

0044739

Meeting Minutes Transmittal/Approval
 Tri-Party Agreement Milestone Review Meeting
 EPA Conference Room
 712 Swift Boulevard, Richland
 May 28, 1996

From/ Appvl.: Linda L. McClain Date: 6/25/96
 Linda L. McClain, RL (H0-12)
 IAMIT Representative

Appvl.: Michael Wilson Date: 6/25/96
 Michael Wilson, Ecology
 IAMIT Representative

Appvl.: Doug Sherwood Date: _____
 Doug Sherwood, EPA
 IAMIT Representative

Prepared by Frank T. Calapristi Date: 6/25/96
 Appvl.: Frank T. Calapristi
 Westinghouse Hanford Company

Attendees

Alexander, S. M.	Ecology	B5-18	Liedle, S. D.	BHI	H0-09
Arnold, L. D.	WHC	B2-35	McBride, D. J	WHC	T5-54
Blazek, M. L.	ODOE	*	Murphy, J. L.	RL	H0-12
Calapristi, F. T.	WHC	B2-35*	Miera, F. R.	RL	A5-15*
Crossley, D. B.	PNNL	P7-79	Oates, K. J.	EPA	B5-01
Donnelly, J. W.	Ecology	B5-18	Romine, L. D.	RL	R3-79
Farabee, O. A	RL	R3-79	Sanders, G. H.	RL	A5-15*
Fenggang, M	Ecology		Sherwood, D. R.	EPA	B5-01*
Freeberg, R. D.	RL	H0-12	Stevenson, M. W.	WHC	B2-35
Hajner, R. S.	BHI	H0-11	Templeton, D. W.	RL	R3-79
Hughes, M. C.	BHI	H0-09	Weaver, P. J.	PNNL	P7-35
Jarayasi, M. N.	Ecology	B5-18	Wilson, M. A.	Ecology	B5-18*
Langstaff, D. C.	RL	K8-50	EDMC	WHC	H6-08*
cc:					
C. A. Hansen	RL	S7-41	H. T. Tilden	PNL	P7-79
J. E. Mecca	RL	R3-79			

* W/Attachments

MILSTN.MAY



Meeting Minutes
TPA Milestone Review Meeting
EPA Conference Room
712 Swift Boulevard, Richland
May 28, 1996

1. M-33 Solid Waste Facilities

The presentation (Attachment 1) was made by the Washington State Department of Ecology (Ecology) and opened with a description of the waste streams and materials involved with the M-33-00 milestone. This was followed by a chronology of past negotiations. When discussing "Issues", Ecology emphasized the following:

- M-33 Negotiations are currently underway and Ecology will present their final draft package to the negotiation team at the next session.
- Project Plans are a concern; specifically the structure and procedures for change control.
- Regulatory status of the streams is a contentious issue and will be discussed by the RL and Ecology legal counsels on Thursday.
- At the conclusion of negotiations, scheduled for June 14, 1996, the results will be sent out for public comment in about three weeks.

EPA asked if RL and Ecology agree they will complete negotiations by June 14? Will there be a signed AIP? RL and Ecology said they will have a better prognosis after completion of this weeks negotiations

2. M-13, M-15, M-16 and M-70 Environmental Restoration Program

RL opened the presentation (Attachment 2A) by reviewing the TPA Milestone status, which were reported to be on or ahead of schedule; except for the N-Basin which may be a possible problem. The change request for the Columbia River Comprehensive Impact Assessment (CRCIA), Milestone M-15-80, was discussed. A question was asked "Should the focus of the study be on today's impact to the river or should it be on the future impact? EPA believed the focus should be on today's impact; however, RL disagreed and noted the stakeholders are more concerned about future impacts. The difference of opinion between the agencies was not resolved.

Other topics of discussion included:

- FF-2 Operable Unit
- Accomplishments: The 100, 200 and 300 Areas were reviewed and EPA noted that there is a potential issue concerning clean-up standards in the permit. EPA suggested RL put them into the ROD.
- The following issues were identified:
 - Stakeholder funding
 - Waste Disposal
 - Delay of the 300-FF-1: EPA expressed concern about the delay and emphasized that this is a high-priority item for them.

• **FY 1996 Cost & Schedule Performance**

The FY 1997 - FY 1999 MYWP (Attachment 2B and 2C) was the next major topic of discussion. The planning process was reviewed and EPA asked for the following action item to be completed.

Action: Identify major changes in the work scope of the FY 1996 MYWP when compared to the preparation of the FY 1997 MYWP.

Resp.: Roger Freeberg **Due:** June 4, 1996

Under "Milestones at Risk", RL said the 200 Area Remediation Strategy was being developed and will contain a proposal for new milestones. EPA asked "What are the new milestones" and "Why are they better than the current milestones?" In the subsequent discussion, RL requested regulator input on the MYWP for the mid-June meeting, which was later agreed to be June 10, 1996. EPA noted that ER is the first program to discuss the MYWP with the regulators and commended ER for this action. At the close of discussion, RL noted copies of the Mid-Year Review were provided to EPA and Ecology.

"Special Topics" was the next topic which included discussions on the: 200 Area Canyon Disposition Project and the 300 Area Groundwater ROD. This led into a discussion on the closure of RCRA TSD units and the need to redefine FF-1. EPA said the TPA states that the FF-5 covers all of FF-2 and needs to be corrected. This will be a Class 2 change for Appendix C. The discussion concluded with all parties agreeing to an interim ROD for FF-5.

3. M-80-00 Purex/UO₃ Facility Transition

The presentation (Attachment 3) was made by RL who reported TPA Milestones M-80-02 and M-80-02-T02 were completed in May. There were no issues or action items identified.

4. M-81-00 FFTF Transition

RL made the presentation (Attachment 4) and stated that Secretary O'Leary is expected to name a panel to review the possible re-start of FFTF. This activity will have no affect on the critical path schedule at this time; however, greater costs are being incurred awaiting this decision. The first activity on the critical path is the "Fuel Assembly Wash" which is scheduled in July. In summary, the program is on schedule.

5. **M-83-00 PFP Stabilization**

RL opened the presentation (Attachment 5) with the program managers assessment of contractor performance. The ratings ranged from "Unsatisfactory" (Cost), to "Marginal" (Schedule & Program Manager Discretion), "Good" (Safety) and "Excellent" (Technical Performance). The M-83-01-T01 milestone is on schedule to issue the EIS ROD by June 30, 1996. Under the "Issues" discussion, RL said they are having discussions with Ecology regarding the disposition of residues. This topic will be part of the upcoming M-83-00 TPA negotiations.

6. **M-89-00 Building 324 Closure of MW Units**

The presentation was made by PNNL (Attachments 6A and 6B), there were no new issues or action items identified.

AGENDA (Revised 5/16/96)

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
(CHAIRPERSON: L. K. MCCLAIN)

TUESDAY, MAY 28, 1996

EPA CONFERENCE ROOM
712 SWIFT BLVD., RICHLAND

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
8:30 am	M-33-00	Solid Waste Facilities	C. A. Hansen	G. W. Jackson	F. Miera/M. Jaraysi
9:00 am	M-13-00	Six (6) RI/FS Work Plans/Year	R. D. Freeberg	T. M. Wintczak	R. D. Freeberg
	M-15-00	RI/FS Process Completion	R. D. Freeberg	T. M. Wintczak	R. D. Freeberg
	M-16-00	Complete Remedial Actions	R. D. Freeberg	T. M. Wintczak	R. D. Freeberg
	M-70-00	ERDF Operation	R. D. Freeberg	T. M. Wintczak	R. D. Freeberg
10:30 am		BREAK			
10:45 am	M-80-00	Purex/UO3 Facility Transition	J. E. Mecca	D. G. Hamrick	R. X. Gonzalez
	M-81-00	FFTF Facility Transition	J. E. Mecca	E. F. Loika	R. A. Almquist
	M-83-00	Complete Stabilization of PFP	J. E. Mecca	E. C. Vogt	D. W. Templeton
	M-89-00	324 Bldg. Closure of MW Units	J. W. Wiley	P. J. Weaver	M. A. Barnard
11:30 am		LUNCH			
12:30 pm		START OF IAMIT MEETING			

ATTENDEES

TPA MILESTONE REVIEW

MAY 28, 1996

EPA CONFERENCE ROOM
712 SWIFT BLVD., RICHLAND

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>(✓) FOR ATTACHMENTS</u>
FRANK CALAPRISTI	WHC/TPAI	B2-35	
Steve Alexander	Ecology	B5-18	
AL Farabee	DOE/TPD	-	
Doug Sherwood	EPA	B5-01	✓
Greg Sanders	DOE/EAP	A5-15	✓
Felix Miera	DOE/EAP	A5-15	✓
Moses Jarraji	Ecology	B5-18	
Mary Lou Beazer	Oregon Dept. of Energy		✓
Gary Council	WHC/TPAI	B2-35	
MIKE WILSON	ECOLOGY		
MARC STEVENSON	WHC/TPAI	B2-35	
ROGER FREESTER	DOE/RPS		
John Donnelly	Ecology		
R. SCOTT HAYNES	BHI		

ATTENDEES

TPA MILESTONE REVIEW

MAY 28, 1996

EPA CONFERENCE ROOM
712 SWIFT BLVD., RICHLAND

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>(✓) FOR ATTACHMENTS</u>
Mich. J. C. Hingt	BHI		
Steve Liedle	BHI		
Kevin Orlin	EPA		
David Crossley	PNNL		
JOHN MURPHY	DOE-RL/AMF		
Larry Romine	DOE-RL/TPD		
Fenggang Ma	Ecology		
Dave Templeton	DOE-RL		
DJ McBRIDE	WHC/PFP	75-54	
DC LANGSTAFF	DOE-RL/STO	K8-50	
PJ Weaver	PNNL	P7-35	

M-33 Negotiations

Milestone Review Meeting

Moses Jaraysi, Ecology

Felix Miera, USDOE

May 28, 1996

TPA Milestone M-33:

Submit a DOE-signed change package for aquisition of new facilities, modification of existing facilities, or modification of planned facilities for storage, processing and/or disposal of solid waste and materials based upon the results of the "Site-wide systems analysis.

Wastes and Materials Involved:

- ◆ **High Level Tank Waste**
- ◆ **Transuranic and Transuranic Mixed Waste**
- ◆ **Low Level Mixed Waste**
- ◆ **Unirradiated Uranium**
- ◆ **Cesium and Strontium**
- ◆ **Sodium**
- ◆ **300 Area Special Case Waste**
- ◆ **Spent Nuclear Fuel**

Development of Negotiations:

- ◆ Negotiations started February, 96
- ◆ Initial DOE Change Package January, 96
- ◆ Ecology's proposed Package March, 96
- ◆ Second DOE Package March, 96
- ◆ Negotiations extended to June 14, 1996
- ◆ Negotiations with all involved programs to ensure integration and early communications.

Issues to be finalized:

- ◆ **A new draft package from Ecology by 5/29**
- ◆ **Project Management Plans**
- ◆ **Regulatory Status of Streams
(Waste/Material)**

Public Involvement:

- ◆ Monthly meetings with the HAB
- ◆ Monthly meetings with Indian Nations
- ◆ Updates for the TPA Milestone Review Meetings
- ◆ Public Involvement activities at conclusion of Negotiations.

Richland Environmental Restoration Project

TPA Quarterly Review



U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

May 28, 1996

Tri-Party Agreement Quarterly Review
Environmental Restoration (Milestones: M-13, M-15, M-16, M-20, M-70)

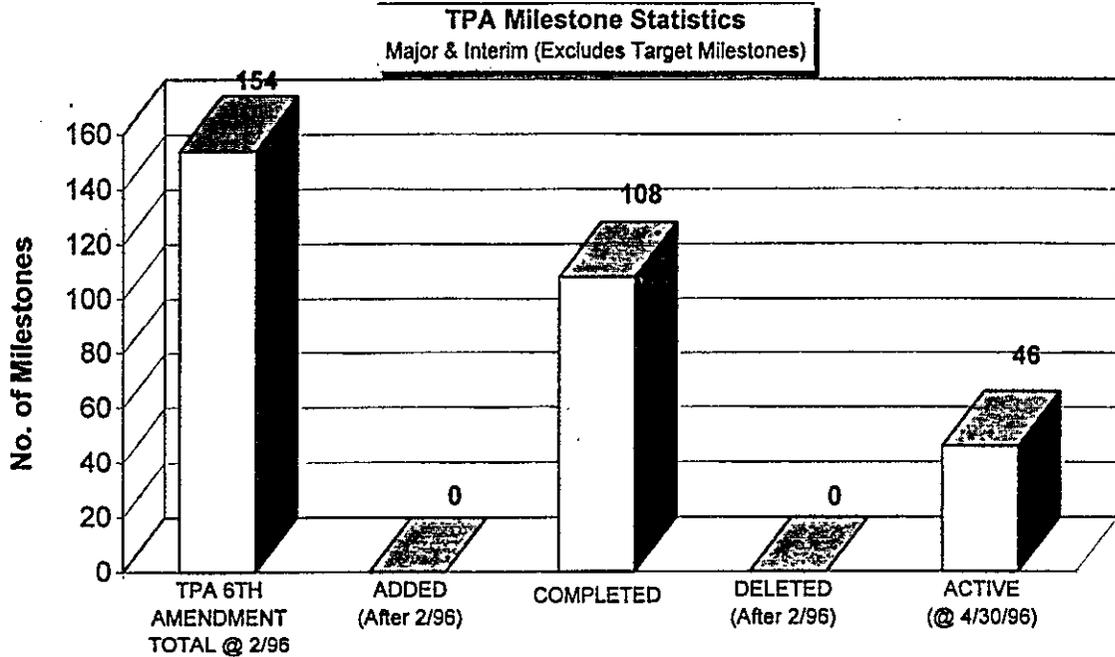
A G E N D A

May 28, 1996 (9:00 a.m. to 10:30 a.m.)

<u>Topics</u>	<u>Discussion Leader</u>	<u>Time</u>
Program Assessment & TPA Milestone Overview	Rich Holten	9:00 AM
Progress / Lookahead.....	Rich Holten	9:15 AM
<ul style="list-style-type: none"> - 2nd Qtr Accomplishments plus April 1996 - 120-Day Milestone Lookahead - Significant Issues - Cost & Schedule Performance & Variances (<i>By Exception</i>) 		
Special Topics		9:30 AM
1 Multi-Year Work Plan	Rich Holten	
2 200 Area Canyons Disposition	Rich Holten	
3 300 Area ROD	Rich Holten	10:30 AM

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ERDF Project	
N - Area Pilot Project (100-N Deactivation)	
D & D Projects (100, 200 Areas, Asbestos Abatement, RCRA Closures, RARA)	
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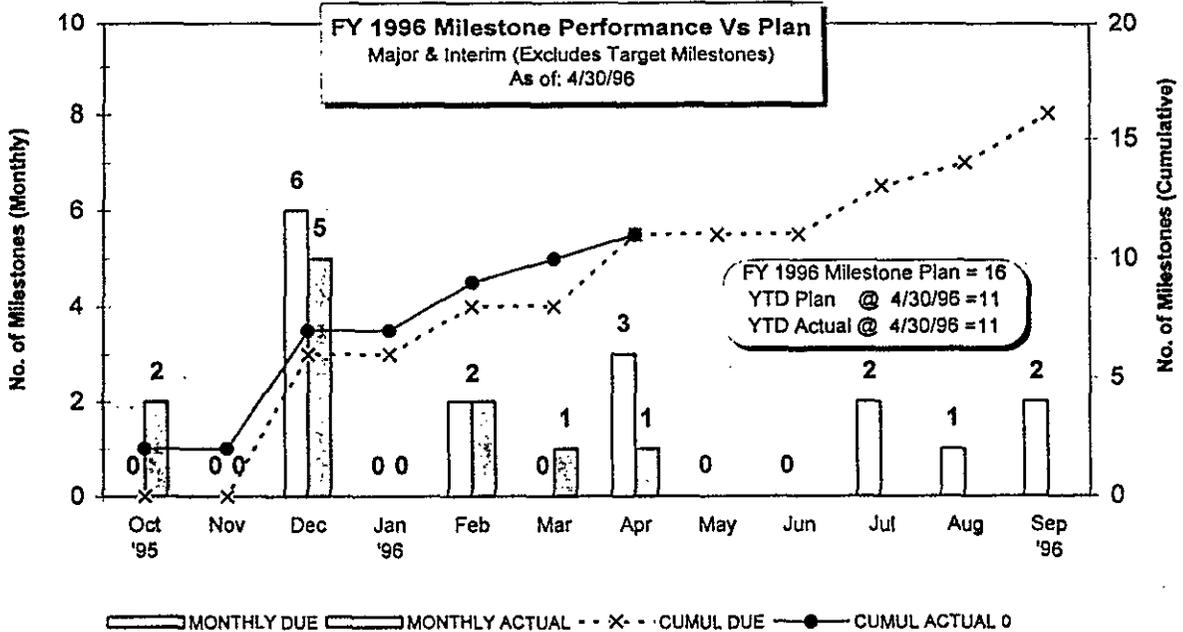
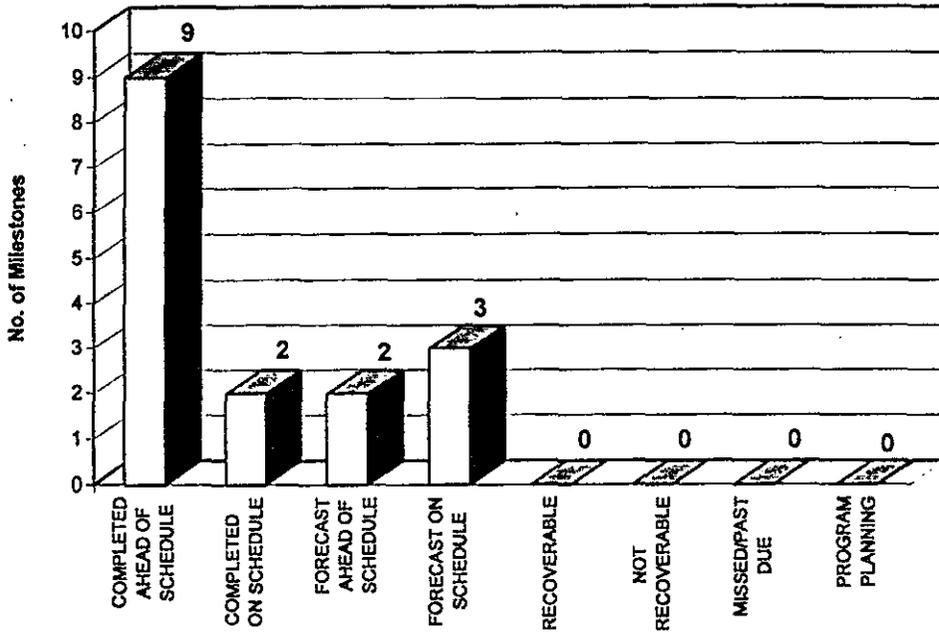


TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

	Completion Date	Total @2/96	Added After 2/96	Completed @ 4/30/96	Deleted After 2/96	Active @ 4/30/96
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	6/30/06 (M-13-00Q)	34	0	19	0	15
M-15-00 Site Investigations / Feasibility Studies	12/31/08 (M-15-00C)	84	0	70	0	14
M-16-00 Remedial Design / Remedial Action	9/30/18 (M-16-00)	20	0	10	0	10
M-20-00 Submit Closure Plans for All RCRA TSD Units	2/28/00 (M-20-00)	13	0	7	0	6
M-70-00 ERDF Operational	9/30/96 (M-70-00)	3	0	2	0	1
TOTAL		154	0	108	0	46

FY 1996 TPA Milestone Performance

FY 1996 Milestone Performance Summary
Major & Interim (Excludes Target Milestones)
As of: 4/30/96



ER Project Summary

FY 1996 TPA Milestone Summary
(Excludes Target Milestones)

Month Ending April 30, 1996

Item	FY96 Month	Milestone	Description	Due Date	Forecast Actual Date	Completed		Forecast Ahead Schedule	Forecast On Schedule	Recoverable	UnRecoverable	Missed Past Due	Program Planning
						Ahead Schedule	On Schedule						
	Oct-95	= M-15-21	Evaluate M-13-06A & submit the IRM Proposed Plan for 200-BP-5	10/31/95	NA								
1	Dec-95	M-15-33B	Submit 100-KR-2 IRM Proposed Plan	12/29/95	10/20/95A	X							
		*M-13-00I	Submit Planning Documentation Necessary to complete the RI/FS Work Plan Process for 100-FR-2 and 100-KR-2 (includes former 100-KR-3)	12/31/95	3/31/95A	*X							
2		M-16-05A	Submit Construction completion reports for the remaining 1100 Area OUs	12/31/95	12/21/95A	X							
3		M-15-81A	Provide report coordinating Regulatory Compliance for RCRA /CERCLA	12/31/95	12/21/95A	X							
4		M-15-25	Submit 200-PO-1 Phase I RCRA Field Investigation (RFI)	12/31/95	12/21/95A	X							
5		M-15-13G	Submit the 100-FR-3 FFS to Regulators	12/31/95	12/22/95A	X							
6	M-15-13H	Submit the 100-FR-3 Focus Package to Regulators	12/31/95	12/22/95A	X								
7	Feb-96	M-16-12E	Submit Letter report that evaluates the P/T Facility effectiveness	2/28/96	2/26/96A		X						
8		M-16-12B	Complete Construction/Installation of Sheet Pile Barrier Wall	TBE 2/28/96	2/26/96A		X						
9	Apr-96	M-15-15C	Submit the Draft 200-UP-2 FFS report to Regulators	4/30/96	2/16/96A	X							
10		M-15-15D	Submit the Draft 200-UP-2 IRM Proposed Plans to Regulators	4/30/96	4/22/96A	X							
11		M-15-81B	Submit the Iodine 129 Study to Regulators	4/30/96	10/12/95A	X							
12	Jul-96	M-15-12A	Submit LFI Report for New Work Completed for 100-NR-1/100-NR-2	7/31/96	6/30/96F			X					
		M-15-80	Submit a draft interim report for the Columbia River Comprehensive Impact Assessment	12/16/96	12/16/96F(a)								
13		M-15-25A	Submit 200-PO-1 Corrective Measures Study (CMS)	7/31/96	7/31/96F				X				
14	Aug-96	M-15-25B	Submit 200-PO-1 Permit Modification	8/30/96	8/30/96F				X				
15	Sep-96	M-15-23A	Submit the LFI for 300-FF-2 to Regulators	9/30/96	9/30/96F				X				
		M-15-80A	DOE-RL provides a list of comprehensive work scope tasks developed & prioritized in coordination with the CRCIA Management Team	2/28/97	2/28/97F(a)								
16		M-70-00	ERDF is Operational	9/30/96	7/15/96F			X					
FY 1996 Total TPA Milestones						9	2	2	3	0	0	0	0

(a) Change Request M-15-96-01 was approved 4/23/96 which changed the Due Dates for M-15-80 and M-15-80A to FY97 and are not included in above count.

* FY 1996 TPA Milestone was completed in FY 1995 and is not included in above count.

= M-15-21 was deleted by the approval of CR# M-15-95-08 dated 9/27/95 and is not included in count.

**This Quarter's TPA Change Requests
(January - April 1996)**

**M-15-96-01
Columbia River
Comprehensive Impact
Assessment**

M-15-96-01 approved by the 4/23/96 IAMIT meeting revised text and due dates for all the original 4 TPA milestones and added one new target milestone M-15-80B-T01. The due dates are amended as follows:

	<u>Original Due Date</u>	<u>New Due Date</u>
M-15-80	7/31/96	12/19/96
M-15-80-T01	10/31/96	4/30/97
M-15-80A	9/30/96	2/28/97
M-15-80B	12/31/96	6/30/97

M-15-80B-T01 - DOE-RL is to provide to EPA/Ecology an initial recommendation for CRCIA "next phase(s) " budgeted work to be used as input into the FY 1999 budget submission (to include recommendations for FY 1998). Recommendations are to be based on CRCIA workscope prioritization discussions with the CRCIA Team.

**M-13-95-02
300-FF-2 OU**

Change request created two M-15-23 milestones M-15-23A and M-15-23B as follows:

M-15-23A - Submit the 300-FF-2 Limited Field Investigation report for Regulator review - due date 9/30/96.

M-15-23B - Submit the 300-FF-2 Focused Feasibility Study report and Proposed Plan for Regulator review - due date 7/31/99

B/C

- Completed Remedial Design for seven sites
- Supported RL on Completion of Interim Action Record of Decision (IROD)
- Remedial Action contractor requests for proposal was issued and received with the contract being awarded
- The Remedial Design Report/Remedial Work Plan (RDR/RAWP) was revised and prepared for Regulatory review
- The Demonstration Project Report was issued
- The Sample and Analysis Plan was reviewed and revised
- 116-B-4 French drain closeout verification package was completed
- Central office facility was delivered and set in place

DR

- Completed Remedial Design for two sites
- Sampling was conducted at the process sewer outfall, and it was determined that the outfall is not a significant source of chromium contamination
- The 60% Design Package for Group 2 sites was completed

HR-1

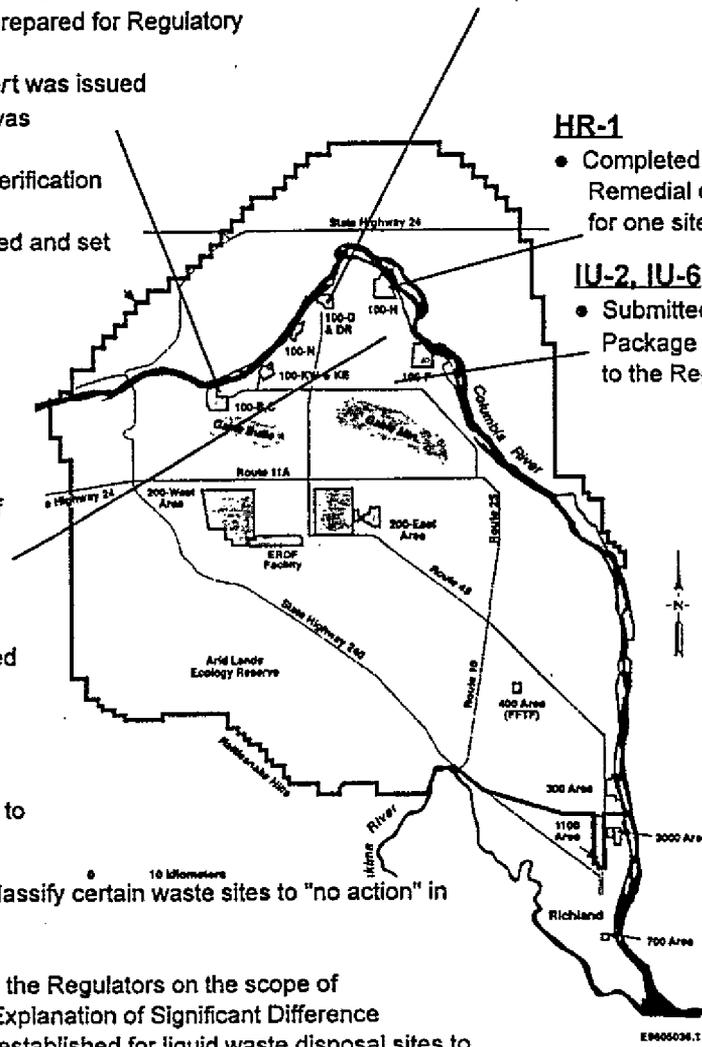
- Completed Remedial design for one site

IU-2, IU-6

- Submitted Focus Package Rev. 0 to the Regulators

100 Area Common

- Received a "no action" Record of Decision (ROD) for IU-1, IU-3 IU-4 and IU-5
- The Regulator version of the 100 Areas ROD strategy was analyzed and issues were defined for RL consideration
- A burial ground strategy recommendation was presented to the RMT and RL
- A process was developed to reclassify certain waste sites to "no action" in WIDS
- An agreement was reached with the Regulators on the scope of documentation required for an Explanation of Significant Difference (ESD), and a candidate list was established for liquid waste disposal sites to be included in the initial ESD
- A new schedule has been prepared for addressing all remaining 100 Area waste sites. It considers the anticipated ROD strategy, the burial ground strategy, use of ESD's and the new process for reclassifying waste sites in WIDS
- All source areas investigation Derived Waste (IDW) was indentified and categorized, and a plan is being developed for disposing of most of it in ERDF



200 Area

BP-1

- PNNL continues testing and monitoring the prototype barrier

UP-2

M-15-15C

- Submitted Draft A Focused Feasibility Study

M-15-15D

- Submitted Draft A IRM Proposed Plan
- The Barrier Focus Feasibility study was delivered to the Regulators for review

BP-11

- The dispute resolution was resolved by IAMIT

300 Area

FF-1

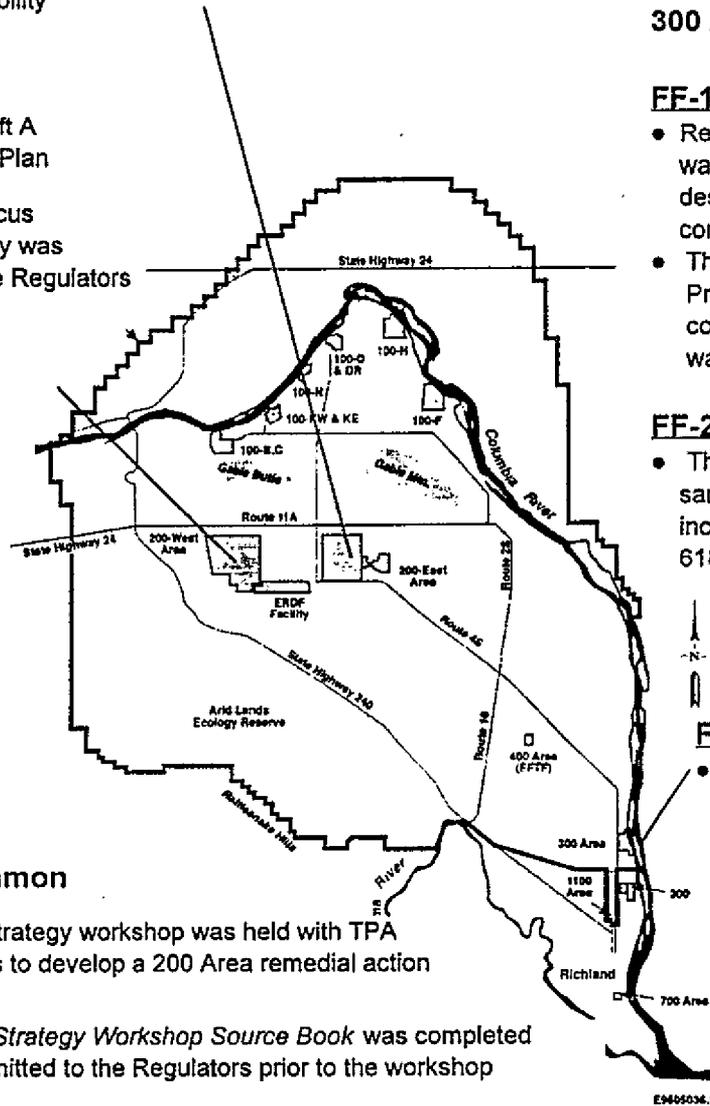
- Remedial design sub-contract was awarded and 30% design package was completed
- The public review of the Proposed Plan was completed and a draft ROD was prepared

FF-2

- The second round of samplings were completed, including the CPT at the 618-10 and 618-11 sites

FF-5

- DQO sessions were completed for post-ROD groundwater monitoring program



200 Area Common

- A 200 Area Strategy workshop was held with TPA representatives to develop a 200 Area remedial action strategy
- The 200 Area Strategy Workshop Source Book was completed and was transmitted to the Regulators prior to the workshop meetings
- Two surveillance's of the 200 Areas Remedial Actions Project were conducted: (1) office safety practices and voluntary protection programs; and (2) validation of the FY96 cost estimates for 200-BP-1

100 Area

KR-4

- Round 9 samples were submitted for analysis
- Constant Rate pump tests were completed for wells
- ROD was signed
- The DOW was completed
- A baseline change proposal was approved to combine design, procurement and construction IRM efforts for HR-3/KR-4
- Phase I & II resin testing was completed

200 West

UP-1

- Treated 9,394K of groundwater 18,194K to-date, removing 64lbs of Uranium, .05 lbs Technetium, and 9 lbs. of Carbon-Tet.
- Rev. 2 of the Engineering/Evaluation/Conceptual Plan (EE/CP) was issued
- The Quarterly Evaluation Report was issued
- Six rounds of pump/treat performance monitoring were completed

ZP-1

- Completed installation of 3 injection wells
- Treated 5,136K gallons of groundwater (24,100K to-date) removing 140 lbs of Carbon-Tetrachloride
- Phase II Construction continued with the placement of the building foundation.
- Groundwater monitoring sampling activities were completed one week ahead of schedule
- The air stripper tower was delivered 3/20/96
- Trenching activities began for Phase II extraction piping
- Phase III extraction pipeline design has been initiated

ZP-2

- Soil Vapor Extraction System (VES) removed 4.2K lbs. of Carbon Tetrachloride 153K to-date
- Completed a draft Passive Vapor Extraction Report
- Completed Design, Operations, & Maintenance of the soil vapor extraction system (VES)

HR-3

- Treated 3,946K gallons of groundwater (10,746K to-date)
- The DOW was completed
- The ROD was signed
- 1713-H Bldg was transferred off of the D&D list and will now house treatment system

FR-3

- The Round 8 Data Validation Report was transmitted to RL, five weeks ahead of schedule
- Submitted response to EPA/Nez Perce tribe comments

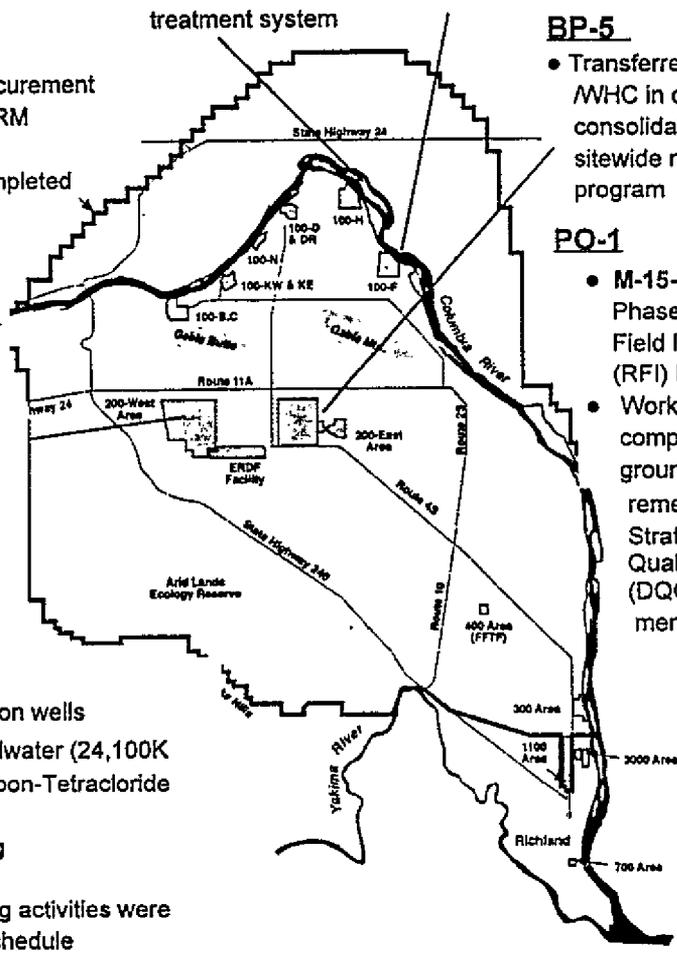
200 East

BP-5

- Transferred to PNNL /WHC in order to consolidate the sitewide monitoring program

PQ-1

- M-15-25 Submitted Phase I/RCRA Field Investigation (RFI) Report.
- Work scope was completed on groundwater remediation Strategy Data Quality Objectives (DQO) development task.



200-AREA NPL

- M-15-81B Submitted final Iodine-129 Study, Rev 0 to Regulators 1-1/2 Mos. ahead of schedule

Construction:

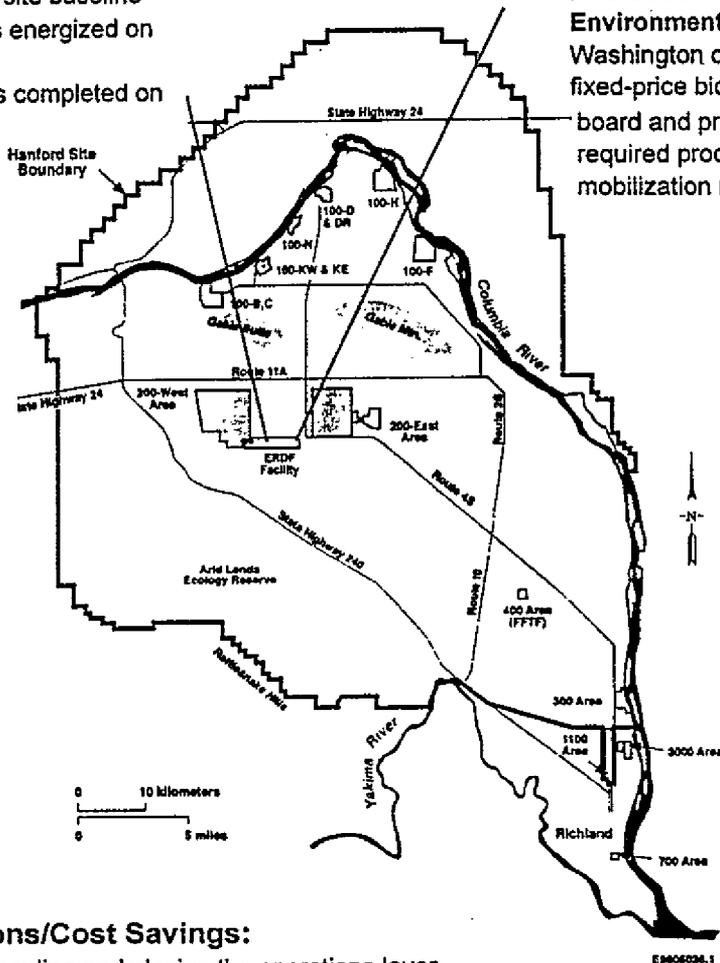
- Completed primary Geomembrane and secondary Geotextile liner on March 29, 1996, fulfilling a project performance objective of March 31, 1996.
- Completed first round of sampling of the groundwater monitoring wells. Sample analysis will be completed in June in support of ERDF site baseline
- The site transformer was energized on March 21, 1996
- The operations layer was completed on April 5, 1996
- Five of eleven systems have been walked down, punch-listed and successfully turned over to the ERC. These systems are 1.) septic tank and drainfield; 2.) decontamination/load unload slab; 3.) sanitary water; 4.) raw water; and 5.) telecommunications.

Operations:

- Awarded Waste Management contract to Rust Federal Services of Golden, Colorado
- Rust Federal Services is generating and submitting operations procedures

Transportation:

- Awarded the subcontract to RCI Environmental, Inc. of Sumner, Washington on a competitive fixed-price bid. They are on-board and proceeding with required procedure and mobilization requirements



Technology Innovations/Cost Savings:

- Developed a method for hauling and placing the operations layer that was more efficient than the method proposed in the original specifications. The resulting productivity improvements allowed completion of the operations layer ahead of the recovery schedule.
- Excess gravel from the borrow pit is being used for slope erosion protection. This eliminated the more costly requirement of hydroseed the slopes

N-SPRINGS

- 6.6 Million gallons of groundwater were processed (Jan - April)
- Pump & treat technology evaluation report was submitted to RL

M-16-12E

- Submitted letter report to Regulators that evaluates pump & treat effectiveness and evaluated the need for barrier wall (See M-16-12B)

M-16-12B

- Letter Report for M-16-12E evaluated that construction /installation of a barrier wall was not necessary
- Comments/responses have been returned from Regulators on the *In-Situ Treatment Zone Treatability Test Plan*

100-NR-1

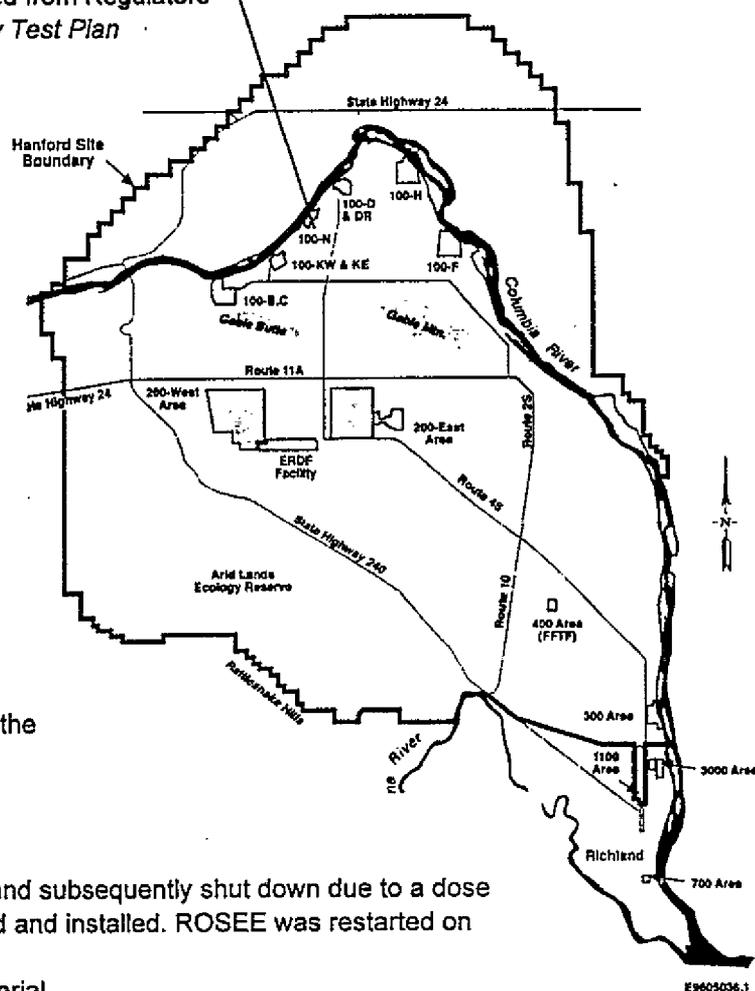
- 1301N/1325N Cribs Characterization demobilization of subcontractor for crib drilling activities was completed
- An agreement was reached w/Ecology for the approach of the QRA on the LFI/QRA

N-Deactivation

- POC milestone for Phase I Cleanout/Asset removal of 21 Bldgs
- POC milestone for document turnover/ closeout of 38 facilities was completed
- 8,518 Cu. Ft. of low level waste were shipped
- Initiated engineering design activities for the Potable Water System Tracer Study

N-Basin

- Operation of ROSEE began on 2/26/96 and subsequently shut down due to a dose calculation error, shielding was fabricated and installed. ROSEE was restarted on 3/21/96
- Removed 14,000 Cu Ft. of low dose material
- Completed removal of 140 fuel baskets
- Completed Project readiness evaluation for High Dose removals



RCRA Closures

183-H Solar Basins

- All soil sampling was completed
- A two month extension to the final closure was received by Ecology . The final closure date is now forecasted 5/28/96
- All soil confirmatory sampling with Ecology was completed
- Criteria identified in the RL Performance Objective Criteria (POC) for this period were met

Demolition

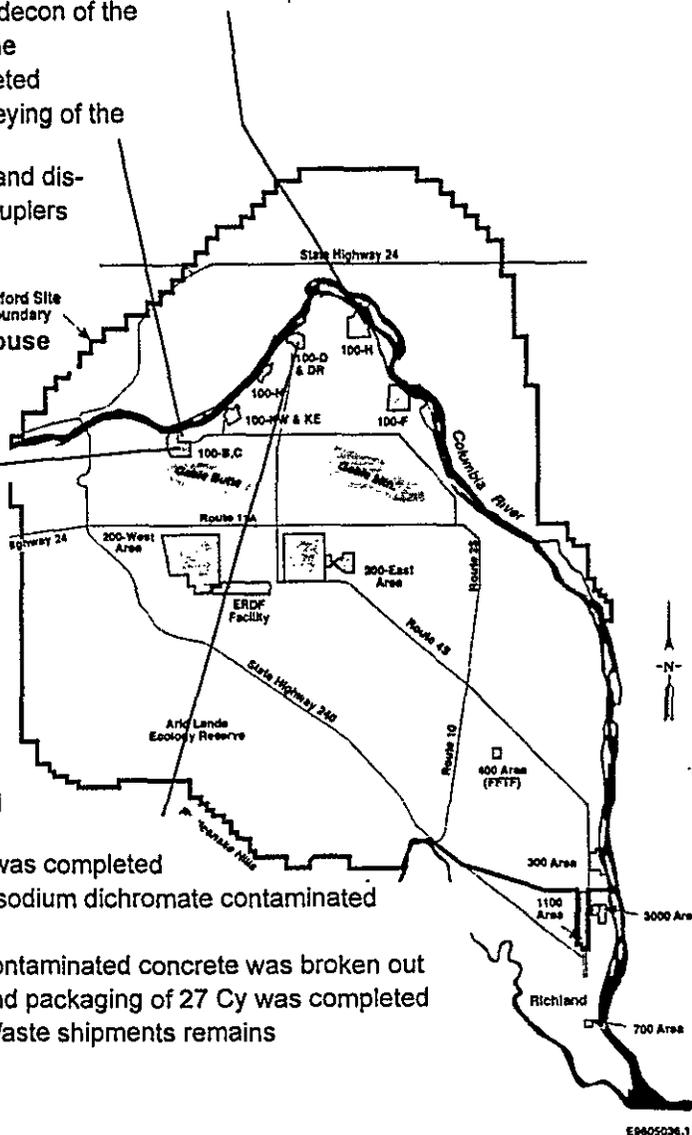
- **190-C Bldg.** Removal of the 177-N filter frames was completed
- Water intrusion from the roof drains into the basement was stopped
- Radiological surveying and decon of the ventilation equipment and the mezzanine floor was completed
- Continued radiological surveying of the rafters and main level floor
- Completed removal/decon and disposal of 60 pump station couplers

183-C Filter Building/Pumphouse

- Facility demolition (by) heavy equipment began
- Completed removal of 1,000 Lf. of dichromate pipe.
- Completed removal roof
- Removed 2 (36 - 48") of 15 motor operated valves contaminated w/PBC oils
- Nine internal transformers were removed

190-D Demolition

- Rubble crushing of approx. 1,110 Cy of process material was completed
- Decontamination of 189-D was completed
- The final 3 roll off boxes of sodium dichromate contaminated concrete was removed
- The residual radioactivity contaminated concrete was broken out of the sub-grade spaces, and packaging of 27 Cy was completed
- Project is field complete. Waste shipments remains



RARA

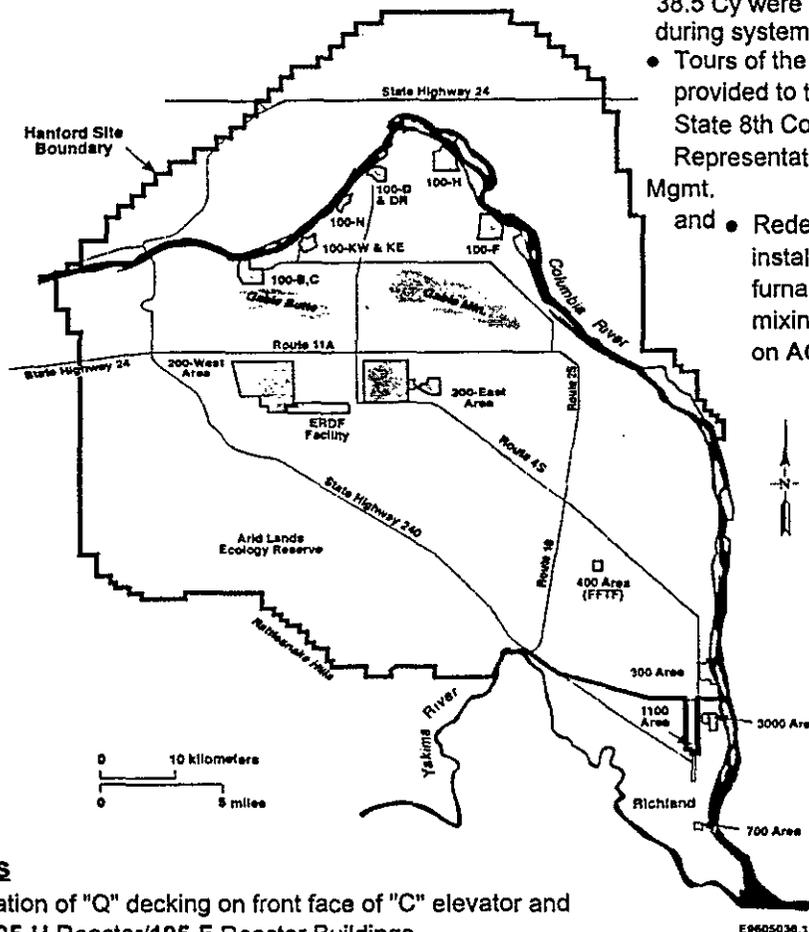
- Completed 2nd quarter radiation surveys
- Completed Interim stabilization of 218-E-12A Site
- Quarterly inspections of the outdoor RARA sites were completed
- Corrective actions at the 216-C-8 French Drain were completed
- Completed spring revegetation program
- Post engineering Activities are ongoing for 218-E-7 stabilization
- Completed corrective maintenance activities at 204-T unloading station

Asbestos Abatement

- Completed asbestos removal 109-N Trestle corner
- Received *Notices of Intent*, permit approval for 109-C and 184-N projects
- Completed Asbestos removal at 184-N
- Submitted Mid-year Report to RL

Asbestos Conversion Unit

- Received 1,165 Cy to date; 38.5 Cy were processed during system testing
- Tours of the ACU were provided to the Wash. State 8th Congressional Representative, RL Mgmt. and
- Redesigned and installed new furnace exhaust mixing chambers on ACU



Inactive Facilities

- Completed installation of "Q" decking on front face of "C" elevator and process area of 105-H Reactor/105-F Reactor Buildings
- Completed roof repair activities on the 221-U Canyon building
- The contract modification for the 105-D reactor building was released. Another layer of sheetrock will be placed on the metal decking because of water damage incurred last fall before the protective coating could be applied. Completed Phase III of REDOX criticality concern. Results were presented
- Completed POC for reduced surveillance action on the outdoor activities

Technology Applications

- The environmental restoration initiative to demonstrate nuclear facilities and worker safety requirements through CERCLA and TPA requirements has been endorsed by James Owendoff (EM-40)
- The *General Design Criteria* for Richland Environmental Restoration Project (BHI-00747) was issued to DOE for approval

Environmental Technologies

- A TPA handbook procedure establishing a waste site closeout process was developed
- The ERC waste disposal checklist was issued
- The FY 1996 Federal Archeological Activities questionnaire was developed

Automation Technology

- Bechtel Electronic Time Record system (BETR) is up and running with over 200 people logging time cards electronically
- The Internet Service Provider (ISP) contract has been awarded to a local firm. The ISP is developing a schedule for installing connections for the ERC

Program Support and Public Involvement

Site-Wide Services and Facilities

Community Relations:

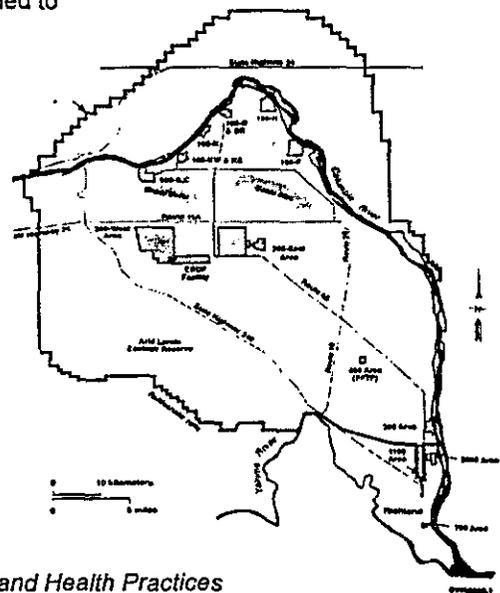
- A site tour by the Hanford Advisory Board's ER committee was planned and coordinated. Assistance was provided to the committee's concerns about the FY 1998 budget planning process

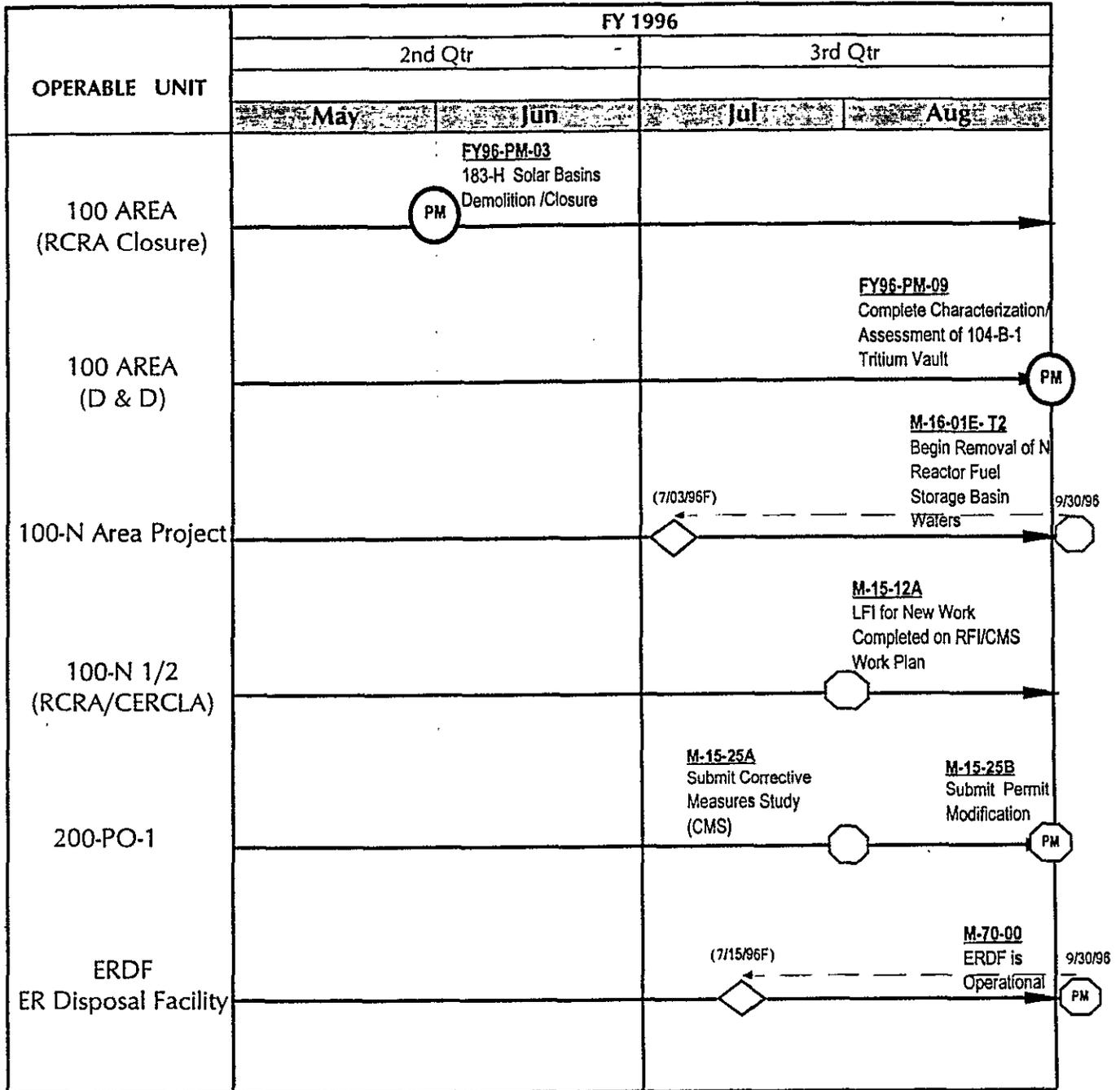
Safety and Health (S&H)

- QSH completed revision and issuance of the *Employee Safety and Health Practices* handbook
- QSH completed an internal self-assessment on the status of implementation of recommendations of the BHI President's independent assessment on disciplined operations

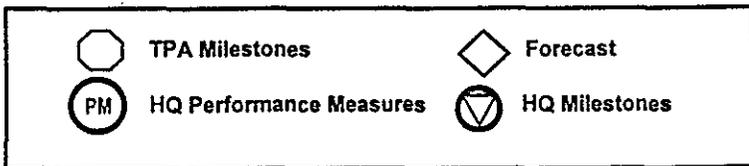
Services

- The EDMS has been successfully installed at the vendor location. Final modifications and adjustments are being made for shipment to the Hanford site





Legend:



Issue	Impact	Corrective Actions
<ul style="list-style-type: none"> ◆ Stakeholder concern for flat funding beyond FY 1998. 	<p>To meet the ER program commitment of FY 2018 will require identification of additional efficiencies and productivities</p>	<p>The ER program will continue to work with the Regulators, Tribal Nations and stakeholders to increase the productivity and efficiency so that maximum progress can be achieved. The visibility of the FY 2018 compliance case will be maintained through the <i>Long Range Plan</i>.</p>
<ul style="list-style-type: none"> ◆ The 300-FF-1 ROD is delayed.. 	<ul style="list-style-type: none"> ◆ This has delayed the Remedial Action for FY 1996. 	<p>BHI Engineering and RL are working with the Regulators and have proceeded with the engineering for remediation.</p>
<ul style="list-style-type: none"> ◆ EPA has issued a letter indicating they will only participate in discussions of their highest priority items and will not work on specific issues that are important to the ER Program 	<ul style="list-style-type: none"> ◆ Necessary for the completion of the FY 1996 workscope, i.e., <ol style="list-style-type: none"> 1) TSD waste disposal in ERDF 2) Waste site reclassification process 3) ROD Strategy Issues 4) ESD for 100 area liquid sites 	<ul style="list-style-type: none"> ◆ Continue to work on key items as much as possible without EPA participation. Encourage EPA to provide minimal input so that critical items can continue to move forward. ◆ Agree to meet as a Management team on key issues
<ul style="list-style-type: none"> ◆ Waste Disposal - Without a decision document to cover IDW and non-CERCLA waste disposal at ERDF, the waste continues to build up. 	<ul style="list-style-type: none"> ◆ This requires continued waste management, monitoring and support. 	<p>Obtain relief through a Regulatory determination for on-site disposal. Strategy will be developed by June 15, 1996. A baseline change proposal (BCP) for ERDF disposal based on ESD for ERDF.</p>
<ul style="list-style-type: none"> ◆ N-Basin Work suspensions 	<ul style="list-style-type: none"> ◆ Potential delay of water to ETF/LERF. ◆ Potential impact of EAC. 	<ul style="list-style-type: none"> ◆ Assess current hazard analysis for N-Basin activities and agree upon reassigning changes as appropriate
<ul style="list-style-type: none"> ◆ TPA Milestones "at risk" based on Multi-Year Work Plan (MYWP) <ol style="list-style-type: none"> 1) M-16-01A, Submit necessary 100-N Area D&D NEPA documents for public review, due 6/30/97. 2) M-13-11, Submit 200-PO-2 RFI/CMS closure/Postclosure Workplan, due 6/30/98. 3) M-20-33, Submit 216-A-10 Crib and 216-A-36B Crib Closure/Postclosure Workplan, in coordination with 200-PO-2 Workplan, due 6/30/98. 	<ul style="list-style-type: none"> ◆ To Be Determined 	<ul style="list-style-type: none"> ◆ Process change requests, as appropriate, to adjust milestone schedules in line with agreed upon work priorities.

Issues

Issue	Impact	Corrective Actions

Work Breakdown Structure

(For Performance Graphs)

Remedial Actions

ADS - 3100	100 - DR Operable Unit
ADS - 3105	100 - BC Operable Unit
ADS - 3110	100 - KR Operable Unit
ADS - 3115	100 - FR Operable Unit
ADS - 3120	100 - HR Operable Unit
ADS - 3200	200 - BP Operable Unit
ADS - 3230	200 - UP Operable Unit
ADS - 3300	300 - FF Operable Unit
ADS - 3390	1100 - EM Operable Unit

Ground Water Management

ADS - 3105	100 - BC Operable Unit
ADS - 3110	100 - KR Operable Unit
ADS - 3115	100 - FR Operable Unit
ADS - 3120	100 - HR Operable Unit
ADS - 3200	200 - BP Operable Unit
ADS - 3210	200 - PO Operable Unit
ADS - 3230	200 - UP Operable Unit
ADS - 3235	200 - ZP Operable Unit

Disposal Facilities

ADS - 3700	Disposal Facilities
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N-Area Deactivation

ADS - 3600	N - Reactor
ADS - 3125	100 - NR Operable Unit

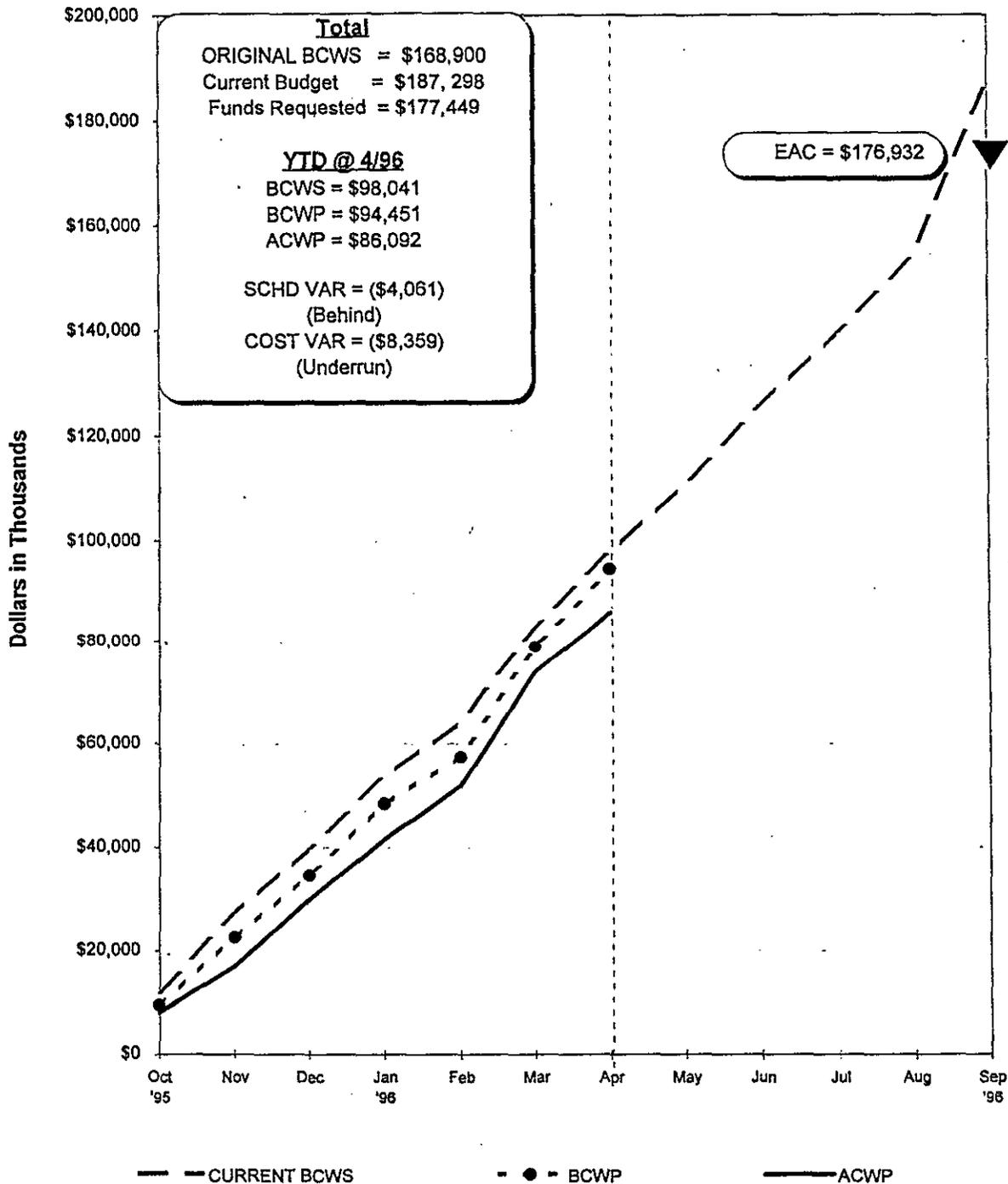
D & D

ADS - 3010	RARA / USTs
ADS - 3020	RCRA Closures
ADS - 3500	Asbestos Abatement
ADS - 3510	100 Area D&D
ADS - 3520	200 Area D&D
ADS - 3800	Long Term S&M

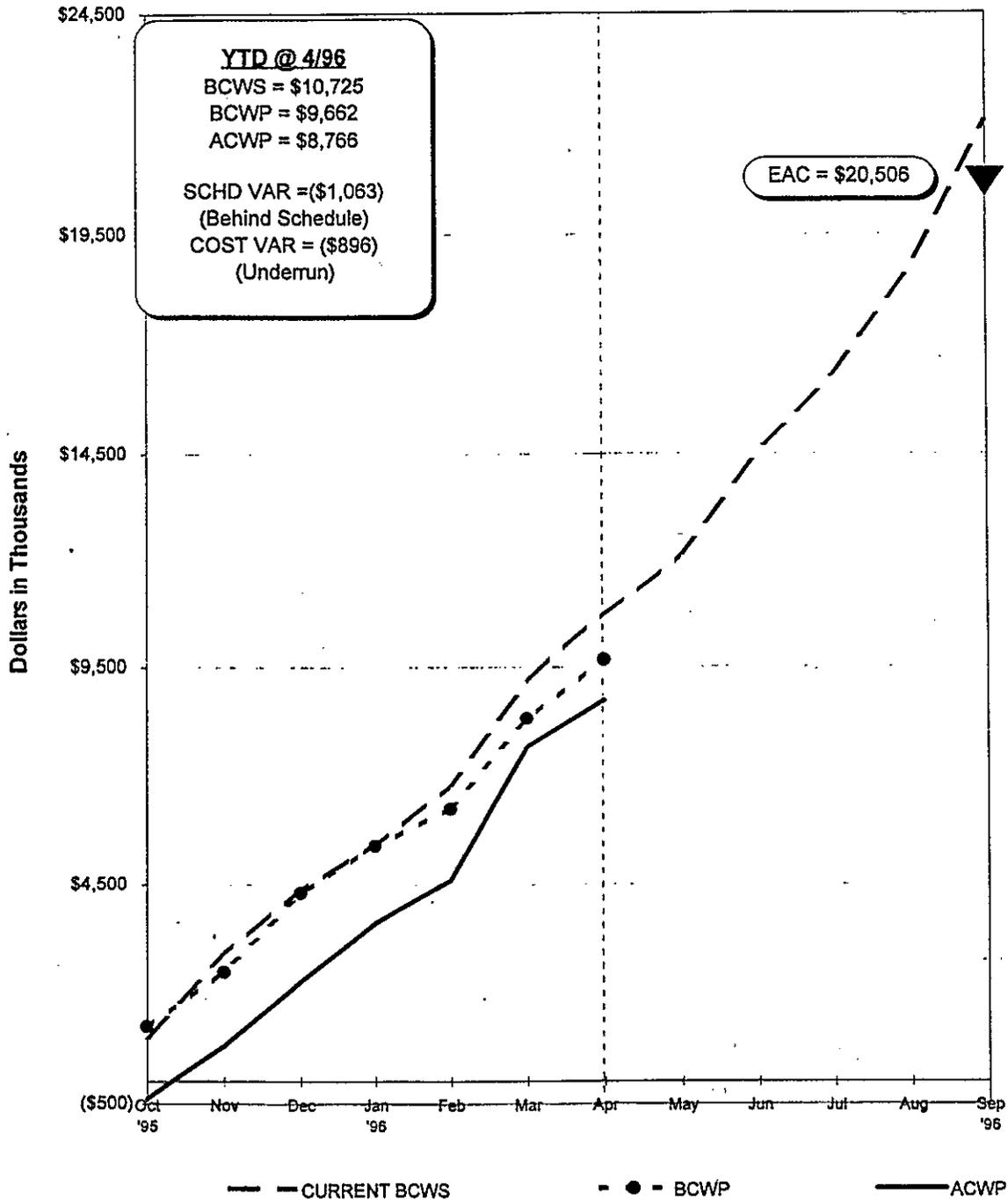
Support Projects

ADS - 3400	Program Support - BHI
ADS - 3410	Program Support - RL, USACE, PNL

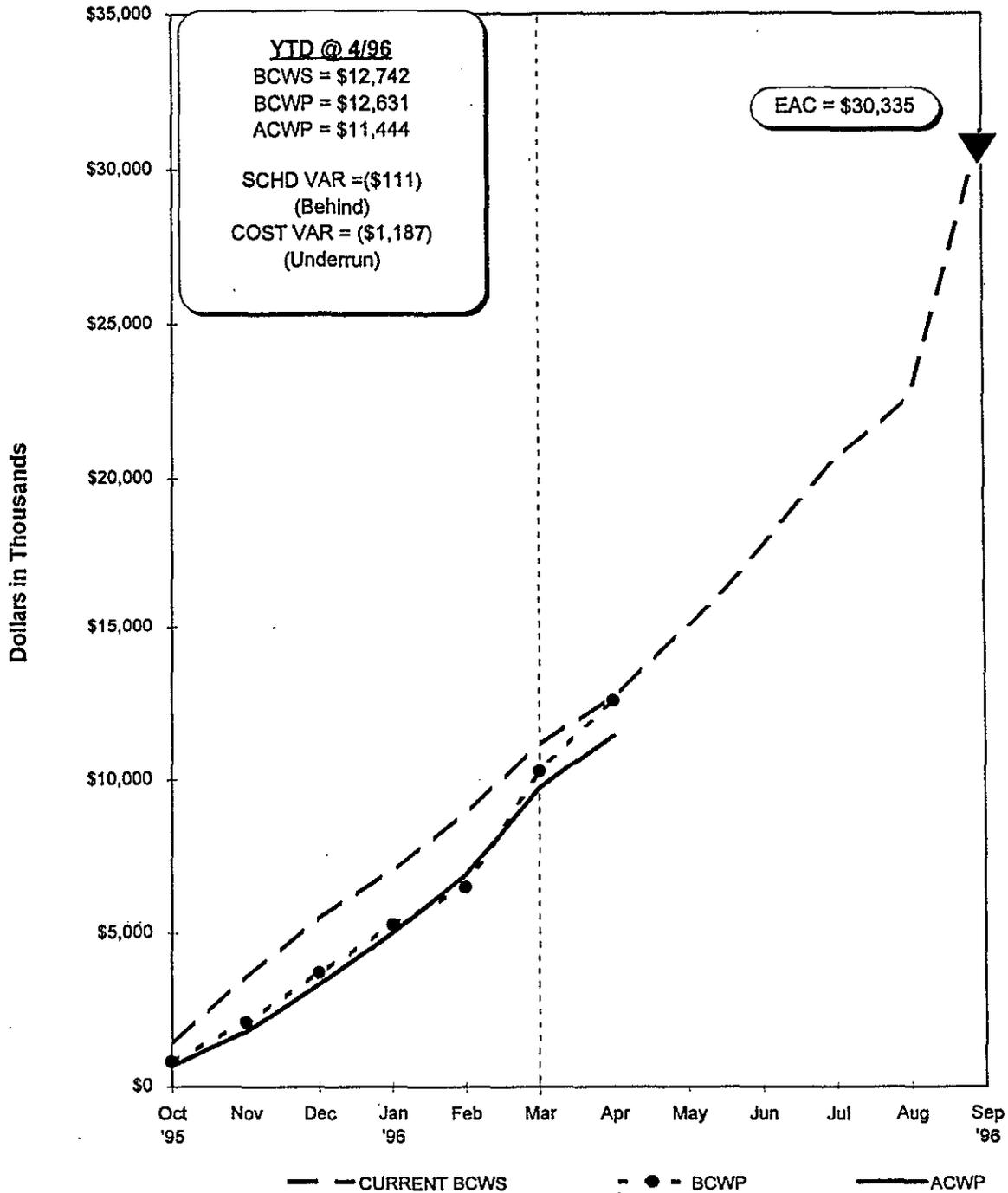
FY 1996 Total ER Performance Summary



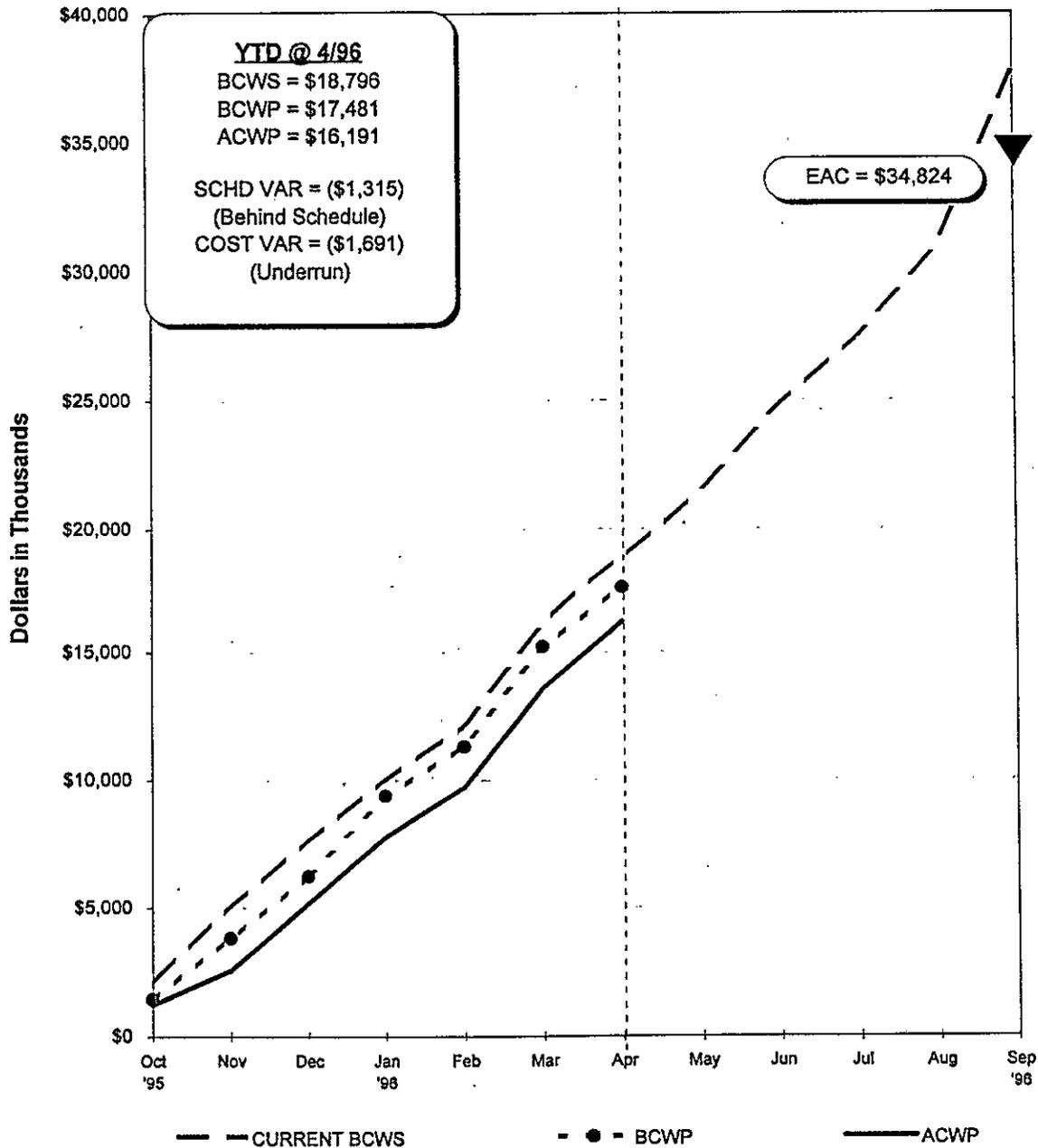
FY 1996 Remedial Actions Performance



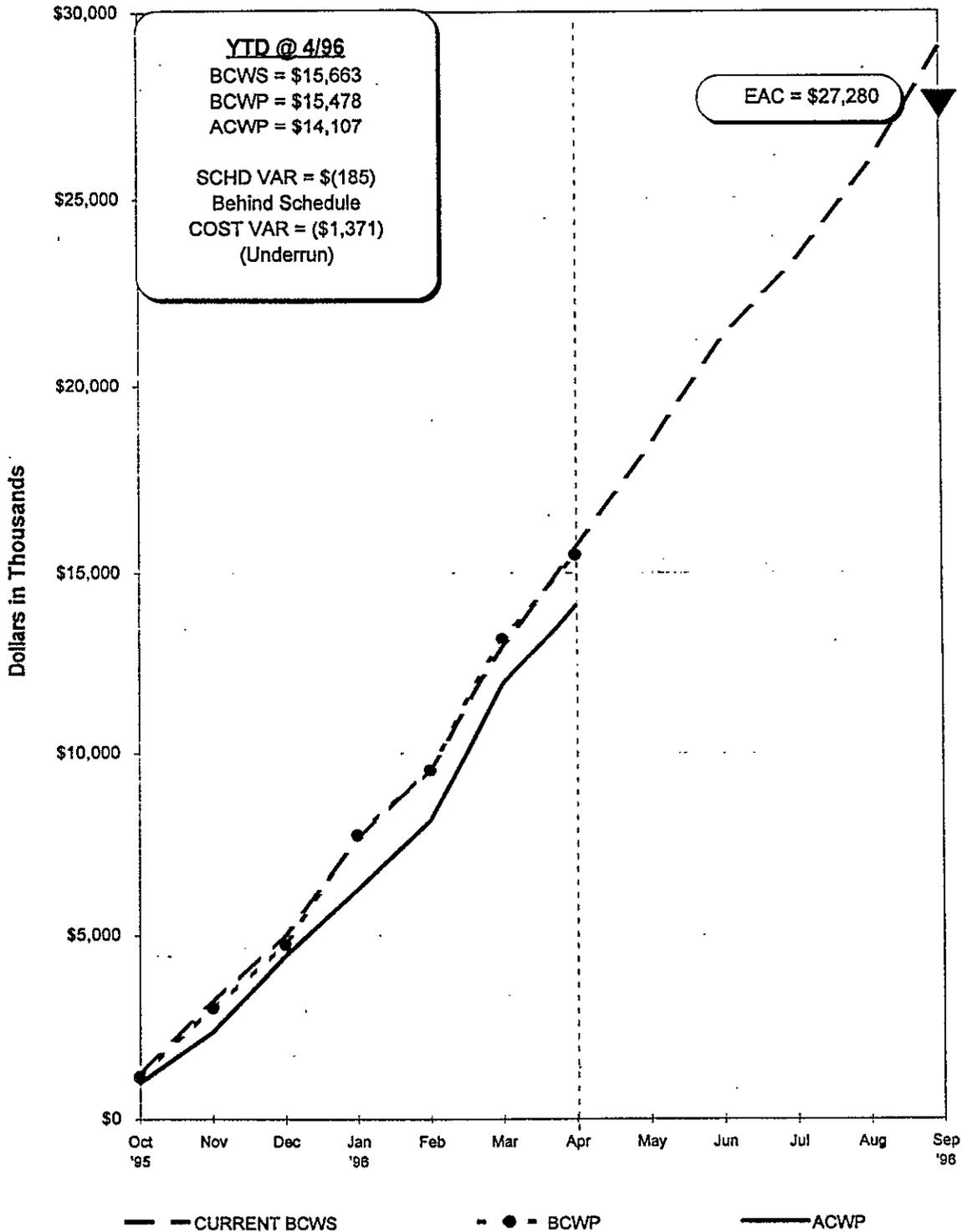
FY 1996 Groundwater Management



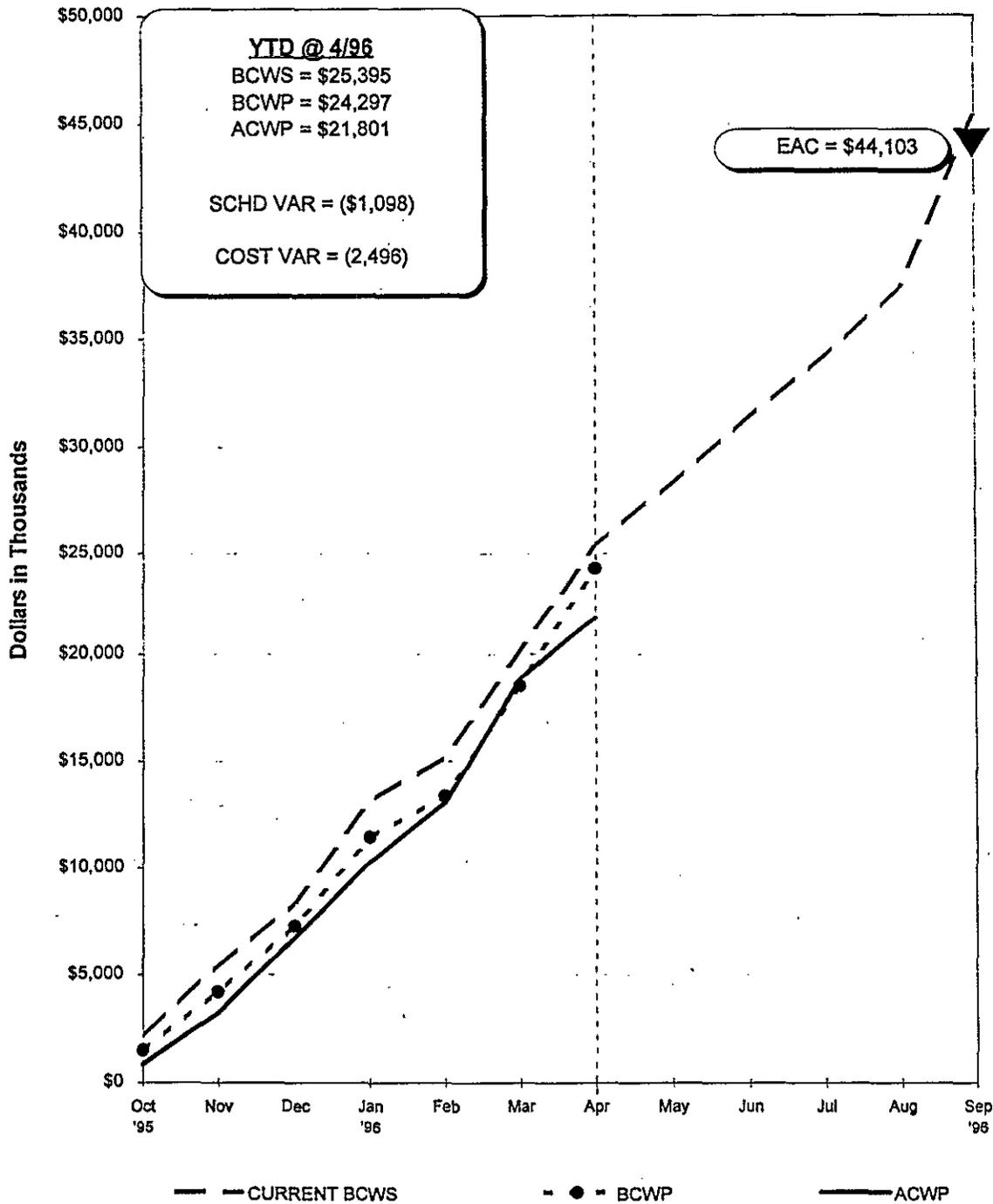
FY 1996 100N - Area Project Performance



FY 1996 D & D Performance



FY 1996 PM&S Performance



ER Project Summary

Cost Variances (> \$400 thousand @ ADS Level):

Operable Unit / \$ Variance (000's)	Description & Cause
ADS 3010 RARA -UST	<ul style="list-style-type: none"> ◆ Internal Stabilization 1.) Effective management controls (Site inspector and close monitoring of charging practices. 2.) Ash pit 126-F-1 minimal contamination - cost underrun of \$726K
ADS 3100 100-DR	<ul style="list-style-type: none"> ◆ 1) Cost efficiencies in Group 2 Design; 2) FY 1995 Year End Accruals were overstated.
ADS 3125 100-NR 1/2	<ul style="list-style-type: none"> ◆ Rigid operational and functional requirements, as well as design problems associated with the operational shakedown - \$451K overrun ◆ Scope growth in the ISTZ design, and extensive reviews on the TTP. ◆ CMS is due to additional land use scenario and increased Regulator interface \$385K overrun
ADS 3390 1100-EM (USACE)	<ul style="list-style-type: none"> ◆ 1) Efficiencies in the contracting process and the performance in the field will result in net savings to the project. 2) U.S. Army Corps of Engineers (USACE) credit of (\$669)K.
ADS 3400 PM&S	<ul style="list-style-type: none"> ◆ AT Support - Less software support required from PNNL. 2) HEIS data entry is being done more efficiently, requiring less manpower. 3) Redesigned GIS & WID databases have resulted in more efficient data entry, information retrieval, map production for field use, and maintenance. ◆ Project Services Records & Document Control - 1) EDMS costs incorrectly coded to Regulatory Support during April; 2) staff less than planned; 3) Library subscription billings later than anticipated; 4) costs for WHC services are less than planned.
ADS 3510 100 Area D&D	<ul style="list-style-type: none"> ◆ IFS&M - 1) Change to annual surveillance. 2) Close monitoring of charging practices. 3) reassigning 105-C cleanout to projects. ◆ 183-C Demolition - Developed efficient removal techniques of transite panels ◆ D&D Engineering - Eng. & Integration CERCLA criteria is being developed ◆ 190-C Demolition has less fixed contamination was encountered versus smearable. Cost underrun of \$467.0
ADS 3520 200 Area D&D	<ul style="list-style-type: none"> ◆ Facility transition was late in invoicing and cost is understated. ◆ 233-S Acquisition of experienced PU personnel caused rebaselining preparation streamlined for cost savings
ADS 3600 100-N Deactivation	<ul style="list-style-type: none"> ◆ Extreme weather, overtime for schedule recovery, and delays in operation of ROSEE -\$508K overrun. ◆ A double booking of an accrual in FY 1995 was reversed in November Actuals caused a \$471K underrun ◆ Performed work with less staff than planned \$591K - underrun
ADS 3700 ERDF	<ul style="list-style-type: none"> ◆ 1) Labor underruns were experienced in technical and administrative areas. 2) Well drilling and sampling costs are less than budgeted reflecting a lower number of wells and reduced sampling efforts.

FY 1996 - Schedule / Cost Variance Summary

Schedule Variances (>\$400 thousand @ ADS Level):

Operable Unit / \$ Variance (000's)	Description & Cause
ADS 3235 200-ZP	<ul style="list-style-type: none"> ◆ Phase III design activities are approximately one month ahead of schedule for 200-ZP-1. Phase II/III drilling activities are approximately five weeks ahead of schedule. \$462K - Ahead of Schedule ◆ Capital equipment installation is behind schedule due to a late Notice to Proceed. - \$154K - Behind Schedule
ADS 3300 300 - FF	<ul style="list-style-type: none"> ◆ 1) Negotiations with the Regulators took longer than planned for the Focus Feasibility Study (FFS) Process Trench Closure Plan and IRM Proposed Plan for 300-FF-1. Public review was extended three weeks. 2) the start of Remedial Design was deferred until the completion of the public review period.
ADS 3510 100 Area D&D	<ul style="list-style-type: none"> ◆ 100 Area IFS&M - 105-C cleanout work scope was given to projects because of lack of resources in IFS&M ◆ Risk Assessment at 105-H/F roof repairs - good RCT support, dedicated crew, panel installation design change ◆ 183-C Demolition developed efficient removal techniques of transit panels. Innovative fall protection.
ADS 3520 200 Area D&D	<ul style="list-style-type: none"> ◆ 200 Area IFS&M - 1)Contract award of remote monitoring installation was delayed causing schedule slip. 2) 202-S suspected of a flange leak caused a delay to the cleanout preparation and start of installation.
ADS 3600 100-N Reactor	<ul style="list-style-type: none"> ◆ Waste scheduled for shipment has not been shipped. \$370K - Behind schedule ◆ Several months slip on ROSEE operation and beginning of high-dose removals and additional low dose removals. - \$506K Behind schedule ◆ Several buildings have been rescheduled from early FY 1996 to later in FY 1996. These buildings are being used to store N-Basin waste until shipment the disposal facility. - \$242K - Behind schedule
ADS 3400 Program Mgmt & Support	<ul style="list-style-type: none"> ◆ Phase III of restructuring has not been implemented pending final determination of FY96 budget reductions. ◆ The budget was front end loaded with more activities planned for the first half of the fiscal year. These activities are expected to be completed later in the year. ◆ 233-S S-RIDS has not started pending decision on facility hazardous classification. REDOX is behind due to delay in approval of the N&S closure process by the Secretary of Energy. PAAA final rules have not been issued.

Environmental Restoration

MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE

OPERABLE UNIT	Fiscal 1996				Fiscal 1997				Fiscal 1998				Fiscal 1999				Fiscal 2000				Fiscal 2001				Fiscal 2002							
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr				
100-ATPA Projects																																
100-BC-1 (Groundwater)																																
100-BC-2																																
100-BC-5 (Groundwater)																																
100-DR-1 (Groundwater)																																
100-DR-2																																
100-FR-1																																
100-FR-2																																
100-FR-3 (Groundwater)																																

TPA MILESTONE
 TPA WORK PLAN SCHEDULE
 FORECAST
 PERFORMANCE MEASURE
 DOE-RL MILESTONE
 DOE-HQ MILESTONE
 AS OF April 30, 1996

Environmental Restoration

OPERABLE UNIT	MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE																				
	Fiscal 1996				Fiscal 1997				Fiscal 1998		Fiscal 1999		Fiscal 2000		Fiscal 2001		Fiscal 2002				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
100-ATR-1 (Cont'd #)																					
100-IR-1																					
100-IR-2																					
100-IR-3																					
100-KR-1																					
100-KR-2																					
100-KR-4																					
100-U-1																					
100-U-2																					
100-U-3																					
100-U-4																					
100-U-5																					

○ TPA MILESTONE ▽ TPA WORK PLAN SCHEDULE ◇ FORECAST ⊙ PERFORMANCE MEASURE ⊕ DOE-RL MILESTONE ⊖ DOE-HQ MILESTONE AS OF April 30, 1996

Environmental Restoration

Environmental Restoration
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE

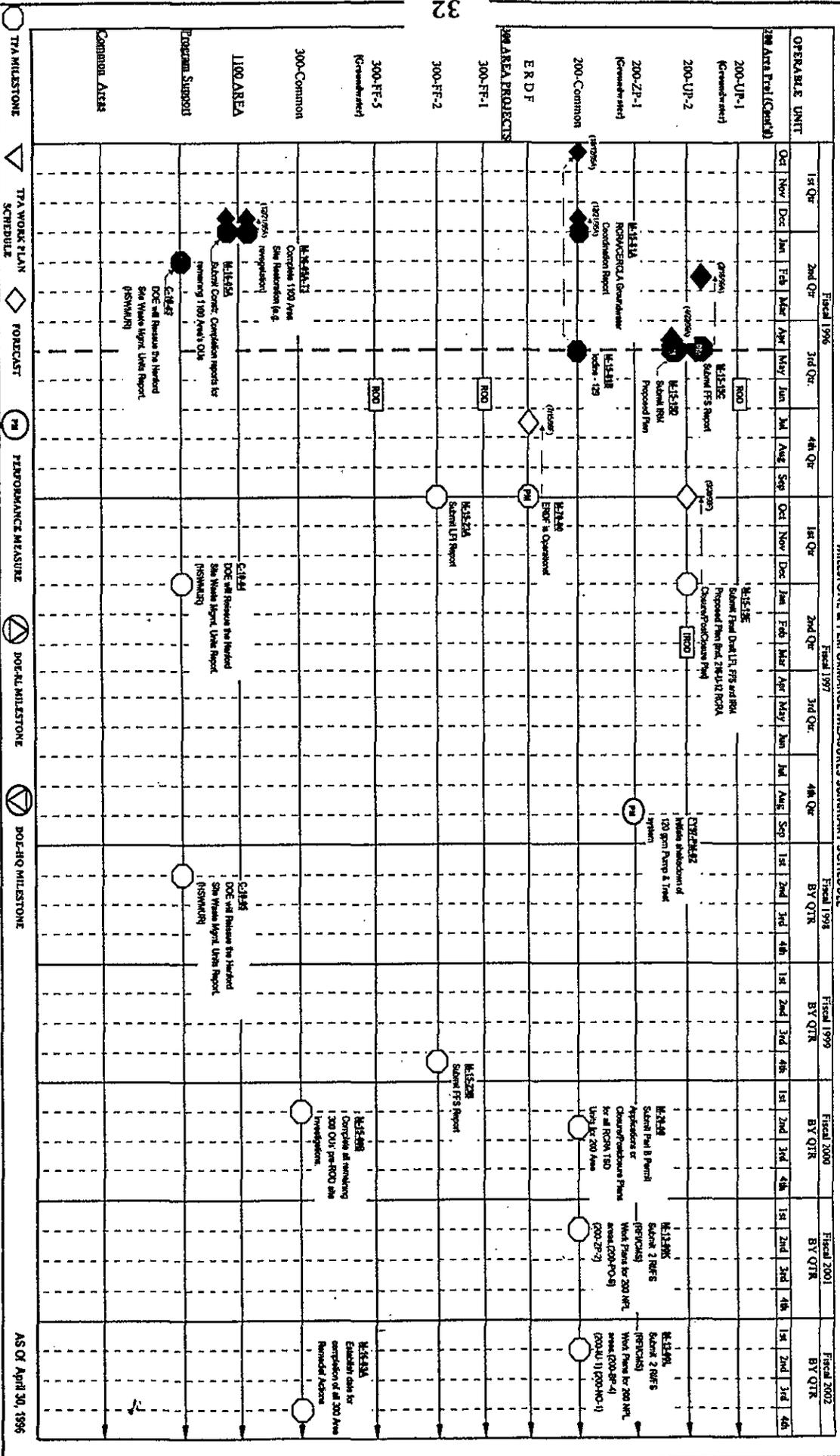
OPERABLE UNIT	Fiscal 1996				Fiscal 1997				Fiscal 1998		Fiscal 1999		Fiscal 2000		Fiscal 2001		Fiscal 2002		
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	BY QTR	BY QTR	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
100-Area (D & D)																			
100-N Area (Rhol Project)																			
100-N Area (Deactivation)																			
100-N Springs (Barter Well)																			
100-N Springs (Pump & Treat)																			
100 Common																			

TPA MILSTONE SCHEDULE FORECAST PERFORMANCE MEASURE DOE-ALL MILESTONE DOE-HQ MILESTONE AS OF: April 30, 1996

Environmental Restoration
TPA Quarterly Review (5/96)

Environmental Restoration

MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE



AS OF April 30, 1996

Richland Environmental Restoration Project

**FY 1997 - FY 1999
Multi-Year Work Plan**

Discussion with

**State of Washington Department of Ecology
and
Environmental Protection Agency**

May 28, 1996

The ER Team Needs Regulator Input

Multi-Year Work Plan process and Regulatory Agency participation

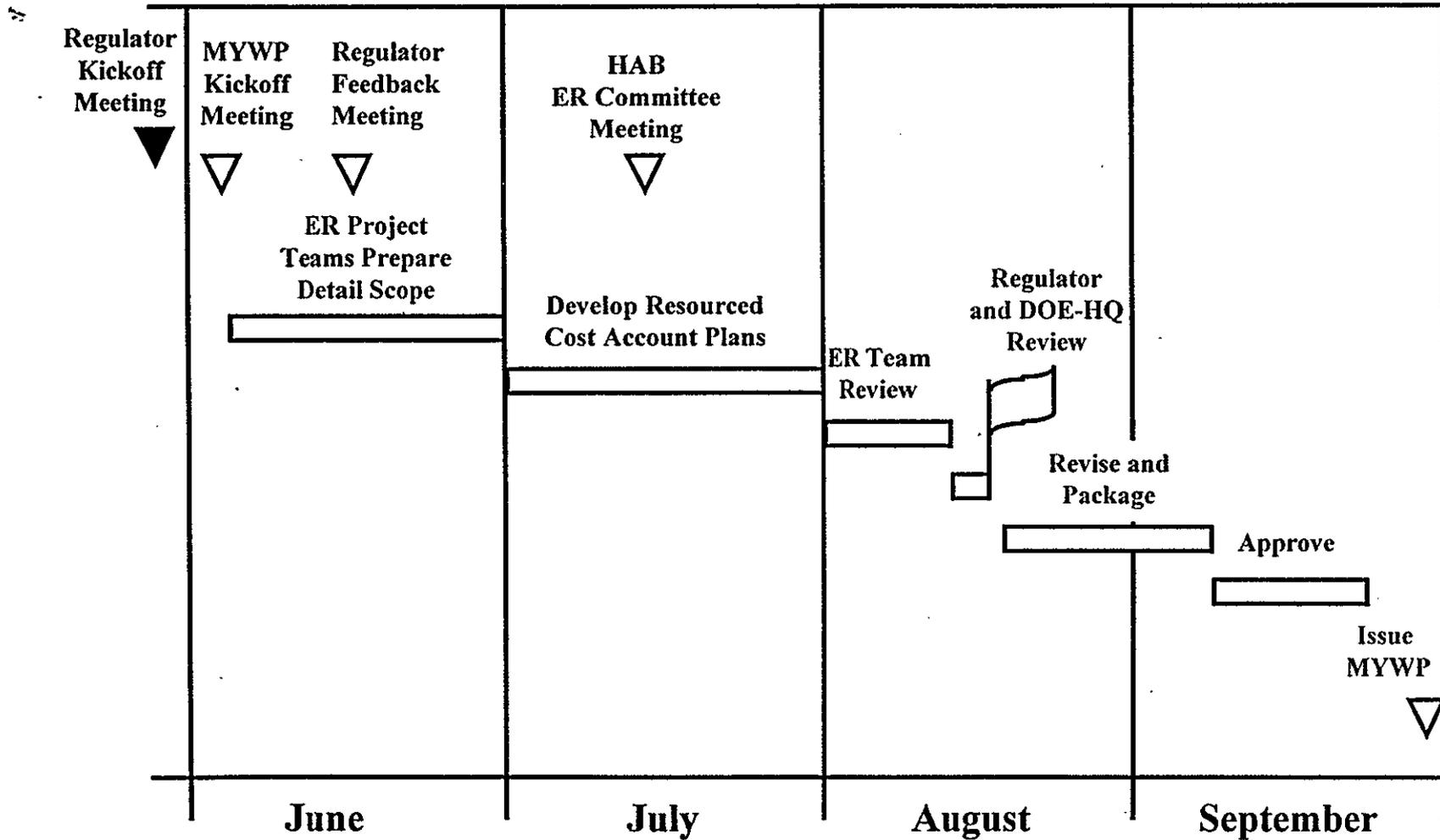
Review of scope to be used as planning basis for FY 1997 thru FY 1999

Consideration of Milestones at Risk

**Multi-Year Work Plan
Process**

Richland Environmental Restoration Project

FY 97 - FY 99 Planning Process



Richland Environmental Restoration Project

FY 1997 - FY 1999 Summary

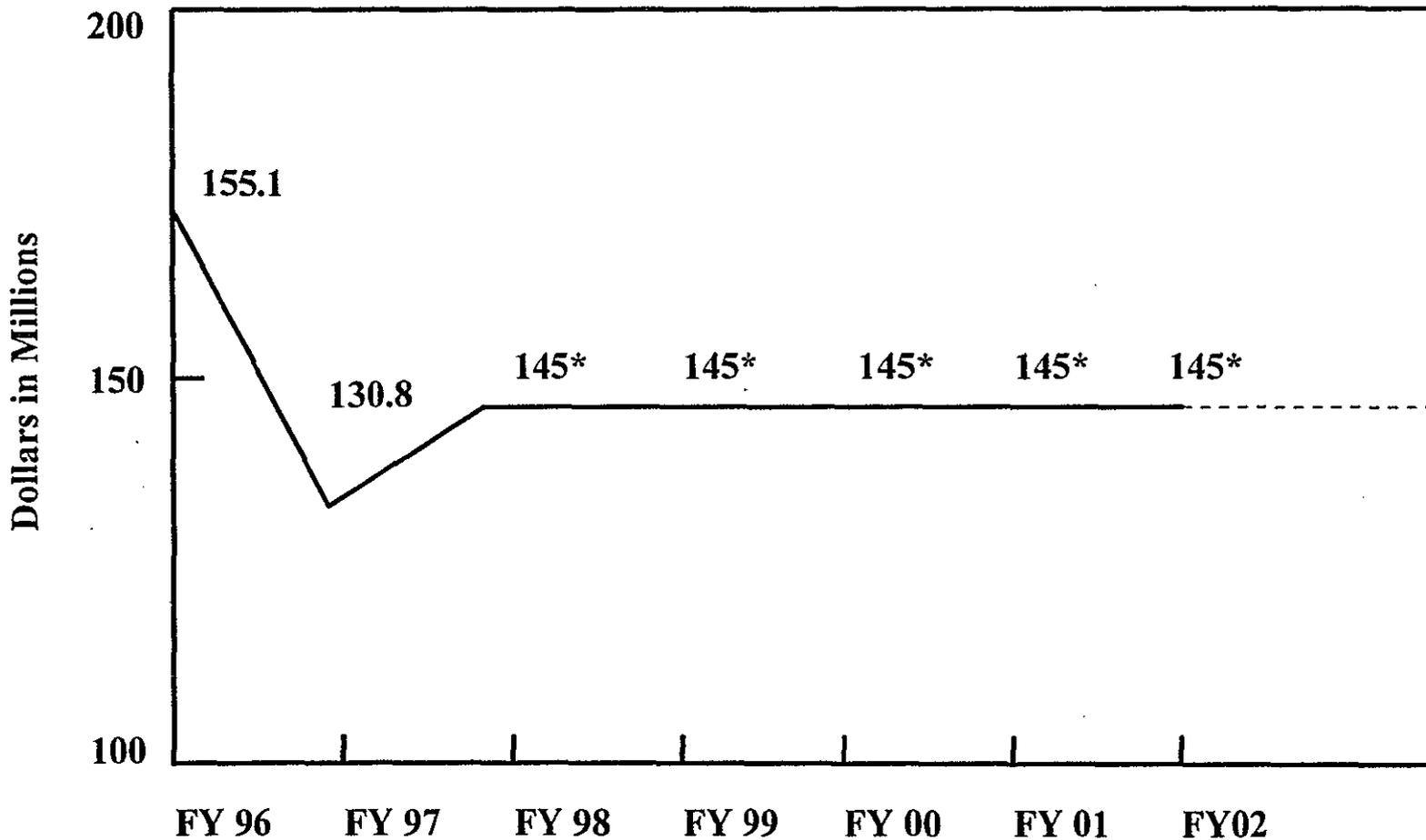
Regulatory, Tribal Nations and Stakeholder advice was used in developing ER Project priorities

HAB/FSUWG Advice:

- **Protect the public, workers and environment**
- **Protect Columbia River**
- **Deal realistically and forcefully with groundwater contamination**
- **Cleanup areas of high future use value**
- **Get on with cleanup/Show progress**

ADS Funding Profile - Target Case

(Excluding carryover)



*Includes \$14M in EM-30 Goundwater Management and EM-60 S&M scope transfer

FY 1997 Action Plan

Target Funding Level: \$20.196M

100 Area Strategy

Complete 120-D-1 Pond Closure Plan; Conduct S&M and review groundwater data for 120-D-1 Pond.

Support EPA and Ecology in issuing a ROD for remaining liquid waste sites in the 100 Area and prepare 100 Area integrated remedial action schedule.

Perform verification sampling and close-out of fifteen no-action 100 Area waste sites.

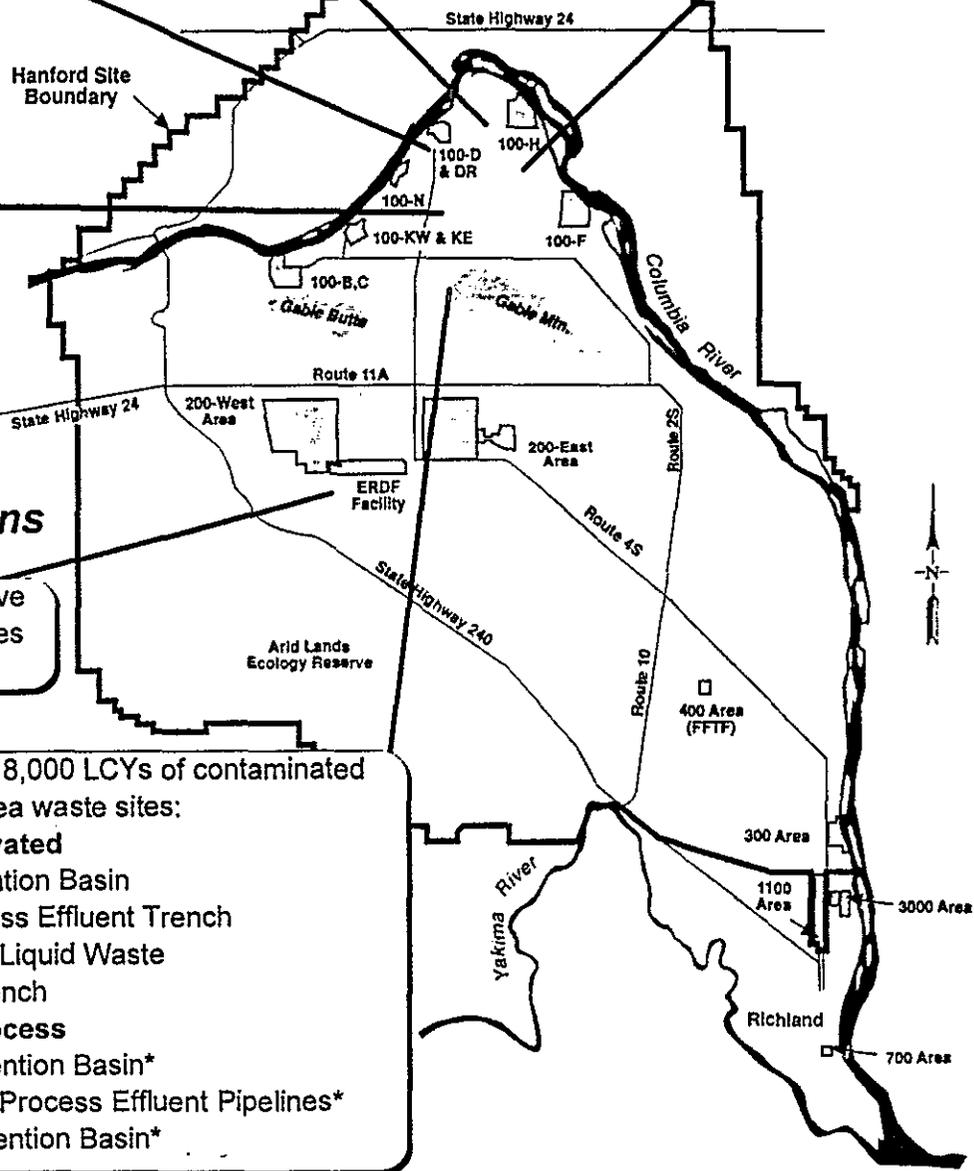
Prepare remedial design for remaining liquid waste sites in BC, D, & H Reactor Areas and for all liquid waste sites in F and K Reactor Areas.

100 Area Remedial Actions

Dispose of investigative derived and D&D wastes in ERDF

Remove 218,000 LCYs of contaminated soil from 100 Area waste sites:

- Excavated**
- 116-C-5 Retention Basin
- 116-B-1 Process Effluent Trench
- 116-DR-1 & 2 Liquid Waste Disposal Trench
- In Process**
- 116-B-11 Retention Basin*
- 100-BC North Process Effluent Pipelines*
- 116-DR-9 Retention Basin*



* Changes since the FY 97 ADS Budget Submittal

100 Area Source Remedial Actions

FY 1998 Action Plan

100 Area Strategy

Finalization of RCRA closure for 120-D-1 Pond.

Perform verification sampling and close-out of ten no-action 100 Area waste sites.

Target Funding Level: \$25.053M

Complete assessment work for remaining solid waste sites in 100 Area (including burial grounds) and prepare Focused Feasibility Study and Proposed Plan.

100 Area Remedial Actions

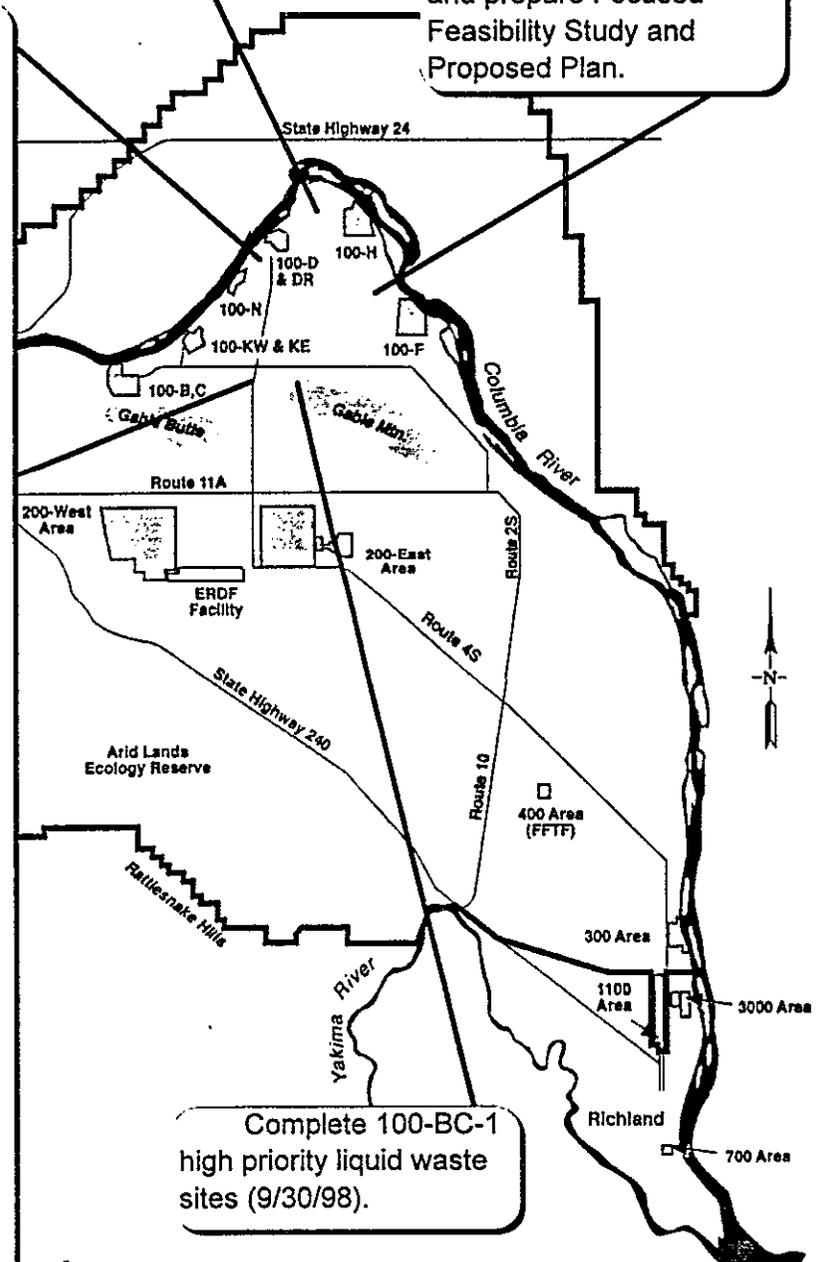
Remove 154,000 LCYs of contaminated soil from 100 Area waste sites:

Excavated

- 100-BC North Process Effluent Pipelines
- 116-B-11 Retention Basin
- 116-B-14 North Sludge Trench
- 116-B-13 South Sludge Trench
- 116-B-9 French Drain*
- 116-B-10 Dry Well*
- 116-B-3 Pluto Crib*
- 116-B-2 Fuel Storage Basin*
- 116-B-6A Crib*
- 116-B-6B Crib*
- 116-DR-9 Retention Basin
- 107-D2 Sludge Trench
- 107-D5 Sludge Trench
- 107-D1 Sludge Trench
- 116-D-7 Retention Basin*
- 107-D-4 Sludge Trench*
- 107-D-3 Sludge Trench*
- 100-D/DR North Process Effluent Pipelines*
- 116-D-4 French Drain*
- 116-D-1A Storage Basin*
- 116-D-1B Storage Basin*
- 116-D-6 French Drain*
- 116-D-2 Crib*
- 1607-D-2 Tile Field*
- 116-D-3 French Drain*

In Process

- 100-BC South Process Effluent Pipelines*
- 100-D/DR South Process Effluent Pipelines*



Complete 100-BC-1 high priority liquid waste sites (9/30/98).

* Changes since the FY 97 ADS Budget Submittal

FY 1999 Action Plan

Target Funding Level: \$28.887M

100 Area Strategy

Perform remedial design activities for remaining waste sites in the 100 Area.

Conduct RI/FS activities in 100-IU-2 & 100-IU-6 to complete remaining 100 Area OU sites assessment.

Support EPA and Ecology in issuing a ROD for remaining solid waste sites in the 100 Area.

100 Area Remedial Actions

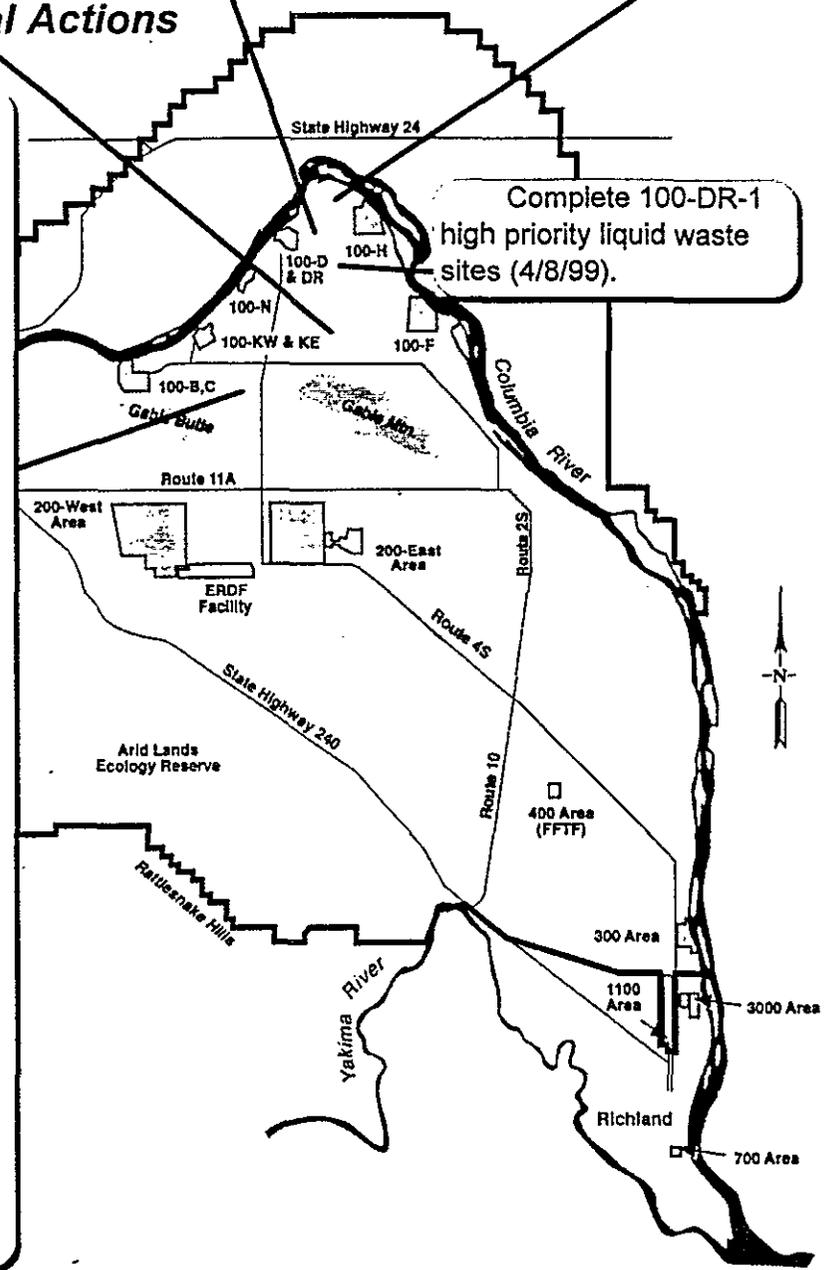
Remove 205,000 LCYs of contaminated soil from 100 Area waste sites:

Excavated

- 100-BC South Process Effluent Pipelines
- 116-C-2C Crib Sand Filter*
- 116-C-2A Crib*
- 100-D/DR South Process Effluent Pipelines*
- 116-DR-4 Pluto Crib*
- 116-DR-6 Liquid Disposal Trench
- 100-D-12 Sodium Dichromate Station
- 116-H-1 Liquid Waste Disposal Trench
- 116-H-2 Trench*
- 100-H-17 Trench*
- 100-H-5 Trench*
- 116-H-3 Crib*
- 151-H Trench*
- 116-F-14 Retention Basin*
- 116-F-9 Trench*
- 116-F-6 Trench*
- 116-F-3 Trench*
- 116-F-2 Trench*
- 116-F-1 Trench*

In Process

- 116-H-7 Retention Basin*
- 116-HR Process Effluent Pipelines*



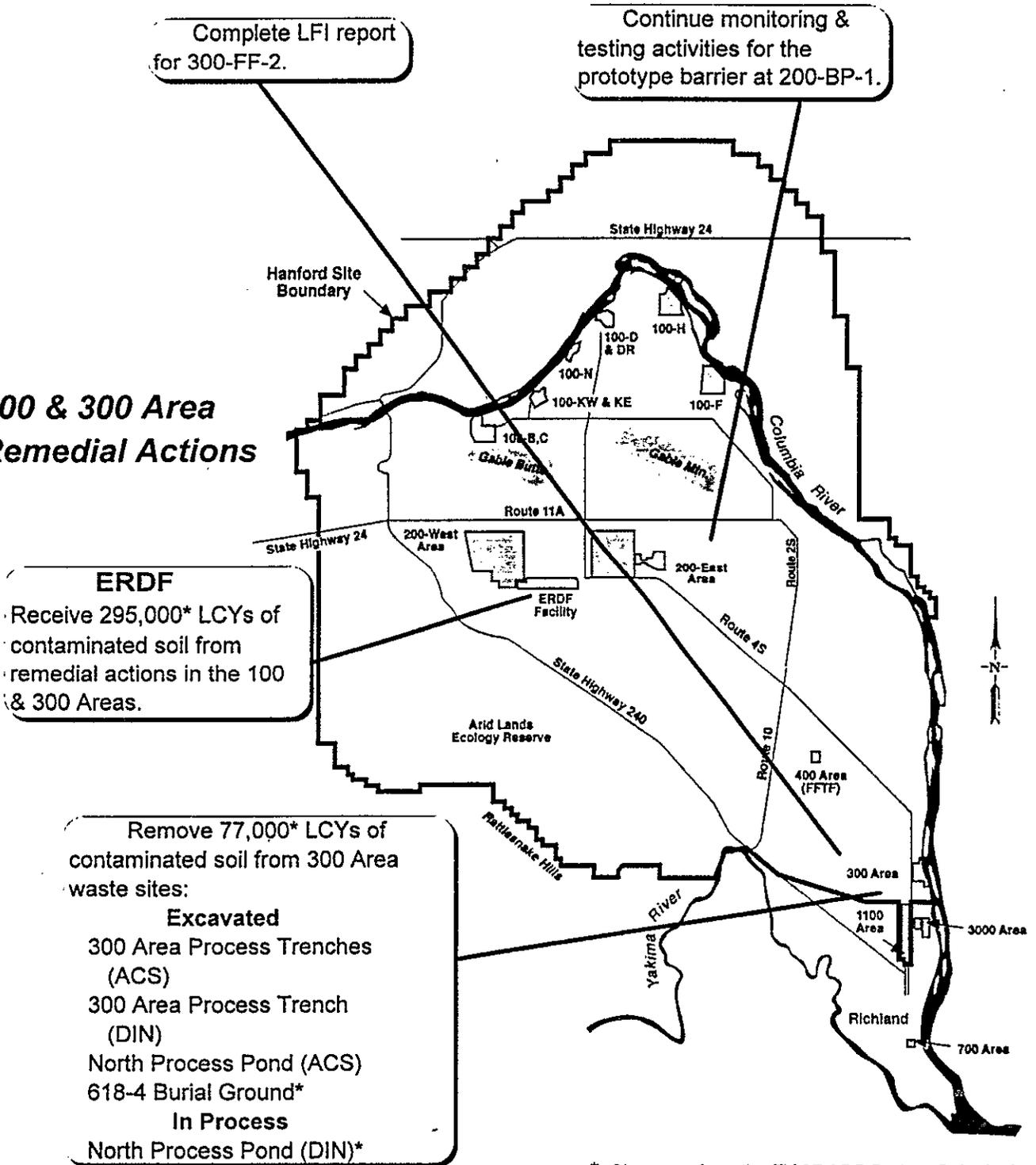
* Changes since the FY 97 ADS Budget Submittal

FY 1997 Action Plan

Target Funding Level: \$22.986M

200 & 300 Area Strategy

200 & 300 Area Remedial Actions



* Changes since the FY 97 ADS Budget Submittal

FY 1998 Action Plan

Target Funding
Level: \$28.470M

200 & 300 Area Strategy

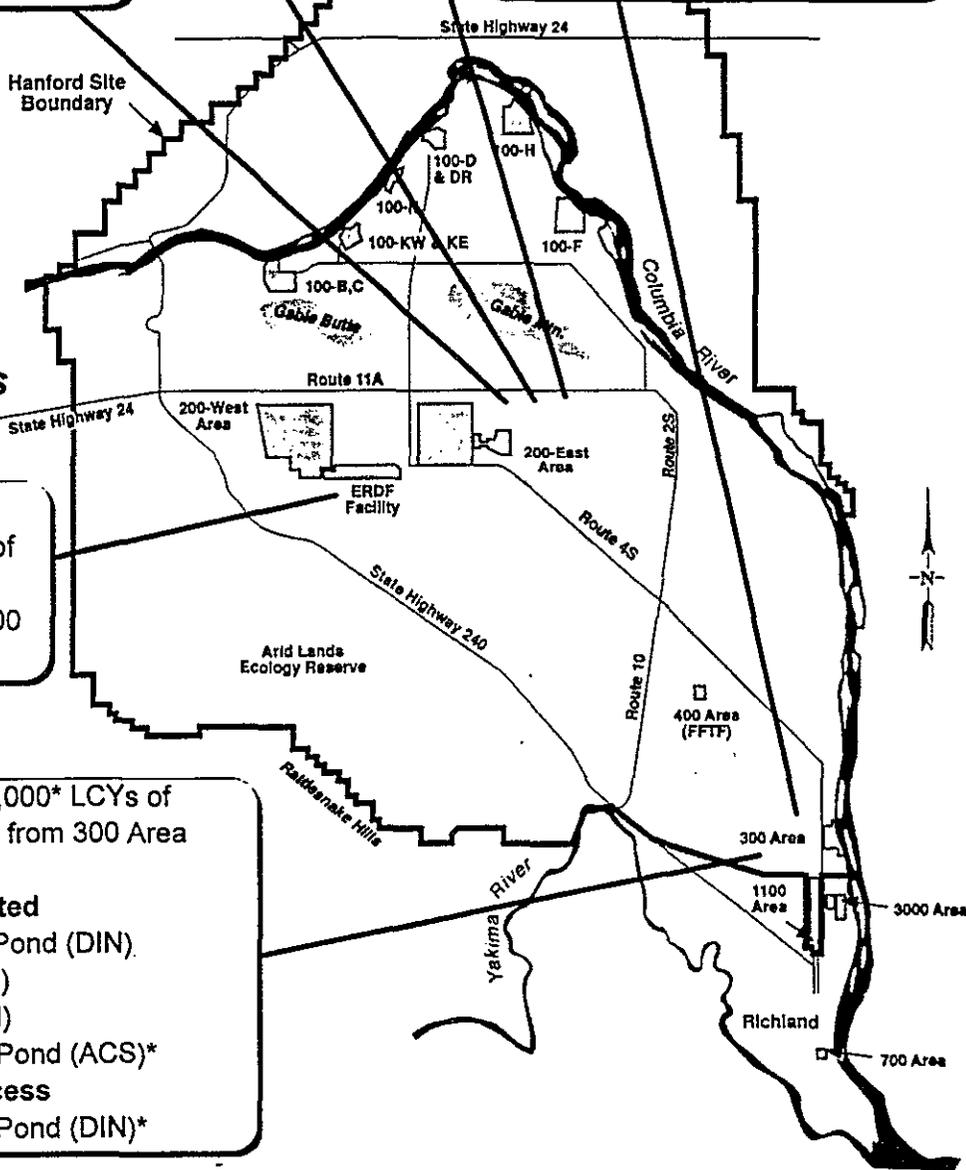
- Initiate characterization for 200-BP-11.
- Complete monitoring and test activities for prototype barrier at 200-BP-1; issue prototype barrier monitoring & testing final report.
- Conduct characterization and modeling to determine potential impact to groundwater from 216-B-3 Main Pond.
- Initiate 300-FF-2 Field Study report and Proposed Plan.

200 & 300 Area Remedial Actions

ERDF
Receive 213,000* LCYs of contaminated soil from remedial actions in the 100 & 300 Areas.

Remove 58,000* LCYs of contaminated soil from 300 Area waste sites:

- Excavated**
- North Process Pond (DIN)
- Landfill 1A (DIN)
- Landfill 1D (DIN)
- South Process Pond (ACS)*
- In Process**
- South Process Pond (DIN)*

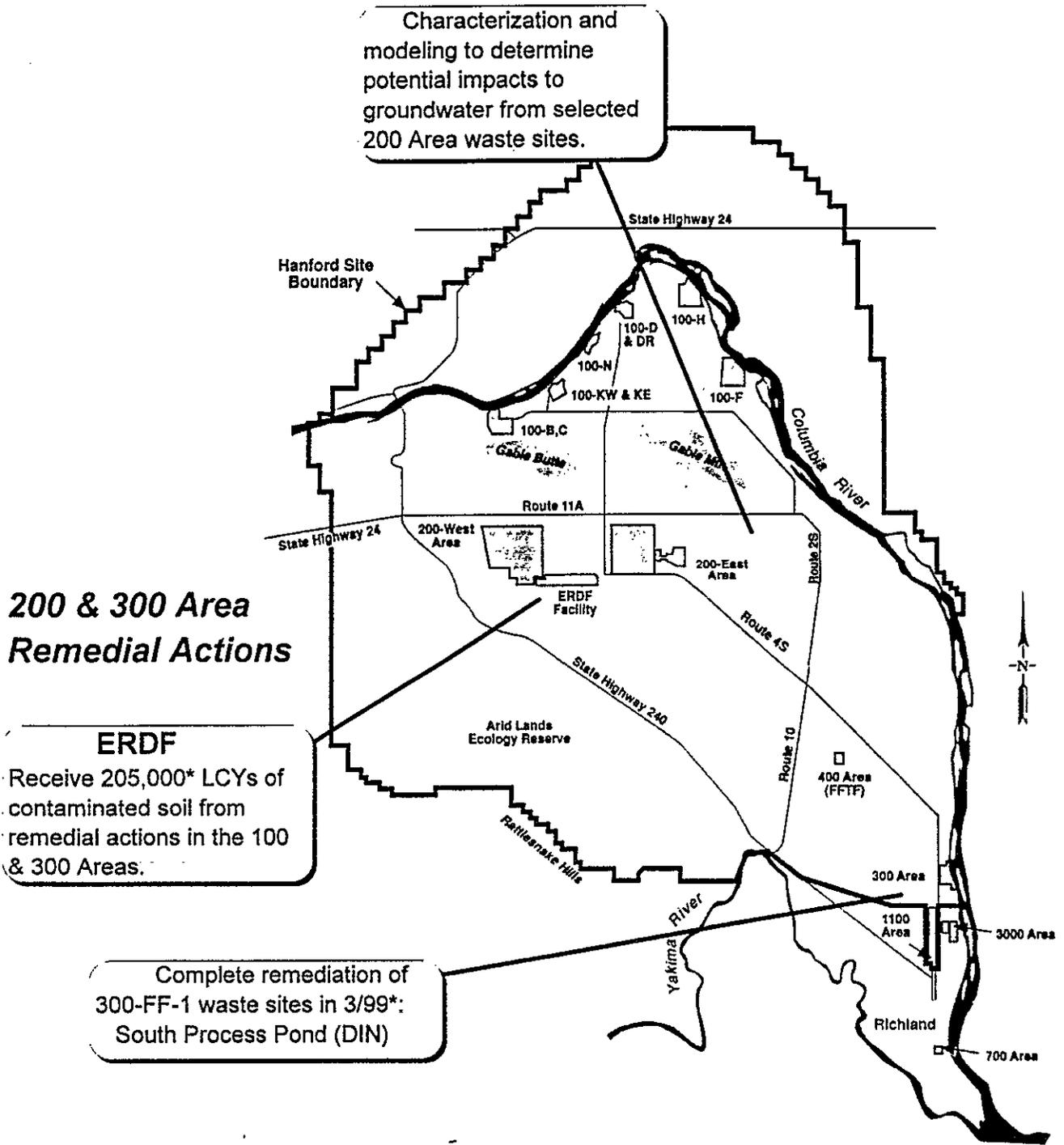


* Changes since the FY 97 ADS Budget Submittal

FY 1999 Action Plan

Target Funding Level: \$31.022M

200 & 300 Area Strategy



* Changes since the FY 97 ADS Budget Submittal

FY 1997 Action Plan

Target Funding Level: \$15.295M

Strategy

Complete Columbia River Comprehensive Impact Assessment Final Report and provide information to EPA and Ecology that is required to meet all TPA Milestones.

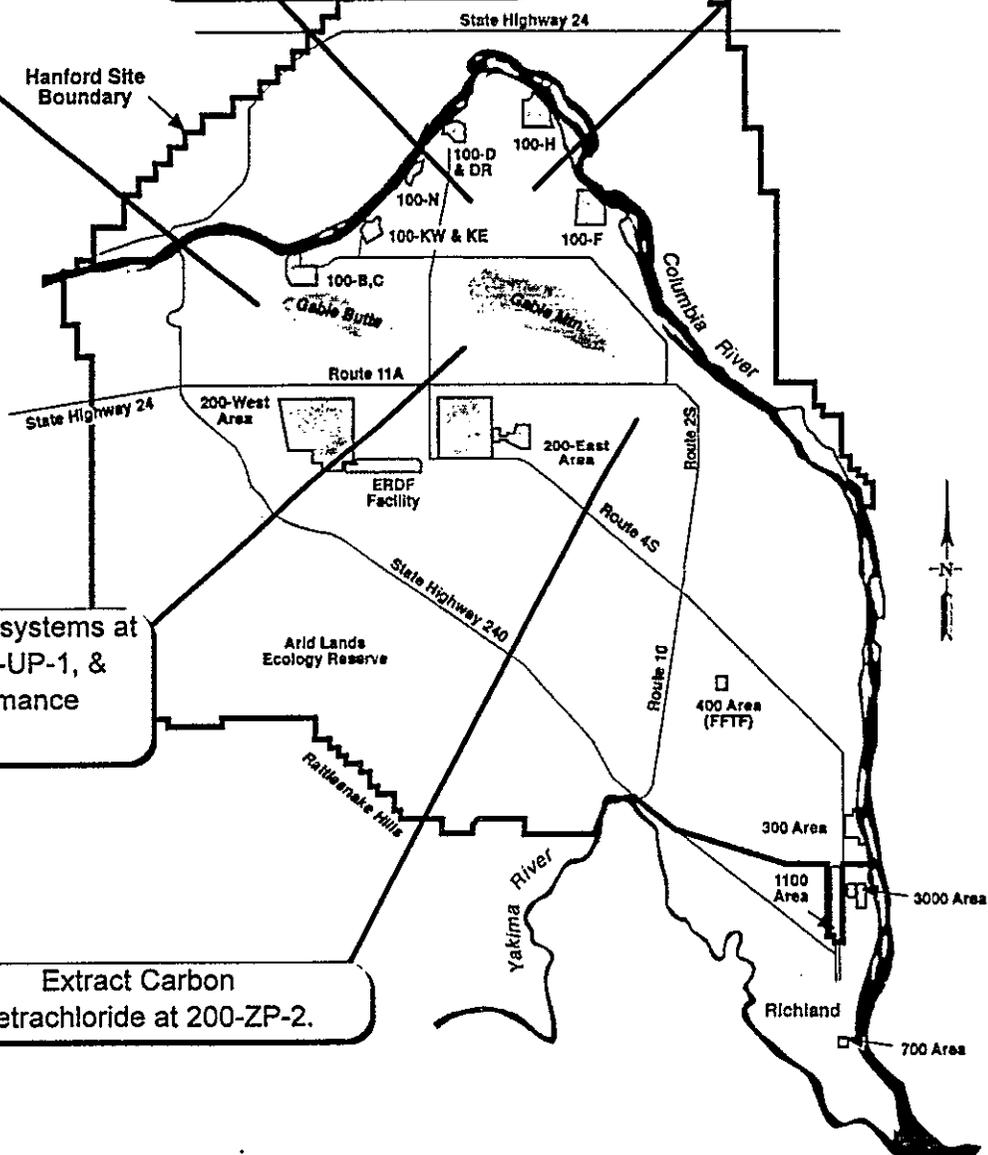
Complete construction and startup of 100-KR-4 and 100-HR-3 Pump & Treat systems, complete upgrade at 200-ZP-1, and provide support to complete the design and tie in of UP-1 to the Effluent Treatment Facility as required*.

Continue sitewide groundwater data collection, evaluation, and report writing for 100-BC-5 and 100-FR-3.

Actions

Operate Pump & Treat systems at 100-KR-4, 100-HR-3, 200-UP-1, & 200-ZP-1 including performance monitoring.

Extract Carbon Tetrachloride at 200-ZP-2.



* Changes since the FY 97 ADS Budget Submittal

FY 1998 Action Plan

Target Funding
Level: \$25.670M

Strategy

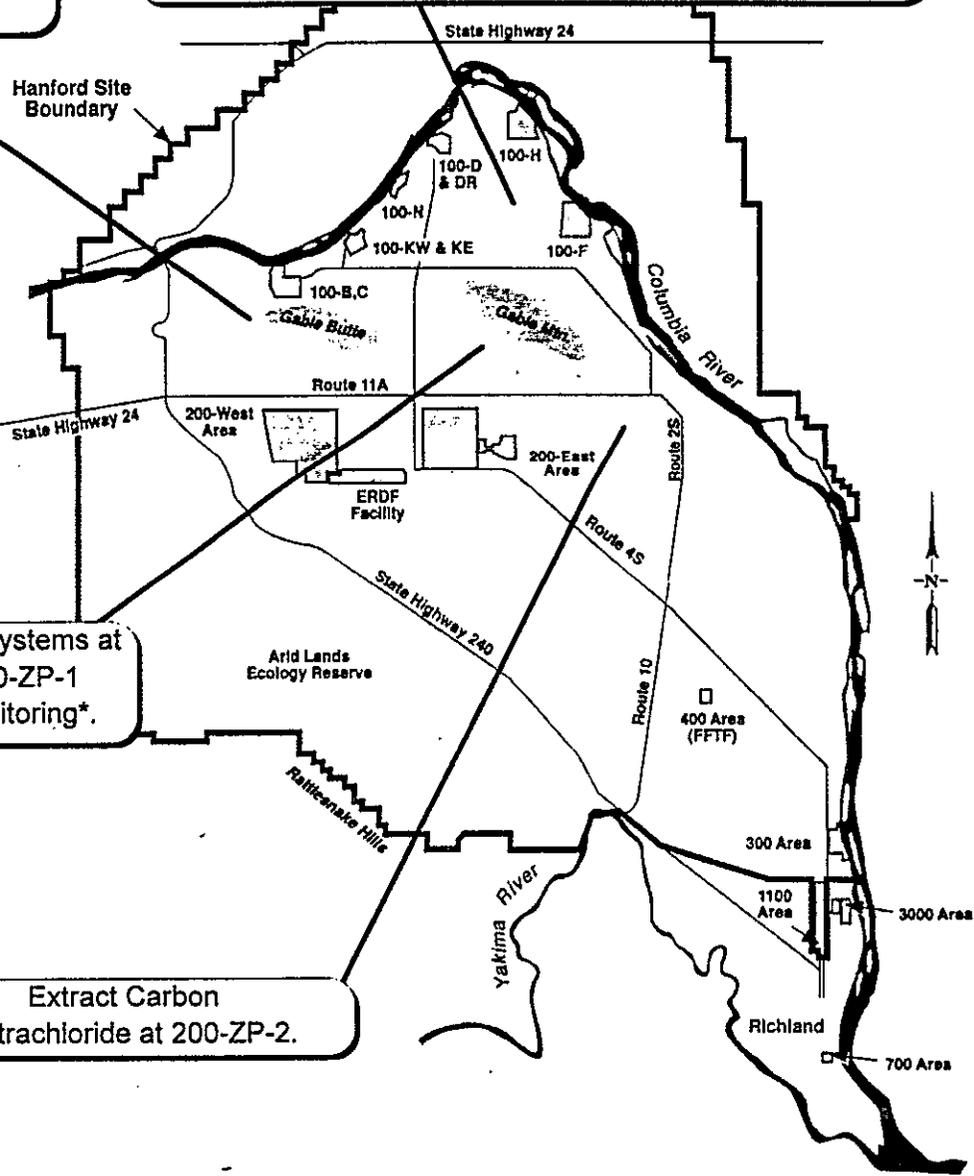
Perform any "phase II" work on the Columbia River Comprehensive Impact Assessment as mandated by EPA and Ecology.

Consolidation of site-wide Groundwater Management work scope will occur in 1998 to ensure that additional contamination is not migrating to the groundwater, existing groundwater is being contained, and to maintain compliance with CERCLA and RCRA activities as implemented through the TPA.

Actions

Operate Pump & Treat systems at 100-KR-4, 100-HR-3, & 200-ZP-1 including performance monitoring*.

Extract Carbon Tetrachloride at 200-ZP-2.



* Changes since the FY 97 ADS Budget Submittal

FY 1999 Action Plan

Target Funding
Level: \$25.639M

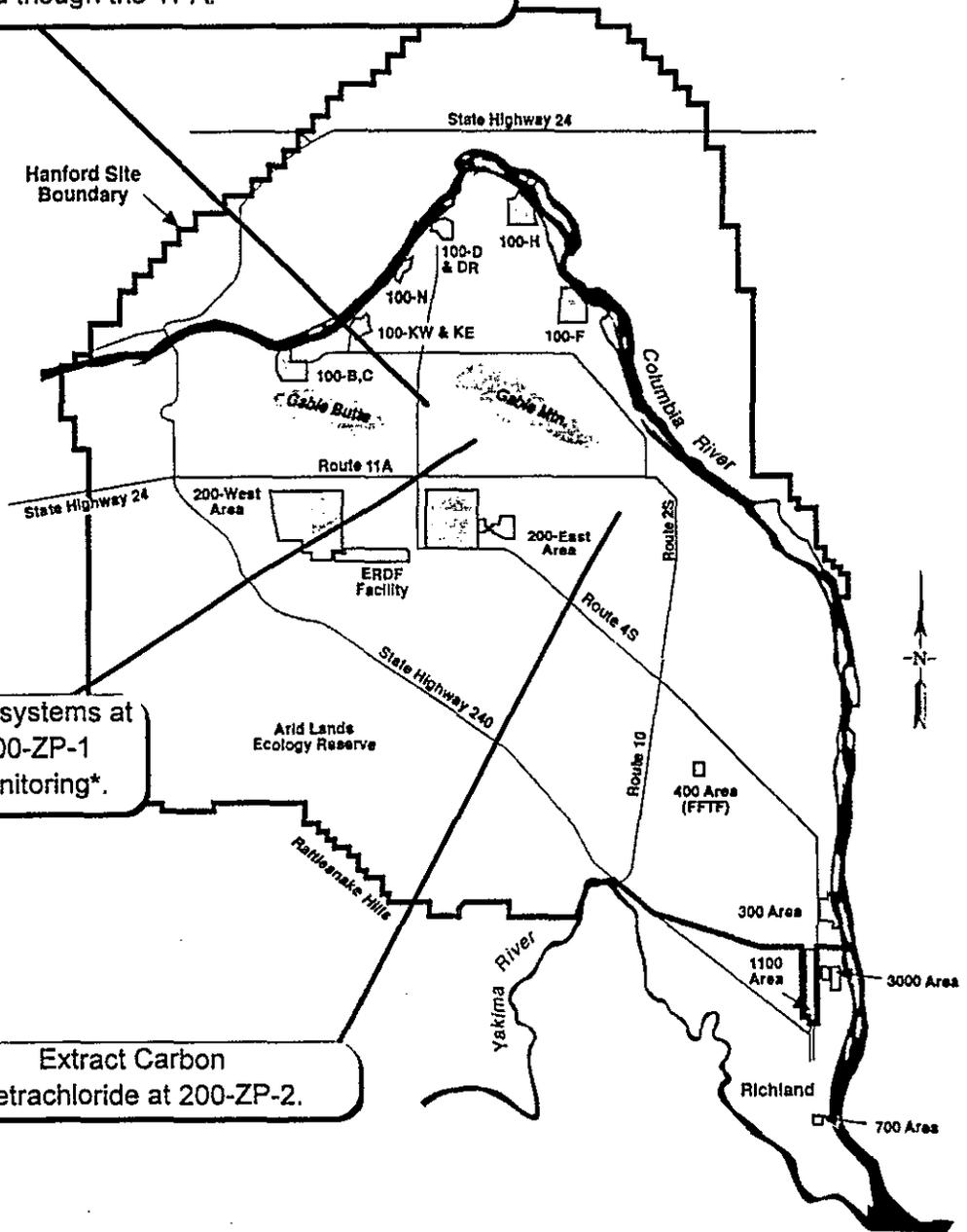
Strategy

Consolidation of site-wide Groundwater Management work scope will continue to ensure that additional contamination is not migrating to the groundwater, existing groundwater is being contained, and to maintain compliance with CERCLA and RCRA activities as implemented through the TPA.

Actions

Operate Pump & Treat systems at 100-KR-4, 100-HR-3, & 200-ZP-1 including performance monitoring*.

Extract Carbon Tetrachloride at 200-ZP-2.



* Changes since the FY 97 ADS Budget Submittal

FY 1997 Action Plan

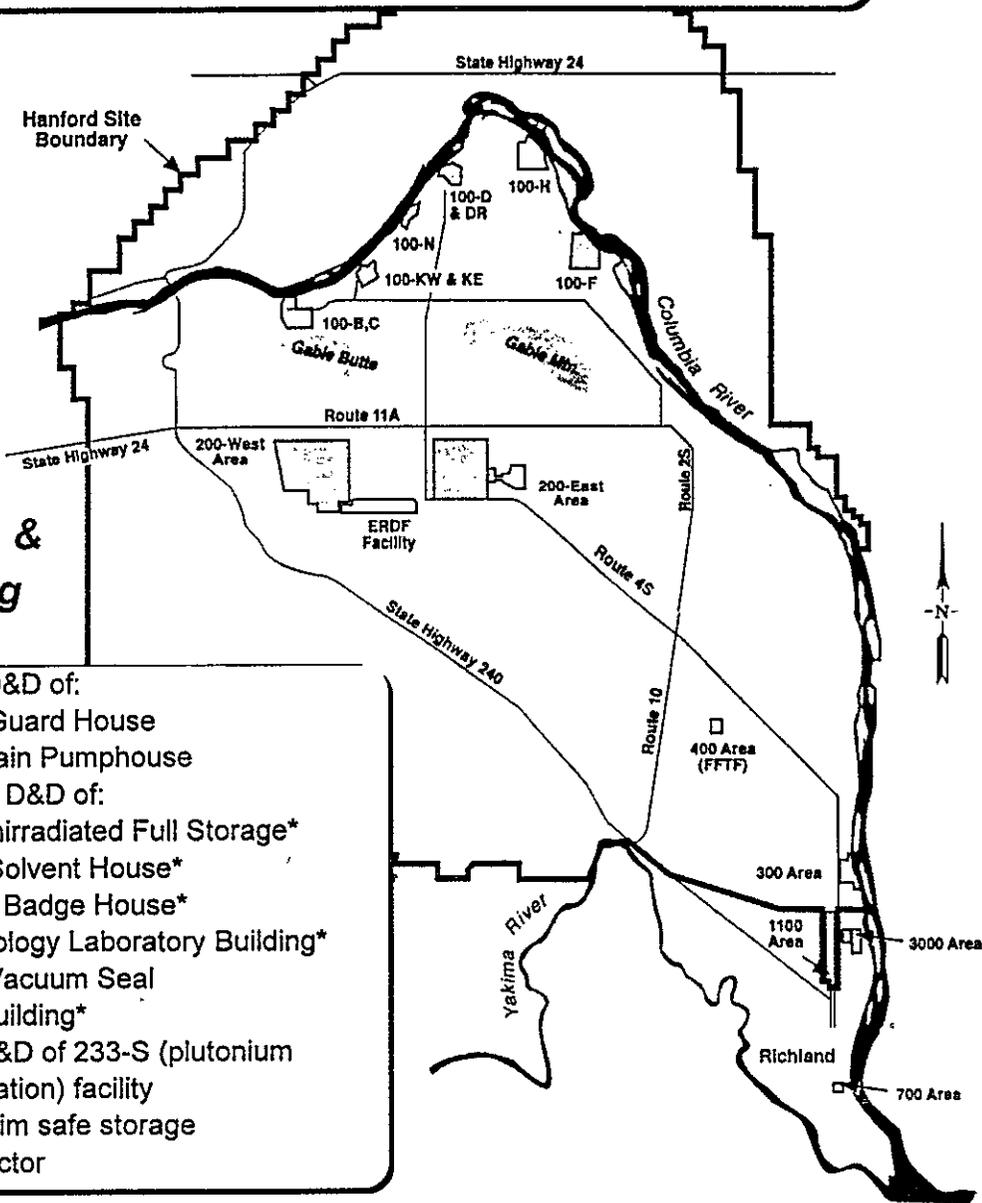
**Target Funding
Level: \$24.929M**

Surveillance & Maintenance

- Continue S&M of 100 & 200 Area inactive facilities
- Continue Radiation Area Remedial Action activities
- Continue management activities for the Hanford site asbestos abatement plan
- Continue long term post-remediation surveillance and monitoring
- Start S&M of 308 Building*
- Complete transition and commence S&M at 100-N Area (~60 buildings)*

Decontamination & Decommissioning

- Complete D&D of:
 - 1702-C Guard House
 - 190-C Main Pumphouse
- Commence D&D of:
 - 103-B Unirradiated Full Storage*
 - 1714-C Solvent House*
 - 1701-BA Badge House*
 - 108-F Biology Laboratory Building*
 - 1608-B Vacuum Seal House Building*
- Continue D&D of 233-S (plutonium concentration) facility
- Initiate interim safe storage of C Reactor



* Changes since the FY 97 ADS Budget Submittal

FY 1998 Action Plan

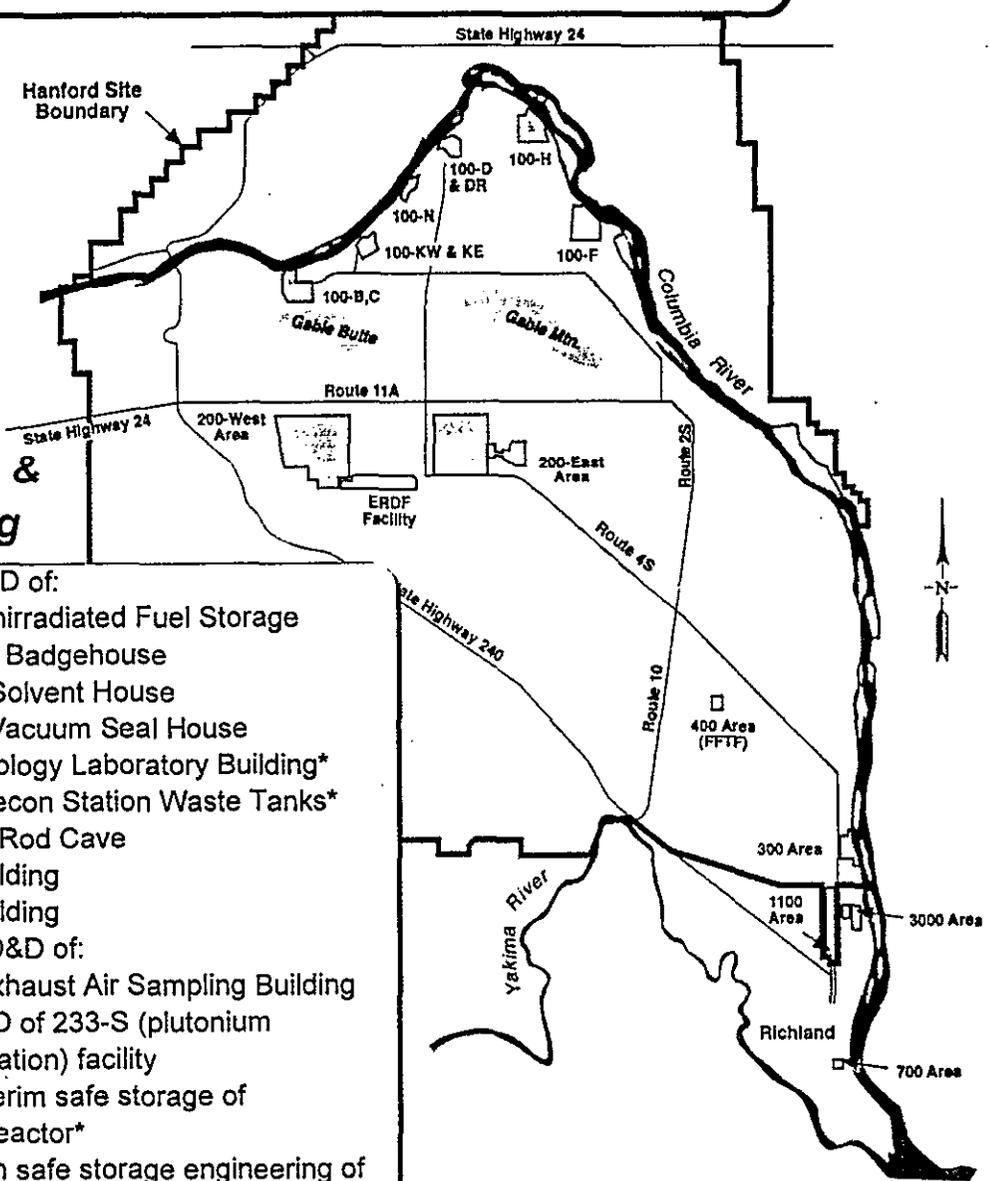
Target Funding
Level: \$35.946M

Surveillance & Maintenance

- Continue S&M of 100 & 200 Area inactive facilities (adding Purex and 300 Area in FY 98)
- Continue Radiation Area Remedial Action activities
- Continue management activities for the Hanford site asbestos abatement plan
- Continue long term post-remediation surveillance and monitoring
- Complete transition and commence S&M of PUREX (~50 buildings)
- Complete transition of B Plant (~35 Buildings)*

Decontamination & Decommissioning

- Complete D&D of:
 - 103-B Unirradiated Fuel Storage
 - 1701-BA Badgehouse
 - 1714-C Solvent House
 - 1608-B Vacuum Seal House
 - 108-F Biology Laboratory Building*
 - 111-B Decon Station Waste Tanks*
 - 118-C-4 Rod Cave
 - 2710 Building
 - 2718 Building
- Commence D&D of:
 - 119-B Exhaust Air Sampling Building
- Continue D&D of 233-S (plutonium concentration) facility
- Complete interim safe storage of 105-C Reactor*
- Initiate interim safe storage engineering of 105-F Reactor*



* Changes since the FY 97 ADS Budget Submittal

FY 1999 Action Plan

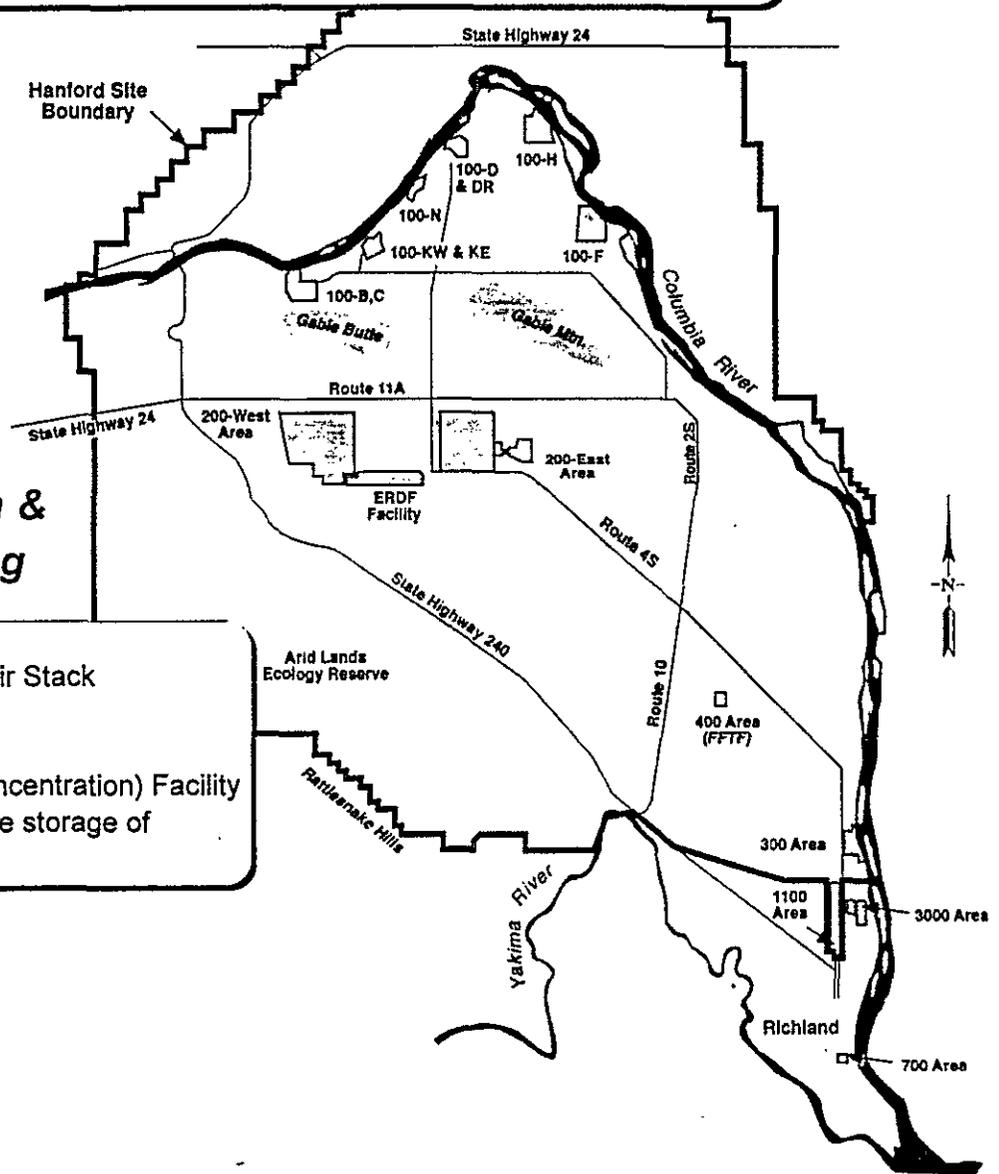
**Target Funding
Level: \$29.336M**

Surveillance & Maintenance

- Continue S&M of 100, 200 & 300 Area inactive facilities
- Continue Radiation Area Remedial Action activities
- Continue management activities for the Hanford site asbestos abatement plan
- Continue long term post-remediation surveillance and monitoring
- Commence S&M of B Plant*
- Complete transition and start S&M of 309 Building and 300 Area* Fuels (~18 buildings)

Decontamination & Decommissioning

- Complete D&D of:
116-B RX Exhaust Air Stack
1713-H Warehouse*
- Continue D&D of:
233-S (plutonium concentration) Facility
- Continue interim safe storage of
105-F Reactor



* Changes since the FY 97 ADS Budget Submittal

FY 1997 Action Plan

Target Funding
Level: \$17.668M

Strategy

Conduct CERCLA groundwater monitoring.

Final stabilization of N Basin surfaces.

Complete upgrades to Pump & Treat system.

Actions

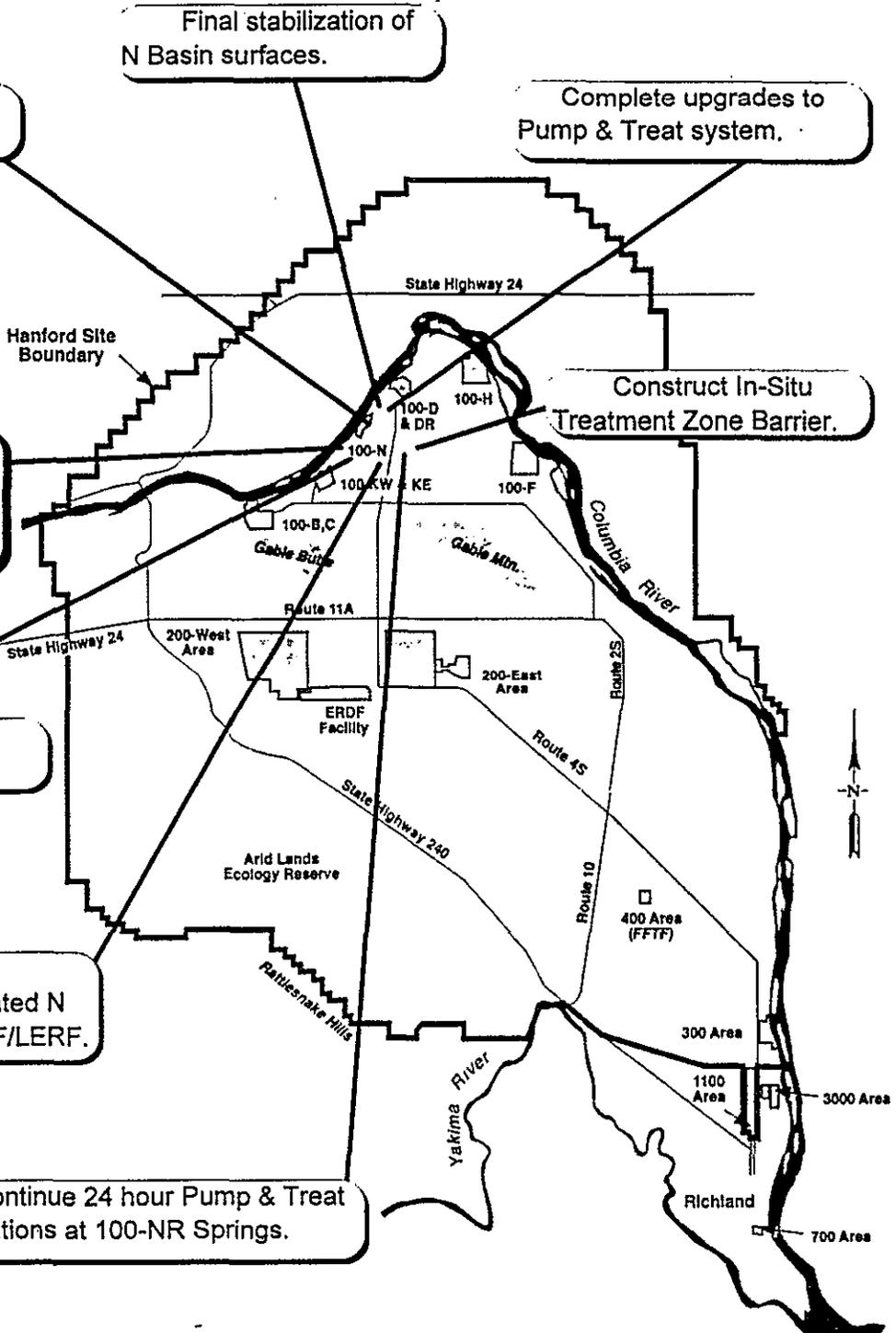
Deactivate remaining fourteen facilities and closeout N Reactor Deactivation Project.

Construct In-Situ Treatment Zone Barrier.

Complete sediment removal from N Basin.

Complete the transfer of pre-treated N Basin water to ETF/LERF.

Continue 24 hour Pump & Treat operations at 100-NR Springs.



FY 1998 Action Plan

Target Funding
Level: \$1.257M

Strategy

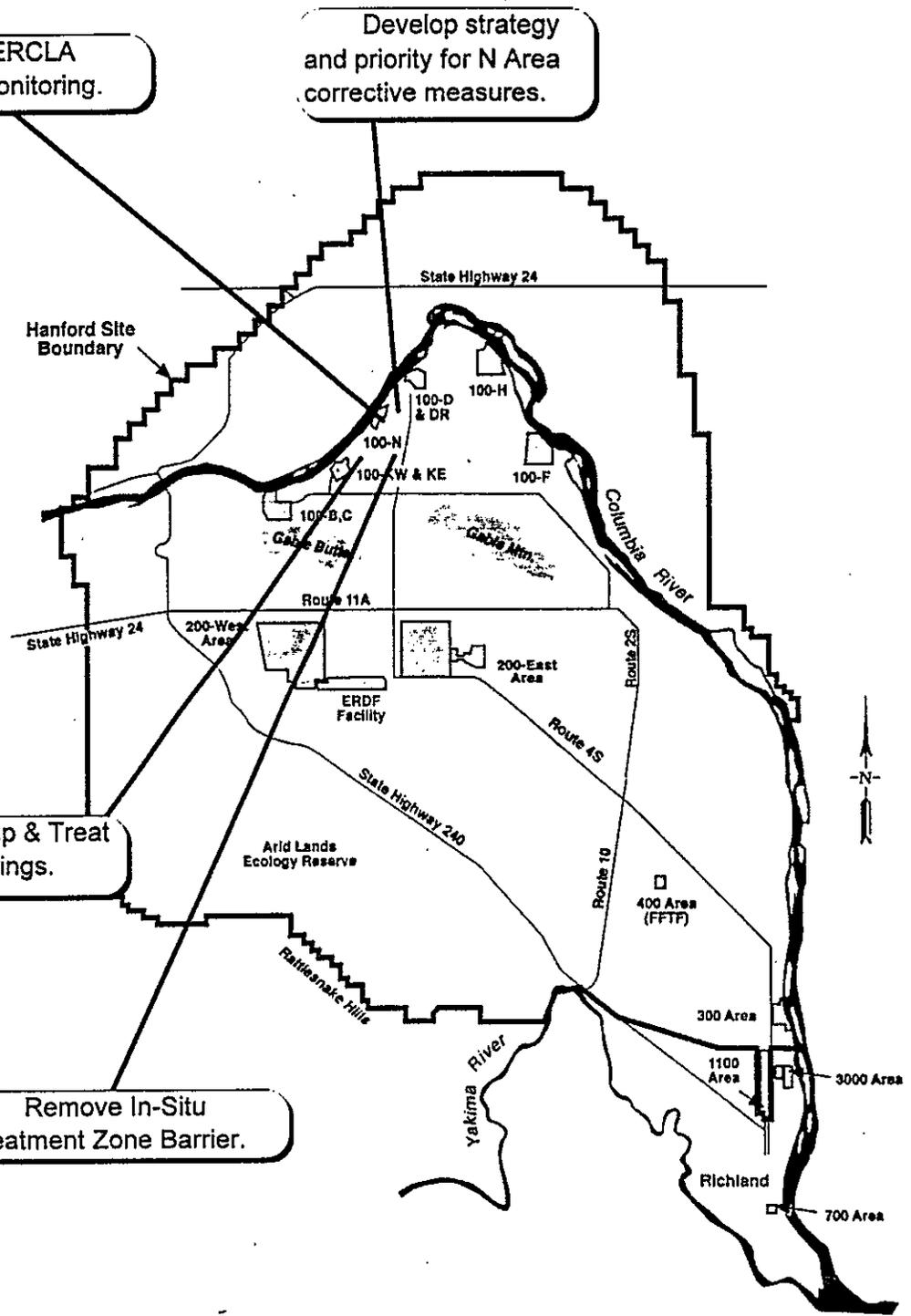
Conduct CERCLA
groundwater monitoring.

Develop strategy
and priority for N Area
corrective measures.

Actions

Continue 24 hour Pump & Treat
operations at 100-NR Springs.

Remove In-Situ
Treatment Zone Barrier.



FY 1999 Action Plan

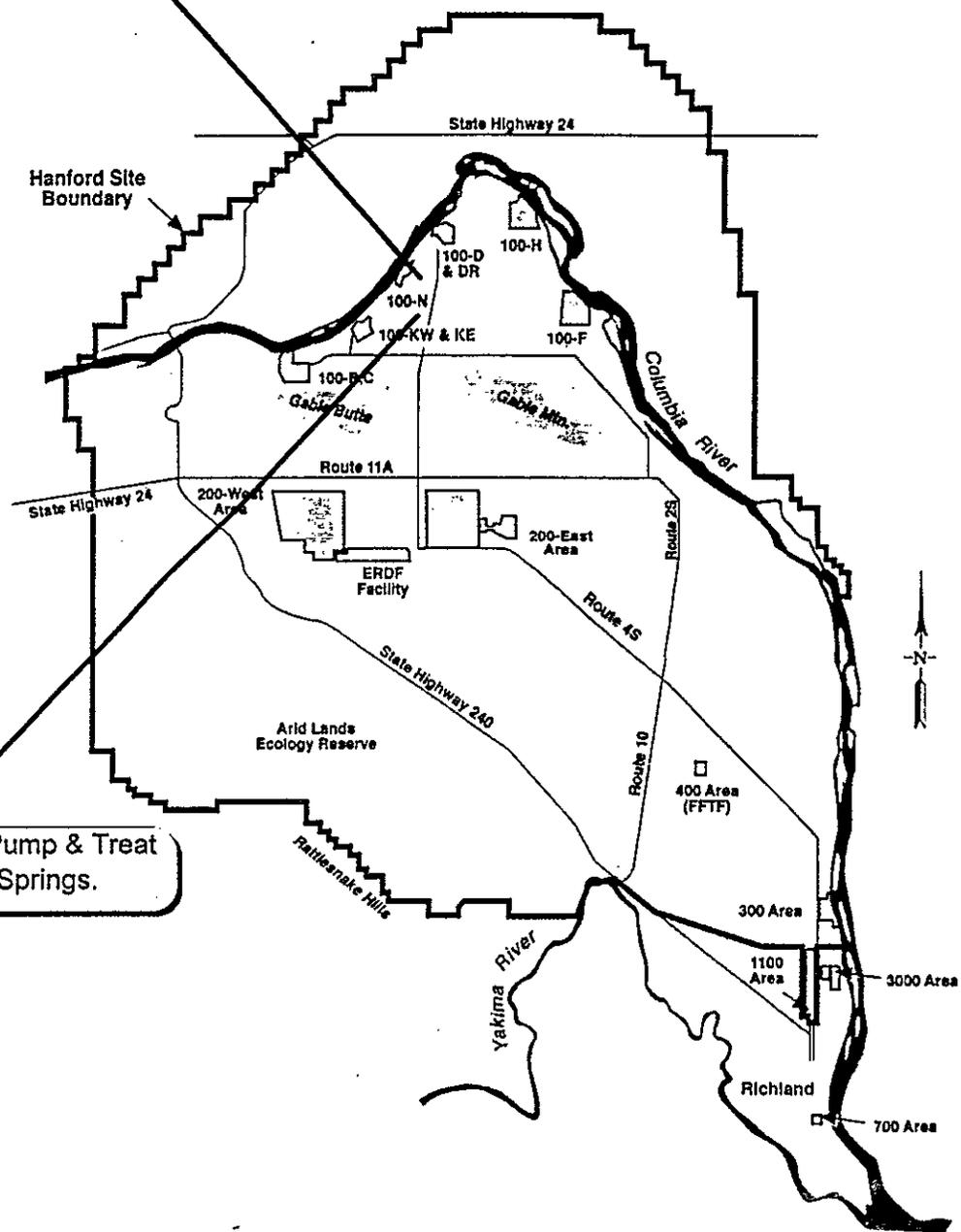
Target Funding
Level: \$1.544M

Strategy

Conduct CERCLA
groundwater monitoring.

Actions

Continue 24 hour Pump & Treat
operations at 100-NR Springs.

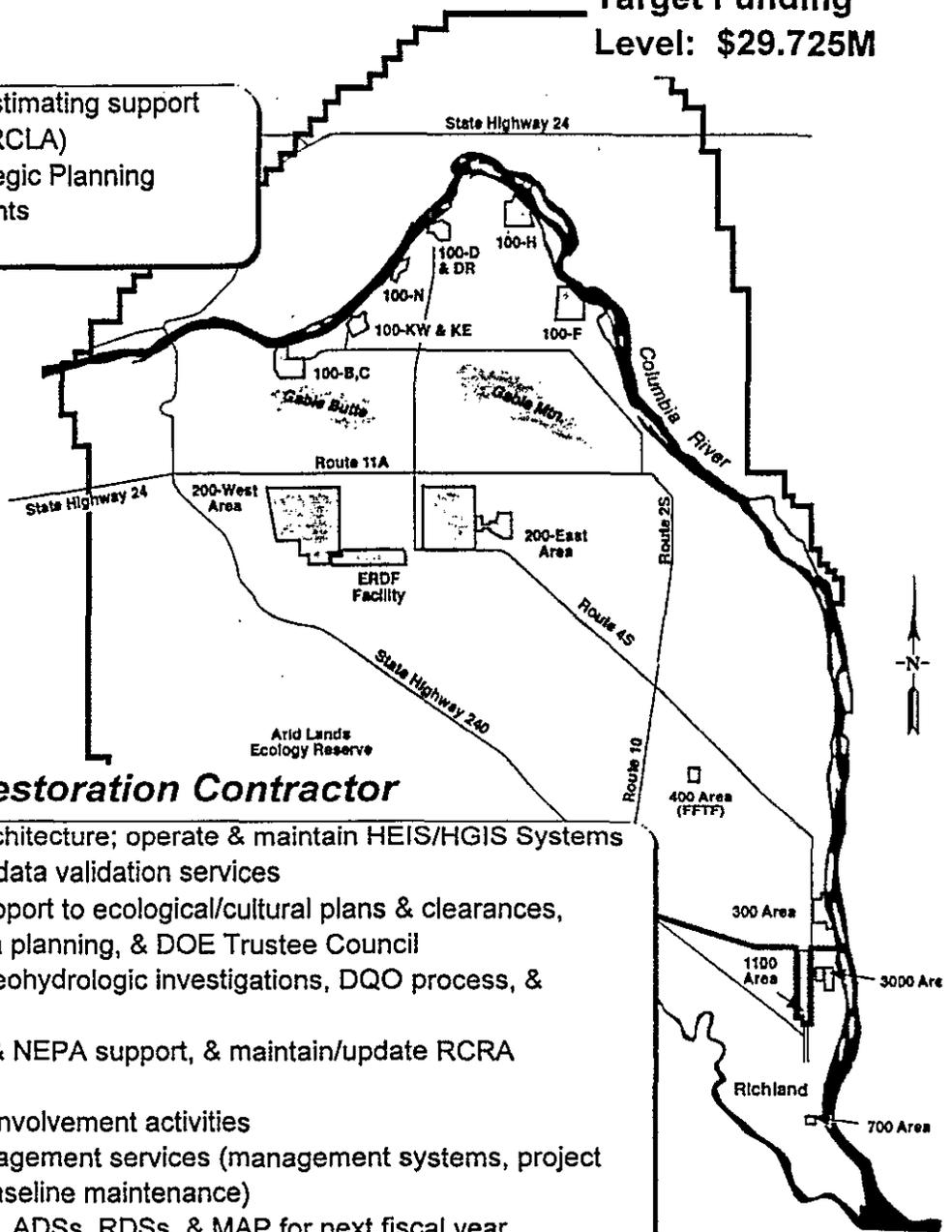


FY 1997 Action Plan

Target Funding
Level: \$29.725M

DOE - RL

- Independent cost estimating support
- Ecology Grant (CERCLA)
- ER & Hanford Strategic Planning
- Sitewide Assessments
- PNNL VROF



Environmental Restoration Contractor

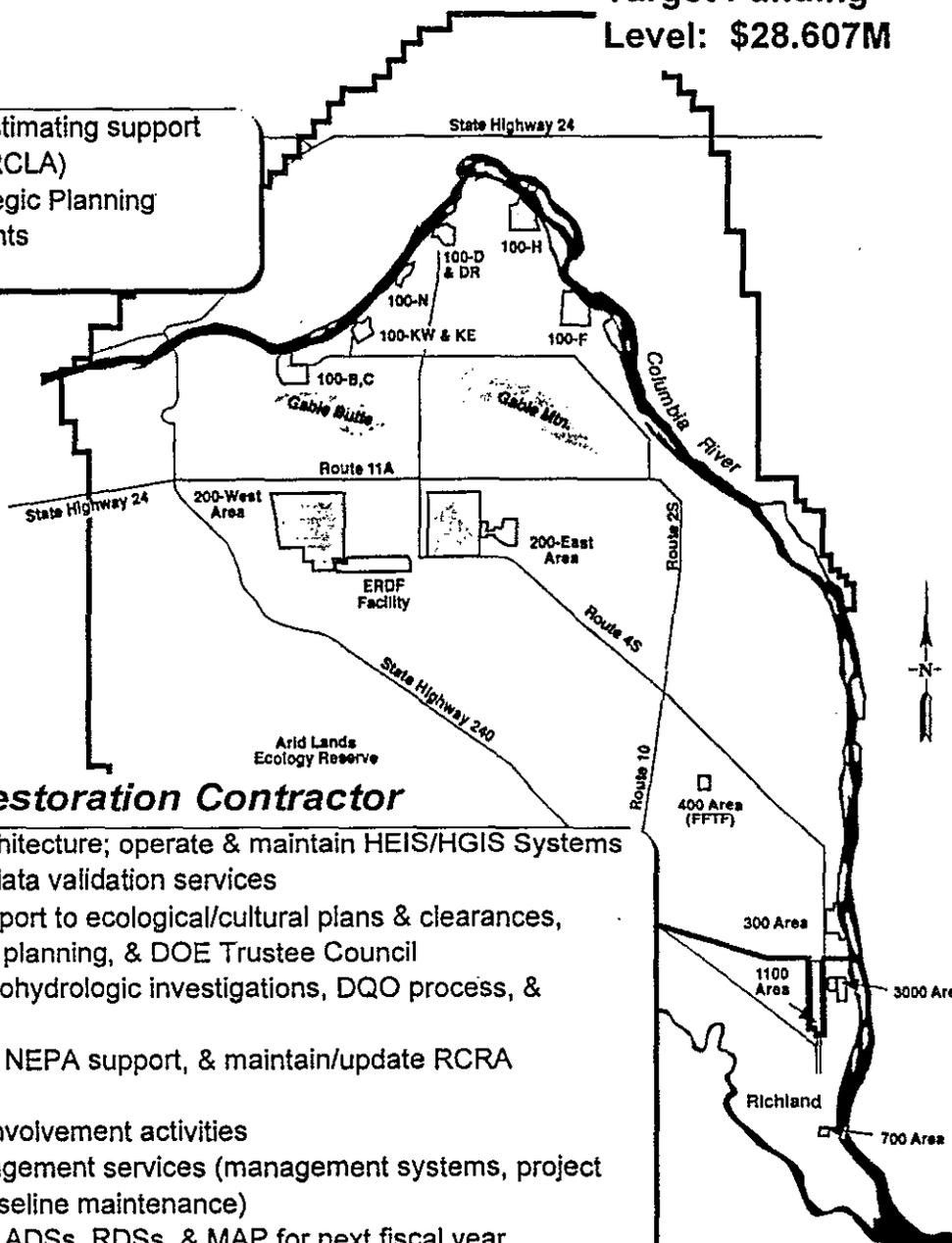
- Complete HEIS rearchitecture; operate & maintain HEIS/HGIS Systems
- Provide analytical & data validation services
- Provide technical support to ecological/cultural plans & clearances, restoration/vegetation planning, & DOE Trustee Council
- Provide support to geohydrologic investigations, DQO process, & sitewide background
- Provide Regulatory & NEPA support, & maintain/update RCRA permits
- Participate in public involvement activities
- Perform project management services (management systems, project controls, reporting, baseline maintenance)
- Prepare MYPP, LRP, ADSs, RDSs, & MAP for next fiscal year
- Maintain ERC Quality, Safety & Health Program
- Complete twenty-four Environmental Compliance Assessments
- Maintain automated Procurement Tracking System (PTS), small business program, and continue Value Based Self Assessment
- Identify and evaluate innovative technologies, prioritize technology needs, and communicate technology information and activities

FY 1998 Action Plan

Target Funding Level: \$28.607M

DOE - RL

- Independent cost estimating support
- Ecology Grant (CERCLA)
- ER & Hanford Strategic Planning
- Sitewide Assessments
- PNNL VROF



Environmental Restoration Contractor

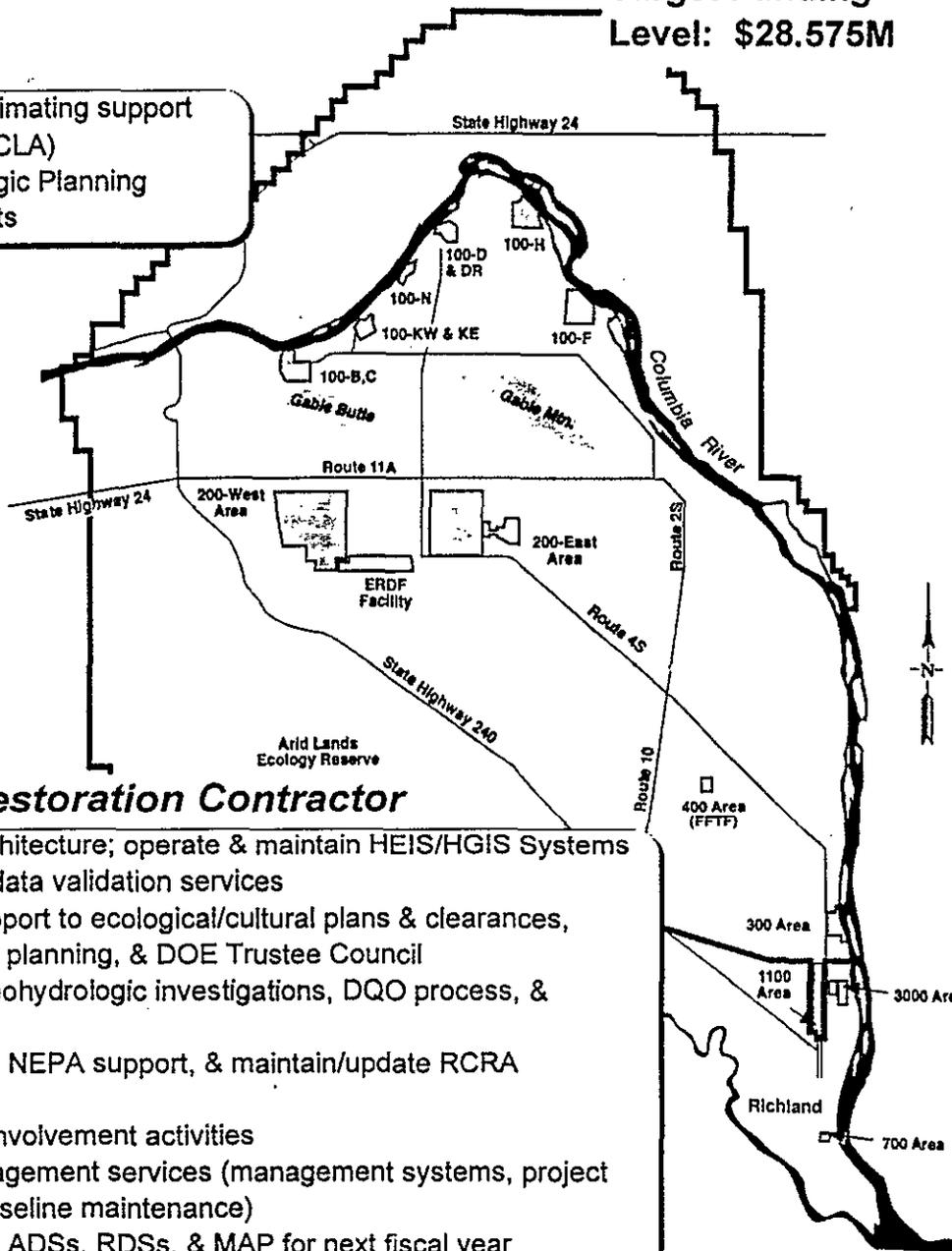
- Complete HEIS rearchitecture; operate & maintain HEIS/HGIS Systems
- Provide analytical & data validation services
- Provide technical support to ecological/cultural plans & clearances, restoration/vegetation planning, & DOE Trustee Council
- Provide support to geohydrologic investigations, DQO process, & sitewide background
- Provide Regulatory & NEPA support, & maintain/update RCRA permits
- Participate in public involvement activities
- Perform project management services (management systems, project controls, reporting, baseline maintenance)
- Prepare MYPP, LRP, ADSs, RDSs, & MAP for next fiscal year
- Maintain ERC Quality, Safety & Health Program
- Complete twenty-four Environmental Compliance Assessments
- Maintain automated Procurement Tracking System (PTS), small business program, and continue Value Based Self Assessment
- identify and evaluate innovative technologies, prioritize technology needs, and communicate technology information and activities

FY 1999 Action Plan

Target Funding Level: \$28.575M

DOE - RL

- Independent cost estimating support
- Ecology Grant (CERCLA)
- ER & Hanford Strategic Planning
- Sitewide Assessments



Environmental Restoration Contractor

- Complete HEIS rearchitecture; operate & maintain HEIS/HGIS Systems
- Provide analytical & data validation services
- Provide technical support to ecological/cultural plans & clearances, restoration/vegetation planning, & DOE Trustee Council
- Provide support to geohydrologic investigations, DQO process, & sitewide background
- Provide Regulatory & NEPA support, & maintain/update RCRA permits
- Participate in public involvement activities
- Perform project management services (management systems, project controls, reporting, baseline maintenance)
- Prepare MYPP, LRP, ADSs, RDSs, & MAP for next fiscal year
- Maintain ERC Quality, Safety & Health Program
- Complete twenty-four Environmental Compliance Assessments
- Maintain automated Procurement Tracking System (PTS), small business program, and continue Value Based Self Assessment
- Identify and evaluate innovative technologies, prioritize technology needs, and communicate technology information and activities

TPA Milestones

Existing TPA Milestones

The target funding is adequate to meet the near term TPA milestones, with the exception of the 200 Area work plan milestones.

The 2018 completion of remedial actions remains achievable, but will require identification of additional efficiencies and productivities.

Milestones at Risk

200 Area Strategy

A remediation strategy for the 200 Area is currently being developed by the Regulators and ER Team. Revisions to 200 Area milestones will be addressed after agreement is reached on the strategy. Milestones will need to be developed based on overall ER Project priorities.

100 NR Remedial Actions

Current plans indicate that a Record of Decision could be signed in FY 1997. Milestones will need to be developed based on overall ER Project priorities.

Milestones at Risk

CRCIA

The Columbia River Comprehensive Impact Assessment (CRCIA) Team is currently examining potential actions that would be required for a comprehensive impact assessment. Milestones will need to be developed based on overall ER Project priorities.

Requested Actions

Review MYWP process and FY 97 -FY 99 scope for feedback meeting in mid-June

Reference Information

Richland Environmental Restoration Project

Funding Targets by Project

Project	Project Target (\$1000)			
	FY 96	FY 97	FY 98	FY 99
Remedial Action	22,234	27,940	38,031	35,830
ERDF	15,602	15,242	15,492	24,079
Groundwater	28,020	15,295	25,670	25,639
LT S&M	92	222	217	217
D&D	20,126	24,707	35,729	29,119
N Area	35,232	17,668	1,257	1,544
Program Management & Support	33,769	29,725	28,607	28,575
Total	155,075	130,799	145,003	145,003

Richland Environmental Restoration Project

Funding Targets by ADS

ADS Number	Description	Target Case (\$1000)			
		FY 96	FY 97	FY 98	FY 99
3020	RCRA Closures	1314	-	-	-
3100	100 Area Source Remedial Action	15,570	20,196	25,053	28,887
3110	100 Area Groundwater Remedial Action	11,912	9,095	4,384	4,379
3115	Hanford Site Groundwater Management	-	1,093	16,415	16,395
3125	100 NR Remedial Actions	8,605	2,987	1,257	1,544
3200	200 Area Source Remedial Actions	1,116	1,455	1,329	712
3210	200 Area Groundwater Remedial Actions	16,108	5,107	4,871	4,865
3300	300 Area Remedial Actions	3,893	6,289	11,649	6,231
3390	1100-EM Remedial Actions	161	-	-	-
3400	ERC Program Management and Support	25,469	21,405	20,605	22,330
3410	RL Program Management	8,300	8,320	8,002	6,245
3500	Surveillance and Maintenance	13,234	10,628	14,686	14,669
3510	Decontamination and Decommissioning	6,902	14,079	21,043	14,450
3600	N Reactor Deactivation	26,627	14,681	-	-
3700	ER Disposal Facility	15,602	15,242	15,492	24,079
3800	Post Remediation Surveillance and Maintenance	92	222	217	217
	Total	155,075	130,799	145,003	145,003

**Risk Data Sheet Structure by ADS Number
(FY 97 - 99 Multi-Year Work Plan)**

ADS Number		Risk Data Sheet Structure Description	Target Case Allocation by RDS Structure			
New	RDS #		FY 96	FY 97	FY 98	FY 99
3020-0		RCRA Closures	1,314			
		3020-0 Total	1,314	-	-	-
3100-0	R96N0076	100-DR Soil Remediation	1,752	3,462	11,946	15,864
3100-0	R96N0077	100-BC Soil Remediation	12,097	14,786	12,888	6,610
3100-0	R96N0078	100-KR Soil Remediation				
3100-0	R96N0079	100-FR Soil Remediation				
3100-0	R96N0080	100-HR Soil Remediation	1,901	1,948	219	6,413
		3100-0 Total	15,750	20,196	25,053	28,887
3110-0	R96N0072	100-KR-4 Groundwater Remediation/Pump & Treat	1,073	5,404	2,192	2,190
3110-0	R96N0074	100-HR-3 Groundwater Remediation/Pump & Treat	10,060	3,691	2,192	2,189
3110-0		GW Monitoring 100 BC	320			
3110-0		GW Monitoring 100 FR	459			
		3110-0 Total	11,912	9,095	4,384	4,379
3115-0	R96N0071	Min Safe - GW Monitoring 100 BC		510	500	499
3115-0	R96N0073	Min Safe - GW Monitoring 100 FR		583	571	570
3115-0	R96N0251	Min Safe Groundwater Management			13,152	13,137
3115-0	R96N0252	Min Safe - Well Decommissioning			2,192	2,189
3115-0	TBD	Seismic Monitoring				
		3115-0 Total	-	1,093	16,415	16,395
3125-0	R96N0075	100-NR-2 Groundwater Remediation/ERA/Pump & Treat	8,605	2,987	1,126	1,127
3125-0	R96N0081	100-NR Soil Remediation			131	417
		3125-0 Total	8,605	2,987	1,257	1,544
3200-0	R96N0087	200-BP Soil Remediation	571	1,455	1,329	712
3200-0	R96N0088	200-ZP Soil Remediation	545			
3200-0	R96N0138	200-PO Soil Remediation				
		3200-0 Total	1,116	1,455	1,329	712
3210-0	R96N0086	200-UP-1 Groundwater/Pump & Treat	4,430	1,783	1,750	1,748
3210-0	R96N0137	200-ZP-1 P&T Operations/ZP-2 Carbon Tet.	10,618	3,324	3,121	3,117
3210-0		200-BP-5 Groundwater	306			
3210-0		200-PO-1 Groundwater	754			
		3210-0 Total	16,108	5,107	4,871	4,865
3300-0	R96N0082	300-FF Soil Remedial Design/Remedial Action	3,893	6,289	11,649	6,231
3300-0	R96N0083	300-FF GW Remedial Design/Remedial Action				
		3300-0 Total	3,893	6,289	11,649	6,231
3390-0		EM-1100 RA	161			
		3390-0 Total	161	-	-	-
3400-0	R95B0024	Min Safe Program Management & Support (15%)*	1,516	3,210	1,216	3,350
3400-0	R96N0136	Program Management & Support-Remedial Action (65%)	16,625	13,914	13,393	14,514
3400-0	R96N0235	Program Management & Support D&D (20%)*	7,328	4,281	5,996	4,466
		3400-0 Total	25,469	21,405	20,605	22,330
3410-0	R95B0025	Program Mangement & Support-RL	8,300	8,320	8,002	6,245
		3410-0 Total	8,300	8,320	8,002	6,245
3500-0	R95B0002	Min Safe Radiation Area Remedial Action	3,970	3,356	3,836	3,831
3500-0	R95B0029	Min Safe 300 Area S&M			438	438
3500-0	R96N0090	Min Safe 100 Area S&M	4,819	3,636	5,644	5,638
3500-0	R96N0091	Min Safe 200 Area S&M	4,435	3,636	4,768	4,762
		3500-0 Total	13,224	10,628	14,686	14,669
3510-0	R95B0026	Min Safe Asbestos Abatement	1,832	112	110	
3510-0	R95B0027	100 Area D&D Remedial Action	4,052	11,612	11,466	10,648
3510-0	R95B0028	200 Area D&D Remedial Action	1,018	2,355	9,467	3,802
		3510-0 Total	6,902	14,079	21,043	14,450
3600-0	N/A	N-Reactor Building/System Deactivation; N Basin Cleanout	26,627	14,681		
		3600-0 Total	26,627	14,681	-	-
3700-0	R95B0031	ER Disposal Facility: Long-Term Disposal/Operations of Facility	15,602	15,242	15,492	24,079
		3700-0 Total	15,602	15,242	15,492	24,079
3800-0	R95B0032	Min Safe Post-Remediation S&M	92	222	217	217
		3800-0 Total	92	222	217	217
		Environmental Restoration Contract Total	155,075	130,799	145,003	145,003

*In FY98, the percentages are 6% and 29% respectively.

**Risk Data Sheet Structure by Project Area
(FY 97 - 99 Multi-Year Work Plan)**

ADS Number		Risk Data Sheet Structure Description	Target Case Allocation by RDS Structure			
New	RDS #		FY 96	FY 97	FY 98	FY 99
3110-0	R96N0072	100-KR-4 Groundwater Remediation/Pump & Treat	1,073	5,404	2,192	2,190
3110-0	R96N0074	100-HR-3 Groundwater Remediation/Pump & Treat	10,060	3,691	2,192	2,189
3110-0		GW Monitoring 100 BC	320			
3110-0		GW Monitoring 100 FR	459			
3210-0	R96N0086	200-UP-1 Groundwater/Pump & Treat	4,430	1,783	1,750	1,748
3210-0	R96N0137	200-ZP-1 P&T Operations/ZP-2 Carbon Tet.	10,618	3,324	3,121	3,117
3210-0		200-BP-5 Groundwater	306			
3210-0		200-PO-1 Groundwater	754			
		Groundwater Remedial Actions Total	28,020	14,202	9,255	9,244
3100-0	R96N0076	100-DR Soil Remediation	1,752	3,462	11,946	15,864
3100-0	R96N0077	100-BC Soil Remediation	12,097	14,786	12,888	6,610
3100-0	R96N0078	100-KR Soil Remediation				
3100-0	R96N0079	100-FR Soil Remediation				
3100-0	R96N0080	100-HR Soil Remediation	1,901	1,948	219	6,413
3200-0	R96N0087	200-BP Soil Remediation	571	1,455	1,329	712
3200-0	R96N0088	200-ZP Soil Remediation	545			
3200-0	R96N0138	200-PO Soil Remediation				
3300-0	R96N0082	300-FF Soil Remedial Design/Remedial Action	3,893	6,289	11,649	6,231
3300-0	R96N0083	300-FF GW Remedial Design/Remedial Action				
3390-0		EM-1100 RA	161			
		Source Remedial Actions Total	20,920	27,940	38,031	35,830
3115-0	R96N0071	Min Safe - GW Monitoring 100 BC		510	500	499
3115-0	R96N0073	Min Safe - GW Monitoring 100 FR		583	571	570
3115-0	R96N0251	Min Safe Groundwater Management			13,152	13,137
3115-0	R96N0252	Min Safe - Well Decommissioning			2,192	2,189
3115-0	TBD	Seismic Monitoring				
		Groundwater Management Total	-	1,093	16,415	16,395
3125-0	R96N0075	100-NR-2 Groundwater Remediation/ERA/Pump & Treat	8,605	2,987	1,126	1,127
3125-0	R96N0081	100-NR Soil Remediation			131	417
3600-0	N/A	N-Reactor Building/System Deactivation; N Basin Cleanout	26,627	14,681		
		N Area Project Total	35,232	17,668	1,257	1,544
3700-0	R95B0031	ER Disposal Facility: Long-Term Disposal/Operations of Facility	15,602	15,242	15,492	24,079
		ER Disposal Facility Total	15,602	15,242	15,492	24,079
3500-0	R95B0002	Min Safe Radiation Area Remedial Action	3,970	3,356	3,836	3,831
3500-0	R95B0029	Min Safe 300 Area S&M			438	438
3500-0	R96N0090	Min Safe 100 Area S&M	4,819	3,636	5,644	5,638
3500-0	R96N0091	Min Safe 200 Area S&M	4,435	3,636	4,768	4,762
3510-0	R95B0026	Min Safe Asbestos Abatement	1,832	112	110	
3510-0	R95B0027	100 Area D&D Remedial Action	4,052	11,612	11,466	10,648
3510-0	R95B0028	200 Area D&D Remedial Action	1,018	2,355	9,467	3,802
		Decontamination & Decommissioning Total	20,126	24,707	35,729	29,119
3410-0	R95B0025	Program Mangement & Support-RL	8,300	8,320	8,002	6,245
		RL Program Management & Support Total	8,300	8,320	8,002	6,245
3400-0	R95B0024	Min Safe Program Management & Support (15%)*	1,516	3,210	1,216	3,350
3400-0	R96N0136	Program Management & Support-Remedial Action (65%)	16,625	13,914	13,393	14,514
3400-0	R96N0235	Program Management & Support D&D (20%)*	7,328	4,281	5,996	4,466
		ERC Program Management & Support Total	25,469	21,405	20,605	22,330
3800-0	R95B0032	Min Safe Post-Remediation S&M	92	222	217	217
		Post Remediation Surveillance & Monitoring Total	92	222	217	217
3020-0		RCRA Closures	1,314			
		RCRA Closures Total	1,314	-	-	-
		Environmental Restoration Contract Total	155,075	130,799	145,003	145,003

*In FY98, the percentages are 6% and 29% respectively.

**Richland Environmental Restoration Project
ADS Restructure Crosswalk - February 1996**

New ADS (RL-xxxx-0)	Old ADS / Scope
Remedial Actions	
1. 3100 - 100 Area Source Remedial Action	3100 - 100 DR Remedial Action <i>[Entire]</i> 3105 - 100 BC Remedial Action <i>[Source only]</i> 3110 - 100 KR Remedial Action <i>[Source only]</i> 3115 - 100 FR Remedial Action <i>[Source only]</i> 3120 - 100 HR Remedial Action <i>[Source only]</i>
2. 3110 - 100 Area Groundwater Remedial Action	3105 - 100 BC Remedial Action <i>[GW RA only]</i> 3110 - 100 KR Remedial Action <i>[GW RA only]</i> 3115 - 100 FR Remedial Action <i>[GW RA only]</i> 3120 - 100 HR Remedial Action <i>[GW RA only]</i>
3. 3115 - Hanford Site Groundwater Management	3105 - 100 BC RA <i>[GW Monitoring only]</i> 3110 - 100 KR RA <i>[GW Monitoring only]</i> 3115 - 100 FR RA <i>[GW Monitoring only]</i> 3120 - 100 HR RA <i>[GW Monitoring only]</i> 7340-0 (EM-30) - RCRA GW Monitoring, Well Decommissioning & Maintenance, & Seismic Monitoring 8500-0 (EM-30) - Sitewide GW Surveillance
<i>[Scope transfers from EM-30 are effective in FY 1998.]</i>	
4. 3125 - 100 NR Remedial Actions	3125 - 100 NR Remedial Action <i>[Entire]</i>
5. 3200 - 200 Area Source Remedial Action	3200 - 200 BP Remedial Action <i>[Source only]</i> 3205 - 200 NO Remedial Action <i>[Entire]</i> 3210 - 200 PO Remedial Action <i>[Source only]</i> 3215 - 200 RO Remedial Action <i>[Entire]</i> 3220 - 200 SO Remedial Action <i>[Entire]</i> 3225 - 200 TP Remedial Action <i>[Entire]</i> 3230 - 200 UP Remedial Action <i>[Source only]</i> 3235 - 200 ZP Remedial Action <i>[Source only]</i> 3240 - 200 IU Remedial Action <i>[Entire]</i> 3245 - 200 SS Remedial Action <i>[Entire]</i>
6. 3210 - 200 Area Groundwater Remedial Action	3200 - 200 BP Remedial Action <i>[GW RA only]</i> 3210 - 200 PO Remedial Action <i>[GW RA only]</i> 3230 - 200 UP Remedial Action <i>[GW RA only]</i> 3235 - 200 ZP RA <i>[GW RA & Carbon Tet only]</i> 3250 - 200 East GW (not used in prior years) 3255 - 200 West GW (not used in prior years)
7. 3300 - 300 Area Remedial Actions	3300 - 300 FF Remedial Action <i>[Entire]</i>
Program Management & Support	
8. 3400 - ERC Program Management & Support	3400 - Program Mgt Support <i>[Entire]</i>
9. 3410 - RL Program Management	3410 - RL Program Management <i>[Entire]</i>

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**Richland Environmental Restoration Project
ADS Restructure Crosswalk - February 1996**

New ADS (RL-xxxx-0)	Old ADS / Scope
Decontamination & Decommissioning	
10. 3500 - Surveillance & Maintenance	3010 - RARA/USTs <i>[Entire]</i> 3510 - 100 AREA D&D <i>[S&M Only]</i> 3520 - 200 AREA D&D <i>[S&M Only]</i> 3530 - 300 AREA D&D <i>[S&M Only]</i>
11. 3510 - Decontamination & Decommissioning	3500 - Asbestos Abatement <i>[Entire]</i> 3510 - 100 AREA D&D <i>[D&D Only]</i> 3520 - 200 AREA D&D <i>[D&D Only]</i> 3530 - 300 AREA D&D <i>[D&D Only]</i>
12. 3600 - N Reactor Deactivation	3600 - N Reactor <i>[Entire]</i>
Disposal Facilities	
13. 3700 - ER Disposal Facility	3700 - Disposal Facility <i>[Entire]</i>
Long-Term S&M	
14. 3800 - Post-Remediation S&M	3800 - Facility Surveillance & Maintenance <i>[Entire]</i>
Maintained for Historical Purposes Only (All Remedial Actions)	
15. 3000 - Single Shell Tanks	3000 - Single Shell Tanks
16. 3020 - RCRA Closures	3020 - RCRA Closures
17. 3390 - 1100 Area Remedial Action	3390 - 1100 EM Remedial Action
To Be Eliminated from the Richland ER Project ADS Structure	
18. 3010 - RARA/USTs	
19. 3105 - 100 BC Remedial Action	
20. 3120 - 100 HR Remedial Action	
21. 3205 - 200 NO Remedial Action	
22. 3215 - 200 RO Remedial Action	
23. 3220 - 200 SO Remedial Action	
24. 3225 - 200 TP Remedial Action	
25. 3230 - 200 UP Remedial Action	
26. 3235 - 200 ZP Remedial Action	
27. 3240 - 200 IU Remedial Action	
28. 3245 - 200 SS Remedial Action	
29. 3250 - 200 East Groundwater	
30. 3255 - 200 West Groundwater	
31. 3520 - 200 AREA D&D	
32. 3530 - 300 AREA D&D	

RICHLAND ENVIRONMENTAL RESTORATION PROJECT

200 AREA CANYON DISPOSITION PROJECT

D&D PROJECT REVIEW

APRIL 1996

Presented by:
R. P. Henckel, ERC Team



200 Area Canyon Disposition

- *Project Description*
 - ▶ Develop an approach for addressing long-term disposition of the five processing facilities (canyons). The approach will evaluate the appropriate regulatory pathway, identify technical data gaps and technological enhancements, and analyze the strengths and weaknesses of alternatives.
- *Deliverables*
 - ▶ Project Management Plan that describes how the Project will be conducted this fiscal year.
 - ▶ Strategic Plan that describes the path forward for the disposition of the canyon facilities.
- *Project Team*
 - ▶ D&D Task Lead, D&D Environmental Lead, DOE-RL Project Manager, WHC Transition Project (WHC-TrP) Task Lead, Regulators, ERC Functional Support as required.

General Approach

- Conduct a series of workshops with the regulators to discuss canyon disposition. Possibly tie into the 200 Area Strategy Team as they finish up
- Focus on time critical alternatives (entombment with internal/external waste disposal)
- Identify areas of concerns and issues by the regulators to focus further actions to resolve the specific issues while proceeding on the chosen regulatory pathway.

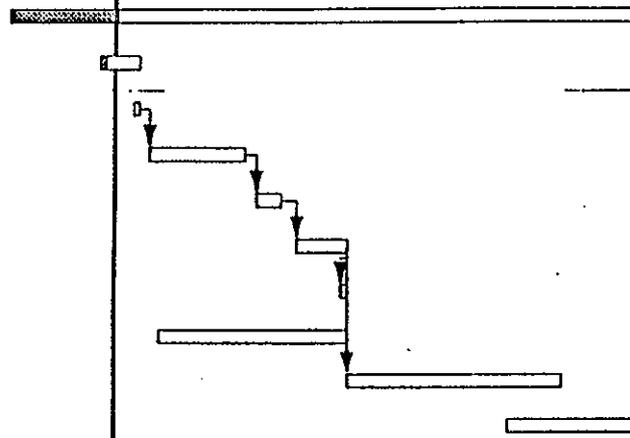
Project Status

- Scheduled weekly interface meetings with WHC-TrP
- Developed Scope Statement and Charter for RL review
- Developed Project Management Plan for RL review
- Preparing Source Book for workshops with the regulators. (Incorporating lessons learned from the 200 Area Strategy workshops)
- Initiating discussions with the Regulators for conducting workshops.

Issues

- Project is not currently on the regulators viewing screen
- Waste disposal of TRU material
- General feeling on the timing of this effort in relation to moving dirt due to current Long Range Plan schedule for addressing canyon facilities.

Activity Description	%	Early Start	Early Finish	OD	RD	1996					
						MAR	APR	MAY	JUN	JUL	AUG
ROBERT HENCKEL											
200 AREA CANYON STRATEGY											
200 AREA CANYON STRATEGY (UEC21)											
200 AREA CANYON STRATEGY	12	01APR96A	30SEP96	127*	112*						
PREPARE CHARTER AND SCOPE STATEMENT	17	19APR96A	26APR96	6	5						
DOE APPROVAL	0	26APR96*	26APR96	1	1						
DRAFT PROJECT MANAGEMENT PLAN	0	29APR96*	17MAY96	15	15						
DOE REVIEW	0	20MAY96	24MAY96	5	5						
FINALIZE PROJECT MANAGEMENT PLAN	0	28MAY96	06JUN96	8	8						
DOE APPROVAL OF PROJECT MANAGEMENT PLAN	0	06JUN96	06JUN96	1	1						
PREPARE MATLS FOR WORKSHOP	0	01MAY96*	06JUN96	26	26						
INITIATE STRATEGY WORKSHOPS	0	07JUN96	18JUL96	28	28						
PREPARE STRATEGIC PLAN	0	08JUL96*	02AUG96	20	20						



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1996					
MAR	APR	MAY	JUN	JUL	AUG

Project Start	01APR96	Early Bar
Project Finish	30SEP96	TRST
Date Date	23APR96	Progress Bar
Plot Date	13MAY96	Critical Activity

APPLICANT

ERC TEAM
200 AREA CANYON DISPOSITION
D&D PROJECTS

Sheet 1 of 1

Date	By	Checked/Approved
5/1/96	W.C. Henckel	
5/1/96	W.C. Henckel	

300-FF5 BOUNDARY

ISSUE: REDUCE 300-FF5 BOUNDARY TO 300-FF1 BOUNDARY FOR FINAL ROD

FACTS:

- **SIZE OF 300-FF5 \approx 1119 ACRES**
SIZE OF 300-FF1 \approx 117 ACRES
(\approx 90% REDUCTION IN SIZE)
(EXISTING PLUME WILL DIVIDED IN HALF)

- **EFFORT TOOK 6 YEARS AND \$18,000,000**
300-FF5 GW HAS BEEN CHARACTERIZED (CERCLA PROCESS)
(INSTALLED 17 NEW WELLS)

- **300-FF2:**
SOURCES HAVE BEEN IDENTIFIED (22 RCRA SOURCES)
LFI IS SCHEDULED TO BE OUT IN SEPT-1996 (TPA)

- **618-10 CONCERNS:**
THIS GW IS NOT PART OF 300-FF5
THIS GRADIENT HAS A 90% CHANCE OF MISSING 300-FF5
SITE > 5 MILES FROM 300-FF5
(GW FLOW \approx 50 FT/YR, WOULD TAKE > 500 YRS)

300-FF5 BOUNDARY

CONCERNS:

- **EXISTING IDENTIFIED PLUME DIVIDED IN HALF**

- **GO BACK FOR PUBLIC COMMENT**
(> 30 DAYS, HOA)

- **WILL REQUIRE ADDITIONAL CHARACTERIZATION**
(INCREASE COST AND SCHEDULE)

- **WILL MISS 300-FF2, LFI, TPA MILESTONE (SEPT, 96)**

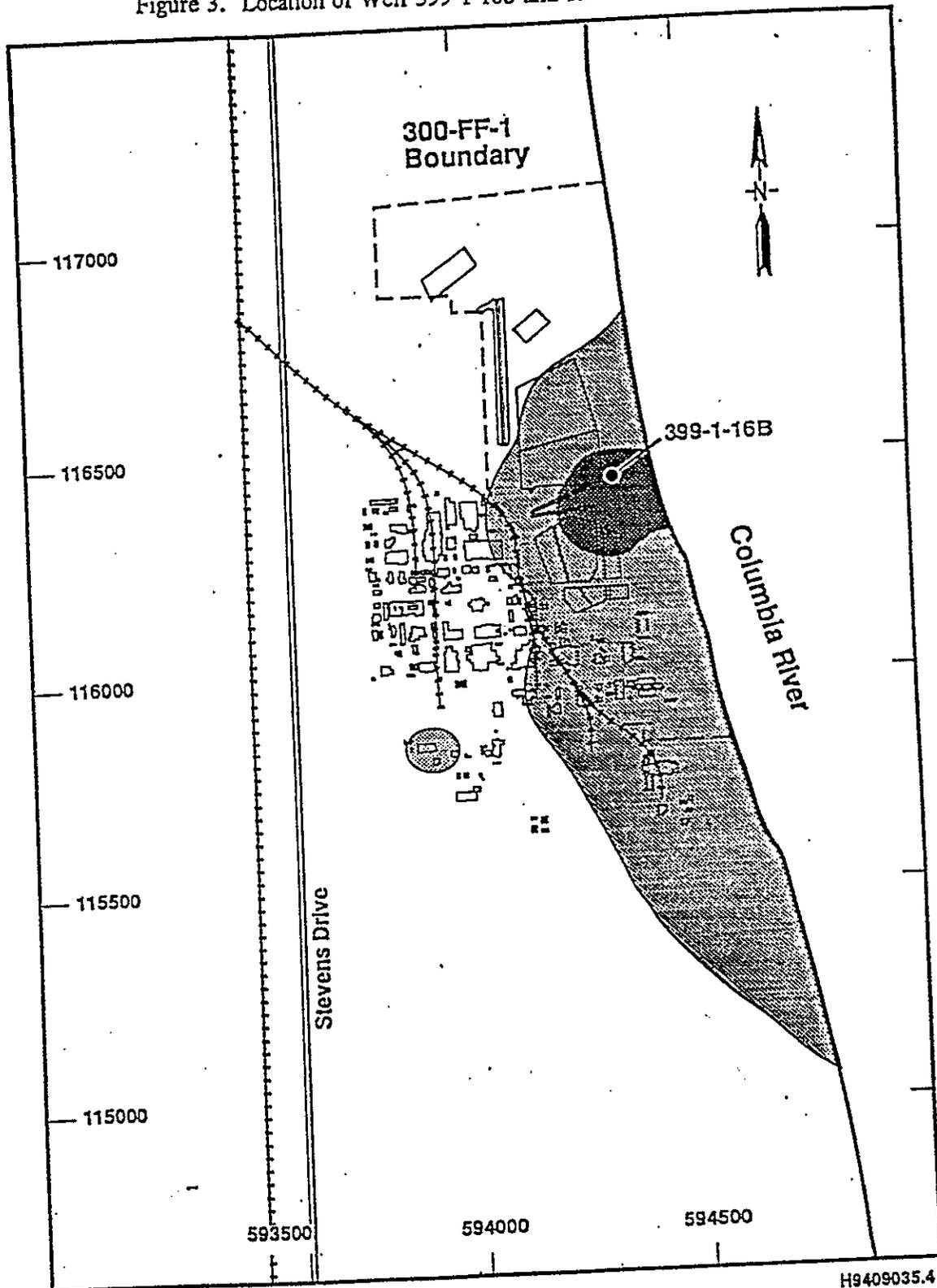
- **DOE-HQ, WILL REQUIRE JUSTIFICATION**

300-FF5 BOUNDARY

RECOMMENDATIONS:

- GIVE DOE AND REGULATORS CREDIT FOR WORK AND \$ SPENT
- ISSUE INTERIM ROD FOR 300-FF5, UNDER ORIGINAL BOUNDARY

Figure 3. Location of Well 399-1-16b and Remediation Areas.



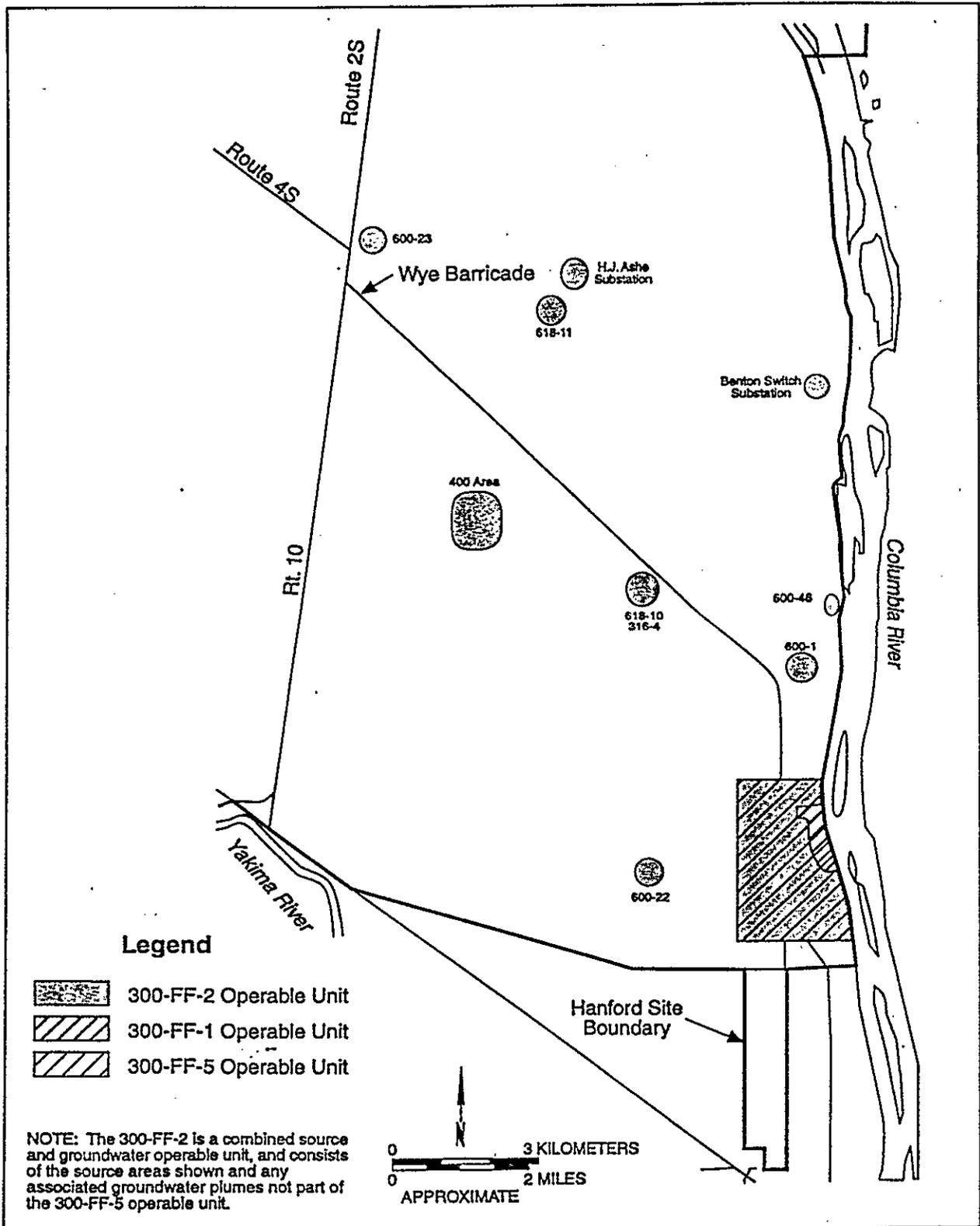
Higher Concentration Selective Remediation Area

Lower Concentration Extensive Remediation Area

● Well 399-1-16B

Note: Coordinates are in meters and conform to the Lambert Coordinate System (NAD83).

Figure 1-2. Locations of the 300 Area Operable Units.



923 E422.100/40744/10-26-94
 E9508079.1

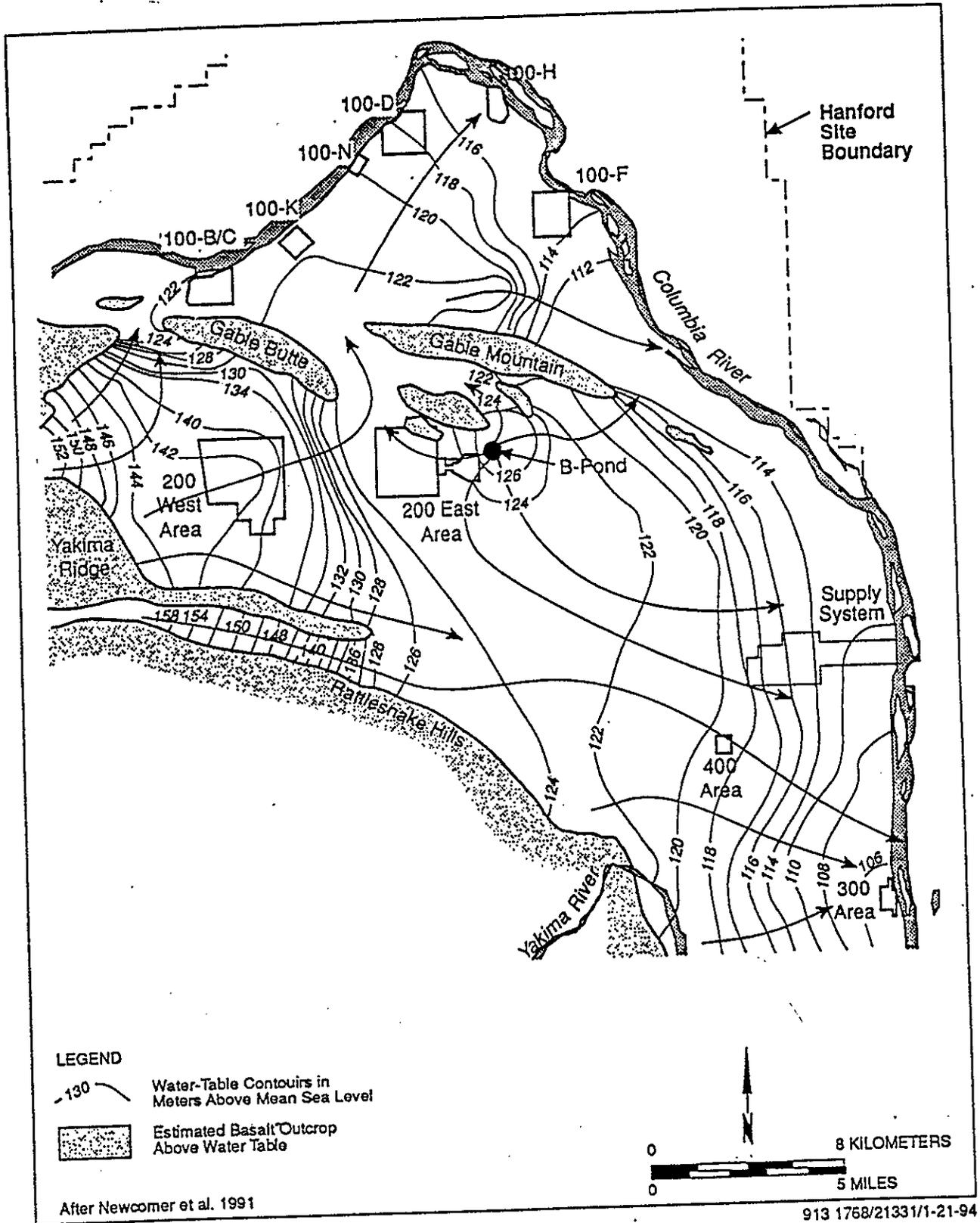


Figure 3-22. Water-Table Elevations for the Hanford Site Unconfined Aquifer in 1990.

PUREX TRANSITION PROJECT UPDATE
M-80 TRI-PARTY AGREEMENT MILESTONE

May 28, 1996

PROGRAM MANAGER'S ASSESSMENT

WBS Program	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
7.1.1 PUREX	□	■	■ +	■	■	

■ Outstanding □ Good ◇ Satisfactory ○ Marginal ● Unsatisfactory + Improved from Last Month - Worsened from Last Month ↑ Improved Future Outlook ↓ Worsened Future Outlook

STATUS OF HAZARD REDUCTION

- Completed decontamination of and equipment removal from N Cell gloveboxes. Painting and sealing gloveports of last gloveboxes in progress.
- Completed five of six shipments of contaminated organic to Tennessee
- Completed shipments of contaminated nitric acid to BNFL in England
- Shipped 3.1 metric tons of aluminum clad and zircaloy clad fuel to 105-KW Basins for storage
- Completed flushing 16 of 18 PUREX systems to non-hazardous conditions

FUTURE M-80 TPA MILESTONES

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ECD
M-80-02- <i>T02</i>	Submit the end point criteria and Surveillance & Maintenance Plan in support of the PUREX preclosure work plan	July 1996	July 1996
M-80-00-T06	Complete deactivation of the PUREX Plant 211-A Area	April 1997	Sept. 1996
M-80-04	Complete deactivation of the PUREX Plant U Cell/ Fractionator	April 1997	Sept. 1996
M-80-00-T07	Complete deactivation of the PUREX Plant sample gallery	June 1997	Dec. 1996

FUTURE M-80 TPA MILESTONES

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ECD
M-80-05	Complete deactivation of the PUREX Plant aqueous makeup area	June 1997	Nov. 1996
M-80-06	Complete deactivation of the PUREX Plant canyon	June 1997	Aug. 1996
M-80-07	Complete deactivation of the PUREX Plant 203-A Area	April 1998	Nov. 1996
M-80-00	Complete PUREX and UO3 Plant's transition phase and initiate the surveillance & maintenance phase	July 1998	Sept. 1997

FUTURE M-20 TPA MILESTONE

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ECD
M-20-24A	Submit a PUREX preclosure work plan to EPA and Ecology	July 1996	July 1996

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-00-T01	Issue DOE approved end point criteria for the UO3 Plant	Dec. 1994	Dec. 1994
M-80-01	Complete deactivation of PUREX Plant R Cell	April 1995	April 1995
M-80-00-T02	Complete all UO3 Plant transition activities and initiate Surveillance & Maintenance phase	June 1995	Jan. 1995
M-80-00-T03	Submit options and recommendations for final management of Tank 40 organic material to EPA and/or Ecology	June 1995	June 1995

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-02-T01	Submit proposed end point criteria for transition of PUREX	June 1995	June 1995
M-80-00-T04	Complete removal of concentrated (recovered) 203-A nitric acid at PUREX	June 1996	Dec. 1995
M-80-00-T05	Complete implementation of selected alternative for management of spent fuel from PUREX	Dec. 1996	Dec. 1995
M-80-03	Remove process waste solutions from Tanks D5 and E6	Jan. 1997	April 1995
M-80-02-T02	Submit PUREX Surveillance & Maintenance Plan	May 1996	May 1996

EXPENSE COST PERFORMANCE
(\$ DOLLARS IN THOUSANDS)

PROGRAM ELEMENT WBS & ADS	FISCAL YEAR TO DATE										COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	FYSF	EXPECTED FUNDS FY 1996	PROJECTED CARRYOVER WORKSCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
1KP1 PUREX S & M 7.1.1.1 (6622-0)	12,260	12,237	11,207	(23)	1,030	23,511	21,982	21,982	22,887		
1KP3 - Funds Management											
1KP4 - Transition 7.1.1.4 (6622-0)	9,443	10,036	8,759	593	1,277	18,226	17,630	17,630	18,226		
1KP5 - Compliance 7.1.1.5 (6622-0)	923	923	797	0	126	1,443	1,208	1,208	1,443		
TOTAL	22,626	23,196	20,763	570	2,433	43,180	40,820	40,820	42,556		

EAC is defined as the estimate of what it is going to cost to complete the work as defined by the FYWP and Class I changes.

FYSF is defined as the estimated total that will be spent from October through September.

Expected Funds is defined as total funding guidance expected at fiscal year end (includes anticipated approval of change requests, carryover, reprogramming actions and reserve holdback).

PROJECT TO DATE REPORTING

- Project on schedule and under budget
- Original baseline: 222.5M
- Current baseline:

<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>Total</u>
47.9M	48.0M	43.2M	30.0M	0.6M	169.7M
- Actuals:

42.7M	42.8M	17.8M			
-------	-------	-------	--	--	--
- Estimates:

		41.2M	27.3M	0.6M	<u>EAC</u> 154.6M
--	--	-------	-------	------	----------------------

	Percent FY 1996	Percent Project to Date
Work Scheduled	44.2%	68.2%
Work Completed	45.8%	69.0%
Actual Cost	41.2%	61.8%

- * Project Estimate to Completion \$51.3M
- * Project Completion Date - September 12, 1997

Tri-Party Agreement

Milestone Management Review

Advanced Reactors Transition

O. A. Farabee

PROGRAM MANAGER'S ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H COMPLIANCE	CUSTOMER	TECHNICAL	SCHEDULE	COST	COMMENTS
7.3	ADVANCED REACTORS TRANSITION	■	■	■	■	■	

LEGEND

RATING GRADIENT SYMBOLS

- Outstanding
- Good
- ◇ Satisfactory
- Marginal
- Unsatisfactory

INDICATORS

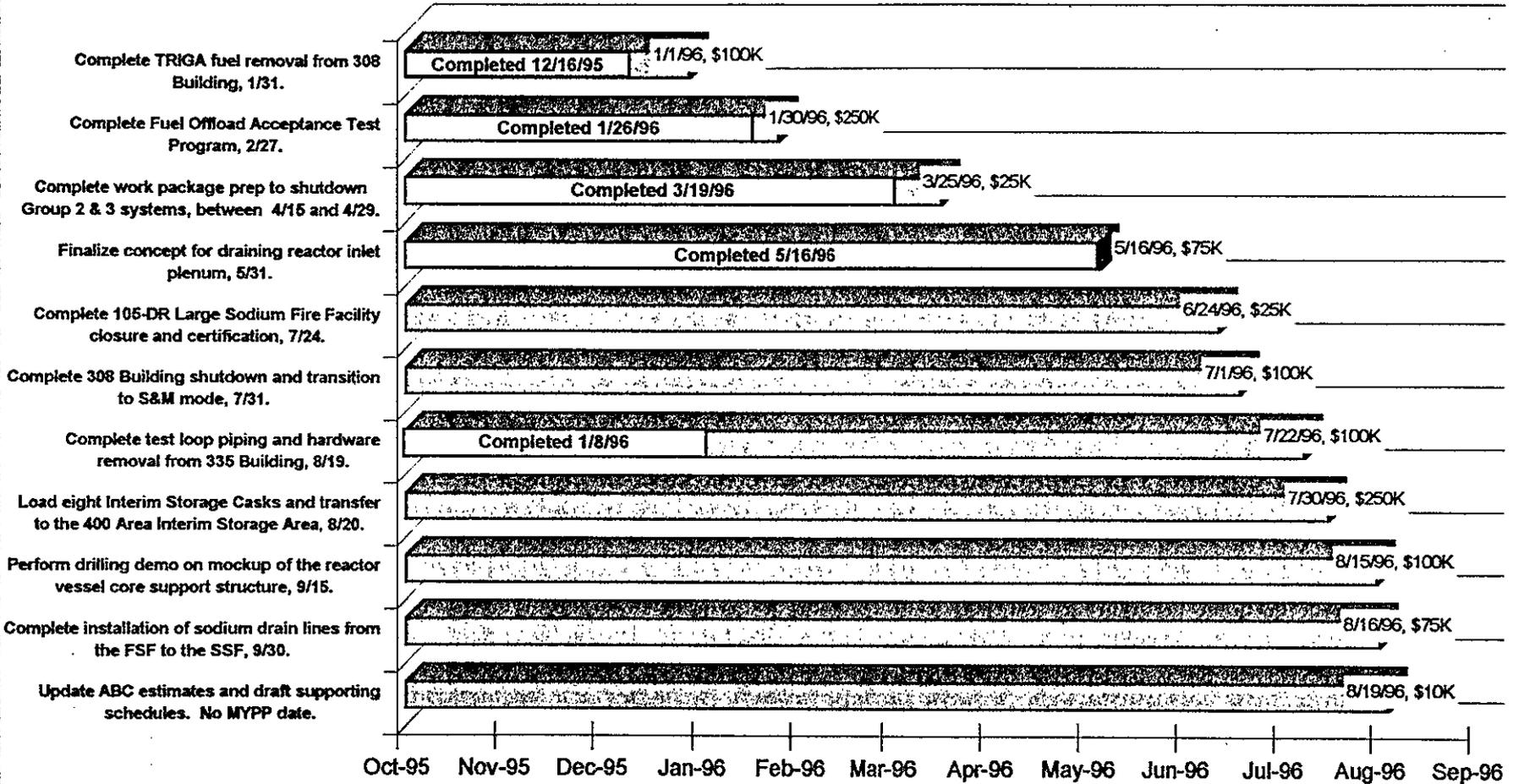
- + Improved from last month
- Worsened from last month
- ↑ Improved future outlook
- ↓ Worsened future outlook

The ART Program Will Maximize Company Success by Completing Milestones On or Ahead of Schedule

FY-96 Performance Based Fee Criteria

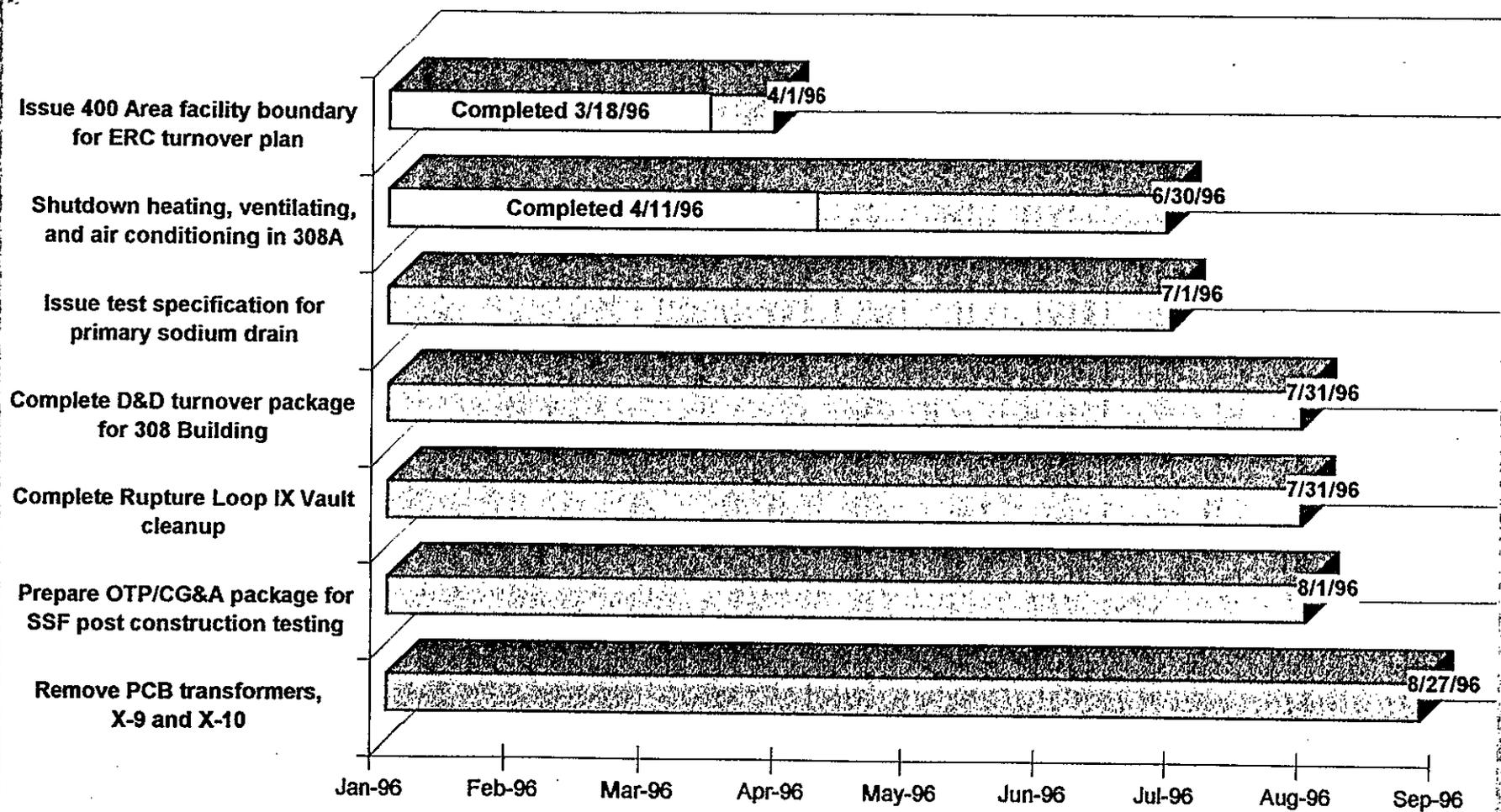
1996 PBFCs and Satisfactory Due Dates

Excellent Due Dates and Fee Values



The ART Program Will Maximize Company Success by Completing Milestones On or Ahead of Schedule

** Milestones for April-September 1996



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 7.3.1 ADVANCED REACTORS TRANSITION	May 1996
---------------------------	--	----------

Program Accomplishments

Identified the 400 Area facility boundary for the Environmental Restoration Contractor turnover plan on March 19. This milestone was due April 1.

Completed work package preparation to shutdown Group 2 & 3 systems on March 19. This milestone was due between April 15 - 19. Actual system shutdown will occur after secondary sodium is drained.

Shutdown heating, ventilating, and air conditioning in Building 308A on April 11. This milestone was due June 30.

Finalized the concept for draining the reactor inlet plenum on May 16. The milestone was due May 31.

Completed partial clean closure of the 105-DR Large Sodium Fire Facility and the RCRA Closure was transmitted to DOE-RL May 23. This milestone was due July 24.

Continued construction on the Sodium Storage Facility. Work is ongoing on the "penthouse" portion of the building where valve and trace heat systems operation will take place. On the lower level, trace heat is being installed on the bottom of the tanks while a floor over the fire suppression sump progresses.

Continued fuel offload. Six Interim Storage Casks, each containing seven washed and dried fuel assemblies, are stored in the 400 Area's Interim Storage Area.

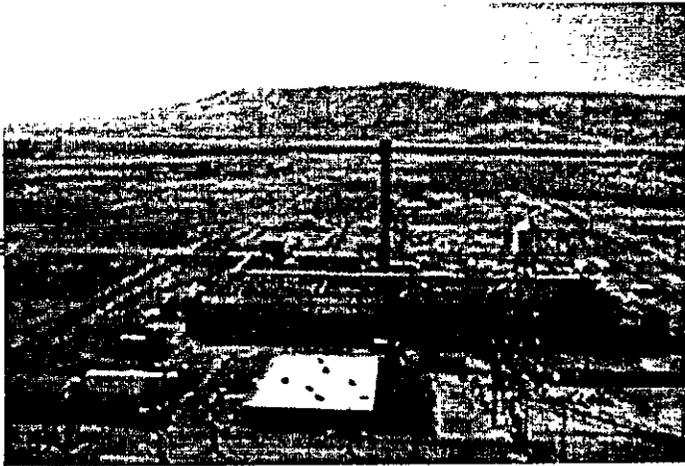
Advanced Reactors Transition

April 1996

(\$000)

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SCHEDULE VARIANCE</u>	<u>COST VARIANCE</u>
Expense	<u>30854</u>	<u>31410</u>	<u>31408</u>	<u>556</u>	<u>2</u>
	<u>Expected Funding</u>	<u>Expected BAC</u>	<u>Spending Forecast</u>	<u>Trend</u>	<u>Variance (Fcst- Trend)</u>
Expense	<u>64617</u>	<u>55317</u>	<u>55290</u>	<u>54180</u>	<u>1110</u>

Advanced Reactors Transition's four ADSs are all in B&R EX-70.



Plutonium Finishing Plant

TPA Overview

PFP Stabilization

Milestone M-83-00

D. W. Templeton

May 28, 1996

PFP TPA Overview - -

Issues and Opportunities

- Implementation of "**Breakthrough Thinking**"
 - Baseline schedules to be developed by June 15, 1996
 - Expect re-scheduling of key workscope currently documented
 - Suspended routine operation of Thermal Stabilization furnaces
 - Currently meeting with Ecology to develop acceptable "*path forward*"
 - Duct remediation efforts progressing well

- Issues requiring resolution to support **Breakthrough Thinking**
 - RL and Ecology discussing strategies for discard of residues; will need to incorporate into upcoming M-83 TPA negotiations
 - DOE-HQ conducting trade studies to determine feasibility of shipping and stabilizing elsewhere for residues containing high plutonium concentration
 - Revision to DOE-STD-3013-94 is underway
 - No action on DOE draft residue policy

PFP TPA Overview - -

Program Accomplishments

- John Wagoner, RL Manager, approved the final EIS on May 10, 1996
- Duct Terminal Cleanout, Section 2 - ***Complete***

PFP TPA Overview - -

Budget / Cost Status

- Project schedule & cost performance are marginal for schedule and unsatisfactory for cost due to the continuing impacts of the radiological work curtailment and the increased workscope required by new radiological requirements. The April 1996 schedule and cost variances are <\$3,311K> and <\$1,312K>, respectively. Budget variance is \$1,999K.

FYTD April

- Budget - \$45,935K
- Actuals - \$43,936K

Milestone Status (No change since 11/15/95 update) - -

- M-83-02 Complete identified Interim Actions December 1998

The currently identified interim actions as listed in the following target activities will be completed. Additional potential interim actions will be evaluated.

Status: *On Schedule*

- M-83-02-T01 Submit Plan and Schedule for Additional Interim Actions September 1995

Status: *Completed - September 29, 1995*

- M-83-02-T02 Complete Sludge Stabilization December 1995

Status: *Completed - June 14, 1995*

- M-83-02-T03 Complete 10-L Solution Downloading June 1996

Status: *Completed - September 19, 1995*

Milestone Status - -

- M-83-01 Submit draft Environmental November 1995
 Impact Statement

The draft Environmental Impact Statement will be submitted for public review.

Status: Completed - November 28, 1995

- M-83-01-T01 Issue final Environmental June 1996
 Impact Statement Record of
 Decision (ROD)

The final Environmental Impact Statement will be completed and all applicable NEPA requirements performed, including issuance of the ROD.

John Wagoner, RL Manager, approved the final EIS on May 10, 1996. A meeting was held May 15 to discuss preparation of the ROD. EPA notice of availability of EIS published week ending May 24, 1996. Limited comment period for new EIS appendix regarding immobilization of residues closed May 24, 1996.

Status: On Schedule

- M-83-02-T04 Complete 234-5Z Ductwork December 1998
 Cleanout

Duct Terminal Cleanout, Section 2 - ***Complete***
Section 3 - 20% complete

Status: Ahead of Schedule

PFP Status - -

April 1996:

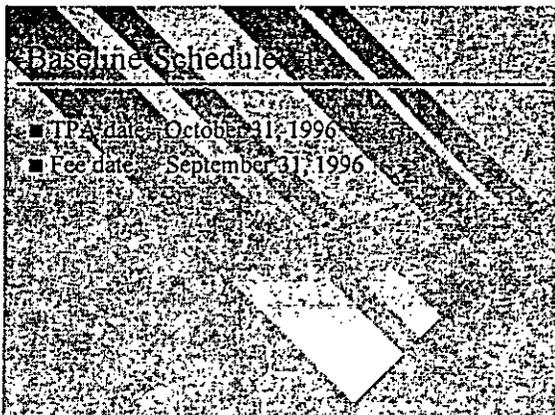
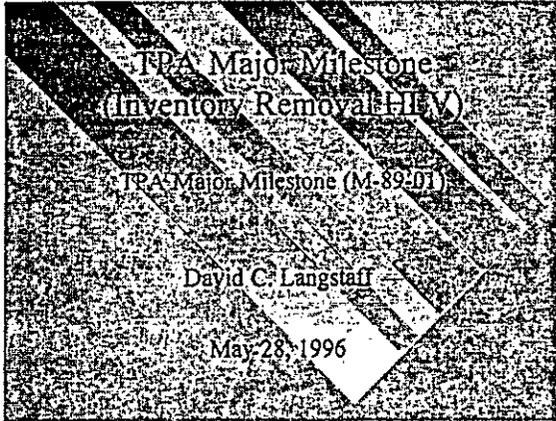
ESH	Good	Based on safety statistics in 5 categories
Customer	Marginal	Discretion of PFP Program Manager
Technical	Excellent	<ul style="list-style-type: none">• Work performed• Documentation• Resolving Issues
Schedule	Marginal	<ul style="list-style-type: none">• Based on overall schedule performance• Delays from curtailment major factor
Cost	Unsatisfactory	Rate against schedule overrunning costs versus scheduled work

Milestone Status - -

- M-83-00 Date TBD*
Complete stabilization of process areas and other PFP cleanout actions resulting from the EIS ROD, within PFP.

Completion of the process area stabilization activities will establish a safe and environmentally secure configuration for these plant areas. The major radioactive and chemical sources associated with these areas will be removed, reduced and/or stabilized. Completion of stabilization and other cleanout activities will result in reduced risk to plant workers, the public and the environment. This milestone includes completion of the National Environmental Policy Act (NEPA) process.

- * The three parties will enter into negotiations within two months following issuance of the EIS Record of Decision to establish milestones for implementing the Record of Decision and will complete negotiations within 6 months thereafter.



Significant Accomplishments (cont'd)
(Last five months)

- Completed construction and assembly of processing skids and major equipment.
- Completed construction of B-cell and D-cell jumpers.
- Approval of MOU to conduct a Readiness Assessment for the project.
- Approval of Readiness Plan for the project.

Significant Accomplishments (cont'd)

- Completed the piping and instrument diagrams, processing equipment assemblies and electrical systems.
- Completed set-up of data acquisition and control system.

Issues

- Rinsing definition in milestones.
- B-Cell/PUREX shipments and start availability.
- Radiochemical cell availability.

Significant Planned Activities (Next six months)

- Operational testing of process system
1 month
- Installation of process system in D-cell
1 month
- Acceptance testing of process equipment in D-cell
2 months
- Completion of Readiness Assessment (July 15) and the initiation of waste processing
2 months
- Approval of Phase I Readiness Assessment to allow transfer of HLW waste to Tank 112 in B-Cell and sampling activities

Milestone Assessment

- Processing is expected to be completed before milestone date
- ES&H Compliance: Good
- Customer Satisfaction: Good
- Technical: Satisfactory
- Schedule: Satisfactory
- Cost: Marginal

Expenditures: Cost/Schedule Performance

(April 26, cumulative FY to date)

BCVS	\$741K
BCWP	\$659K
ACWP	\$1,062K
SV	-83K
CV	-403.4K
Current FY Budget	\$1,665K

M

TP-1 Major Milestone
 Complete Removal of Building 300-B Cell Vessels and Equipment

TP-11 Major Milestone (M-89-02)
 David C. Langstaff
 May 28, 1996.

Milestone Description

- Milestone Description
 Complete Removal of 224 Building 300-B Cell MW and Equipment
- Deliverables
 Removal of all MW and processing equipment from the 224 Building 300-B Cell

Baseline Schedule

- Complete removal activities by 05/28/96 (on schedule)

Significant Accomplishments (Last three months)

- Completed shipment of Remote Handled Mixed Waste from the 324 Building B-Cell to the PUREX tunnel #2.
- Initiated shipment of Special Case Waste from the 324 Building B-Cell to the PUREX tunnel #2.

Issues

- There are no issues affecting the completion of the M-89-02 milestone at this time.

Significant Accomplishments (Next six months)

- Complete the Special Case Waste shipments from 324 Building B-Cell to the PUREX Tunnel #2.
- Initiate the shipment of spent nuclear fuel from the 324 Building B-Cell to the 400 Area Interim Storage Area.
- Complete size reduction of the spent nuclear fuel storage rack.

