

# START

0021011

April 21, 1992

Meeting Minutes Transmittal/Approval  
 Status of 200 AAMS Activities  
 450 Hills Street, Richland, Washington  
 March 25, 1992

FROM/APPROVAL: Allan C Harris Date 4-23-92  
 Allan Harris, 200 Aggregate Area Unit Manager, RL (A5-19)

APPROVAL: Boyg Sherwood Date 4/23/92  
 Boyg Sherwood, 200 Aggregate Area Unit Manager, EPA (B5-01)

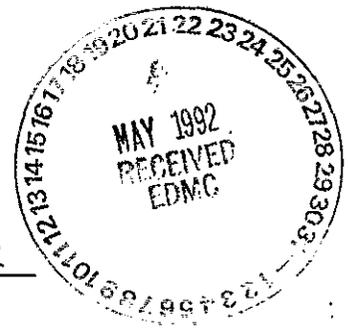
APPROVAL: Charles Goldstein Date 4/23/92  
 Larry Goldstein; 200 Aggregate Area Unit Manager, WA Dept of Ecology

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

- Attachment #1 - Meeting Summary
- Attachment #2 - Agenda
- Attachment #3 - Attendance
- Attachment #4 - Action Item Status List
- Attachment #5 - AAMS Production Schedule
- Attachment #6 - Geophysical Logging and Groundwater Sampling
- Attachment #7 - Groundwater Sampling Field Activity
- Attachment #8 - 200-UP-2 Work Plan Status

Prepared by: Bill Fryer Date: 4/23/92  
 Bill Fryer, GSSC

Concurrence by: Curt Wittreich Date: 4/23/92  
 Curt Wittreich, WHC RI Coordinator



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Attachment #1

Meeting Summary

Status of 200 AAMS Activities  
March 25, 1992

1. W. M. Fryer (SWEC) conducted the correction, approval and signature of the February, 1992 200 AAMS UMM minutes.
2. A. C. Harris (DOE-RL) reviewed the Action Items, see Attachment 4.
3. A. C. Harris introduced DOE Operations personnel, John Kovacs (Z Plant) and Rudy Ollero (U Plant), who will be reviewing the AAMSs.
4. C. D. Wittreich (WHC) gave a status review of the 10 AAMS reports to be written, see Attachment 5. A. C. Harris indicated that the 200 East AAMSs will be handled for the DOE by P. M. Pak. Mr. Wittreich then introduced the WHC presentations, see Attachment 2.
5. S. J. Trent (WHC) presented an update on geophysical logging and groundwater sampling, see Attachment 6. Mr. Trent mentioned that WHC has a purchase requisition issued for logging services to be procured through a vendor, and a second logging unit may be on-line by June, 1992. WHC has also brought in two new people to work on log analysis, and has developed software to automate the process. A. C. Harris asked about the status of the Geophysics team's response to the Action Item from the 100 Aggregate Area meeting concerning comparison of geophysical logging with sample analyses and 222-S Lab counting data. S. J. Trent was asked to check on this, and bring the presentation to the 200 AAMS meeting.

Groundwater sampling for the 200 AAMS has been halted since Jan. 29, 1992, see Attachment 7. Questions were fielded about the 200-BP-1 audit results and the impacts on the program. A. J. Knepp (WHC) discussed the recovery schedule. A. C. Harris requested a further update on the situation at the April UMM.

6. M. J. Galgoul (WHC) discussed the 200-UP-2 OU Work Plan status, see Attachment 8. A draft of the work plan will be delivered to WHC in mid-April and he will go through the contents at the next UMM. Discussion proceeded to agreements on redefinition of the 200-UP-2 OU and the level at which the agreements must be signed-off. J. K. Erickson (DOE-RL) indicated that a change form signed by the project managers was appropriate. A long discussion ensued on the disposition of the WMUs to be moved out of UP-2. The DOE-RL recommendation is to drop groundwater from 200-UP-2 and put it into a new groundwater unit that will be created based on consideration of the 200 West Groundwater AAMS. The other recommendations will not be pursued at this time, but may be picked up in the future. A. C. Harris expressed concern about including the 216-U-17 crib and the 241-WR vault since they are still active; he will consult with operations about this.

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**Attachment #2**

**Agenda**

**Status of 200 AAMS Activities  
March 25, 1992**

**200 AAMS Activities - Curt Wittreich**

- **Status of AAMSRs**
  
- **Status of Field Programs**
  - **Groundwater Well Sampling**
  - **Geophysical Logging**
  
- **Status of 200-UP-2 Work Plan**

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**200 AGGREGATE AREA MANAGEMENT STUDY PROGRAM**

**Curtis D. Wittreich**  
Technical Coordinator

**Steven J. Trent**  
Field Activities Coordinator

**Michael J. Galgoul**  
200-UP-2 OU Work Plan Coordinator

March 25, 1992

Attachment #3

200 Aggregate Area  
Official Attendance Record  
March 25, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
WILLIAM FRYOR	<i>William Fryor</i>	SWPC	GSSC	6-9830
Allan C. Harro	<i>Allan Harro</i>	DOE-RL	Unit Manager	509 376-4339
Rich Hibbard	<i>Rich Hibbard</i>	Ecology	Unit Support	(206) 497-9367
Jon Spadler	<i>Jon Spadler</i>	B&C	Ecology Support	(503) 244-7005
STEVE TRENT	<i>Steve Trent</i>	WHC	Co-Coord.	509 376-7226
Dennis Faulk	<i>Dennis Faulk</i>	EPA	Unit Manager	509 376-8631
<del>OT WITREICHT</del>	<del><i>OT Witreicht</i></del>	<del>WHC</del>	<del>Unit Support</del>	<del>(206) 593-6510</del>
LARRY GADBOIS	<i>Larry Gadbois</i>	EPA	Unit Manager	376-9884
Billie Maus	<i>Billie Mauss</i>	Ecology	CERCLA	509-546-2991
Donna Lacombe	<i>Donna Lacombe</i>	PRC	EPA Support	206 624-2682
Chuck Cline	<i>Charles Cline</i>	Ecology	CERCLA	206 438-755
Richard Carlson	<i>Ra Carlson</i>	WHC	200/300 RI Mgr.	(509) 376-902
OT WITREICHT	<del><i>OT Witreicht</i></del>	WHC	200 AAMS Coord.	509-376-1962
A. J. Knapp	<i>A.J. Knapp</i>	WHC	200 AAMS	376-3398
JULIE K. ERICKSON	<i>Julie Erickson</i>	DOE-RL	Br. Unit - ELI	376-3603
Doug Sherwood	<i>Doug Sherwood</i>	EPA	Unit Manager	509 376-9529
PAMELA INNIS	<i>Pamela Innis</i>	EPA	UNIT MANAGER	509/376-4919
Brian Drost	<i>Brian Drost</i>	USGS	EPA Support	(206) 593-6510
Suzanne Clarke	<i>Suzanne Clarke</i>	SWPC	GSSC	(509) 372-0630
MICHAEL J. GALGOUL	<i>Michael Galgoul</i>	WHC	200-UP-2 TECHNICAL COOR.	509 376-2088
Mark A. Buckmaster	<i>Mark A. Buckmaster</i>	WHC	EEG support	509-376-1772



Attachment #4

Action Item Status List

Status of 200 Aggregate Area Activities  
March 25, 1992

Item No.	Action/Source of Action	Status
2AAMS.1	Identify and implement the actions that are required to install the calibration pits for the borehole logging equipment. Action: Allan Harris (9/19/91)	Open
2AAMS.2	A map of the 200 West Area is to be provided to the regulators. All of the wells that have been located should be shown. Action: Steve Trent (WHC) (11/21/91)	Open <i>CLOSED</i>
2AAMS.3	A discussion is to be held on the integration of the 100 Area and the 200 Aggregate Area logging programs at the meeting on 1/8/92. Action: Steve Trent (WHC) (12/17/91)	Open <i>CLOSED</i>
2AAMS.4	WHC will arrange a U Plant AAMS comment disposition meeting with the regulators for the week after the comments due date, March 16th. Action to C. D. Wittreich (2/26/92).	<i>Closed</i>
2AAMS.5	DOE will initiate the paperwork for changing the content and/or boundaries of the 200-UP-2 OU. Action to Allan Harris (2/26/92).	Open

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## Status 200 Aggregate Area Management Study Program

03/25/92

Area	Aggregate Area	AAMS Type	AAMS Report	Regulator Comments Due	M-27-00 Milestones
200 West	U Plant	Source	Regulator Review Comments Received	3/16/92	1/92
	Z Plant	Source	Draft A Submitted for Regulator Review	4/14/92	2/92
	S Plant	Source	Draft A Completed		3/92
	T Plant	Source	Drafted-On Schedule		4/92
	200 West	Ground Water	On Schedule		9/92
200 East	PUREX	Source	Drafted-On Schedule		5/92
	B Plant	Source	On Schedule		6/92
	Semi-Works	Source	On Schedule		7/92
	200 East	Ground Water			9/92
200 North	200 North	Source			8/92

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**200 AAMS  
GEOPHYSICAL LOGGING AND  
GROUNDWATER SAMPLING  
FIELD ACTIVITIES UPDATE**

3/26/92  
PAGE 1

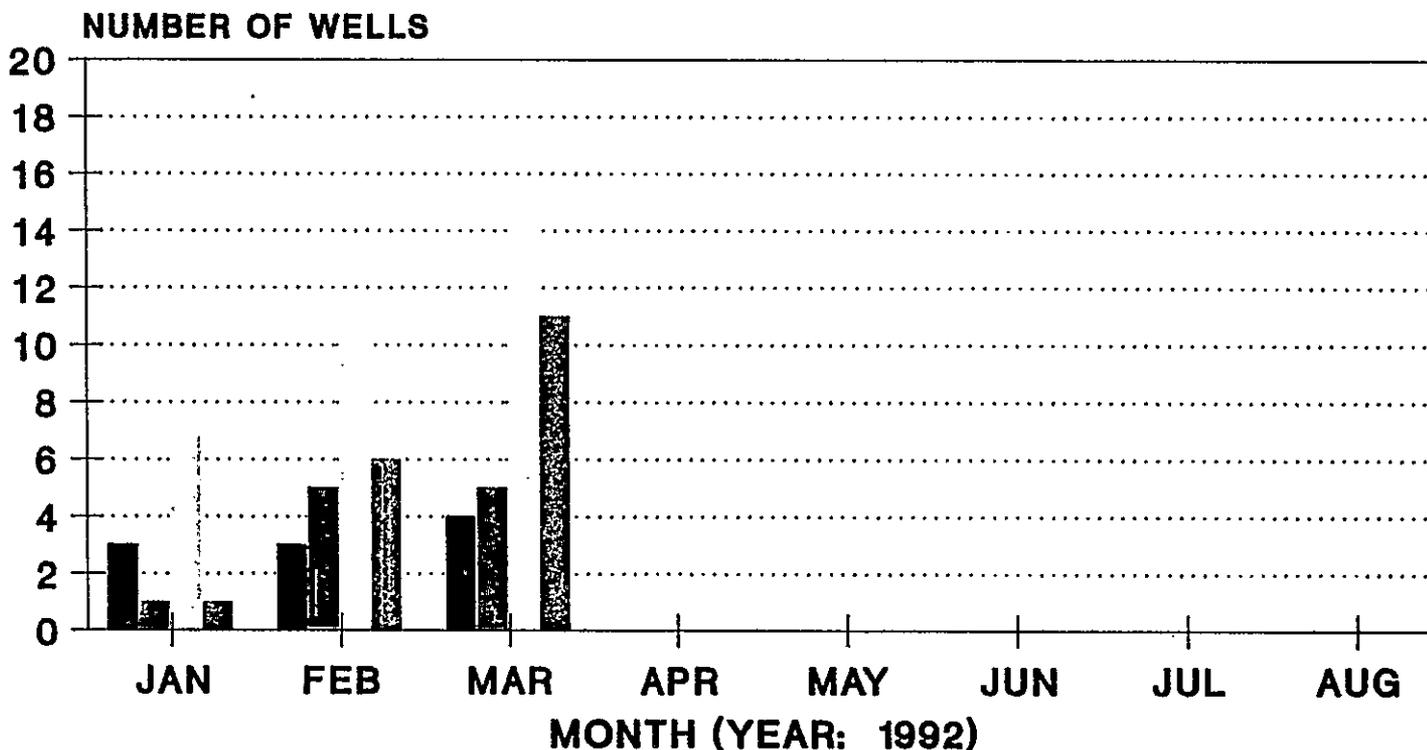
# GEOPHYSICS

## ● SPECTRAL GAMMA-RAY LOGGING COMPLETED TO DATE:

	299-W22-75	216-S-21 CRIB	U PLANT
	299-W23-4	216-U-12 CRIB	U PLANT
	299-W19-9	216-U-2 CRIB	U PLANT
➔	299-W18-10	216-Z-18 CRIB	Z PLANT
➔	299-W15-63	216-Z-7 CRIB	Z PLANT
➔	299-W15-8	216-Z-9 CRIB	Z PLANT
	299-W22-21	216-S-13 CRIB	S PLANT
	299-W22-32	216-S-7 CRIB	S PLANT
	299-W22-74	216-S-20 CRIB	S PLANT
	299-W26-1	216-S-5 CRIB	S PLANT
	299-W26-51	216-S-6 CRIB	S PLANT
➔	299-W11-18	216-T-35 CRIB	T PLANT
➔	299-W11-70	216-T-26 CRIB	T PLANT
	299-W14-4	216-T-28 CRIB	T PLANT

➔ WELLS LOGGED SINCE LAST U.M.M.

# 200 AGGREGATE AREA MANAGEMENT STUDY SPECTRAL GAMMA-RAY LOGGING STATUS



**■ LOGGED DURING MONTH**

**■ SCHED. TO LOG**

**⋯ TTL. LOGGED TO DATE**

**▨ TTL. SCHED. TO LOG**

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## **GEOPHYSICS (CONTINUED)**

- **ANALYSIS OF SPECTRAL GAMMA-RAY LOGGING DATA INITIATED**

- SCHEDULED TO PRESENT PRELIMINARY RESULTS AT THE APRIL UNIT MANAGERS MEETING**

## GROUNDWATER SAMPLING

### ● PHASE II SAMPLING START DATE IMPACTED BY WHC RESPONSE TO AUDIT CONCERNS

- ALL WHC GROUNDWATER SAMPLING HALTED AS A RESULT OF 200-BP-1 AUDIT CONCERNS
  - AUDIT IDENTIFIED NEED FOR ADDITIONAL PROCEDURALIZATION AND MANAGEMENT CONTROL MODIFICATIONS
  
- SAMPLING WILL RESUME FOLLOWING IMPLEMENTATION OF RESPONSE ACTIONS TO AUDIT CONCERNS
  - GENERATING NEW PROCEDURES AND MODIFICATIONS TO EXISTING PROCEDURES; INSTITUTING ADDITIONAL MANAGEMENT CONTROLS
  - DELINEATE RECOVERY SCHEDULE FOR THE 200 AAMS GROUNDWATER SAMPLING PROGRAM

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# **200-AREA AGGREGATE AREA MANAGEMENT STUDY**

## **GROUNDWATER SAMPLING FIELD ACTIVITY**

# SUMMARY OF FIELD ACTIVITIES

## WHC SAMPLING DELAYS

- JAN. 29: SINGLE-SHELL TANK GAS LEAK - STOP WORK TO ASSESS EXTENT OF AREA AFFECTED
- FEB. 7: DOE AUDIT 92-01 SHOW CAUSE LTR ISSUED - WHC IMPOSES STOP WORK WHILE RESPONSES BEING FORMULATED

RESULT: 7 WEEK DELAY IN SAMPLING

PROJECTS AFFECTED: 200-BP-1, 300-FF-5, 200 AAMS

PLANNED RESTART: APRIL 6

# **FIELD ACTIVITIES RESTART PLAN**

- **RESTART ITEMS**

- **REVISE GW SAMPLING PROCEDURE - COMPLETE**
- **WRITE ADDITIONAL PROCEDURES - COMPLETE**
  - **CALIBRATION**
  - **QC SAMPLING**
  - **PREPARATION OF DI WATER**
  - **BOTTLE PREPARATION**
- **RETRAIN SAMPLING TEAMS - 3/27/92**
- **CALIBRATE M&T EQUIPMENT - 4/3/92**
- **VEHICLE AVAILABILITY - COMPLETE**

## **FIELD ACTIVITIES RECOVERY PLAN**

- **200 AAMS JAN-MAR ACTIVITIES**

- **REVIEW DATA FROM OTHER PROGRAMS**
  - **RCRA: 93 (EAST)/45 (WEST)**
  - **CERCLA: 29 (EAST)/10 (WEST)/14 (600)**
  - **OPER: 4 (EAST)/15 (WEST)/5 (600)**
  - **SITE: 17 (EAST)/44 (WEST)/23 (600)**

**TOTAL: 143 (EAST)/114 (WEST)/42 (600)**

- **200 AAMS APR-JUNE ACTIVITIES**

- **REVIEW DATA FROM OTHER PROGRAMS**
- **SAMPLE 200 AAMS WELLS AS FIT-FOR-USE**

Table 4.2: Contaminant plume distribution.

CONSTITUENT	PLUME DISTRIBUTION	AREAS OF CONTAMINATION		
		200 WEST	200 EAST	600 AREA
ARSENIC	LOCALIZED	X	X	
CHROMIUM	INTERMEDIATE	X	X	
FLUORIDE	INTERMEDIATE	X		
IRON	INDETERMINATE			
MANGANESE	INDETERMINATE			
ALUMINUM	INDETERMINATE			
CARBON TETRACHLORIDE <sup>1</sup>	INTERMEDIATE	X		
CHLOROFORM	INTERMEDIATE	X		
TRICHLOROETHYLENE	INTERMEDIATE	X		
HYDRAZINE	INDETERMINATE			
STYRENE	INDETERMINATE			
NITRATE	WIDESPREAD	X	X	X
SULFATE	INDETERMINATE			
BIS(2-ETHYLHEXYL) PHTHALATE	INDETERMINATE			
COLIFORM	INDETERMINATE			
ALPHA	INTERMEDIATE	X	X	X
BETA	INTERMEDIATE	X	X	X
CESIUM-137	LOCALIZED		X	
COBALT-60	INTERMEDIATE			X
IODINE-129	INTERMEDIATE	X	X	X
PLUTONIUM-239/240	LOCALIZED	X	X	
RADIUM	INDETERMINATE			
STRONTIUM-90	LOCALIZED		X	X
TECHNETIUM-99	INTERMEDIATE	X	X	X
TRITIUM	WIDESPREAD	X	X	X
URANIUM	LOCALIZED	X		

<sup>1</sup>The contour map presented for this constituent is from DOE/RL-91-32.

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# 1992 Weekly Groundwater Well Sampling Schedule (tentative)

	APRIL					MAY				JUNE				JULY					AUGUST				SEPTEMBER										
	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	28						
200 BP 1														12	12	12	7																
300 FF 5														12	12	12	12	12	3														
100 HR 3						12	12	12	12	12														12	12	12	12	12					
200 AAMS										12	12	6													12	12	12	12	12				
WELLS PER WEEK	24	14	12	24	24	15	12	24	12	24	24	12					24	24	24	19	12	15	12	24	24	24	24	24					
WELLS PER MONTH	24				74				63			60								91					87			72					
WELLS PER QUARTER	221																																

## **200-UP-2 WORK PLAN STATUS -**

- **Work Plan Preparation Is On Schedule**

## **RECOMMENDATIONS FROM THE U PLANT SOURCE AGGREGATE AREA MANAGEMENT STUDY REPORT**

**The 200-UP-2 Operable Unit Should Be Redefined As Follows:**

- **Investigation Of Groundwater Should Be Included The 200 West Groundwater AAMS.**
- **The Geographic Boundaries Should Be Redefined To Include The 216-U-14 Ditch System Which Includes The 207-U Retention Basin In The 200-UP-1 Operable Unit**
- **Investigation Of The 216-U-17 Crib Should be Deferred**
- **Investigation Of The 241-WR Vault Should Be Deferred**

## Distribution

Status of 200 Aggregate Area Activities  
March 25, 1992

Donna Lacombe, PRC	<del>Ronald D. Izatt (A5-15)</del>
Ward Staubitz, USGS	<del>Director, DOE-RL, ERD</del>
Suzanne Clarke, SWEC (A4-35)	Donald E. Gerton (A6-80)
Linda Powers, WHC (B2-35)	Director, DOE-RL, WMD
Tom Wintczak, WHC (B2-15)	Roger D. Freeberg (A5-19)
Mel Adams, WHC (H4-55)	Chief, Rstr. Br., DOE-RL/ERD
Wayne Johnson, WHC (H4-55)	<del>Steven H. Wisness (A5-15)</del>
Rich Carlson, WHC (H4-55)	<del>Tri-Party Agreement Proj. Mgr.</del>
Brian Sprouse, WHC (H4-22)	Richard D. Wojtasek (B2-15)
Bill Price, WHC (S0-03)	Prgm. Mgr. WHC
Ralph O. Patt,	Mary Harmon, DOE-HQ (EM-442)
OR Water Resources Dept.	
Mike Thompson, DOE (A5-15)	
Diane Clark, DOE (A5-55)	
Mark Buckmaster, WHC (H4-55)	
Don Praast, GAO (A1-80)	
Curt Wittreich, WHC (H4-55)	
L.D. Arnold, WHC (B2-35)	

ADMINISTRATIVE RECORD: 200 AAMS; Care of Susan Wray, WHC (H4-22)

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Please inform Suzanne Clarke (SWEC) of deletions or additions to the distribution list.