

DISTRIBUTION
UNIT MANAGERS' MEETING
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS

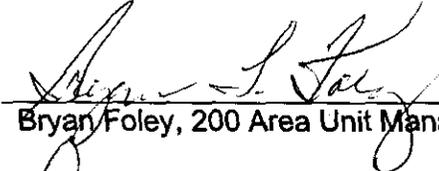
Bryan Foley.....	DOE-RL RP (A5-13)
Marvin Furman	DOE-RL RP (A5-13)
Ellen Mattlin	DOE-RL EAP (A2-15)
Mike Thompson	DOE-RL RP (A5-13)
Arlene Tortoso	DOE-RL RP (H0-12)
Lisa Treichel	DOE-HQ (EM-442)
Dennis Faulk.....	EPA (B5-01)
Brenda Becker-Khaleel	WDOE (Kennewick) (B5-18)
Zelma Maine	WDOE (Kennewick) (B5-18)
Tina Masterson-Heggen	WDOE (Kennewick) (B5-18)
John Price	WDOE (Kennewick) (B5-18)
Matt Mills.....	WDOE (Kennewick) (B5-18)
Lynn Curry	BHI (H0-19)
Garrett Day	BHI (H0-19)
Bruce Ford	BHI (H0-21)
Alison Kent.....	BHI (H0-21)
Greg Mitchem	BHI (H0-19)
Joan Woolard.....	BHI (H0-02)
Tim Lee.....	CHI (H9-02)
Virginia Rohay	CHI (H0-19)
L. Craig Swanson	CHI (H9-02)
Mary Todd.....	CHI (H9-03)
Curtis Wittreich	CHI (H9-03)
Stuart Luttrell	PNNL (K6-96)
Mark Sweeney	PNNL (K6-81)
Administrative Record (2)	BHI (H0-09)

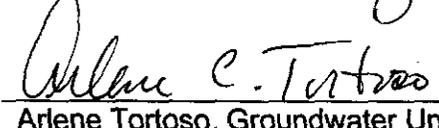
Please inform Alison Kent – BHI (372-9192)
of deletions or additions to the distribution list.

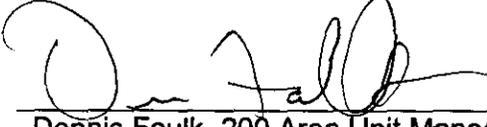
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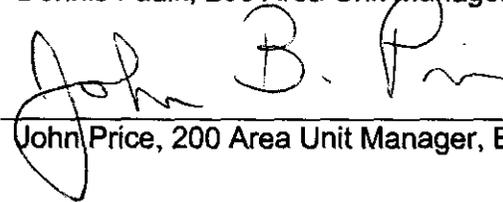
EDMC

Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
3350 George Washington Way, Richland, Washington
JUNE 2001

APPROVAL:  Date Aug 29 2001
Bryan Foley, 200 Area Unit Manager, DOE/RL (A5-13)

APPROVAL:  Date 8/29/01
Arlene Tortoso, Groundwater Unit Manager, DOE/RL (H0-12)

APPROVAL:  Date 11-15-01
Dennis Faulk, 200 Area Unit Manager, EPA (B5-01)

APPROVAL:  Date 6-4-02
John Price, 200 Area Unit Manager, Ecology (B5-18)

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

- Attachment 1 -- Agenda
 - Attachment 2 -- Attendance Record
 - Attachment 3 -- 200 Area Current Action Log
 - Attachment 4 -- 200 Area UMM Minutes – JUNE 2001
 - Attachment 5 -- Draft Well 299-W15-84 Soil Vapor Analysis
 - Attachment 6 -- Preliminary Soil Vapor Extraction System Data for April through June 2001
 - Attachment 7 -- Carbon Tetrachloride Soil Vapor Monitoring Data for July 1999 through May 2001
 - Attachment 8 -- 200-TW-1 and 200-TW-2 Drilling Schedule (FY01)
-

Prepared by:  Date 8-29-01
Alison Kent, BHI GW/VZ Integration Project (H0-21)

Concurrence by:  Date 8-29-01
Bruce Ford, BHI GW/VZ Integration Project (H0-21)

UNIT MANAGERS' MEETING AGENDA

3350 George Washington Way

June 28, 2001

9:00 a.m. – 11:00 a.m. 200 Area Room 1B45

General (10 minutes)

- Outstanding Action Items (attached)
- Open for regulatory topics or action items.
- Performance Reporting evaluation (RODs and RDR/RAWP)
- Review of Land Use Presentation to HAB

200-UP-1 (10 minutes)

- Operations Status
- Monitoring Well Installation status
- System enhancements update (CERCLA 5-Year review)

200-ZP-1 (10 minutes)

- Operations Status
- PFP Well Installation update
- Offsite waste determination needs

200-ZP-2 (PW-1) (10 minutes)

- Operations Status
- Z-9 Well deepening status including preliminary data evaluation
- Offsite waste determination needs

200-PW-1 Plutonium/Organic-Rich Process Waste OU (10 minutes)

- Work Plan Status
- Dispersed CCl₄ Plume DQO Status and Schedule

200-CW-1 Gable/B Pond and Ditches Cooling Water OU (5 minutes)

- Feasibility Study Status

200-CS-1 Chemical Sewer OU (5 minutes)

- Status of 216-A-29 Ditch Sampling Activity

200-TW-1 Scavenged and 200-TW-2 Tank Waste OUs (10 minutes)

- Status of Field Activities
- Completion Documentation for Milestones M-15-41A and M-15-42A

200-PW-2 Uranium-Rich Process Waste OU (5 minutes)

- Status of Workplan
- Status of TPA Change Packages
 - M-15-00-06
 - M-20-01-01
 - M-13-XX-XX (addresses M-13-00L)

**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
15	200 Area Implementation Plan Ecology comment response letter	Bryan Foley, RL	John Price, Ecology	01/18/2000		TBD		

MEETING MINUTES
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS
UNIT MANAGERS' MEETING -- 200 AREA
June 28, 2001

Attendees: See Attachment #2

Agenda: See Attachment #1

Topics of Discussion:

1. General

- Outstanding Action Items – The action item tracking log was reviewed. EPA stated that the minutes of the preceding meetings have not been distributed for approximately six months and requests that an action item be added to the tracking log. (see attached).
- Open for Regulatory Topics or Action Items – Stuart Luttrell asked for input from EPA and Ecology as to the expected scope of the Monitoring Plans for BP-5 and PO-1, respectively. EPA recommends starting from the beginning, selecting key wells for the CERCLA network, so that a comprehensive well network is established that covers the entire operating unit, including RCRA sites.

Plans for UP-1 and ZP-1 are due in December. EPA expects to have those plans by December 31, 2001. In order to meet that December date, EPA recommends starting in August. EPA requested a status on the path forward on UP-1 and ZP-1.

- Performance Reporting Evaluation (RODs and RDR/RAWP) – The RDR/RAWPs and RODs are being reviewed.
- Review of Land Use Presentation to HAB – The presentation went well. They are working with the committee now and are considering holding a workshop with the full HAB board.

2. 200-UP-1

- Operations Status – An effort has been made to increase the pumping rate to more than 50 gallons per minute. Well maintenance is being scheduled and the pump will be pulled and lowered if needed to maintain flow.
- Monitoring Well Installation Status – The contractor is mobilizing at the monitoring well location.
- System Enhancements Update – The UP-1 system enhancement designs are proceeding to be completed in FY01. Field construction is to start in FY02.

3. 200-ZP-1

- Operations Status – The wells are operating at 175 – 180 gallons per minute. The W15-33 well has been difficult to control because of lower flow. Improvements are being made. Algae build up has not been a concern this spring. We will wait and see.
- PFP Well Installation Update – The DQO was just revised and is in internal BHI review. Following internal review, it will be ready for DOE/RL and EPA to review. Input from the strawman meeting was used in the revision. Installation is scheduled for August. EPA stated that when the SAP is received, it will be forwarded to Joe Caggiano for review and a variance may be done. Comments on the DQO were requested to be out in a week. EPA will send a letter, no approval page is needed.
- Offsite Waste Determination Needs – A date of July 12, 2001 was given for determination for offsite waste. Another request will be sent to EPA after that.

4. 200-ZP-2

- Operations Status – There are some pressure transmitter problems with the SVE system, it's under review. We will move from Z1-A to the next set of wells, probably around Z-9. A handout was distributed reflecting the Z1-A data information. Analysis of GAC is being done monthly and Virginia Rohay will get an evaluation of it out soon.
- Z-9 Well Deepening Status Including Preliminary Data Evaluation – Well deepening was completed on June 15, 2001 and it is ready for use. A handout on soil vapor analysis was distributed showing concentrations in the soil vapor. For well 84, the highest concentrations were found in the Plio Pleistocene. Below the caliche, the concentrations dropped off and then the concentrations picked-up again in the lower portion of the well. Groundwater is at approximately 230 feet. For well 95, the highest levels of carbon tetrachloride are in the sandy gravel below the Plio Pleistocene. The difference between the two wells is very interesting. The packer test really helped. On the first well, a ribbon was not used because of integrated sampling with PNNL. A ribbon was used on the second well.
- Offsite Waste Determination Needs – A date of July 12, 2001 was given for termination for offsite waste. Another request will be sent to EPA after that.

5. 200-PW-1 Plutonium/Organic-Rich Process Waste OU

- Work Plan Status – We are proceeding with the DQO. We will start on the Work Plan when the DQO is wrapped up.
- Dispersed CC14 Plume DQO Status and Schedule – Briefings are scheduled with DOE/RL and EPA in July. The technical team would like to have an interim meeting before that. EPA asked how the NETL work would be incorporated into the Work Plan.

6. 200-CW-1 Gable/B Pond and Ditches Cooling Water OU

- Feasibility Study Status – Evaluations on waste sites inside the exclusive-use boundary are proceeding. The focus is on modeling of the B Pond. After B Pond, the Gable Mountain Pond and one of the ditches will be modeled. Portions of the document that deal with the waste sites inside the boundary have been partially drafted. The document is due to Ecology March 2003. Ecological sampling will start next spring; the DQO will begin in December.

7. 200-CS-1 Chemical Sewer OU

- Status of 216-A-29 Ditch Sampling Activity – A Statement of Work was received from CH2M Hill Hanford Group (CHG) for the sampling at the A-29 Ditch. Deliverable dates have been adjusted to account for the slip in schedule based on the July 2, 2001, start date. The SAP is due to be delivered to CHG on August 9, 2001.

8. 200-TW-1 Scavenged and 200-TW-2 Tank Waste OUs

- Status of Field Activities – Craig Cameron needs to be included in distribution. A drilling schedule was handed out. Drilling is being done on the night shift (9:30 pm to 8:00 am). The best time to visit is early in the morning. The drilling is down to 47 feet at T-26 as of the end of the shift on 6/28. Details are captured in the daily field reports. The borehole is expected to be finished in mid-July. At that time, drilling will move to B-38. Drive casings at B-38 will start this week and will be logged prior to selection of the B-38 borehole location. The M-15-41A and -42A TPA milestones require completion of the sample collection by the end of October.
- Completion Documentation for Milestones M-15-41A and M-15-42A – Documentation of the completion of the milestones can be accomplished by a letter sent to EPA.

9. 200-PW-2 Uranium-Rich Process Waste OU

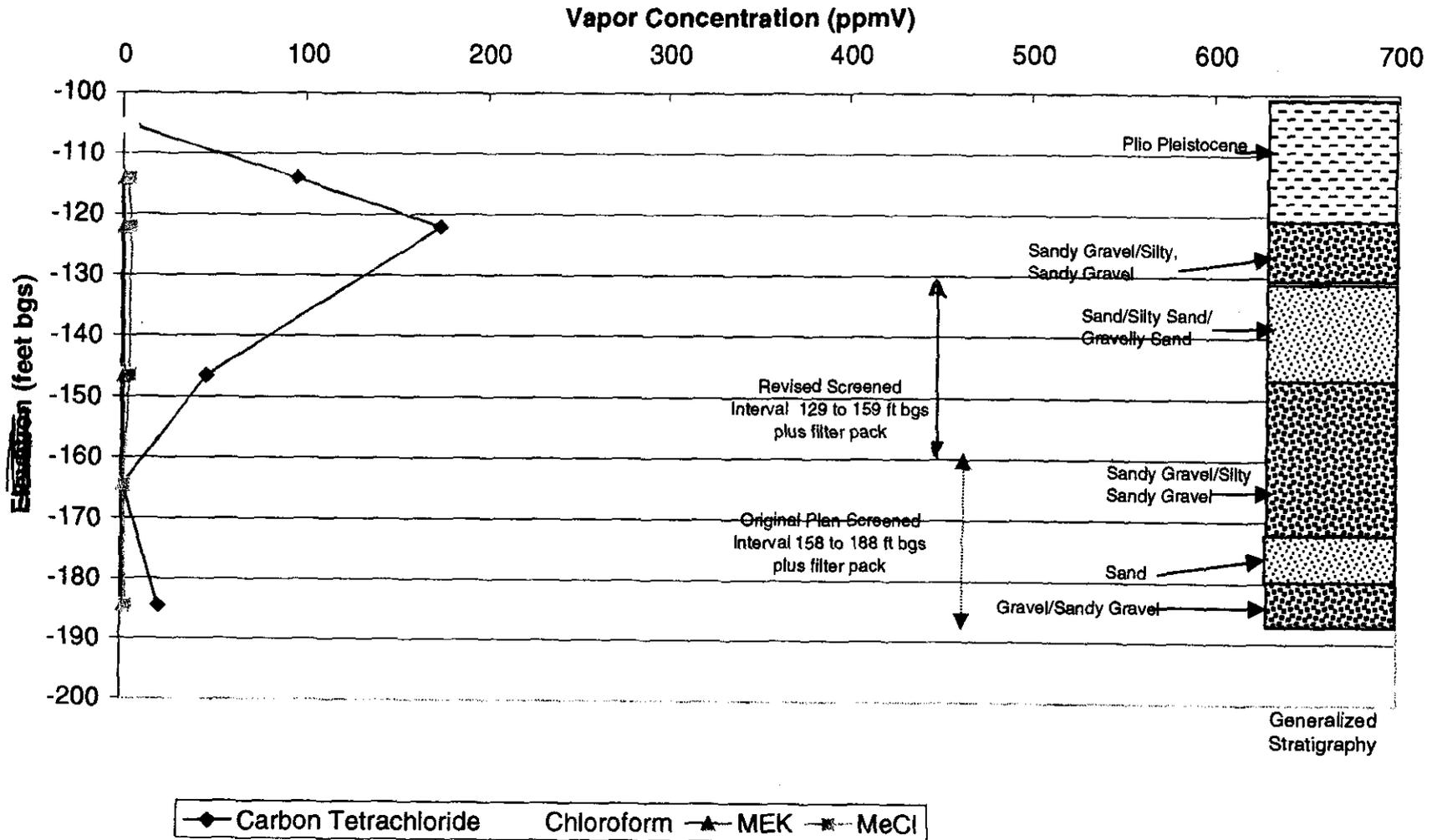
- Status of the Workplan – The transmittal letter is being revised. The PW-2 Work Plan, Rev. 0, will be sent with a transmittal letter that contains a commitment to provide a draft of all the M-20 modifications as well as the M-13-00L change request by August. This should be through DOE/RL by next week.
- Status of TPA Change Packages –
 - M-15-00-06 – Will be transmitted with the work plan.
 - M-13-XX-XX (addresses M-13-00L) – EPA requested that the M-13-00L be sent in draft form.

Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites
July 1999 - May 2001

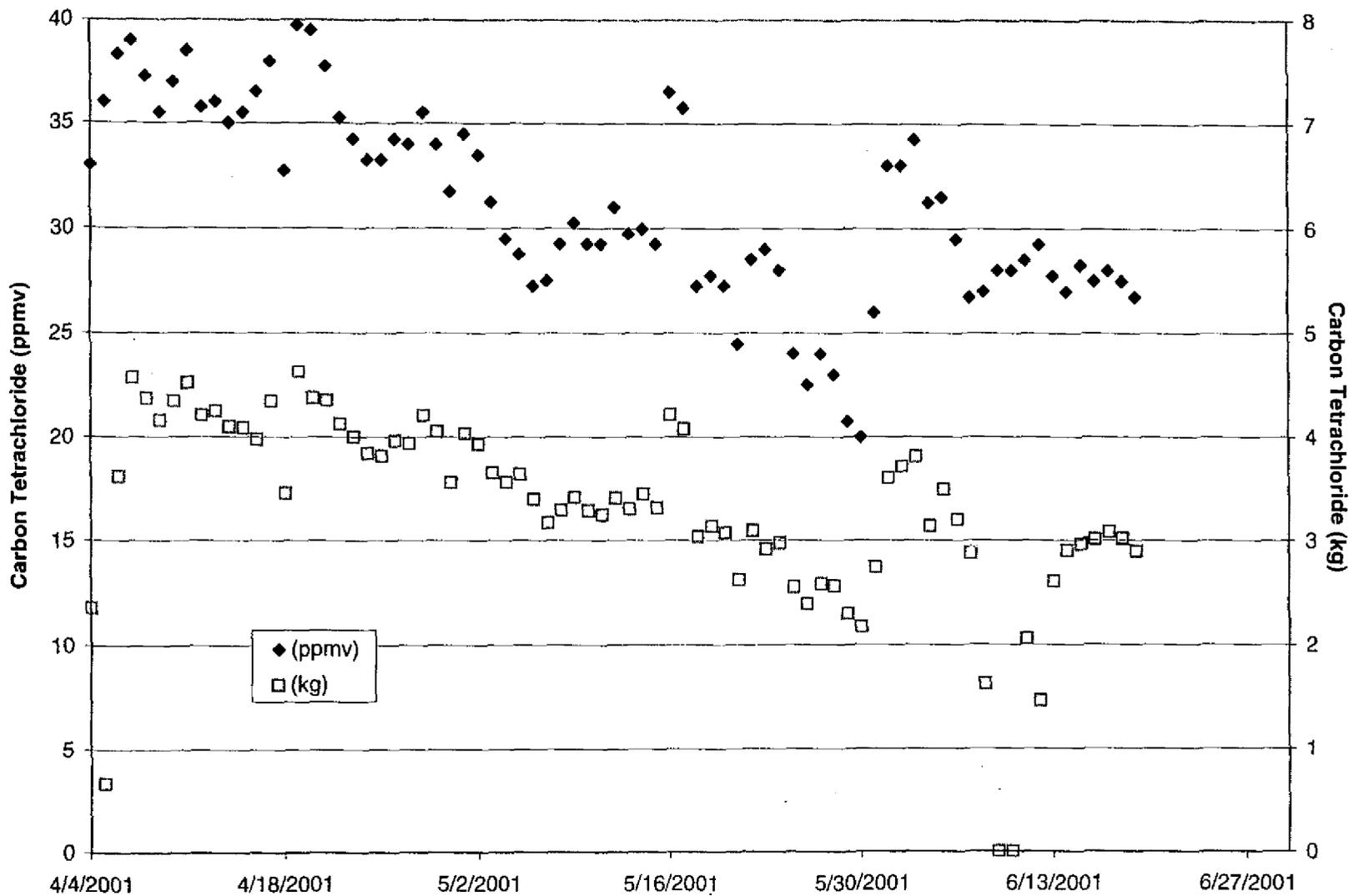
200-PW-1 (200-ZP-2)	Location	Site	Zone	07/30/99	09/14/99	9/28/99	10/26/99	11/30/99	12/29/99	01/25/00	03/07/00	06/02/2000	06/27/2000	07/24/2000	08/29/2000	09/25/2000	10/31/2000 (b)	11/1/2000 (c)	11/28/2000	12/29/2000	02/12/2001	02/28/2001	03/20/2001	04/30/2001	05/30/2001	
(Well of Probe) /feet bgs				CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)															
CPT-17/ 10 ft	Z-9	2		2.1	2.6	2.3	1.7	3.1	2.8	2.9	1.7	5.1	3.4	4.2	4.6	4.4	4.3		3.7	5.2	4.8	5.7	5.3	6.8	5.1	
CPT-18/ 15 ft	Z-9	2		1.3	3.5	0	0	1.6	4.3	2.8	2.6	5.2	3.8	2.0	4.1	3.2	1.7		2.1	3.0	2.3	1.5	1.5	3.2	2.0	
CPT-32/ 25 ft	Z-9	2					0	0	0	0	0	0	1.6	1.4	1.8	1.7	1.0		0	1.5	1.1	1.5	1.3	1.3	0.0	
CPT-44/ 25 ft	Z-1A	2					0	0	1.5	3.8	9.4	8.6	7.2	8.1	6.6	6.4	6.3		7.6	11.9	16.5	5.7	15.4	1.3	0.0	
CPT-30/ 28 ft	Z-1A	2					0	1.0	1.4	0	0	0	0	0	0	1.0	0		0	0	0	0	0	3.5	2.0	
CPT-13A/ 30 ft	Z-1A	2					0	0	1.6	1.1	2.1	2.5	3.4	2.5	3.4	2.6	2.4		0	0	0	0	0	0	2.0	
CPT-7A/ 32 ft	Z-1A	2					2.3	1.9	2.8	2.3	4.4	4.7	6.2	3.9	4.3	3.9	4.3		2.3	2.9	2.2	3.6	2.4	2.5	1.6	
CPT-27/ 33 ft	Z-9	2					1.1	0	1.2	1.2	1.3	1.6	1.3	1.2	1.8	1.6	0		3.8	5.2	5.5	5.2	5.1	2.7	1.9	
CPT-1A/ 35 ft	Z-12	2					2.5	3.1	2.8	4.1	3.3	4.2	3.7	3.7	4.3	4.0	3.7		1.2	2.6	2.3	2.6	2.0	2.6	1.4	
CPT-34/ 40 ft	Z-18	2																	5.1	4.9	3.0	4.6	4.2	4.8	3.0	
CPT-21A/ 45 ft	Z-9	2		51.7	56.6	42	50.3	78	70.4	81.6	54.0	94	88.7	91.4	122	96.4	80.8		84.4	92.8	81.6	86.8	65.8	127	86.8	
W15-220SST/ 52	Z-9	2																							1.9	1.3
CPT-9A/ 60 ft	Z-9	2		(a)	43.9	44.0	32.9	39.3	43.5	38.1	33.2	43.9	67.6	40.3	41.6	42.2	38.1								2.5	1.9
W15-219SST/ 70	Z-9	2																		38.2	42.9	36.1	31.5	34.3	37.1	35.6
CPT-18/ 75 ft	Z-9	2																							7.7	7.0
W15-82/ 82 ft	Z-9	2		(a)	42.5	38.1	35.7	23.4	21.2	19.0	29.8	25.5	23.5	25.5	26.5	28.7	1.2								16.0	17.7
W15-85/ 82 ft	Z-9	2		(a)	8.3	7.6	9.0	11.2	12.5	14.5	13.2	21.2	21.7	23.7	27.4	28.5	1.1	6.1	1.9	51.0	19.9	47.1	2.4	55.0	1.5	
CPT-21A/ 86 ft	Z-9	2		66.6	12.6	123	90.7	133	123	141	113	195	186	169	189	175	164		30.6	39.1	32.1	35.5	42.8	224	1.5	
CPT-28/ 87 ft	Z-9	2		49.3	151	105	104	170	180	181	89.7	205	165	174	214	195	127		148	161	153	172	121	188	139	
W15-85/ 82 ft	Z-9	2																	135	187	146	188	121	224	148	
W18-152/ 113 ft	Z-12	2					1.8	22.1	24.7	17.7	3.7	22.9	3.1	1.8	13.7	5.2	2.9								51.3	18.8
W15-217/ 115 ft	Z-9	3		88.6	267	26.3	204	317	370	400	92.0	442	358	185	432	249	130	105	5.2	5.2	3.8	8.0	2.3			
CPT-24/ 118 ft	Z-9	3																	205	290	160	339	86.5	360	124	
W15-220SST/ 118	Z-9	3																							35.2	14.2
W18-158L/ 123 ft	Z-1A	3					79.6	103	134	132	152	134	196	186	151	141	176							34.0	17.6	
W18-167/ 123 ft	Z-1A	3					88.8	115	144	109	104	248	227	216	167	174	171		164	197	239	200	284			
W15-219SST/ 130	Z-9	4																	136	166	166	135	97.2			
W18-249/ 134 ft	Z-18	3					74.8	132	173	149	60.0	176	137	78.3	154	95.2	51.0							54.4	40.1	
W18-248/ 136 ft	Z-1A	3					130	98.7	85.5	110	130	183	186	170	184	202	177		49.2	123	52.1	125	46.7			
W15-219SST/ 154	Z-9	5																	169	175	214	164	178			
W15-220SST/ 184	Z-9	5																							43.6	4.1
W15-9L/ 189 ft	Z-9	6		(a)	10.3	1.1	8.6	12.0	12.1	14.4	9.0	12.3	11.9	11.0	20.4	10.1	5.9	5.5	8.8	6.3	5.8	5.2	1.4	(d)	14.5	12.5
(a) sample pump failure																										
(b) Sampler comment: The well caps were off on wells W15-95 and W15-82. In addition, wells W15-217 and W15-9L are suspected according to sample results to be undergoing maintenance. These wells will be retested on 11/01/00.																										
VJR note: Believe that well caps were off as a result of downhole video survey conducted on 10/31/00 in W15-82, W15-84, W15-95 to support well deepening for PITT.																										
(c) Sampler comment: W15-217, W15-9L, and W15-82 show readings that are lower than expected. Well W15-95 appears to have returned to normal.																										
Well caps were back on wells on 11/01/00 during sampling.																										
VJR note: drift (straightness) test conducted on 11/2/00 in W15-82, W15-84, W15-95.																										
VJR note: follow-up downhole video survey conducted on 11/7/00 in W15-82, W15-84, W15-95.																										
(d) tubing cut.																										

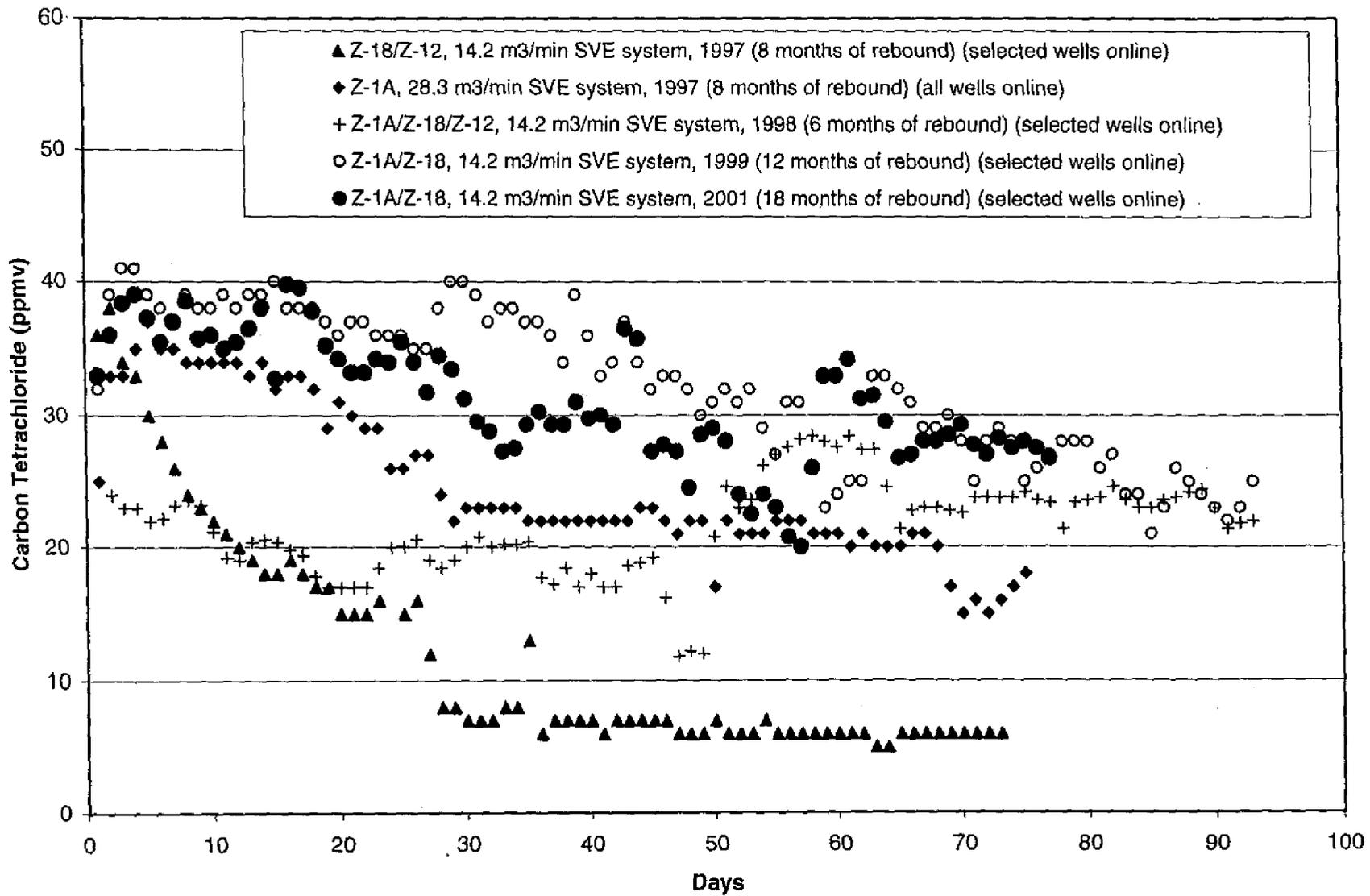
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Well 299-W15-95 Soil Vapor Analysis



Z-1A / Z-18 / Z-12





Comparison of Maximum Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites
FY 1997 - FY 2001

200-PW-1 (200-ZP-2)				November 1996 - July 1997		October 1997 - September 1998		July 1998 - September 1999		July 1999 - May 2001	
Location (Well or Probe)	Site	Zone	Maximum Rebound Carbon Tetrachloride /feet bgs (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	1	0	8	0	3		0	12		
79-06/ 5 ft	Z-1A	1	not measured		not measured			1.4	12		
79-11/ 5 ft	Z-1A	1	0	8	0	6		2.9	12		
86-05/ 5 ft	Z-9	1	not measured		not measured			0	3		
86-05-01/ 5 ft	Z-9	1	not measured		not measured			0	3		
86-06/ 5 ft	Z-9	1	1.3	8	0	9		1.9	6		
87-05/ 5 ft	Z-1A	1	not measured		0	3		1.0	12		
87-09/ 5 ft	Z-1A	1	not measured		1.5	3		2.6	12		
94-02/ 5 ft	Z-9	1	0	8	not measured			1.4	3		
95-11/ 5 ft	Z-9	1	0	8	2.1	9		2.5	6		
95-12/ 5 ft	Z-9	1	1.1	8	1.5	9		1.3	6		
95-14/ 5 ft	Z-9	1	not measured		not measured			0	3		
CPT-13A/ 9 ft	Z-1A	2	not measured		0	6		1.0	12		
CPT-16/ 10 ft	Z-9	2	not measured		0	9		1.5	6		
CPT-17/ 10 ft	Z-9	2	not measured		4.2	9		5.1	6	6.6 23	
CPT-18/ 15 ft	Z-9	2	not measured		6.5	9		5.0	6	5.2 23	
CPT-31/25 ft	Z-1A	2	not measured		0	6		0	12		
CPT-16/ 25 ft	Z-9	2	not measured		not measured			not measured		1.8 23	
CPT-32/ 25 ft	Z-1A	2	not measured		9.1	6		10	12	16.5 18	
CPT-4A/ 25 ft	Z-1A	2	not measured		not measured			not measured		3.5 0	
CPT-30/ 28 ft	Z-18	2	not measured		not measured			3.2	12	1.4 18	
CPT-13A/ 30 ft	Z-1A	2	2.2	8	not measured			not measured		3.6 18	
CPT-7A/ 32 ft	Z-1A	2	not measured		2.3	6		5.4	12	6.2 18	
CPT-27/ 33 ft	Z-9	2	1.2	8	not measured			not measured		2.6 23	
CPT-1A/ 35 ft	Z-18	2	2.0	8	1.4	3		3.0	12	5.1 18	
CPT-33/ 40 ft	Z-1A	2	not measured		2.0	3		2.6	12		
CPT-34/ 40 ft	Z-18	2	2.3	8	not measured			1.7	12	1.9 0	
CPT-21A/ 45 ft	Z-9	2	65.6	8	52.7	9		57	3	127 23	
W15-220ST/ 52 ft	Z-9	2	2	8	not measured			1.6	3	2.5 23	
CPT-28/ 60 ft	Z-9	2	not measured		1.5	0		3.7	3		
CPT-9A/ 60 ft	Z-9	2	45.5	8	41.1	0		44	3	68 23	
CPT-30/ 68 ft	Z-18	2	1.7	8	not measured			3.0	12		
CPT-13A/ 70 ft	Z-1A	2	5.2	8	not measured			5.6	12		
CPT-24/70 ft	Z-9	2	not measured		3.2	9		3.6	3		
W15-219SST/ 70 ft	Z-9	2	14.6	8	not measured			7.6	3	7.7 23	
CPT-18/ 75 ft	Z-9	2	not measured		not measured			not measured		18 23	
CPT-31/ 76 ft	Z-1A	2	4.0	8	not measured			4.2	12		
CPT-33/ 80 ft	Z-1A	2	5.8	8	not measured			9.2	12		
W15-82/ 82 ft	Z-9	2	28.9	8	5.5	9		46	6	55 23	
W15-95/ 82 ft	Z-9	2	not measured		15.3	9		39	6	43 21	
CPT-21A/ 86 ft	Z-9	2	221	8	206	9		148	6	195 23	
CPT-34/ 86 ft	Z-18	2	36.3	8	5.9	3		0	12		
W15-218SST/ 86 ft	Z-9	2	not measured		not measured			0	3		
CPT-28/ 87 ft	Z-9	2	280	8	230	9		203	6	224 23	
CPT-1A/ 91 ft	Z-18	2	3.9	8	not measured			4.2	12		
CPT-4A/ 91 ft	Z-1A	2	not measured		7.7	3		14	12		
CPT-9A/ 91 ft	Z-9	2	103	8	34.5	9		72	3		
W15-85/ 92 ft	Z-9	2	not measured		not measured			not measured		51 23	
W18-252SST/ 100 ft	Z-1A	2	38.2	8	17.8	3		24	12		
W18-152/ 113 ft	Z-12	2	46.8	8	11.1	3		33	12	25 18	
W15-217/ 115 ft	Z-9	3	797	8	630	9		561	6	442 23	
CPT-24/ 118 ft	Z-9	3	44.6	6	37.7	9		37	6	35 23	
W15-220SST/ 118 ft	Z-9	4	21.9	8	not measured			36	3	34 23	
W18-158L/ 123 ft	Z-1A	3	not measured		143	3		492	12	284 18	
W18-167/ 123 ft	Z-1A	3	323	8	79.7	3		228	12	248 18	
W15-219SST/ 130 ft	Z-9	4	298	8	not measured			47	3	54 23	
W18-249/ 134 ft	Z-18	3	206	8	20.4	3		215	12	176 18	
W18-249/ 136 ft	Z-1A	3	288	8	86.3	3		177	12	214 18	
W15-219SST/ 155 ft	Z-9	5	59.6	8	not measured			24	3	44 23	
W15-220SST/ 185 ft	Z-9	5	14.5	8	not measured			13	3	15 23	
W15-6L/ 189 ft	Z-9	6	22.6	8	17.8	9		1.3	6		
W15-9L/ 189 ft	Z-9	6	18.3	8	15.0	9		15	6	20 21	
W18-7/ 200 ft	Z-1A	6	28.5	8	17.3	3		29	12		
W18-6L/ 208 ft	Z-1A	6	36	8	31.3	6		15	12		
W18-12/ 210 ft	Z-18	6	not measured		3.6	3		19	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 (200-ZP-2) Soil Vapor Extraction Sites
July 1999 - May 2001

200-PW-1 (200-ZP-2) Location	Site	Zone	07/30/99	09/14/99	9/28/99	10/26/99	11/30/99	12/28/99	01/25/00	03/07/00	06/02/2000	06/27/2000	07/24/2000	08/29/2000	09/25/2000	10/31/2000	11/11/2000	11/28/2000	12/29/2000	02/12/2001	02/28/2001	03/20/2001	04/30/2001	05/30/2001
(Well or Probe) /feet bgs			CCl4 (ppmv)	(b) CCl4 (ppmv)	(c) CCl4 (ppmv)	CCl4 (ppmv)																		
CPT-17/ 10 ft	Z-9	2				1.7	3.1	2.8	2.9	1.7														
CPT-18/ 15 ft	Z-9	2	2.1	2.8	2.3																			
CPT-16/ 25 ft	Z-9	2	1.3	3.5	0	1.8	1.6	4.3	2.8	2.6	5.2	3.8	2.0	4.1	3.2	1.7								
CPT-32/ 25 ft	Z-1A	2				0	0	0	0	0	0	0	1.6	1.4	1.8	1.7	1.0							
CPT-4A/ 25 ft	Z-1A	2				0	0	1.5	3.8	9.4	8.6	7.2	8.1	6.6	6.4	6.3								
CPT-30/ 28 ft	Z-1A	2				0	1.0	1.4	0	0	0	0	0	0	1.0	0								
CPT-13A/ 30 ft	Z-1A	2				0	0	1.6	1.1	2.1	2.5	3.4	2.5	3.4	2.6	2.4								
CPT-7A/ 32 ft	Z-1A	2				2.3	1.9	2.8	2.3	4.4	4.7	6.2	3.8	4.3	3.9	4.3								
CPT-27/ 33 ft	Z-9	2				1.1	0	1.2	1.2	1.3	1.6	1.3	1.2	1.8	1.6	0								
CPT-1A/ 35 ft	Z-12	2				2.5	3.1	2.8	4.1	3.3	4.2	3.7	3.7	4.3	4.0	3.7								
CPT-34/ 40 ft	Z-18	2																						
CPT-21A/ 45 ft	Z-9	2	51.7	56.6	42	50.3	78	70.4	81.6	54.0	94	88.7	91.4	122	96.4	80.8								
W15-220SST/ 52	Z-9	2																						
CPT-9A/ 60 ft	Z-9	2	----	(a)	43.9	44.0	32.9	39.3	43.5	38.1	33.2	43.9	67.6	40.3	41.6	42.2	38.1							
W15-219SST/ 70	Z-9	2																						
CPT-18/ 75 ft	Z-9	2																						
W15-92/ 82 ft	Z-9	2	----	(a)	42.6	38.1	35.7	23.4	21.2	19.0	29.8	25.5	23.5	25.5	26.5	28.7	1.2	6.1	1.9	51.0	19.9	47.1	2.4	
W15-95/ 82 ft	Z-9	2	----	(a)	8.3	7.6	8.0	11.2	12.0	14.5	13.2	21.2	21.7	23.7	27.4	28.5	1.1	30.2	30.6	39.1	32.1	35.5	42.8	
CPT-21A/ 86 ft	Z-9	2	66.6	12.6	123	90.7	133	123	141	113	195	186	169	188	175	164								
CPT-28/ 87 ft	Z-9	2	49.3	151	105	104	170	180	181	69.7	205	165	174	214	195	127								
W15-85/ 92 ft	Z-9	2																						
W18-152/ 113 ft	Z-12	2				1.8	22.1	24.7	17.7	3.7	22.9	3.1	1.8	13.7	5.2	2.9								
W15-217/ 115 ft	Z-9	3	68.6	267	26.3	204	317	370	400	92.0	442	358	185	432	249	130	105							
CPT-24/ 118 ft	Z-9	3																						
W15-220SST/ 118	Z-9	3																						
W18-158/ 123 ft	Z-1A	3				79.6	103	134	132	152	194	198	188	151	141	178								
W18-167/ 123 ft	Z-1A	3				88.8	115	144	109	104	248	227	216	167	174	171								
W15-219SST/ 130	Z-9	4																						
W18-249/ 134 ft	Z-18	3				74.8	132	173	149	60.0	176	137	78.3	154	95.2	51.0								
W18-249/ 136 ft	Z-1A	3				130	98.7	85.5	110	130	183	186	170	184	202	177								
W15-219SST/ 152	Z-9	5																						
W15-220SST/ 182	Z-9	5																						
W15-9L/ 189 ft	Z-9	6	----	(a)	10.3	1.1	8.6	12.0	12.1	14.4	9.0	12.3	11.9	11.0	20.4	10.1	5.9	5.5	8.8	8.3	5.8	5.2	1.4	
(a) sample pump failure																								
(b) Sampler comment: The well caps were off on wells W15-95 and W15-82. In addition, wells W15-217 and W15-9L are suspected according to sample results to be undergoing maintenance. These wells will be retested on 11/01/00.																								
VJR note: Believe that well caps were off as a result of downhole video survey conducted on 10/31/00 in W15-82, W15-84, W15-95 to support well deepening for P11T.																								
(c) Sampler comment: W15-217, W15-9L, and W15-82 show readings that are lower than expected. Well W15-95 appears to have returned to normal.																								
Well caps were back on wells on 11/01/00 during sampling.																								
VJR note: drift (straightness) test conducted on 11/2/00 in W15-82, W15-84, W15-95.																								
VJR note: follow-up downhole video survey conducted on 11/7/00 in W15-82, W15-84, W15-95.																								
(d) tubing cut.																								

200-TW-1 and 200-TW-2 Drilling Schedule (FY01)

ID	Task Name	Duration	Start	Finish	July							August				September				
					6/17	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	
1	216-T-26 Crib	75 days	Mon 6/18/01	Fri 9/28/01	[Redacted Gantt Bar]															
2	Mobilization	4 days	Mon 6/18/01	Thu 6/21/01	[Redacted Gantt Bar]															
3	Borehole Drilling	23 days	Fri 6/22/01	Tue 7/24/01	[Redacted Gantt Bar]															
4	Sampling	24 days	Fri 6/22/01	Wed 7/25/01	[Redacted Gantt Bar]															
5	Laboratory Analysis	71 days	Fri 6/22/01	Fri 9/28/01	[Redacted Gantt Bar]															
6	Waste Management	71 days	Fri 6/22/01	Fri 9/28/01	[Redacted Gantt Bar]															
7	216-B-38 Trench	67 days	Thu 6/28/01	Fri 9/28/01	[Redacted Gantt Bar]															
8	Drive Casings	10 days	Thu 6/28/01	Wed 7/11/01	[Redacted Gantt Bar]															
9	Borehole Drilling	20 days	Wed 7/25/01	Tue 8/21/01	[Redacted Gantt Bar]															
10	Sampling	22 days	Wed 7/25/01	Thu 8/23/01	[Redacted Gantt Bar]															
11	Laboratory Analysis	48 days	Wed 7/25/01	Fri 9/28/01	[Redacted Gantt Bar]															
12	Waste Management	48 days	Wed 7/25/01	Fri 9/28/01	[Redacted Gantt Bar]															
13	216-B-7A Crib	28 days	Wed 8/22/01	Fri 9/28/01	[Redacted Gantt Bar]															
14	Borehole Drilling	20 days	Wed 8/22/01	Tue 9/18/01	[Redacted Gantt Bar]															
15	Sampling	22 days	Wed 8/22/01	Thu 9/20/01	[Redacted Gantt Bar]															
16	Laboratory Analysis	28 days	Wed 8/22/01	Fri 9/28/01	[Redacted Gantt Bar]															
17	Waste Management	28 days	Wed 8/22/01	Fri 9/28/01	[Redacted Gantt Bar]															

Project: Project1 Date: Thu 6/28/01	Task [Redacted] Split [Redacted] Progress [Redacted] Milestone [Redacted]	Summary [Redacted] Rolled Up Task [Redacted] Rolled Up Split [Redacted] Rolled Up Milestone [Redacted]	Rolled Up Progress [Redacted] External Tasks [Redacted] Project Summary [Redacted]
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