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Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
2440 Stevens Center, Room 1200 Richland, Washington
July 27, 1994

FROM/APPROVAL: *Paul M. Pak* Date 8/24/94
 Paul M. Pak, 200 Aggregate Area Unit Manager, RL (A5-19)

APPROVAL: *Paul R. Beaver* Date 11/17/94
 Paul R. Beaver, 200 Aggregate Area Unit Manager, EPA (B5-01)

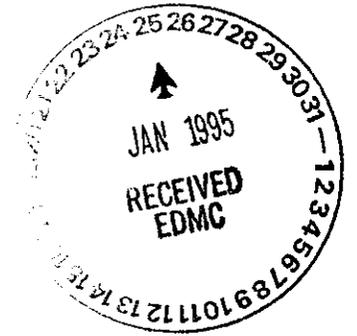
APPROVAL: *Dib Goswami* Date 9/28/94
 Dib Goswami, 200 Aggregate Area Unit Manager, WA Dept of Ecology

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

- Attachment #1 - Meeting Summary
- Attachment #2 - Attendance Sheet
- Attachment #3 - Agenda
- Attachment #4 - Action Item Status List
- Attachment #5 - 200-BP-5 Operable Unit Status
- Attachment #6 - 200-UP-1 Groundwater Operable Unit
- Attachment #7 - Project Status of the 200 West Area Carbon Tetrachloride ERA
- Attachment #8 - Status of the 200-ZP-1 Operable Unit
- Attachment #9 - 200 NPL Agreement/Change Control Form 2ZP1-1

Prepared by: *Kay Kimmel* Date: 8/24/94
 Kay Kimmel, Jim Consort GSSC (B1-42)

Concurrence by: *Joseph Zoghbi* Date: 8/24/94
~~Curt Wittreich, BHI Coordinator (H6-03)~~
 JOSEPH ZOGHBI, BHI PROJECT MANAGER - 200 AREAS



Attachment #1
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
July 27, 1994

Meeting and Summary of Commitments and Agreements

- 1. SIGNING OF THE PREVIOUS 200 AREA UNIT MANAGER'S MEETING MINUTES:**
Meeting minutes were not available for review. They will be provided at the August meeting.

- 2. ACTION ITEM UPDATE. See Attachment 4 for status:**

2AAMS.13 Open. Pending formal transmittal of the groundwater model study.
2AAMS.14 Open. Joe Zoghbi will provide.
2AAMS.16 Open. In process.
2UP1.2 Open. Detailed strategy for remediating the nitrate plume will be presented to the Regulators.
2BP5.1 Open.

- 3. NEW ACTION ITEMS (INITIATED July 27, 1994):**
No new action items were initiated.

- 4. INFORMATION ITEMS:**

- Status 200-BP-5 Operable Unit - Dave Erb provided the status of the 200-BP-5 Operable Unit (see Attachment #5). He indicated new treatability testing activities are proposed and a meeting was scheduled for August 22 at 8:30 to discuss them in detail. Ecology requested that a copy of the new sonic push drilling operations be faxed to Billie Mauss. D. Erb requested that the treatability test plan undergo an RL/regulator concurrent review the week of August 22, with work scheduled to begin August 31. An NPL Agreement form would be signed before work begins. A meeting was scheduled for August 26, 10:00 at 450 Hills for comment resolution on the test plan. The document would then be finalized by August 29, 1994. D. Erb noted that groundwater sampling will begin in September and includes 200-BP-1 wells. Ecology requested 5-day advance notification prior to sampling.

Dave Myers provided the update on sonic drilling activities using the cone penetrometer. He noted that three out of eight proposed boreholes have been pushed. He noted the purpose of these activities is to further define the plume for best placement of monitoring, extraction, and reinjection wells. Paul Pak indicated he would fax the schedule of these activities to the regulators. D. Myers noted that if the cone penetrometer fails today, no further boreholes will be pushed and a contract will be let to drill and install the monitoring/extraction wells.

- Status 200-UP-1 Operable Unit - Curt Wittreich provided an update on the field activities for the 200-UP-1 Operable Unit (see Attachment #6).

- **Limited Field Investigation** - C. Wittreich indicated that the fourth of five wells is currently being drilled for the limited field investigation. Dib Goswami requested the exact well numbers and associated data. C. Wittreich indicated that while low levels of volatile organic compounds have been detected, no uranium or technetium have been detected during field screening. He further noted that a data package will be submitted to RL by close of business August 1, 1994 with the well names, depth and sampling results.
- **Pilot-Scale Treatability Test** - C. Wittreich indicated that three of the five resins tested work well on removing both uranium and technetium, so that the final choice of a resin would be dependent on cost and performance. A question was raised on the length of time this test will run. It was noted that the schedule for the treatability test is currently being revised and will be provided at the next unit manager's meeting. Paul Pak noted that the schedule for submitting the proposed plan is too tight and he would like an extension. Dib Goswami responded that justification for this proposed change would need to be provided to him.
- **200-ZP-2, Carbon Tetrachloride ERA Status** - Sean Driggers provided the status of the carbon tetrachloride extraction activities (see Attachment #7). He indicated that the granular activated carbon (GAC) issue is completely resolved. He further noted that the wellfield strategy is being revised to optimize the design. Joe Zoghbi clarified that the plan is to maximize the use of available equipment and only optimize with additional equipment if deemed necessary.
 - **Proposed Plan** - Dennis Faulk, Ted Wooley, and Paul Pak agreed to meet to further define the goals of this remedial activity, specifically defining a stopping point and possibly including other contaminants. Dennis Faulk noted that it is important to define these goals in order to produce a coherent proposed plan.
- **Status of 200-ZP-1** - Dan Parker provided the status of the 200-ZP-1 Operable Unit (see Attachments #8 and #9). He summarized recent activities by noting that the treatability test plan was submitted to RL on July 26, 1994; that EPA had signed the waste control plan; that comment responses were finalized on the groundwater sampling and analysis plan. The treatability test is scheduled to begin mid to late August.
 - **IRM Proposed Plan** - Dennis Faulk indicated that EPA legal counsel is continuing to review the ARARs. He indicated EPA would provide language to be inserted in the plan on using best available technology for investigating the Z-9 Crib DNAPL. He further indicated no specific details would be necessary in the plan.
- **Next Meetings** - The next meetings are scheduled for August 24 and 25, 1994.

Attachment #3
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
July 27, 1994

Agenda

200 Area Activities

200-BP-5 - D. Erb

- * General Status
- Treatability Test Plan Status
- Treatability Schedule

200-UP-1 - C. Wittreich

- * General Status
- Characterization
- Treatability Studies

200-ZP-2 - S. Driggers

- * Carbon Tetrachloride ERA

200-ZP-1 - D. Parker

- * Treatability Test Plan Status
- * Treatment System Status

Attachment #4

Action Item Status List

Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units

July 27, 1994

ITEM NO.	ACTION	STATUS
2AAMS.13	Transmit the 200-UP-1 and 200-ZP-1 Treatability Test Plans and Mike Connelly's groundwater modeling studies for pump and treat to the regulators. Action: Paul Pak.	Open 03/31/94. Pending formal transmittal of the groundwater model study.
2AAMS.14	Provide to the regulators a map identifying RCRA wells and CERCLA wells for the 200 East and 200 West areas. Action: Paul Pak.	Open 03/31/94. Joe Zoghbi will provide.
2AAMS.15	Submit draft dispositions to regulator comments on the 200-BP-5 Treatability Test Plan by April 6. Action: Paul Pak.	Closed 06/30/94.
2AAMS.16	Provide a schedule describing activities that are required prior to initiating pilot scale studies in the 200-BP-5 Operable Unit by August 1994. Action: Dave Erb.	Open 03/31/94. Activities are ongoing.
2AAMS.18	Provide to the regulators a map identifying RCRA and CERCLA wells at 200 West area. Action: Curt Wittreich.	Closed 06/30/94.
2UP1.1	Provide a letter within one week to EPA and Ecology regarding the 200-UP-1 Operable Unit pilot-scale treatability test temporary suspension of treatment activities. Action: Paul Pak.	Closed 06/30/94.
2UP1.2	Develop a treatability test plan for denitrification of 200-UP-1 groundwater at laboratory and bench scales, based on the 100 Area Treatability Test Plan for Nitrate. Action: Paul Pak.	Open 05/26/94. Detailed strategy for remediating the nitrate plume will be presented to the Regulators.
2BP5.1	Revise the existing Description of Work to include the use of the cone penetrometer prior to installation of new wells to better locate extraction and recovery wells. Action: David Erb.	Open 05/26/94.

200-BP-5 OPERABLE UNIT STATUS**July 20, 1994****D. B. Erb****PL515 Treatability Testing***** NPL Change Request for 200-BP-5**

- **BHI/IT plan presented to regulators and accepted for activities through August 31**
- **New activities include:**
 - **Sonic Push holes to quantify plume extent and aquifer thickness,**
 - **Install extraction, injection and monitoring wells,**
 - **Perform geophysical surveys to define top of basalt,**
 - **Conduct literature search for alternate technologies evaluation,**
 - **Laboratory evaluations of alternate technologies.**
- **Meeting in mid August to discuss resin testing results, results from alternate technologies literature research, results from geohydrology sampling with Sonic Push rig.**

*** Well Fitness-for-Use Activities**

- All well inspections completed
- Production pump tests on 299-E28-23 completed July 18 - no drawdown at 18 gpm pump rate.
- Production pump test on 299-E28-25 completed July 20 - no drawdown at 20 gpm pump rate.
- Injection Tests for 299-E-28-1 scheduled for July 28.

*** Drilling Activities**

- Sonic Push hit groundwater at third well location, July 26. 6' aquifer thickness.
- Sample recovered. No results yet.
- Documentation/permits for Injection/Extraction wells are underway.
- Description of Work in progress.

*** Treatability Test Plan**

- July 14 NPL Change Request authorizes revising the TTP to match with new field activities.
- Subcontractor support to be used for document preparation. Estimated completion date - August 19.
- Need agreement of DOE and Regulatory Agencies to brief concurrent reviews.

*** Treatability System Fabrication/Site Preparation ^{#5/Page 3 of 3}**

- Site Preparation is scheduled to be completed by July 29 at 216-B-5 site and by August 5 at 216-BY site
- 1st System - all skids fabricated and painted, pumps & manifolds installed, pump skid wiring and instrumentation, ion exchange units complete.
- 2nd System - pump skids fabricated and painting, pump, filters, piping ~20% complete; process skid ~25% complete.
- 1st system move to field on July 29.
- 2nd system move to field on August 12.

PL513 Groundwater Monitoring*** Groundwater Monitoring Activities (PL513)**

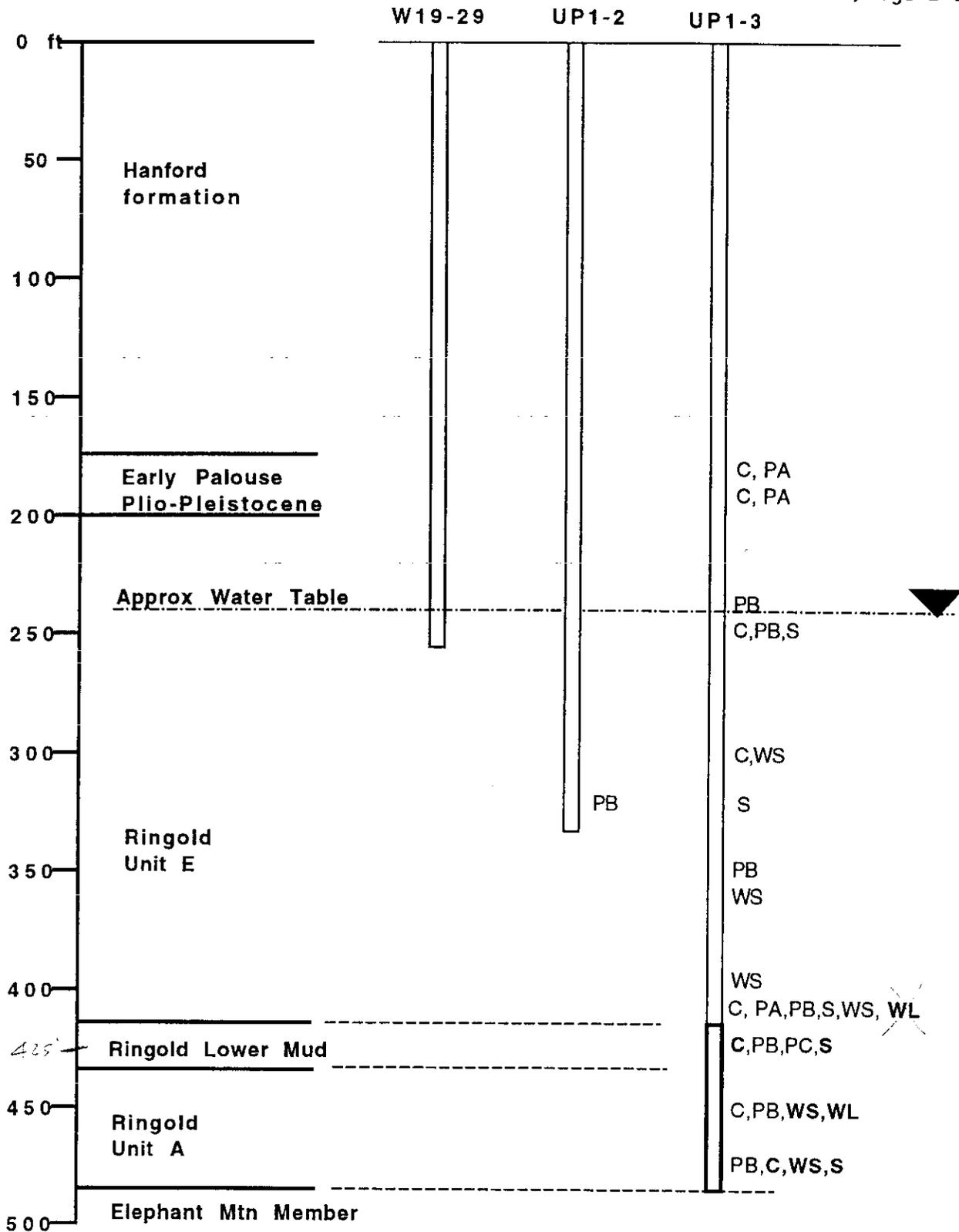
- Lab Analysis Status - Complete
- Data Validation - Started.
- 2nd Round Sampling - Task Order ready for submittal.

**200-UP-1 GROUNDWATER OPERABLE UNIT
UNIT MANAGERS MEETING, JULY 27, 1994**

AGENDA

- LIMITED FIELD INVESTIGATION
 - GROUNDWATER MONITORING STATUS
Completed first two quarters
 - WELL INSTALLATION STATUS
Completed 3 of 5 wells
- PILOT-SCALE TREATABILITY TEST
 - OPERATIONAL STATUS
Processed 60,000 gallons to date

REVISED WELL CONSTRUCTION/SAMPLING PROGRAM FOR 200-UP-1



PA = Physical A	WS = Groundwater Screening
PB = Physical B	WL = Groundwater Lab
PC = Physical C	S = Slug Test
C = Chemical	

Attachment #7 Page 1 of 1
 July 27, 1994 Unit Managers Meeting
 Project Status of the 200 West Area Carbon Tetrachloride ERA

1. CCl₄ Extraction Data

MONTHLY CCL ₄ EXTRACTION SUMMARY						
Operational Period	VES System	Avg. Flow (scfm)	Avg. Conc. (ppmv)	Time (hrs)	System Availability (percent)	CCl ₄ Extracted lbs/(kg)
6/1 -6/30	500 cfm	230	104	1.0	--	< 1
	1000 cfm*	496	420	312.0	73%	1,528 (695)
	1500 cfm*	499	7,772	144.35	87%	14,812 (6,733)
1994 Total						43,881 (19,946)
1993 Total						7,932 (3,605)
1992 Total						2,111 (958)
GRAND TOTAL						53,924 (24,509)

* Lower than normal flow reflects influence of limited operations during the first week of June as a result of delayed GAC shipments due to the redesignation of the CCl₄ as a listed waste.

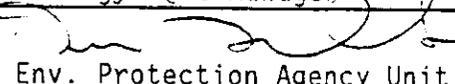
2. Started 7 day-per-week operation at the Z-1A site on July 16.
3. On schedule to finish characterization of the Z-18 wellfield and begin 24 hour-per-day, 5 day-per-week operation by August 1.
4. Third defective silencer has been received from the manufacturer and was been installed on July 21, returning the 1500 cfm unit back to full extraction capacity. 24 hr-per-day, 5 day-per-week operation scheduled to start by September 30.
5. Revision to the Wellfield Strategy (Optimization) Report will be issued the end of August.

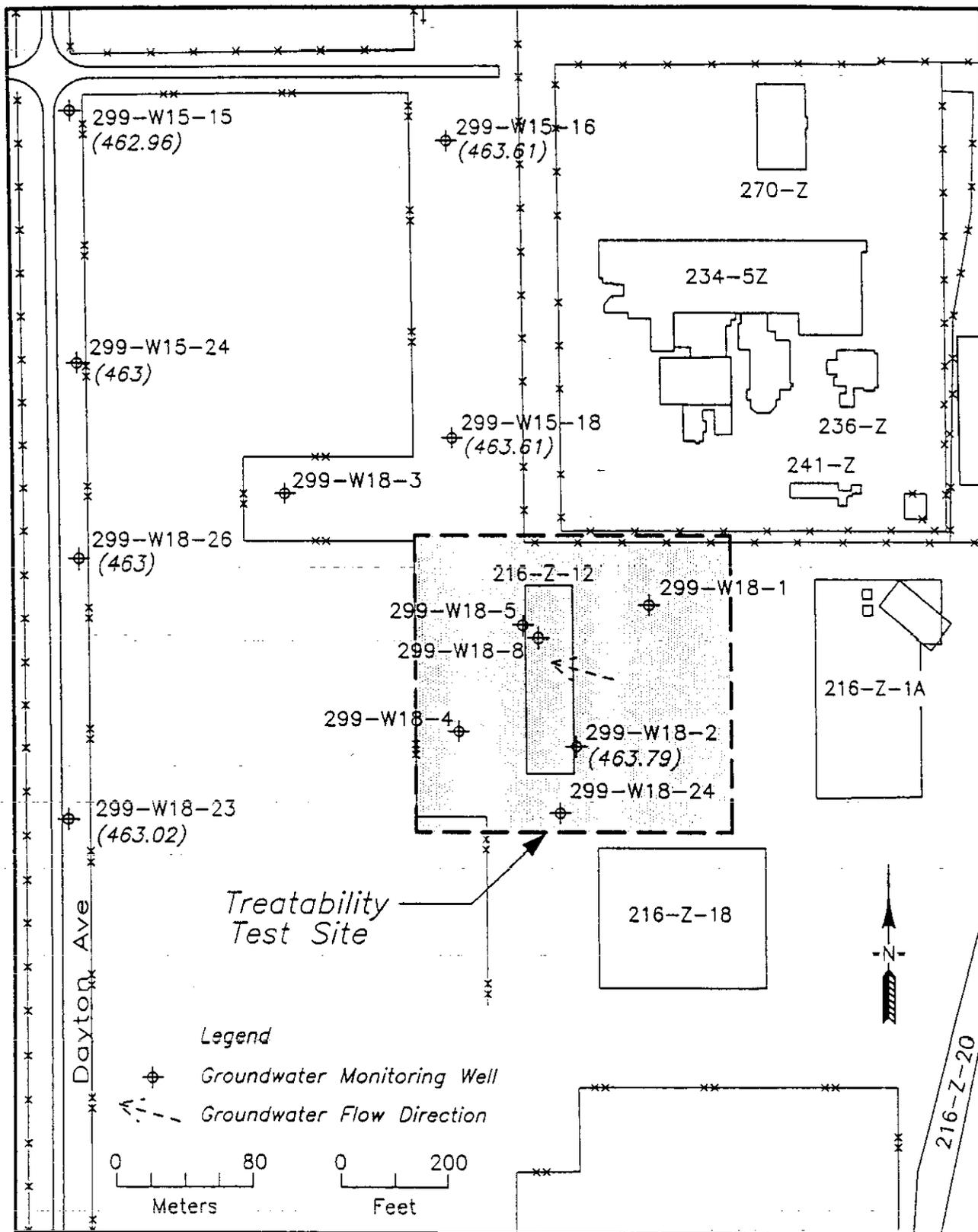
STATUS OF THE 200-ZP-1 OPERABLE UNIT

JULY 27, 1994

o General Status - D. Parker

- System Preparation**
- Treatability Test Plan**
- Waste Control Plan**
- Groundwater Sampling and Analysis Plan**
- IRM Proposed Plan**

Control Number: 2ZP1-1	200 NPL Agreement/Change Control Form __ Change __X Agreement __ Information Operable Unit(s): 200-ZP-1	Date Submitted: June 14, 1994 Date Approved:
Document Number/Title: Treatability Test Plan for the 200-ZP-1 Operable Unit.	Date Document Last Issued: N/A	
Originator: D. L. Parker	Phone: 372-1031	
<p>Summary Description: Ecology, EPA and DOE Unit Managers for Groundwater Operable Unit 200-ZP-1 agree to initiate the 200-ZP-1 pilot-scale treatment test using well 299-W18-1 as an extraction well and 299-W18-4 as a return well. Both wells are located north of the 216-Z-18 Crib and south of 234-5Z Building. Treated groundwater will be returned via well 299-W18-4 at carbon tetrachloride concentrations that may be above maximum contaminant levels (MCLs). Returning treated groundwater via down gradient well 299-W18-4 is expected to minimize the potential for establishing a recirculation cell between the extraction and return wells. A site plan showing the location of these two wells with respect to other wells, adjacent facilities, groundwater flow direction, and the treatment test site is attached.</p>		
Justification and Impact of Change:		
 WHC Operable Unit Coordinator	Date	6/22/94
 DOE Unit Manager	Date	6-22-94
 Ecology Unit Manager	Date	6/30/94
 Env. Protection Agency Unit Manager	Date	6-21-94
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3.		



Distribution

**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
July 27, 1994**

Paul Pak DOE-RL, ERD (A5-19)
 Mary Harmon DOE-HQ (EM-442)
 Richard Person DOE-HQ (EM-442)

Paul Beaver 200 Aggregate Area Manager, EPA (B5-01)
 Brian Drost USGS, Support to EPA
 Jeffrey Ross PRC, Support to EPA

Dib Goswami WDOE (Kennewick)
 Larry Goldstein WDOE (Lacey)

Lynn Albin Washington Dept. of Health

Curt Wittreich BHI (H6-03)
 Joe Zoghbi (Please route to:) BHI (H6-01)
 M.J. Galgoul BHI (H6-01)
 Diana Sickle BHI (H6-27)
 Kay Kimmel MAC (B1-42)
 R. Scott Hajner BHI (H4-79)
 Andrea Hopkins BHI (H4-79)
 Tom Page (Please route to:) PNL (K1-31)
 Cheryl Thornhill PNL (K1-19) Steve Slate PNL (K1-19)
 Mark Hanson PNL (K1-51) Bill Stillwell PNL (K1-30)
 Roy Gephart PNL (K1-22) Ben Johnson PNL (K1-78)

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