 By Quarter				Fiscal 2005 By Quarter				Fiscal 2006 By Quarter				Fiscal 2007 By Quarter				Fiscal 2008 By Quarter				Fiscal 2009 By Quarter				Fiscal 2010 By Quarter							
	1st	2nd	3rd	4th																																				
618-10/618-11 Burial Grounds																																								
Groundwater																																								
Common																																								
100-HR-3																																								

M-16-66
Initiate intermediate design and ASA for Remedial Actions

M-16-67
Submit intermediate Design, Report, Schedule, and Treatability inv Work Plan

M-24-51 thru -55
Install 11 Monitoring Wells at SST WMA B-BX-BY, U, S-SX, T-X-TY

M-24-00M 11/08/01 (A)
Install RCRA Groundwater Monitoring Wells at Rate from 0 to 50 in CY 2001 (if required)

M-24-56 12/18/02 (A)
Install 2 Monitoring Wells at SST WMA TX-TY

M-24-00N 12/18/02 (A)
Install RCRA Groundwater Monitoring Wells at Rate from 0 to 50 in CY 2002 (if required)

M-24-57A 12/31/03 (A)
DOE Shall Install a minimum of 15 Wells by 12/31/03

M-24-57B
DOE Initiates discussions Annually to Reaffirm Selected Wells

M-24-57C
Conclude Negotiations & Revise M-24-57 by 08/01/04

M-24-57D
DOE Shall Install a Cumulative of 30 Wells by 12/31/04

M-24-57E
DOE Initiates discussions Annually to Reaffirm Selected Wells

M-24-57F
Conclude Negotiations & Revise M-24-57 by 08/01/05

M-24-57G
DOE Shall Install a Cumulative of 45 Wells by 12/31/05

M-24-57H
DOE Initiates discussions Annually to Reaffirm Selected Wells

M-24-57I
Conclude Negotiations & Revise M-24-57 by 08/01/06

M-24-57J
DOE Shall Install a Cumulative of 60 Wells by 12/31/06

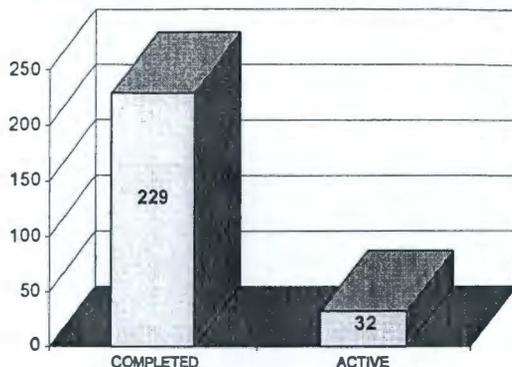
M-24-00O (TBD)
Complete Well Installations with RCRA/CERCLA Groundwater Requirements

M-16-27B 11/20/01 (A)
Complete 100-HR-3 Phase II, ISRM Barrier Emplacement

M-16-27C 04/10/03 (A)
Complete 100-HR-3 Phase III, ISRM Barrier Emplacement

GROUNDWATER REMEDIATION PROJECT

Groundwater Remediation Project
TPA Milestone Statistics
(Major & Interim Milestones)



Major Milestone	Compliance Due Date	Total Active*	Milestone Number	Compliance Due Date	Milestone Description
M-13-00 Submit Work Plans for RFI/CMS or RI/FS Studies	12/31/2004 (M-13-000)	2	M-13-00N	06/30/04	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan For The 200-UR-1
			M-13-00O	12/31/04	Submit 1 200 NPL RVFS (RFI/CMS) Work Plan For The 200-SW-1
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00)	12	M-15-41C	03/31/04	Submit Draft 200-TW-1 OU & 200-TW-2 OU FS & Proposed Plan
			M-15-39B	05/31/04	Submit Draft A 200-CS-1 Chemical Sewer Group RI Report
			M-15-43B	06/30/04	Submit 200-PW-2 OU RI Report Including Past Practice Waste Sites
			M-15-40C	10/31/04	Submit Draft A 200-CW-5 Pond/Z Ditchas Cooling Water Group FS
			M-15-46A	10/31/05	Submit 200 Area Chemical Laboratory Waste OUs RI Report
			M-15-39C	11/30/05	Submit Draft A 200-CS-1 Chemical Sewer Group FS and Proposed Plan
			M-15-43C	12/31/05	Submit 200-PW-2 OU FS and Proposed Plan/Permit Modification
			M-15-44A	12/31/05	Submit 200-MW-1 OU RI Report
			M-15-46B	09/30/06	Submit 200 Area Chemical Laboratory Waste OUs FS
			M-15-44B	12/31/06	Submit 200-MW-1 OU FS and Proposed Plan
			M-15-00C	12/31/08	Complete 200 Area Non-Tank Farm OU Pre-ROD Site Investigations
M-16-00 Remedial Design / Remedial Action	9/30/2024 (M-16-00)	3	M-16-66	09/30/04	Initiate Intermediate Design & Authorization Safety Analysis
			M-16-67	03/31/07	Submit Design Report, Schedule, Work Plan for 618-10/11
			M-16-00	09/30/24	Complete Remedial Actions for All Non-Tank Farm Operable Units
M-20-00 Submit Closure Plans for All RCRA TSD Units	12/31/2008 (M-20-00) (Shared with FH)	5	M-20-39	11/30/05	Submit 216-S-10 Pond & Ditch Closure Plan to Ecology
			M-20-33	12/31/05	216-A-10/216-A-36B/216-A-37-1 Crib Closure/Post Closure Plans
			M-20-54	12/31/08	Submit 241-CX Tank System Closure/Postclosure Plan
			M-20-00B	12/31/08	Submit 216 & 241 Areas Closure/Post Closure Plans
M-24-00** RCRA Groundwater Monitoring	Annually	10	M-24-67A(C)	12/31/03	DOE Shall Install a Minimum of 15 Wells by 12/31/03
			M-24-57B	06/30/04	DOE Initiates Discussions Annually to Reaffirm Selected Wells
			M-24-57C	08/01/04	Conclude Negotiations & Revise M-024-57 by 08/01/04
			M-24-57D	12/31/04	DOE Shall Install a Cumulative of 30 Wells by 12/31/04
			M-24-57E	06/30/05	DOE Initiates Discussions Annually to Reaffirm Selected Wells
			M-24-57F	08/01/05	Conclude Negotiations & Revise M-024-57 by 08/01/05
			M-24-57G	12/31/05	DOE Shall Install a Cumulative of 45 Wells by 12/31/05
			M-24-57H	06/30/06	DOE Initiates Discussions Annually to Reaffirm Selected Wells
			M-24-57I	08/01/06	Conclude Negotiations & Revise M-024-57 by 08/01/06
			M-24-57J	12/31/06	DOE Shall Install a Cumulative of 60 Wells by 12/31/06
M-24-00O	TBD	Complete Well Installations in Accordance with RCRA/CERCLA GW Reqs			
			1	MILESTONE COMPLETED IN FY04 (C)	

TOTAL ACTIVE MILESTONES

32

* Includes TPA changes requests approved thru March 31, 2004.

**M-24-00/57 Modified by Change Request M-24-02-02 Approved March 01, 2004

CW-1 TIME LINE

ACTIVITY	TIME FRAME
Submit FS	11/04
Public Comment Period	01/05 to 03/05
Start ROD Process	01/05
RL Review	04/05 to 05/05
Regulatory Review	06/05 to 08/05
Issue ROD rev 0	09/05
Confirmation Sampling	01/06 to 09/07
Design	10/06 to 10/07
Remediation	10/07 to 09/20

NOTES

CW-5 INFORMATION SHEET

Number of OUs	4 (CW-2, CW-4, CW-5 and SC-1)
Number of Waste Sites	48
Location of Waste Sites	200 East (10) and 200 West (38)
Type of Waste Site	Cribs, Ditches, Ponds, Pipelines and Concrete Structures
Process Waste Types	Cooling Water and Steam Condensate

Current CW-5 Time Line

Activity	Time Line
FH Internal Draft	06/17
RL Review	08/06 to 08/26
TPA Milestone Draft A to Regulators	10/31/04
Public Comment Period	02/11/05 to 03/24/05
Start ROD Process	03/25/05
RL Review	07/19/05 to 08/08/05
Regulatory Review	09/21/05 to 11/02/05
Issue ROD rev 0	12/09/05
Confirmation Sampling	10/02/06 to 09/05/07
Design	10/02/06 to 09/30/08
Remediation	10/01/08 to 09/30/24

NOTES

DOE/RL-2004-24 REV X DRAFT

Figure 1-3. Location of the 200-SC-1 Operable Unit Waste Sites in the 200 East Area.

