DOCUMENT MODIFICATION REQUEST (DMR)

Refer to 1-A01-PPG-001 for Processing Instructions
Print or Type All Information (Except Signatures

1 Date: April 5 1995

25 DMR No 95-DMR-ERM-0151

2 Existing Document Number/Revision: 21100-WP-OU05 1/Rev ~~11~~ 0

3 New Document Number or Document Number if it is to be changed with this Revision N/A

4 Originator s Name/Phone/Page/Location: Mark R. Wood/8784/5904/080-641

5 Document Title FINAL PHASE I RFI/RI WORK PLAN FOR OPERABLE UNIT 5 WOMAN CREEK PRIORITY DRAINAGE, Volume III Text to Technical Memorandum No 15 - Amended Field Sampling Plan

6 Document Type ☐ Procedure X Other Work Plan

7 Document Modification Type (Check only one) ☐ New ☐ Revision ☐ Intent Change x Nonintent Change ☐ Editorial Correction ☐ Cancellation

8 Item	9 Page	10 Step	11 Proposed Modifications
1	3 of 4 and 4 of 4	Table 3 1 2 1	Insert revised Table 3 1 2 1 Summary of Amended Field Sampling Plan IHSS 115 (Original Landfill) and IHSS 196 (Filter Backwash Pond) Delete reference to Pesticides & PCBs for required analytical parameters for groundwater sampling of 9 piezometers (Geotechnical Investigation) and 6 deep bedrock monitoring wells miniwells and well points (Groundwater Investigation) Delete Field Quality Control Samples/Program specifying ~~1 rinsate/20 samples or~~ minimum of 1 rinsate/day for miniwells and well points SL 4 5 95
2	1 of 1	Table 3 2 2-1	Insert revised Table 3 2 2 1 Summary of Amended Field Sampling Plan IHSS 133 (Ash Pits Incinerator and Concrete-wash Pad) Delete reference to Pesticides & PCBs for required analytical parameters under Groundwater Investigation for groundwater sampling of piezometers Delete Field Quality Control Samples/Program specifying ~~1 rinsate/20 samples or~~ minimum of 1 rinsate/day for miniwells and well points SL

ADMIN RECORD

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

12 Justification (Reason for Modification EJO# TP# etc)

Ammend Technical Memorandum No 15 Field Sampling Plan to delete analysis of grounwater samples for Pesticides and PCBs to maintain consistency with the original OU5 Work Plan Delete instructions to collect ~~one rinsate/20 samples or~~ minimum of 1 rinsate/day for the miniwells and well points due to the utilization of dedicated tubing/sampling equipment for each miniwell and well point The DOE RFFO counterpart Kurt Muenchow verbally concurs with the scope of this Document Modification Request.

If modification is for a new procedure or a revision, list concurring disciplines in Block 13 and enter N/A in Blocks 14 and 15 If modification is for any type of change or a cancellation, organizations are listed in Block 13 then Concurror prints and signs in Block 14 and dates in Block 15

13 Organization	14 Print and Sign (if applicable)	15 Date (if applicable)
EQS	Stephen [signature] (SL)	4 5 95
OU5 FS Team	RM [signature]	4-5-95
OU5 PM	Mark Wood for Carol Baker	4/5/95

16 Originator s Supervisor (print/sign/date) Ed Mast/

17 Assigned SME/Phone/Page/Location.	18 Cost Center 3120	19 Charge Number 98647900	20 Requested Completion Date	21 Effective Date
Mark R Wood/8784/5904/080-641 MRW			April 10 1995	

22 Accelerated Review? Yes ☐ No x

23 ORC Review Not Required

4 Responsible Manager (print sign date) Ed Mast/ [signature] 4/5/95

REVIEWED FOR CLASSIFICATION/UCN
BY NA
DATE NA

Received at 1:00 on 4/7/95
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A OU05-000603

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Table 3 1 2-1 Summary of Amended Field Sampling Plan
IHSS 115 (Original Landfill) and IHSS 196 (Filter Backwash Pond)

EVALUATION	ACTIVITY	NO OF SAMPLING LOCATIONS	SAMPLING FREQUENCY	ANALYTICAL PARAMETERS	FIELD QUALITY CONTROL SAMPLES/PROGRAM	APPLICABLE SECTION OF TEXT
Groundwater Investigation	Install and sample mini wells (cont.)		Groundwater - quarterly	TCL VOCs, SVOCs TAL Metals and Radionuclides	1 dup/10 samples 1 rinsate/20 samples and 1 trip blank per field crew per day per cooler	3 1 2.3
	Measure water levels	46	monthly	water level	replicate measurements as specified in SOP GW 01	
	Sample existing well points	TBD	quarterly	TCL VOCs, SVOCs TAL Metals and Radionuclides	1 dup/10 samples 1 rinsate/20 samples and 1 trip blank per crew per day per cooler	
	Characterize bedrock LHSU and install monitoring wells	6	continuous core field screen Groundwater quarterly	TCL VOCs SVOCs TAL Metals and Radionuclides	1 dup/10 samples 1 rinsate/20 samples or minimum of 1 rinsate/day and 1 trip blank per crew per day per cooler	
	Aquifer tests	1	once	NA	NA	
Storm Sewer Sampling	Collect samples from storm sewer outfall	1	quarterly	TCL VOCs TAI Metals Radionuclides and Water Quality Parameters	1 dup/10 samples 1 rinsate/20 samples or minimum of 1 rinsate/day and associated trip blank one per crew per day	3 1 2 4
Air Monitoring	RAAMP Monitoring	Monitoring will be conducted as specified in RAAMP documentation.				3 1 2 5
	OU5 Ambient Air Samplers	3	bi weekly samples composited monthly	Radionuclides	As specified in SOP AP 13	
	Wind Resuspension - Evaluate Applicability of OU3 Wind Tunnel Study	TBD	TBD	TBD	TBD	
	OU5 Wind Tunnel Study	TBD	TBD	TBD	TBD	
	Evaluation of Gas Volatilization	TBD	TBD	TBD	TBD	

NA = Not Applicable TBD = To Be Determined

Table 3 2 2-1 Summary of Amended Field Sampling Plan
IHSS 133 (Ash Pits, Incinerator, and Concrete-wash Pad)
Page 1 of 1

EVALUATION	ACTIVITY	NO OF SAMPLING LOCATIONS	SAMPLING FREQUENCY	ANALYTICAL PARAMETERS	FIELD QUALITY CONTROL SAMPLES/PROGRAM	APPLICABLE SECTION OF TEXT
Investigation of TDEM Anomalies	Comprehensive field inspection	NA	NA	NA	NA	3221
	Soil boreholes	8	6 foot composite samples or alternative composites as specified in TM7	TAL metals and radionuclides	1 duplicate/10 samples and 1 rinsate/20 samples or minimum of 1 rinsate/day	
	Collection of geotechnical samples	TBD	10 percent of total number of composite samples	grain size distribution (+200 fraction)	NA	
	Collection of groundwater samples from soil boreholes	TBD (1/location with water)	once	TAL metals and radionuclides	1 duplicate/10 samples (none anticipated) and 1 rinsate/20 samples or minimum of 1 rinsate/day	
Groundwater Investigation	Advance soil boreholes and install piezometers (mini wells)	9	every third sampler (approx 6 feet)	natural moisture content	NA	3222
	Measure water levels	TBD	monthly	water level	replicate measurements as specified in SOP GW 01	
	Sample piezometers	TBD	quarterly	TAL metals, SVOCs, and radionuclides	1 duplicate/10 samples (none anticipated) and rinsates at the rate of 1 rinsate/20 samples or minimum of 1 rinsate/day for wells and piezometers or 1 rinsate/20 samples for miniwells and well points (rinse probes)	
	Visual survey of Woman Creek stream channel	NA	NA	NA	NA	
	Aquifer tests	1	once	NA	NA	
Air Monitoring	RAAMP Monitoring	Monitoring will be conducted as specified in RAAMP documentation				3223
	Special OU5 Ambient Air Samplers	3	bi weekly samples composited monthly	Radionuclides	As specified in SOP AP 13	
	Wind Resuspension	TBD	TBD	TBD	TBD	

NA = Not Applicable TBD = To Be Determined

95-AMR-EEM-0151

95-DME-EZM-0151

Table 3 1 2-1 Summary of Amended Field Sampling Plan
IHSS 115 (Original Landfill) and IHSS 196 (Filter Backwash Pond)

EVALUATION	ACTIVITY	NO OF SAMPLING LOCATIONS	SAMPLING FREQUENCY	ANALYTICAL PARAMETERS	FIELD QUALITY CONTROL SAMPLES/PROGRAM	APPLICABLE SECTION OF TEXT
GEOTECHNICAL EVALUATION (CONT)	Evaluate Subsurface geometry/geotechnical properties (cont)		Soil samples of shear zone/weathered bedrock	Selected samples	8 ICU (ASTM D4767 88) 2 Consolidation (ASTM D2435 90) 10 Atterberg Limits (ASTM D4318 93) 5 Gradation (ASTM D1140 92)	3 1.2.2
			Soil samples of unweathered bedrock	Selected samples	3 Drained Direct Shear (ASTM D3080 90)	
		9 piezometers (HSA borehole advanced as discussed on preceding page)	monthly quarterly for one year	water level TCL VOCs, SVOCs, TAL Metals, and Radionuclides	replicate measurements as specified in SOP GW 01 1 dup/10 samples 1 rinsate/20 samples or minimum of 1 rinsate/day and associated trip blank	
	Waste and core characterization	20 HSA boreholes and 6 deep bedrock monitoring wells	1 drum composite per 4 drums (approx 1 drum per 10 ft of borehole)	TCL VOCs, SVOCs, Pest & PCBs, TAL Metals, and Radionuclides	1 dup/10 samples, 1 rinsate/20 samples or minimum of 1 rinsate/day and associated trip blank	
	Back calculate strength parameters and calculate long-term stability by method of slices	NA	NA	NA	NA	
Groundwater Investigation	Install and sample mini wells	5	2 foot discrete soil samples	TCL VOCs	1 dup/10 samples, 1 rinsate/20 samples or minimum of 1 rinsate/day and 1 trip blank per field crew per day per cooler	3 1 2.3
			6-foot composite soil samples or alternative composites as specified in TM7	SVOCs, Pesticides & PCBs TAL Metals and Radionuclides		