

# START

006154

December 1, 1989

## Meeting Minutes Transmittal/Approval

Unit Managers Meeting: 1100-EM-1 Operable Unit

345 Hills Street, Room 27A, Richland, WA

November 17, 1989



From/ Appvl. Robert K. Stewart Date: 12/12/89  
 Robert K. Stewart, 1100-EM-1 Unit Manager, DOE-RL

Appvl.: Dave Egan Date: 13 Dec 89  
 Dave Egan, 1100-EM-1 Unit Manager, EPA

Appvl. Larry Goldstein Date 12-13-89  
 Larry Goldstein, 1100-EM-1 Unit Manager, WA Department of Ecology

To: Chuck Cline, WDOE  
 Ward Staubitz, USGS  
 Mike Thompson, DOE-RL (A6-95)  
 Jerry Chiaramonte, SWEC/IT (A4-35)  
 Jack Waite, WHC (H4-52)  
 Tom Wintczak, WHC (H4-17)  
 Mel Adams, WHC (H4-55)  
 Rick McCain, WHC (H4-55)  
 Roy Gephart, PNL (K6-97)  
 Brian Sprouse, WHC (H4-51)  
 Mark Musolf, WHC (B3-26)  
 Bill Price, WHC (S0-03)  
 Steven Clark, WHC (L4-92)  
 Don Kane, Batelle EMO (K1-74)  
 Donna Lacombe, PRC  
 Doug Sherwood, EPA  
 Jim Patterson, WHC  
 ADMINISTRATIVE RECORD (1100-EM-1) [Care of Susan Wray, WHC (~~RECEIVED~~)]

cc. Ronald D. Izatt (A6-95)  
 Director, DOE-RL, ERD  
 Elizabeth A. Bracken (A6-95)  
 Chief, Policy and  
 Permits Br., DOE-RL, ERD  
 Roger D. Freeberg (A6-95)  
 Chief, Rstr. Br., DOE-RL/ERD  
 H. E. (Hank) McGuire (H4-51)  
 Mgr., Reg. Compli., WHC  
 Richard D. Wojtasek (H4-17)  
 Prgm. Mgr. WHC

H4-22

Meeting Minutes are attached. Minutes are comprised of the following:  
 Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;  
 Attachment #2 - Stated Schedule; Attachment # 3 - Agenda for the Meeting;  
 Attachment #4 - Attendance List; Attachment #5 - Operable Unit  
 Commitments/Agreements Status List; Attachment #6 - Work Progress; Attachment  
 #7 - List of procedures and manuals being prepared; Attachment #8 - Strategy  
 for documenting data discrepancies; and Attachment #9 - Measures to resolve  
 discrepancies on 1100-2 sample splits.

**Attachment #1**

**Meeting Summary and Summary of Commitments and Agreements**

**1100-EM-1 Operable Unit Managers Meeting**

**November 17, 1989, 345 Hills Street, Room 27A**

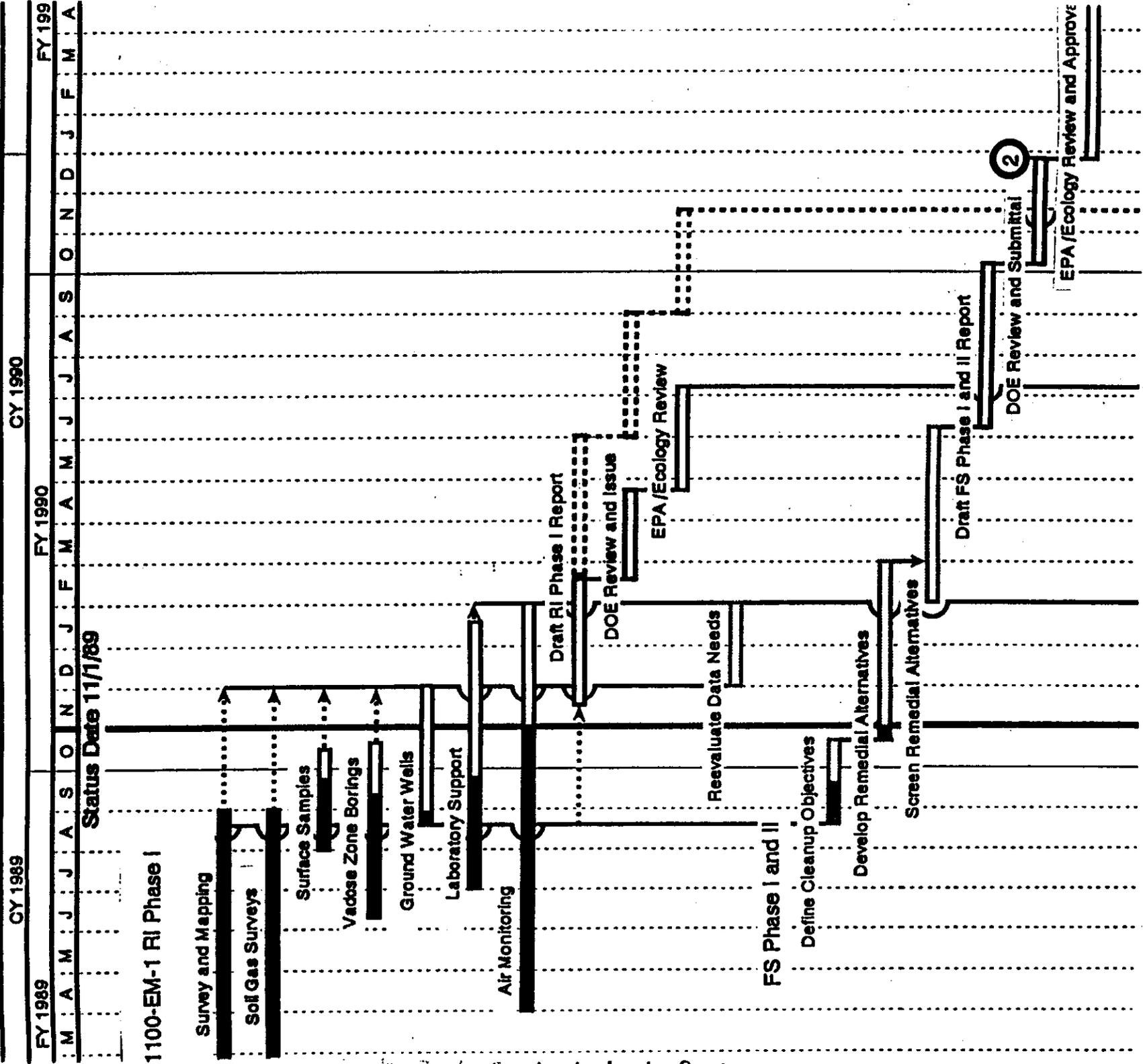
1. Status of Action Items from the October 19, 1989 UM meeting was given by Steve Clark. Status is shown in Attachment #5.
2. Schedule status - Steve Clark discussed schedule status. The updated schedule showing percent complete is shown in Attachment #2. [Note: This schedule was prepared on a Macintosh computer and is not in Time Line format as previously suggested by EPA.] Ecology stated that it was not necessary to prepare schedules in Time Line format as long as the schedule presentation was consistent and showed percent complete.

**Action # 11EM1.28: WHC will work with EPA (Dave Einan) and Ecology (Larry Goldstein) to develop a consistent schedule presentation format. Schedule standardization for presentation will be discussed at the December UM meeting. Action: Merl Lauterbach**

3. Work Progress - Steve Clark reported work progress. A summary of work progress is given in Attachment #6. Preliminary chemical analysis data in the form of plots was presented on lead and acetone in boring BAP-1; lead in borings DP-4,5; Arochlor-1260 in DP-4; and bis-2-ethylhexylphthalate at the 1100-3 site.

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# 1100-EM-1 REMEDIAL INVESTIGATION / FEASIBILITY STUDY WORK SCHEDULE



Attachment #3

1100-EM-1 Unit Manager's Meeting Agenda  
November 17, 1989  
8:00 - 9:00 AM  
Room 35, 450 Hills

1. Introduction
2. Action Items Status
3. Work Progress
  - o Vadose Zone Boreholes
  - o Groundwater Monitoring Wells
  - o Surface Sampling
  - o Development of RI Phase 1 and FS Phase 1 & 2 Reports
  - o Schedule
4. Issues
  - o Air Monitoring - Continuation or Modification of Work Plan
  - o Siting and Drilling of Vadose Zone Boreholes in Horn Rapids Landfill
5. Other Topics (as required)
6. Summary of Agreements and Commitments

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Attachment #4

Attendance List  
1100-EM-1 Unit Managers Meeting  
November 17, 1989

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Name	Organization	1100-EM-1 Responsibility	Phone
D. Einan	EPA	Unit Manager	509-376-3883
R.K. Stewart	DOE-RL/ERD	Unit Manager	509-376-6192
L. Goldstein	WDOE	Unit Manager	206-438-7018
G.R. Chiaramonte	SWEC/IT	GSSC for DOE/RL	509-376-7829
D.A. Myers	SWEC/IT	GSSC for DOE/RL	509-376-0969
C.S. Cline	WDOE	Hydrogeologist	206-438-7556
S.W. Clark	WHC	RI Coordinator	509-376-1513
M. Lauterbach	WHC	EE&T Group	509-376-5257
S. Weiss	WHC	EE&T Group	509-376-1683
Y. Sadd	WHC	EE&T Group	509-376-8596
W. Staubitz	USGS	EPA Consultant	206-593-6510
D. Lacombe	PRC	EPA Consultant	505-662-3822
M. Olascoaga	WHC	EE&T Group	509-376-2493
H. Delaney	Golder		206-883-0777
B. Wright	Golder		206-883-0777

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Attachment #5

Commitments/Agreements Status List

1100-EM-1 Operable Unit

November 17, 1989

Item No.	Action	Status
11EM1.20	WHC (T. Wintczak) is to provide a list of procedures/manuals being prepared or cleared subsequent to those referenced in the 1100-EM-1 Work Plan	Closed Copies were given as handouts at the Nov. 17 UM meeting See Attachment #7.
11EM1.21	The issue of developing a work plan change process is to be discussed at the October Project Managers Meeting. WHC (Tom Wintczak) is to provide examples of the different levels of changes for review by the Project Managers.	Closed The information was submitted to the Project Managers.
11EM1.23	1. WHC is to present at the special topics data management meeting, October 25-26, a strategy for documenting/reporting data discrepancies and procedures for resolving discrepancies. Action: Steve Clark	Open Written strategy prepared and handed out at the 11/17 UMM. See Attachment #8. EPA/Ecology will review and provide comments by the December meeting.
	2. WHC is to determine appropriate mechanism for documentation of this strategy and report at the December UM meeting. Action: Tom Wintczak	Open
11EM1.24	WHC (Jim Patterson) will report to DOE (Bob Stewart) by October 20 as to what measures are being taken by the Office of Sample Management to resolve the conflicting analytical data on the 1100-2 sample splits.	Closed Information presented as a handout at the 11/17 UMM. See Attachment #9.

- 11EM1.25 At the next UM meeting, WHC will present preliminary site characterization data in handout or viewgraph form. Action: Steve Clark Closed  
Data presented at the 11/17 UMM.
- 11EM1.26 WHC (Rick McCain) is to modify the schedule to show baseline and status (percent complete to date). Closed  
See Action Item 11EM1.28
- 11EM1.27 A change control request is to be submitted for updating the Action Plan consistent with the baseline schedule shown in the approved Work Plan. Action: Bob Stewart/Tom Wintczak [Note: A submittal date was not discussed.] Closed  
Request was submitted.

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Attachment #6

Work Progress

1100-EM-1 Operable Unit

November 17, 1989

o Vadose Zone Boreholes

- Data validation complete for analyses from first ten boreholes.
- Summary of potentially significant findings.
- Shallow borehole drilled at Antifreeze Tank Site.
- Drilling at Horn Rapids Landfill is to begin after preliminary reconnaissance data is evaluated to site holes. Drilling is expected to begin November 27, 1989.

o Groundwater Monitoring Wells

- One groundwater monitoring well completed in an area adjacent to the Horn Rapids Landfill.
- One being drilled in area adjacent to Horn Rapids Landfill.
- One being drilled in area adjacent to 1100-2 Disposal Pit.
- One being drilled in area adjacent to 1100-3 Disposal Pit.

o Surface Sampling

- Data validation complete for analyses of samples from "Discolored Soils Site", 1100-2 and 1100-3 Disposal Pits.
- Sampling 50% complete for reconnaissance at the Horn Rapids Landfill.

o Development of RI Phase 1 and FS Phase 1 & 2 Reports

- Kickoff meeting and site visit held with subcontractors.
- Validated and cleared data transmitted to subcontractors.
- Integrated schedule prepared for the two reports.

o Schedule

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## Attachment #7

The following Westinghouse Hanford Company documents have been identified for clearance processing to support the environmental investigations and site characterization activities.

1. WHC-CM-1-3, Management Requirements and Procedures (MRPs)  
Specific MRPs:
  - 1.1, U.S. Department of Energy Directives
  - 3.3, Administrative Records Management System
  - 4.6, Davis-Bacon Act Compliance
  - 5.1, Corrective Action Management System
  - 5.37, ALARA Program
  - 5.38, Radiation Protection
  - 5.43, Impact Levels
  - 5.44, Waste Minimization Program
  - 5.46, Safety Classification of Systems, Components, and Structures
  - 6.10, Cutting, Welding, and Burning.
2. WHC-CM-2-1, Procurement Manual \*
3. WHC-CM-2-2, Material Distribution Manual \*
4. WHC-CM-4-3, Industrial Safety Manual, Volumes 1 through 3
5. WHC-CM-4-10, Radiation Protection
6. WHC-CM-4-11, ALARA Program Manual
7. WHC-CM-4-12, Operational Health Physics Practices Manual
8. WHC-CM-4-13, Operational Health Physics Procedures Manual
9. WHC-CM-6-1, Standard Engineering Practices \*
10. WHC-CM-6-2, Projects Department Management Manual
11. WHC-CM-6-12, Projects Department Procedures
12. WHC-CM-7-4, Operational Environmental Monitoring
13. WHC-CM-8-7, Operations Support Services, Section 503.1, Excavation Permits
14. WHC-SP-0446, Physical and Electrical Standards Laboratory General Operating Procedures
15. WHC-S-014, Generic Well Specification

\*Specific sections may be cleared as needed in lieu of the entire manual.

Environmental Investigations Instructions currently in preparation or internal review and approval cycle. These EIIs will be added to the next issue of the Table of Contents of the EII manual as "in preparation".

1. EII 1.8, Contract Documents
2. EII 1.9, Work Plan Review/Approval and Deviation
3. EII 1.10, Handling of Suspected Waste Sites
4. EII 1.11, Control and Transmittal of Laboratory Analytical Data
5. EII 2.3, Radiation Surveys
6. EII 5.12, Air Quality Sampling
7. EII 5.13, Drum Sampling
8. EII 12.1, Surveying

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## Attachment #8

### DOCUMENTATION OF DATA DISCREPANCIES

Discrepancies are common between analyses reported by different laboratories on portions of the same sample. Obviously, the likelihood of producing two identical samples by subdividing one sample of granular material is questionable. As the amount of the material being analyzed for (the analyte) decreases the precision of analysis decreases and, therefore, the agreement between analyses of replicates decreases.

When "significant" disagreement between two analytical laboratories occurs (e.g., failure of one lab to detect an analyte reported by the other lab) the discrepancy must be properly documented and resolved. What constitutes a significant disagreement depends upon the nature of the analytes, the detection limits of the EPA analytical method, and the acceptance limits of replicate assays at the concentration detected.

Significant discrepancies between the analyses of replicate samples from the same or different laboratories must be resolved on a case-by-case basis by assembling and evaluating all of the facts in each case. Where agreement between sets of analyses is so lacking that they appear to have come from unrelated samples it may be appropriate to record the analyses as "Unusable" and repeat the sampling effort. If this ever occurs the whole sampling and analysis process must be scrutinized and controls introduced to detect and correct possible deficiencies. However, in analysis of environmental samples the most common discrepancies are:

- o Failure of one laboratory to detect an analyte at concentrations near the detection limits of the analytical method.
- o Disagreement of several orders of magnitude between analyses performed on duplicate samples with low concentrations.
- o Disagreement of assays of duplicate samples greater than the acceptance limits of replicate assays at the concentration detected.

DON'T SAY IT -- WRITE IT!

TO: Jim Patterson H4-17

DATE: November 1, 1989

FROM: Steven Clark L4-92



SUBJECT: Resolution of Conflicting Analytical Data from 1100-2 Borehole  
Sample Splits

Conflicting data regarding the presence of PCBs (Aroclor 1260) in sample splits from vadose zone boreholes at the 1100-2 site has been resolved by having the two laboratories (Weyerhaeuser and Pacific Northwest Environmental Laboratory) exchange samples. The two laboratories now agree that trace quantities of Aroclor 1260 (30 to 170 parts per billion) do exist in approximately the upper ten feet of some of the soils at the 1100-2 site. However, the levels detected are at or below the quantitation limits for Aroclor 1260 in soils (160 to 320 parts per billion, depending upon whether or not the spectra of insecticides interfere with the analyses).

The original failure to detect Aroclor 1260 by Pacific Northwest Environmental Laboratory (ECOVA) was due to the fact that their gas chromatograph (GC) has a packed column for separation of the chemical constituents of a sample. Weyerhaeuser's GC has a capillary column which provides better separation of chemical constituents resulting in clearer resolution of the spectra obtained for analysis.

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