ENGINEERING CHANGE NOTICE

Page 2 of 2

1. LCM (with no. from pgs. 1)

624527

16. Verification Required	17. Cost Impact				18. Schedule Impact (days)			
	ENGINEERING				CONSTRUCTION			
☐ Yes	Additional	☐ \$	Additional	☐ \$	Improvement	☐		
☒ No	Savings	☐ \$	Savings	☐ \$	Delay	☐		
19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Slide 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.								
ADD/OD	☐	Stress/Stress Analysis	☐	Tank Calibration Manual	☐			
Functional Design Criteria	☐	Stress/Design Report	☐	Noise Physics Procedure	☐			
Operating Specification	☐	Interface Control Drawing	☐	Spares Multiple Unit Loading	☐			
Criticality Classification	☐	Calibration Procedure	☐	Test Procedures/Specification	☐			
Conceptual Design Report	☐	Installation Procedure	☐	Component Index	☐			
Equipment Spec	☐	Maintenance Procedure	☐	ASME Coded Item	☐			
Control Spec	☐	Engineering Procedure	☐	Hazard Factor Consideration	☐			
Procurement Spec	☐	Operating Instruction	☐	Computer Software	☐			
Vendor Information	☐	Operating Procedure	☐	Electro Circuit Schematic	☐			
O&M Manual	☐	Operational Safety Program/M	☐	NCRS Procedure	☐			
FSAP/SAR	☐	MFO Drawing	☐	Process Control Manual/Plan	☐			
Safety Equipment List	☐	Cell Arrangement Drawing	☐	Process Flow Chart	☐			
Radiation Work Permit	☐	Essential Material Specification	☐	Purchase Requisition	☐			
Environmental Impact Statement	☐	Fac Proc. Temp. Schedule	☐	Transfer File	☐			
Environmental Report	☐	Inspection Plan	☐		☐			
Environmental Permit	☐	Inventory Adjustment Request	☐		☐			
20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this EGM.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.								
Document Number/Revision			Document Number/Revision			Document Number/Revision		
None								
21. Approvals								
Signature		Date		Signature		Date		
Design Authority				Design Agent				
Cap. Engr. S. M. Joyce		7/2/97		PE				
Cap. Mgr. C. B. Strong		7/2/97		QA				
SA				Safety				
Safety				Environ.				
Environ.				Other				
Other								
				<u>DEPARTMENT OF ENERGY</u>				
				Signature or a Control Number that tracks the Approval Signature				
				<u>ADDITIONAL</u>				

Hanford Analytical Sample Projections FY 1996 - FY 2001

S. M. Joyce

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Key Words: Analytical Services strategy, sample projections, Environmental Restoration, TMRs, Liquid Effluents, Solid Waste, Industrial Hygiene, Site Monitoring, Field Sampling, TRU.

Abstract: Sample projections are compiled for the Hanford site based on inputs from the major programs for the years 1997 through 2001. Sample projections are categorized by radiation level, protocol, sample matrix and Program. Analyses requirements are also presented.

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Manford Analytical Sample Projections FY 1997-2001

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Hanford Analytical Sample Projections FY 1997 - FY 2001

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1.0 PURPOSE

This document summarizes the biannual Hanford sample projections for fiscal years 1997 to 2001. Sample projections are based on inputs submitted to Analytical Services covering Environmental Restoration, Tank Waste Remediation Systems (TWRS), Solid Waste, Liquid Effluents, Spent Nuclear Fuels, Transition Projects, Site Monitoring, Industrial Hygiene, Analytical Services and miscellaneous Hanford support activities. In addition for this revision, details on Laboratory scale technology (development) work, Sample Management, and Data Management activities were requested. This information will be used by the Hanford Analytical Services Program (HASP) and the Sample Management Working Group (SMWG) to assure that laboratories and resources are available and effectively utilized to meet these documented needs.

2.0 SCOPE

The sample projections for each activity were requested to be categorized by radioactivity, analytes, protocol, matrix, laboratory scale technology (development), sample management, data management as follows:

Radioactivity	Category 1 Non-Radioactive Category 1 <1 mR/hr β - γ , <10 nCi/g α Category 2 <1 mR/hr β - γ , <10 nCi/g α Category 3 1 mR/hr β - γ to <10 mR/hr β - γ , and <10 nCi/g α Category 4 <10 mR/hr β - γ , and <200 nCi/g α Category 5 10 mR/hr β - γ to <100 mR/hr β - γ , and <200 nCi/g α Category 6 >100 mR/hr β - γ Category 7 >200 nCi/g α
Analytes	Analytes are grouped into the following categories: VOA/semi-VOA, Pesticides/PCBs, WTPH/Oil and Grease, Flash Point, Other Organics, Anions, Metals, DSC/TGA, Wet Chemistry, TOC/TIC, Cyanide, Mercury, Cr-VI, TCLP, Density/SpG, pH/Conductivity/DO, Other Inorganics, Mass Spectrometry, Asbestos, Gross Alpha/Beta, Gamma Energy Analyzers, Uranium Am-241, C-14, H-3, I-129, Pu-238/239/240, Se-79, Sr-90, Tc-99, and other Radiochemistry.
Protocol	Protocols include: Resources Conservation Recovery Act (RCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Clean Water Act (CWA), Clean Air Act (CAA), Industrial Hygiene (IH) process control, and National Pollution Discharge

Elimination System (NPDES), Permit 216, 10 CFR 834, 10 CFR 835 40 CFR 81 (CAA), CLP other

Matrix The matrix describes the physical characteristics of samples. Matrices are grouped into the following categories: liquid, solid/soils, sludge, vapor and other

Laboratory Scale Technology (development)

The laboratory scale technology (development) section includes a listing with a brief description on each project support activity for FY 1997

Sample Management

The sample management section identifies the organizations and the number of FTE's which support activities for data management, contract management, project coordination, laboratory overview, sample/waste return support, and planning/data quality objectives

Data Management

The data management activities section identifies data bases utilized and linked to other systems including laboratory

Funding levels associated with the sample projections were requested, but in most cases were not provided, and are not included in this revision

Program activities for which sample projections were anticipated are listed below, inputs not received are identified with an asterisk

Environmental Restoration

- 100 Area 100-Area CSE, 100-BG-5 RI/FS, 100-B/C, 100-D Group 2, 100-FR-3 RI/FS, 100-FR-3 RI/FS, 100-HR-3 RI/FS (includes 100-D/DR and 100-H Areas), 100-HR-3 (D) IRM (Operations), 100-HR-3 (D) IRM (Performance/Compliance), 100-HR (H) IRM (Operations), 100-HR-3 (H) IRM (Performance/Compliance), 100-KR-4 RI/FS, 100-KR-4 RI/FS (Operations), 100-KR-4 IRM (Performance/Compliance), 105-N Basin, 107-N Basin, 183-N Water Plant, D&D/105-C, D&D/1608-B, D&D/118-C-4 (Red Cave), D&D/111-B, D&D/1702-C, D&D/119-B, N-Basin Cleanup, N-Deactivation, Near Field Monitoring, 100-NR-2 Characterization, 100-N Area ERA Monitoring, 100-N Area ERA Monitoring
- 200 Area 200-UP-1, 200-ZP-1, D&D/202-S, D&D/233-S
- 300 Area 300-FF-5 Post Closure Monitoring, 300-FF-2, D&D/3706

- 1100 Area Horn Rapids Landfill
- Environmental Restoration Disposal Facility*

Tank Waste Remediation System (TWRS)

- TWRS Waste Storage and Operations
 - o Tank Farm Operations
 - West Area Tank Farms*
 - East Area Tank Farms
 - o TWRS Characterization Project
 - Cores
 - Grab
 - Vapor
 - Evaporator Process Samples
- TWRS Waste Disposal
 - o TWRS Privatization (Retrieval)
 - o TWRS Privatization (Treatment and Disposal)

Solid Waste

- Solid Waste
- WRAP 1
- T-Plant

Liquid Effluents

- 200 Area LEF (Liquid Effluent Facility)
- 300 Area LEF
- 242A Evaporator (included for this revision with TWRS)

Spent Nuclear Fuels

- Spent Nuclear Fuel Basin Sludge Characterization
- Liquid Discharge
- 183-KE Water Laboratory
- 183-KE Air Laboratory*

Transition Projects

- Plutonium Finishing Plant (PFP) Transition Project
- B-Plant/WESF Transition Project
- PUREX Project
- FFTF 309 Facility Transition Waste Characterization

Analytical Services

- Sample/Secondary Waste Return
- QA Samples
- Operations Support
- Decentralized Laboratory Support*

Site Monitoring

- Environmental Monitoring
- Hanford Groundwater Monitoring Project
- Bioassay Program
- Environmental Support (Effluent and Near Field Monitoring)
- Slack Monitoring*
- Room Air Monitoring*
- Spent Nuclear Fuel

Industrial Hygiene

- Industrial Hygiene
- Drinking Water*

Miscellaneous Hanford Support

- Construction Projects*

3.0 SUMMARY

During FY 1995 and FY 1996 substantial reductions in analytical service needs occurred at Hanford. Sample projections for FY 1997 reflect a level similar to FY 1996. Significant decreases in analytical needs are projected for FY 1999 through FY 2001. The projections for fiscal years 1997 through 2001 are summarized in five Tables. Table 1 provides the overall Hanford site sample projection summary, Table 2 categorizes the information by radiation level, Table 3 by analysis, Table 4 by protocol, and Table 5 by sample matrix.

Table 1
Hanford Program Sample Projection Summary

Program	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Analytical Services	8398	8338	8318	8318	8318
Environmental Restoration	6735	4885	4225	1885	1885
Industrial Hygiene	2000	2000	2000	2000	2000

Liquid Effluents	1518	1518	1518	1518	1518
Site Monitoring	8189	8189	8189	8189	8189
Solid Waste	1968	1505	1174	933	749
Spent Nuclear Fuels	937	1058	1030	1030	0
Tank Waste Remediation System	2075	2432	1830	319	18
Transition Projects	2010	1719	1635	1639	1829
Total	33830	31744	29919	25831	24306

Table 2
Yearly Sample Projection Summary by Radiation Level

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	6383	6454	6233	6234	6233
<1 mR/hr beta-gamma, <10 nCi/g alpha	18789	18220	17578	17274	16077
1 to <10 mR/h beta-gamma and <10 nCi/g alpha	6478	5197	4573	1870	1868
<10 mR/hr beta-gamma, and <200 nCi/g alpha	172	49	43	44	24
10 to <100 mR/hr beta-gamma and <200 nCi/g alpha	317	16	9	13	9
>100 mR/hr beta-gamma	1625	1731	1406	319	18
>200 nCi/g alpha	66	77	77	77	77

Table 3
Hanford Yearly Sample Analysis Summary

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	1282	1348	850	579	540
ANIONS	4788	3737	3645	1853	1813
ASBESTOS	2060	2030	2020	2020	2020
AT/TB	19098	19189	18738	15563	14665

C-14	273	202	215	170	164
CR-VI	375	382	0	0	0
CYANIDE	509	453	428	383	393
DENSITY/SpG	1378	1370	1152	83	55
DSC/TGA	4420	3978	4331	144	29
FLASH POINT	39	15	7	11	1
GEA	4153	4020	3198	3124	2394
H-3	2100	1975	1987	1921	1891
I-129	592	548	566	548	554
MASS SPEC	72	46	30	0	0
MERCURY	1270	1190	794	797	781
METALS	6638	5561	4973	2177	2125
OTHER INORGANICS	6239	3591	3316	3014	2949
OTHER ORGANICS	1375	750	527	382	339
OTHER RAD CHEM	3155	3113	2848	1004	993
PEST/PCB	171	99	43	29	29
pH/CONDUCT/OH-	3342	3551	3219	2264	2215
PLI-238/39/40	3561	3572	3010	2815	2448
SE-79	96	48	42	28	18
SR-80	3098	3780	3166	2965	2585
TC-99	671	589	591	551	545
TCLP	72	7	4	11	1
TIC/TOC	3288	3257	3057	2715	2671
URANIUM	2207	2030	1605	1550	1473
VOA/SVOA	3104	2121	1905	1860	1835
WET CHEMISTRY	1401	1379	1378	1245	1245
WTPH/OIL/GREASE	156	88	85	89	79
TOTAL	81881	74017	67731	49905	48848

Table 4
Yearly Sample Projection Summary by Protocol

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
10CFR834	992	992	992	992	992
10CFR835	678	676	676	676	676
216 PERMIT	160	160	160	160	160
40CFR61 (CAA)	147	147	147	147	147
CAA	600	600	600	600	600
CLP	802	532	372	352	352
CWA	223	223	223	223	223
IH	2295	2200	2200	2000	2000
NPDES	4	4	4	4	4
OTHER	150	150	150	150	150
PROCESS CONTROL	19421	18247	17581	15225	14195
RCRA	8542	7795	6796	5284	4789
SDWA	18	18	18	18	18

Table 5
Yearly Sample Projection Summary by Matrix

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	9635	8333	8222	7792	6764
OTHER	9783	9201	8867	8448	8266
SLUDGE	1619	1737	1396	361	56
SOLID/SOIL	3884	3572	2767	623	623
VAPOR	8908	8901	8667	8607	8607

This report includes only those program needs which were identified in correspondence. The overall quality of inputs received from the programs is judged to be good. Significant uncertainties in some programs are evident from omissions in the sample projections. Known activities for which information was not provided include

TWRS West Area Tank Farms, Environmental Restoration Disposal Facility, and Drinking Water. Needs for TWRS Waste Disposal, Stack and Room Air Monitoring, Construction Projects, Environmental Support and Industrial Hygiene were only partially identified by the programs. Limited information was received on Laboratory Scale Technology (development), Sample Management, and Data Management other than the primary sample management offices (HASP, BHI, and PNNL). During the next quarter HASP will work with Hanford contractors (PHMC companies, BHI, and PNNL) to improve these projections.

4.0 DISCUSSION

The Analytical Services Program updates this Hanford Analytical Sample Projections report bi-annually (November and May). A request for a sample projection update was distributed to Hanford programs in October, 1996. The sample projections are utilized by the Hanford Analytical Services Program to assure that timely, cost effective, and quality laboratory support is available. It is understood that sample information may not be well known (i.e. budgets, strategies, etc.), but programs were still requested to provide their best estimate of analytical needs.

The tables list number of samples only. There is no information on the complexity or amount of analytical work required to analyze any of these samples.

4.1 ENVIRONMENTAL RESTORATION

Sample projections for the Environmental Restoration program are provided for 100, 200, 300, and 1100 Areas, and Decontamination and Decommissioning. No information was received for the Environmental Restoration Disposal Facility.

Table 6 provides the yearly sample projection by radiation level. Table 7 provides the yearly sample analysis summary. Table 8 provides the yearly sample projections by protocol. Table 9 provides the yearly sample projections by matrix.

TREND

Environmental Restoration sample projections for FY 1997 show: 1) a significant increase in the number of samples projected for FY 1997 (from 1,800 in revision 2 to 6,500), 2) that the FY 1997 program which provides the greatest increase in the ER projections is a new activity at 100-D Group 2 (approximately 2,700 samples - primarily metals and radiochemistry), 3) the 32,500 field screening analyses noted in revision 2 are now performed using in-line monitoring and were not included in this report or used to compare this report to revision 2, 4) an increase in the number of process control samples (78% for FY 1997), and 5) an increase in the number of groundwater samples (the ratio of groundwater samples to soil samples is projected to be 1:1 in FY-98, compared to 0.6 for FY-97 forecasted in revision 2).

Environmental Restoration sample projections for FY 1998 and beyond show: 1) a significant decrease in solid/soil samples in FY 2000 and FY 2001 (2000 fewer samples) and 2) a steady decrease in the number of sample analyses (67% decrease in analysis requirements from FY 1997 to FY 2000).

Table 6
Yearly Sample Projections by Radiation Level for the Environmental Restoration Program

Radiation Level	FY 1987	FY 1998	FY 1999	FY 2000	FY 2001
<1 mR/hr beta-gamma, <10 nCi/g alpha	399	85	85	85	85
1 to <10 mR/h beta-gamma, and <10 nCi/g alpha	6302	4900	4140	1800	1800
10 to <100 mR/hr beta-gamma, and <200 nCi/g alpha	34	0	0	0	0

Table 7
Yearly Sample Analysis Summary for the Environmental Restoration Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	350	350	0	0	0
ANIONS	2	0	0	0	0
ASBESTOS	0	0	0	0	0
AT/TB	223	89	89	89	89
C-14	0	0	0	0	0
CR-VI	350	350	0	0	0
CYANIDE	2	0	0	0	0
DENSITY/SpG	32	30	30	30	30
DSC/TGA	2	0	0	0	0
FLASH POINT	0	0	0	0	0
GEA	797	759	89	89	89
H-3	146	138	136	136	136
I-129	4	0	0	0	0
MASS SPEC	0	0	0	0	0
MERCURY	350	350	0	0	0
METALS	2033	1820	1380	380	380
OTHER INORGANICS	584	478	478	478	478
OTHER ORGANICS	334	223	223	223	223
OTHER RAD CHEM	2031	1771	1681	341	341
PEST/PCB	46	10	10	0	0
pH/CONDUCT/OH-	1165	1036	1036	1036	1036
PU-238/39/40	374	350	0	0	0
SE-79	0	0	0	0	0
SR-90	808	640	290	290	290
TC-99	23	23	23	23	23

TCLP	0	0	0	0	0
TIC/TOC	8	0	0	0	0
URANIUM	417	393	43	43	43
VOA/SVOA	1214	583	493	463	463
WET CHEMISTRY	258	206	206	206	206
WTPH/OIL/GREASE	42	2	2	2	2
TOTAL	11803	9599	6209	3829	3829

Table 8

Yearly Sample Projection Summary by Protocol for the Environmental Restoration Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
216 PERMIT	160	160	160	160	160
CLP	602	532	372	352	352
IH	295	200	200	0	0
NPDES	4	4	4	4	4
PROCESS CONTROL	5237	3848	3248	1128	1128
RCRA	437	241	241	241	241

Table 9

Yearly Sample Projection Summary by Matrix for the Environmental Restoration Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	3167	1842	1842	1842	1842
OTHER	422	227	227	27	27
SOLID/SOIL	3146	2816	2156	16	16

4.2 TANK WASTE REMEDIATION SYSTEM

Tank Waste Remediation System (TWRS) Sample projections include TWRS Waste Storage and Operations, and TWRS Waste Disposal. TWRS Waste Storage and Operations sample projections include Tank Farm Operations (East Area Tank

Farms) and TWRS Characterization Project (cores, grab, vapor, and evaporator process). No information was received from Tank Farm West Area Operations. TWRS Waste Disposal sample projections include limited information from TWRS Privatization (Treatment and Disposal, and Retrieval).

Table 10 provides the yearly sample projection by radiation level. Table 11 provides the yearly sample analysis summary. Table 12 provides the yearly sample projections by protocol. Table 13 provides the yearly sample projections by matrix.

TRENDS

Tank Waste Remediation System sample projections show: 1) that the number of core samples remain constant during the next three years (FY 1997 has 77 cores and 379 segments for a total of 1,468 samples, FY 1998 has 91 cores and 345 segments for a total of 1,362 samples, FY 1999 has 84 cores and 300 segments for a total of 1,208 samples), 2) that the number of core samples sharply decreases in FY 2000 to 18 cores and 73 segments for a total of 292 samples, 4) no core needs are identified for FY 2001, 5) TWRS Waste Disposal needs are focused on waste characterization by the PHMC for transfer to the Disposal Program private contractor. The out-year needs for support to Disposal program operations are as yet undefined, and 6) limited other TWRS needs were identified for FY 1997 through FY 2001.

Table 10
Yearly Sample Projections by Radiation Level for the TWRS Program

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	102	221	0	0	0
<1 mR/hr beta-gamma, <10 nCi/g alpha	302	294	60	0	0
1 to <10 mR/h beta-gamma, and <10 nCi/g alpha	84	208	364	0	0
>100 mR/hr beta-gamma	1587	1709	1408	319	18

Table 11
Yearly Sample Analysis Summary for the TWRS Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	246	388	277	11	0
ANIONS	2521	1784	1803	20	0

ASBESTOS	0	0	0	0	0
AT/TB	2132	2936	2956	4	0
C-14	97	38	51	6	0
CR-VI	14	0	0	0	0
CYANIDE	89	28	35	0	0
DENSITY/SpG	1214	1288	1097	26	0
DSC/TGA	4313	3925	4302	115	0
FLASH POINT	0	0	0	0	0
GEA	158	112	86	12	0
H-3	126	60	72	6	0
I-129	30	6	12	6	0
MASS SPEC	54	24	30	0	0
MERCURY	30	6	12	6	0
METALS	2212	1808	1788	18	0
OTHER INORGANICS	710	596	342	54	0
OTHER ORGANICS	758	296	152	20	0
OTHER RAD CHEM	386	628	515	11	0
PEST/PCB	0	0	0	0	0
pH/CONDUCT/OH-	602	1171	966	17	0
PU-238/39/40	210	310	199	11	0
SE-79	30	6	12	6	0
SR-90	258	392	243	17	0
TC-99	114	34	48	6	0
TCLP	0	0	0	0	0
TIC/TOC	308	452	341	17	0
URANIUM	182	116	90	12	0
VOA/SVOA	18	2	4	2	0
WET CHEMISTRY	64	134	134	0	0

WTPH/OIL/GREASE	0	0	0	0	0
TOTAL	16856	16538	15567	405	0

Table 12

Yearly Sample Projections by Protocol for the TWRS Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
PROCESS CONTROL	110	236	236	0	0
RCRA	1965	2196	1594	319	18

Table 13

Yearly Sample Projections by Matrix for the TWRS Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	249	479	421	0	0
SLUDGE	1524	1659	1349	319	18
VAPOR	302	294	60	0	0

4.3 SOLID WASTE

Sample projections for the Solid Waste Program have been provided for the WRAP-1, Solid Waste, and T-Plant

Table 14 provides the yearly sample projection by radiation level. Table 15 provides the yearly sample analysis summary. Table 16 provides the yearly sample projections by protocol. Table 17 provides the yearly sample projections by matrix.

TREND

Projections show a steady decrease in the number of samples of twenty percent per year during the next five years.

Table 14
Yearly Sample Projections by Radiation Level for the Solid Waste Program

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	190	142	142	142	142
<1 mR/hr beta-gamma, <10 nCi/g alpha	1759	1335	1004	763	579
1 to <10 mR/hr beta-gamma, and <10 nCi/g alpha	10	8	8	8	8
10 to <100 mR/hr beta-gamma, and <200 nCi/g alpha	9	9	9	9	9
>200 nCi/g alpha	0	11	11	11	11

Table 15
Yearly Sample Analysis Summary for the Solid Waste Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	42	34	28	23	19
ANIONS	105	106	58	45	35
ASBESTOS	0	0	0	0	0
AT/TB	1768	1355	996	751	567
C-14	0	0	0	0	0
CR-VI	11	32	0	0	0
CYANIDE	11	32	0	0	0
DENSITY/SpG	0	0	0	0	0
DSC/TGA	0	0	0	0	0
FLASH POINT	0	0	0	0	0
GEA	68	54	43	34	27
H-3	0	0	0	0	0
I-129	0	0	0	0	0
MASS SPEC	0	0	0	0	0

MERCURY	11	32	0	0	0
METALS	230	200	128	98	75
OTHER INORGANICS	110	88	71	57	46
OTHER ORGANICS	136	126	70	53	40
OTHER RAD CHEM	22	64	0	0	0
PEST/PCB	11	32	0	0	0
pH/CONDUCT/OH-	230	200	128	98	75
PU-238/39/40	42	34	28	23	19
SE-79	52	40	30	22	16
SR-90	0	0	0	0	0
TC-99	0	0	0	0	0
TCLP	0	0	0	0	0
TIC/TOC	167	128	98	76	59
URANIUM	0	0	0	0	0
VOA/SVOA	147	158	70	53	40
WET CHEMISTRY	0	0	0	0	0
WTPH/OIL/GREASE	0	0	0	0	0
TOTAL	3163	2715	1748	1333	1018

Table 16
Yearly Sample Projection Summary by Protocol for the Solid Waste Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
RCRA	1968	1505	1174	933	749

Table 17
Yearly Sample Projections by Matrix for the Solid Waste Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	158	131	98	81	65

OTHER	1556	1167	875	656	492
SLUDGE	33	26	19	14	10
SOLID/SOIL	211	182	182	182	182

4.4 LIQUID EFFLUENTS

Sample projections for the Liquid Waste Disposal program have been provided for the 200 Area LEF and 300 Area LEF. The 242A Evaporator Projects are included with TWRS.

Table 18 provides the yearly sample projections by radiation level. Table 19 provides the yearly sample analysis summary. Table 20 provides the yearly sample projections by protocol. Table 21 provides the yearly sample projections by matrix.

TRENDS

Sample projections for the Liquid Effluents Program for FY 1997 have decreased slightly from 1,900 samples in FY 1996 to 1,600 samples (approximately 15%). Sample Projections remain level from FY 1997 through FY 2001. The cyclic operations of treatment facilities cause severe peak and valley work loads for the laboratories.

Table 18
Yearly Sample Projections by Radiation Level for the Liquid Effluent Program

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	400	400	400	400	400
<1 mR/hr beta-gamma; <10 nCi/g alpha	1058	1058	1058	1058	1058
1 to <10 mR/h beta-gamma, and <10 nCi/g alpha	60	60	60	60	60

Table 19
Yearly Sample Analysis Summary for the Liquid Effluent Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	161	161	161	161	161
ANIONS	368	368	368	368	368

ASBESTOS	0	0	0	0	0
AT/TB	533	533	533	533	533
C-14	156	156	156	156	156
CR-VI	0	0	0	0	0
CYANIDE	318	318	318	318	318
DENSITY/SpG	25	25	25	25	25
DSC/TGA	5	5	5	5	5
FLASH POINT	0	0	0	0	0
GEA	445	445	445	445	445
H-3	201	201	201	201	201
I-129	172	172	172	172	172
MASS SPEC	0	0	0	0	0
MERCURY	508	508	508	508	508
METALS	528	528	528	528	528
OTHER INORGANICS	64	64	64	64	64
OTHER ORGANICS	64	64	64	64	64
OTHER RAD CHEM	262	262	262	262	262
PEST/PCB	16	16	16	16	16
pH/CONDUCT/OH-	191	191	191	191	191
PU-238/39/40	177	177	177	177	177
SE-79	0	0	0	0	0
SR-90	308	308	308	308	308
TC-99	156	156	156	156	156
TCLP	0	0	0	0	0
TIC/TOC	679	679	679	679	679
URANIUM	223	223	223	223	223
VOA/SVOA	960	960	960	960	960
WET CHEMISTRY	1016	1016	1016	1016	1016

WTPH/OIL/GREASE	61	61	61	61	61
TOTAL	7597	7597	7597	7597	7597

Table 20

Yearly Sample Projection Summary by Protocol for the Liquid Effluent Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
CWA	159	159	159	159	159
PROCESS CONTROL	12	12	12	12	12
RCRA	1347	1347	1347	1347	1347

Table 21

Yearly Sample Projection Summary by Matrix for the Liquid Effluent Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	1492	1492	1492	1492	1492
SLUDGE	26	26	26	26	26

4.6 SPENT NUCLEAR FUELS

Sample projections for the Spent Nuclear Fuels Program are provided for basin sludge characterization, liquid discharge and the 183KE water laboratory. No input was provided by the 183-KE air laboratory.

Table 22 provides the yearly sample projection by radiation level. Table 23 provides the yearly sample analysis summary. Table 24 provides the yearly sample projections by protocol. Table 25 provides the yearly sample projections by matrix.

TRENDS

Sample projections for the Spent Nuclear Fuels Program indicate water sampling with the canister sludge program ending in FY 1997. Support for fuel transportation to the Canister Storage building and to tank farms are included.

Table 22
Yearly Sample Projections by Radiation Level for the Spent Nuclear Fuel Program

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
<1 mR/hr beta-gamma, <10 nCi/g alpha	759	1012	1012	1012	
<10 mR/hr beta-gamma, and <200 nCi/g alpha	14	18	18	18	
10 to <100 mR/hr beta-gamma, and <200 nCi/g alpha	138	6			
>100 mR/hr beta-gamma	26	22			

Table 23
Yearly Sample Analysis Summary for the Spent Nuclear Fuel Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	52	50	24	24	0
ANIONS	96	22	0	0	0
ASBESTOS	0	0	0	0	0
AT/TB	649	726	700	700	0
C-14	0	0	0	0	0
CR-VI	0	0	0	0	0
CYANIDE	0	0	0	0	0
DENSITY/SpG	26	22	0	0	0
DSC/TGA	12	18	0	0	0
FLASH POINT	0	0	0	0	0
GEA	569	726	700	700	0
H-3	58	24	24	24	0
I-129	0	0	0	0	0
MASS SPEC	18	22	0	0	0
MERCURY	0	0	0	0	0

METALS	128	28	0	0	0
OTHER INORGANICS	14	4	0	0	0
OTHER ORGANICS	18	20	0	0	0
OTHER RAD CHEM	0	0	0	0	0
PEST/PCB	22	24	0	0	0
pH/CONDUCT/OH-	58	27	0	0	0
PU-238/39/40	340	380	354	354	0
SE-79	0	0	0	0	0
SR-90	324	346	336	336	0
TC-99	12	10	0	0	0
TCLP	0	0	0	0	0
TIC/TOC	32	25	0	0	0
URANIUM	116	68	42	42	0
VOA/SVOA	12	12	0	0	0
WET CHEMISTRY	0	0	0	0	0
WTPH/OIL/GREASE	0	0	0	0	0
TOTAL	2576	2554	2180	2180	0

Table 24
Yearly Sample Projection Summary by Protocol for the Spent Nuclear Fuel Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
PROCESS CONTROL	773	1030	1030	1030	
RCRA	164	28			

Table 25

Yearly Sample Projection Summary by Matrix for the Spent Nuclear Fuel Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	897	1018	1012	1012	
OTHER	14	18	18	18	
SLUDGE	26	22			

4.6 TRANSITION PROJECTS

Sample projections for Transition Projects are provided for the Plutonium Finishing Plant (PFP) Transition Project, the B-Plant/WESF Transition Project, the PUREX Project, and the FFTF Stabilization Project

Table 26 provides the yearly sample projections by radiation level. Table 27 provides the yearly sample analysis summary. Table 28 provided the yearly sample projections by protocol. Table 29 provides the yearly sample projections by matrix.

TRENDS

Transition Projects sample projections for FY 1997 show that sample loads are projected to decrease by approximately ten percent from FY 1997 to FY 1998 and remain steady through 2001. Filter media CAM and room air samples (18,200 samples) noted in revision 3 at PFP were not included in this report.

Table 26

Yearly Sample Projections by Radiation Level for the Transition Projects Program

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	178	178	178	179	178
<1 mR/hr beta-gamma, <10 nCi/g alpha	1438	1422	1365	1362	1361
1 to <10 mR/h beta-gamma, and <10 nCi/g alpha	22	21	1	2	0
<10 mR/hr beta-gamma, and <200 nCi/g alpha	158	31	25	28	24

10 to <100 mR/hr beta-gamma, and <200 nCi/g alpha	136	1	4	0	0
>100 mR/hr beta-gamma	12	0	0	0	0
>200 nCi/g alpha	66	66	66	66	66

Table 27
Yearly Sample Analysis Summary for the Transition Projects Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	75	9	4	4	4
ANIONS	636	457	436	440	430
ASBESTOS	40	10	0	0	0
AT/TB	1789	1606	1538	1562	1552
C-14	12	0	0	0	0
CR-VI	0	0	0	0	0
CYANIDE	19	5	5	5	5
DENSITY/SpG	79	5	0	0	0
DSC/TGA	88	30	24	24	24
FLASH POINT	39	15	7	11	1
GEA	871	758	690	698	688
H-3	15	0	0	0	0
I-129	2	0	0	0	0
MASS SPEC	0	0	0	0	0
MERCURY	19	2	2	11	1
METALS	246	147	139	143	132
OTHER INORGANICS	42	5	5	5	5
OTHER ORGANICS	65	21	18	22	12
OTHER RAD CHEM	64	0	0	0	0
PEST/PCB	23	17	17	13	13

pH/CONDUCT/OM-	920	810	802	826	817
PU-238/39/40	213	109	38	38	38
SE-79	14	0	0	0	0
SR-90	907	769	701	709	699
TC-99	0	0	0	0	0
TCLP	72	7	4	11	1
TIC/TOC	206	143	129	133	123
URANIUM	62	0	0	0	0
VOA/SVOA	182	80	72	76	66
WET CHEMISTRY	35	5	5	5	5
WTPH/OIL/GREASE	49	21	18	22	12
TOTAL	6784	5031	4654	4758	4628

Table 28

Yearly Sample Projection Summary by Protocol for the Transition Projects Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
RCRA	1968	1505	1174	933	749

Table 29

Yearly Sample Projection Summary by Matrix for the Transition Projects Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	989	708	692	700	680
OTHER	952	952	912	912	912
SOLID/SOIL	89	61	31	27	27

4.7 ANALYTICAL SERVICES

Sample projections for Analytical Services are provided for 222-S and WSCF plus waste returns from commercial laboratories. Work loads from other site laboratories are not included.

Table 30 provides the yearly sample projections by radiation level. Table 31 provides the yearly sample analysis summary. Table 32 provided the yearly sample projections by protocol. Table 33 provides the yearly sample projections by matrix.

TREND

Analytical Services sample projections for FY 1997 through FY 2001 remain level. A slight increase in FY 1997 is noted at WSCF for the commercial sample returns program.

Table 30

Yearly Sample Projections by Radiation Level for Analytical Services

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	15	15	15	15	15
<1 mR/hr beta-gamma <10 nCi/g alpha	8383	8323	8303	8303	8303

Table 31

Yearly Sample Analysis Summary for Analytical Services

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	4	4	4	4	4
ANIONS	202	142	122	122	122
ASBESTOS	20	20	20	20	20
AT/TB	8610	8550	8530	8530	8530
C-14	0	0	0	0	0
CR-VI	0	0	0	0	0
CYANIDE	18	18	18	18	18
DENSITY/SpG	0	0	0	0	0

DSC/TGA	0	0	0	0	0
FLASH POINT	0	0	0	0	0
GEA	222	162	142	142	142
H-3	12	12	12	12	12
I-129	0	0	0	0	0
MASS SPEC	0	0	0	0	0
MERCURY	176	116	96	96	96
METALS	382	332	312	312	312
OTHER INORGANICS	0	0	0	0	0
OTHER ORGANICS	0	0	0	0	0
OTHER RAD CHEM	0	0	0	0	0
PEST/PCB	0	0	0	0	0
pH/CONDUCT/OH-	176	116	96	96	96
PU-238/39/40	16	16	16	16	16
SE-79	0	0	0	0	0
SR-90	154	94	74	74	74
TC-99	0	0	0	0	0
TCLP	0	0	0	0	0
TIC/TOC	132	72	52	52	52
URANIUM	20	20	20	20	20
VOA/SVOA	130	70	50	50	50
WET CHEMISTRY	18	18	18	18	18
WTPH/OIL/GREASE	0	0	0	0	0
TOTAL	10302	9762	9582	9582	9582

Table 32
Yearly Sample Projections by Protocol for Analytical Services

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
PROCESS CONTROL	7788	7788	7788	7788	7788
RCRA	610	550	530	530	530

Table 33
Yearly Sample Projections by Matrix for Analytical Services

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	325	297	297	297	297
OTHER	5	3	1	1	1
SLUDGE	10	5	2	2	2
SOLID/SOIL	270	245	230	230	230
VAPOR	7788	7788	7788	7788	7788

4.8 SITE MONITORING

Sample projections for the Site Monitoring Program are provided for Environmental Monitoring, the Hanford Groundwater Monitoring Project, Bioassay Program, Environmental Support (Effluent and Near Field Monitoring). Limited data was received for Stack Monitoring (100 and 300 Areas were not received) and room air monitoring.

Table 34 provides the yearly sample projections by radiation level. Table 35 provides the yearly sample analysis summary. Table 36 provides the yearly sample projections by protocol. Table 37 provides the yearly sample projections by matrix.

TRENDS

Sample projections for the Site Monitoring Program remain level during the next 5 years.

Table 34
Yearly Sample Projections by Radiation Level for the Site Monitoring Program

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Non-Radioactive	5498	5498	5498	5498	5498
<1 mR/hr beta-gamma, <10 nCi/g alpha	2691	2691	2691	2691	2691

Table 35
Yearly Sample Analysis Summary for the Site Monitoring Program

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	352	352	352	352	352
ANIONS	858	858	858	858	858
ASBESTOS	0	0	0	0	0
AT/TB	3394	3394	3394	3394	3394
C-14	8	8	8	8	8
CR-VI	0	0	0	0	0
CYANIDE	52	52	52	52	52
DENSITY/SpG	0	0	0	0	0
DSC/TGA	0	0	0	0	0
FLASH POINT	0	0	0	0	0
GEA	1003	1004	1003	1004	1003
H-3	1542	1542	1542	1542	1542
I-129	384	370	382	370	382
MASS SPEC	0	0	0	0	0
MERCURY	176	176	176	176	176
METALS	669	698	698	698	698
OTHER INORGANICS	4715	2356	2356	2356	2356
OTHER ORGANICS	0	0	0	0	0

OTHER RAD CHEM	390	390	390	390	390
PEST/PCB	53	0	0	0	0
pH/CONDUCT/OH-	0	0	0	0	0
PU-238/39/40	2189	2196	2198	2196	2198
SE-79	0	0	0	0	0
SR-90	1239	1231	1214	1231	1214
TC-89	366	366	366	366	366
TCLP	0	0	0	0	0
TIC/TOC	1758	1758	1758	1758	1758
URANIUM	1207	1210	1187	1210	1187
VOA/SVOA	441	256	256	256	256
WET CHEMISTRY	0	0	0	0	0
WTFH/OIL/GREASE	4	4	4	4	4
TOTAL	21000	18221	18194	18221	18194

Table 36
Yearly Sample Projection Summary by Protocol for the Site Monitoring Program

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
10CFR834	966	966	966	966	966
CAA	600	600	600	600	600
CWA	64	64	64	64	64
OTHER	150	150	150	150	150
PROCESS CONTROL	4633	4633	4633	4633	4633
RCRA	1758	1758	1758	1758	1758
SDWA	18	18	18	18	18

Table 37
Yearly Sample Projection by Matrix for the Site Monitoring Program

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LIQUID	2368	2368	2368	2368	2368
OTHER	4834	4834	4834	4834	4834
SOLID/SOIL	168	168	168	168	168
VAPOR	819	819	819	819	819

4.9 INDUSTRIAL HYGIENE

Sample projections for Industrial Hygiene are based on a customer survey conducted in October. The categorization by radiation level was based on the assumption that >99% of the samples will be nonradioactive, while a small number (<1%) may be slightly radioactive. No information was received for drinking water sample analyses.

Table 38 provides the yearly sample projection by radiation level. Table 39 provides the yearly sample analysis summary. Table 40 provides the yearly sample projections by protocol. Table 41 provides the yearly sample projections by matrix.

TRENDS

Industrial Hygiene sample loads are anticipated to remain level from FY 1997 through FY 2001.

Table 38
Yearly Sample Projections by Radiation Level for Industrial Hygiene

Radiation Level	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
<1 mR/hr beta-gamma, <10 nCi/g alpha	2000	2000	2000	2000	2000

Table 39
Yearly Sample Analysis Summary for Industrial Hygiene

Analysis	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AM-241	0	0	0	0	0
ANIONS	0	0	0	0	0
ASBESTOS	2000	2000	2000	2000	2000
AT/TB	0	0	0	0	0
C-14	0	0	0	0	0
CR-VI	0	0	0	0	0
CYANIDE	0	0	0	0	0
DENSITY/SpG	0	0	0	0	0
DSC/TGA	0	0	0	0	0
FLASH POINT	0	0	0	0	0
GEA	0	0	0	0	0
H-3	0	0	0	0	0
I-129	0	0	0	0	0
MASS SPEC	0	0	0	0	0
MERCURY	0	0	0	0	0
METALS	0	0	0	0	0
OTHER INORGANICS	0	0	0	0	0
OTHER ORGANICS	0	0	0	0	0
OTHER RAD CHEM	0	0	0	0	0
PEST/PCB	0	0	0	0	0
pH/CONDUCT/OH-	0	0	0	0	0
PU-238/39/40	0	0	0	0	0
SE-79	0	0	0	0	0
SR-90	0	0	0	0	0
TC-99	0	0	0	0	0

TCLP	0	0	0	0	0
TIC/TOC	0	0	0	0	0
URANIUM	0	0	0	0	0
VOA/SVOA	0	0	0	0	0
WET CHEMISTRY	0	0	0	0	0
WTPH/OIL/GREASE	0	0	0	0	0
TOTAL	2000	2000	2000	2000	2000

Table 40

Yearly Sample Projection Summary by Protocol for Industrial Hygiene

Protocol	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
IH	2000	2000	2000	2000	2000

Table 41

Yearly Sample Projection Summary by Matrix for Industrial Hygiene

Matrix	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
OTHER	2000	2000	2000	2000	2000

4.10 MISCELLANEOUS HANFORD SUPPORT

No information was received on Construction Project Analytical service needs.

4.11 LABORATORY SCALE TECHNOLOGY (DEVELOPMENT) SUPPORT

No inputs were received from the programs on Laboratory Scale Technologies support. Two laboratory organizations provided input on development support provided to a variety of program customers in fiscal year 1997. A summary of these activities is provided in Tables 42 and 43.

Table 42
222-S Laboratories Scale Technology Support

DESCRIPTION	FTE's
Flammable Gas: Ammonia	0.8
Flammable Gas: Gas Generation	0.6
Flammable Gas: Retained Gas Sample	3.2
Develop Propagation Tester	2.2
TWRS Characterization Pool (RSST, Particle Size, Boildowns)	2.0
ETP Valve Evaluation (SEM/EDS)	0.06
B-Plant Filtrate	0.1
B-Plant Char'n Sample Analysis	0.1
Statistics Support to HTI	0.5
Privatization Envelope B	0.3
Organic Pathway (90% complete)	0.05
Analytical Tool Development	0.3
Survey Lit on Tank Gels (done)	0.05
Overhead	1.5
Total Funded	12.26

Table 43
PPF Laboratory Scale Technology Support

Development/demonstration of process for the conversion of the plutonium bearing solutions to plutonium oxide.
Development/demonstration of process for the cementation of Sand, Slag and Crucible (SS&C)
Investigation of the feasibility of silver persulfate for removal of plutonium from ash materials.
Development of operating parameters for the treatment of plutonium bearing solutions prior calcination.
Investigation of various decontamination methods for possible use on the facility gloveboxes/canyon

Provide technical support to the K Basin Spent Fuels program
--

Investigation of the organic solubilities in the high-level waste tanks

Investigation of the 'red oil' (TBP-nitric acid) reactions for DOE-HQ

4.12 SAMPLE MANAGEMENT SUPPORT

Inputs on sample management support were received from the three centralized Sample Management Offices of HASP, BHI and PNNL. Table 44 provides a summary of FTE's assigned to these activities in fiscal years 1996 and 1997. Information on other Sample Management Office work performed in the projects was not received.

Table 44

Sample Management Office Support

Organization	FTE's	
	FY 1996	FY 1997
HASP	13	8
BHI	19	10
PNNL	4.7	2

4.13 DATA MANAGEMENT SUPPORT

No inputs were received from the major Projects on data management. Inputs from the three centralized sample management office is summarized in Table 45.

Table 45

Data Management Support

ACTIVITY	PROG.	SITE DATA LINKS	ADS #	DESCRIPTION
HEIS	ER	SDT, WIDS, HGIS, EDMS, PSDS	3400	Oracle database, currently converting to Oracle 7.3
WIDS	ER	HEIS, HGIS, EDMS	3400	MS Access database system
SDT	ER	HEIS	3400	MS Access user interface Oracle 7.3 database tables

PSDB	ER	HEIS, Treatment Process Systems	Project Specific/ 3400	MS Access user interface Oracle 7.3 database tables
HEIS GW Program	PNNL	SDT, WIDS, HGIS, EDMS, PSDB	3400	Oracle database, currently converting to Oracle 7.3
WIDS	RUST	HEIS, HGIS, EDMS	3400	MS Access database system
SDT	RUST	HEIS	3400	MS Access user interface Oracle 7.3 database tables
LEMIS	RUST	Through Phil Olson		

APPENDIX I

ENVIRONMENTAL RESTORATION PROGRAM INPUTS

A-1-62

Bechtel Hanford, Inc.

Bechtel Corporate Center I
3250 George Washington Way
Richland, WA 99362
Telephone (509) 375-4640 Fax (509) 375-4644

040100

Job No. 23192
Written Response Requested: NO
Copy CLM 03782
DT: N/A
TSD: N/A
EPA: N/A
Subject Code: 4440

NOV 07 1996

Fluor Daniel Hanford, Inc.
C. G. Mattsson, Manager
Waste Management
Post Office Box 1000, N1-26
Richland, Washington 99352

Dear Mr. Mattsson:

Subject: **ERC ANALYTICAL PROJECTIONS UPDATE FOR NOVEMBER 1996**

Reference: Letter, A. G. King, Rust, to Contractors, "Analytical Services Projections Update for November 1996," CCN 9654758, dated October 14, 1996

Enclosed are the ERC Sample Projections for 1997 through 2001. They are being provided to you in existing ERC Sample Projection format. All groundwater scope is included in sample summaries and the worksheets provide details to the work transition as a result of the groundwater consolidation effort.

If you have any questions, please contact Joan Keggner on 372-9538.

Sincerely,

S. C. Foelber
for S. C. Foelber
Manager, Engineering and Technology
JHK:map

Enclosure: **ERC Sample Projections for 1997 through 2001**

cc: A. G. King (Rust) T6-03, w/enclosure

ANALYTICAL SERVICES SAMPLE PROJECTIONS SURVEY**ORGANIZATION:** ERC/BHI/Sample and Data Management**POINT-OF-CONTACT:** Joan Kessner

SAMPLE MANAGEMENT				
ACTIVITY	PROGRAM	FACILITY	ADS #	DESCRIPTION
Technical Oversight	ER	---	3400	Contract/SOW Contract Performance Monitoring
Sample Management	ER	---	Project Specific	Sample Coordination Sample/Data Tracking Project Coordination
Document Control	ER	---	3400	Data Management Clerk
LABORATORY SCALE TECHNOLOGY				
ACTIVITY	PROGRAM	FACILITY	ADS #	DESCRIPTION
N/A				
DATA MANAGEMENT				
ACTIVITY	PROGRAM	SITE DATA LINKS	ADS #	DESCRIPTION
HEIS	ER	SDT, WIDS, HGIS, EDMS, PSDB	3400	Oracle database, currently converting to Oracle 7.3
WIDS	ER	HEIS, HGIS, EDMS	3400	MS Access database system
SDT	ER	HEIS	3400	MS Access user interface Oracle 7.3 database tables
PSDB	ER	HEIS, Treatment Process Systems	Project Specific/ 3400	MS Access user interface Oracle 7.3 database tables

SAMPLE PROJECTIONS WORKSHEETYear: FY 97Project: 100-Area CSE

Funding Source: _____

Contact: J. M. AyresReference: 10/14/96

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliforms, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest PCB	Other TPH					pH	Cond.	Geo-Tech		Other
Field Analysis	45	Soil			20	45								Field Screening
Quick Turnaround Laboratory														
Low Level Protocol Lab	35	Soil			20	35				10				
222-S/ PNNL	26	Soil					26							
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments: Number of samples/analysis for testing is approximate. Numbers do not include QA/QC samples (~5-10%)

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project 100-BC-3 RI/FSFunding Source Contact R. E. PetersonReference

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad. Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	20 9 6	Water Water Water				6				20 9	20 9			HACH Cr ⁶
Quick Turnaround Laboratory														
Low Level Protocol Lab	20 9 2	Water Water Soil				20 2	20 9 2		20 2					Sr-90
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments:

CERCLA Characterization sampling is assumed to transfer from ERC to PNNL

Assumes 16 wells annually, 2 seeps annually, 4 wells quarterly

Seeps include (2) water and (1) sediment samples for each event

The planned groundwater sampling event is on hold

SAMPLE PROJECTIONS WORKSHEET

Year 1998-2001
 (Numbers listed are per year for the period)

Project 100-BC-5 RI/FS

Funding Source

Contact R. E. Peterson

Reference

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	20 9 6	Water Water Water				6				20 9	20 9			HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	20 9 2	Water Water Soil				20 2	20 9 2		20 2					Sr-90
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

CERCLA Characterization sampling is assumed to transfer from ERC to PNNL

Assumes 16 wells annually, 2 seeps annually, 4 wells quarterly

Seeps include (2) water and (1) sediment samples for each event

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 100 B/CFunding Source: 3100Contact: Jon Fancher

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other		
Field Analysis	320	soil					X							GEA	
Quick Turnaround Laboratory	220	soil				X	X							gamma spec., gamma spec add-on, ICP metals, Cr6, Hg, Am 241, Isotopic Pu & U, Sr	
Low Level Protocol Lab	130	soil				X	X							gamma spec., gamma spec add-on, ICP metals, Cr6, Hg, Am 241, Isotopic Pu & U, Sr	
222-S/ PNNL															
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															

SAMPLE PROJECTIONS WORKSHEET

Year: 1998Project: 100-B/CFunding Source: 3100Contact: Jon Fauscher

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad Chem	Coliforms, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	320	soil					X							GEA
Quick Turnaround Laboratory	200	soil				X	X							gamma spec., gamma spec add-on, ICP metals, Cr6, Hg, Am 241, Isotopic Pu & U, Sr
Low Level Protocol Lab	111	soil				X	X							gamma spec., gamma spec add-on, ICP metals, Cr6, Hg, Am 241, Isotopic Pu & U, Sr
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments: Project ends at the end of 1998, therefore no sample projections required beyond 1998

SAMPLE PROJECTIONS WORKSHEET

Year: 1997 through 1999Project: 100-D Group 2

Funding Source: _____

(3 full years used, subcontract is for 10/96 through 4/99)

Contact: Gary Hamilton/Grant Corpuz

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis	3000	Soil				3000								
Quick Turnaround Laboratory	300	Soil	30				300							
Low Level Protocol Lab	60	Soil	60	0-10			60							1 per decision unit Decision Unit = 10,000ft ² May need 20% more than this
222-S/ PNNL	60	Soil					60							Total activity for shipping. Al Davis may be able to support this
Industrial Hygiene	600						600							Very tentative - IH support is not presently indicated
Other (PC, TRU)	3000						3000							TRU not presently indicated, however, pipe characterization yet to come

Additional Comments:

** Projected for 3 years

** May need IH for pipe removal

** Process samples

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project 100-ER-3 RI/FS

Funding Source _____

Contact R. E. Peterson

Reference _____

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	25 9 6	Water Water Water				6			6	25 9	25 9			HACH Cr ⁶⁺ , NO ₃
Quick Turnaround Laboratory														
Low Level Protocol Lab	25 6 3	Water Water Soil				25 3	25 6 3		25 3					Sr-90
212-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

CERCLA Characterization sampling is assumed to transfer from ERC to PNNL.

Assumes 19 wells annually, 3 seeps annually, 4 wells quarterly

Seeps include (2) water and (1) sediment samples for each event

The planned groundwater sampling event is on hold

SAMPLE PROJECTIONS WORKSHEET

Year: 1998-2001
 (Numbers listed are per year for the period)

Project: 100-FR-3 RI/FS

Funding Source: _____

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech		Other
Field Analysis	25 9 6	Water Water Water				6				25 9	25 9			HACH Cr ⁶⁺ , NO ₃
Quick Turnaround Laboratory														
Low Level Protocol Lab	25 6 3	Water Water Soil				25 3	25 6 3		25 3					Sr-90
222-Sr PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

CERCLA Characterization sampling is assumed to transfer from ERC to PNNL

Assumes 19 wells annually, 3 seeps annually, 4 wells quarterly

Seeps include (2) water and (1) sediment samples for each event

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project 100-HR-3 RI/FS
(Includes 100-D/DR and 100-H Areas)
Contact R. E. Peterson

Funding Source _____

Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis	47 21 18	Water Water Water				18				47 21	47 21			HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	47 3 8					47 8	47 3 8		47 8					Sr-90
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments:

CERCLA Characterization sampling is assumed to transfer from ERC to PNNL

Assumes 31 wells annually, 8 seeps annually, 7 wells quarterly

Seeps include (2) water and (1) sediment samples for each event

SAMPLE PROJECTIONS WORKSHEET

Year: 1998-2001
 (Numbers listed are per year for the period)

Project: 100-HR-3 RI/FS
 (Includes 100-D/DR and 100-H Areas)
 Contact: R. E. Peterson

Funding Source: _____

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments		
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech		Other	
Field Analysis	47 21 18	Water Water Water				18					47 21	47 21			HACH Cr ⁶⁺
Quick Turnaround Laboratory															
Low Level Protocol Lab	47 3 8					47 8	47 3 8		47 8						Sr-90
222-S/ PNNL															
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments: CERCLA Characterization sampling is assumed to transfer from ERC to PNNL. Assumes 31 wells annually, 8 seeps annually, 7 wells quarterly Seeps include (2) water and (1) sediment samples for each event.															

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 100-HR-3 (D) IRM

Funding Source: _____

(Operations)

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliforms, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo- Tech	Other	
Field Analysis	10	Water				10				10	10			HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	10	Water					10		10					Sr-90, Tc-99, tritium, and uranium
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: Sampling associated with extraction/injection wells Assumes 2 extraction and 0 injection wells														

SAMPLE PROJECTIONS WORKSHEET

Year 1998-2001Project 100-HR-3 (D)IRM

Funding Source: _____

(Numbers listed are per year for the period)

(Operations)

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	10	Water				10				10	10			HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	10	Water					10		10					Sr-90, tritium
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments Sampling associated with extraction/injection wells Assumes 2 extraction and 0 injection wells														

SAMPLE PROJECTIONS WORKSHEETYear 1997Project: 100-HR-3 (D)IRM
(Performance/Compliance)

Funding Source: _____

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliforms, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tools	Other	
Field Analysis	12 §	Water Water				12 §				12 §	12 §			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments CERCLA Compliance/Performance sampling is assumed to transfer from ERC to PNNL. Assumes 3 compliance wells sampled monthly and quarterly during FY1997 Assumes 4 performance wells samples semiannually in FY1997														

SAMPLE PROJECTIONS WORKSHEET

Year 1998-2001
 (Numbers listed are per year for the period)

Project: 100-HR-3 (D)IRM
 (Performance/Compliance)
 Contact: R. E. Peterson

Funding Source: _____
 Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	12 8	Water Water				12 8				12 8	12 8			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments CERCLA Compliance/Perform sampling is assumed to transfer from ERC to PNNL Assumes 3 compliance wells and 4 performance monitoring wells														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 100-HR-3 (HIRM)
(Operations)

Funding Source: _____

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	25 3	Water Water				25 3				25 3	25 3			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	10 3	Water Water					10 3		10 3					Se-90, Tc-99, uranium, and plutonium Sr-90, Tc-99, plutonium, and americium
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: Sampling associated with extraction/injection wells Assumes 5 extraction and 3 injection wells														

SAMPLE PROJECTIONS WORKSHEET

Year: 1998-2001
 (Numbers listed are per year for the period)

Project: 100-HR-3 (H)IRM
 (Operations)
 Contact: R. E. Peterson

Funding Source: _____
 Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	25 3	Water Water				25 3				25 3	25 3			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	10 3	Water Water					10 3		10 3					Si-90, Te-99, cesium, and uranium Sr-90, Te-99, uranium, and unknown
222-R/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: Sampling associated with extraction/injection wells Assumes 5 extraction and 3 injection wells														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 100-HR-3 (H)IRM
(Performance/Compliance)

Funding Source: _____

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	20 36	Water Water				20 36				20 36	20 36			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab														
272-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

CERCLA Compliance/Perform sampling is assumed to transfer from ERC to PNNL.
 Assumes 4 compliance wells sampled monthly and quarterly during FY1997
 Assumes 18 performance wells samples semiannually in FY1997

SAMPLE PROJECTIONS WORKSHEET

Year: 1998-2001
 (Numbers listed are per year for the period)

Project: 100-HR-3 (H) IRM
 (Performance/Compliance)
 Contact: R. E. Peterson

Funding Source: _____

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analyses	16 36	Water Water				16 36				16 36	16 36			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments CERCLA Compliance/Perform sampling is assumed to transfer from ERC to PNNL Assumes 4 compliance wells and 18 performance monitoring wells														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 100-KR-4 RI/FS

Funding Source: _____

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Red Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech		Other
Field Analysis	26 21 9	Water Water Water				9				26 21	26 21			HACH Cr ⁶
Quick Tamaround Laboratory														
Low Level Protocol Lab	26 12 3	Water Water Soil				26 3	26 12 3		26 3					Sr-90, tritium
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: CERCLA Characterization sampling is assumed to transfer from ERC to PNNL. Assumes 20 wells annually, 3 seeps annually, 7 wells quarterly Seeps include (2) water and (1) sediment samples for each event														

SAMPLE PROJECTIONS WORKSHEET
 Year 1998-2001
 (Numbers listed are per year for the period)
Project 100-KR-4 RI/FS

Funding Source _____

Contact R. E. Peterson

Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	26 21 9	Water Water Water				9				26 21	26 21			HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	26 12 3	Water Water Soil				26 3	26 12 3		26 3					Sr-90, tritium
222-S/ PNNL														
Industrial Hygiene														
Other (EC, TRU)														
Additional Comments CERCLA Characterization sampling is assumed to transfer from ERC to PNNL Assumes 20 wells annually, 3 seeps annually, 7 wells quarterly Seeps include (2) water and (1) sediment samples for each event														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 100-KR-4 RI/FS

Funding Source: _____

(Operations)

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	24 3	Water Water				24 3				24 3	24 3			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab	12 3	Water Water					12 3							Sr-90, tritium Sr-90, tritium
222-Sr PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: Sampling associated with extraction/injection wells Assumes 6 extraction and 3 injection wells														

SAMPLE PROJECTIONS WORKSHEET

Year: 1998-2001
 (Numbers listed are per year for the period)

Project: 100-KR-4 RIES
 (Operations)
 Contact: R E Peterson

Funding Source: _____
 Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chain	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	24 3	Water Water				24 3				24 3	24 3			HACH Cr ⁶ HACH Cr ⁶
Quick Turnaround Laboratory														
Low Level Protocol Lab	12 3	Water Water					12 3							Sr-90, tritium Sr-90, tritium
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: Sampling associated with extraction/injection wells Assumes 6 extraction and 3 injection wells														

SAMPLE PROJECTIONS WORKSHEETYear: 1997Project: 100-KR-4 IRM
(Performance/Compliance)

Funding Source: _____

Contact: R. E. Peterson

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech		Other
Field Analysis	25 8	Water Water				25 8				25 8	25 8			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

CERCLA Compliance/Perform sampling is assumed to transfer from ERC to PNNL

Assumes 1 compliance wells sampled monthly and quarterly in FY 1997

Assumes 4 performance wells sampled semiannually in FY 1997

SAMPLE PROJECTIONS WORKSHEET

Year 1998-2001
 (Numbers listed are per year for the period)

Project 100-KR-4 IRM
 (Performance/Compliance)
 Contact R. E. Peterson

Funding Source _____
 Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	25 8	Water				25 8				25 8	25 8			HACH Cr ⁶⁺ HACH Cr ⁶⁺
Quick Turnaround Laboratory														
Low Level Protocol Lab														
223-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments CERCLA Compliance/Perform sampling is assumed to transfer from ERC to PNNL Assumes 5 compliance and 4 performance monitoring wells														

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project 105-N Basin

Funding Source _____

Contact David Pisarcik

Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis														
Quick Turnaround Laboratory	4	Water				X	X			X	X		X	
Low Level Protocol Lab														
222-S/ PNNL	2	Sediment		X		X	X			X				
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 107-N Basin

Funding Source: _____

Contact: Oreste A. Nossardi

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL	12 13 4	Water Other QA	X X X	X X X		X X X	X X X							
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997 - 2001

(Numbers represent samples per year)

Project: 183-N Water PlantFunding Source: BUN2WW-2W2GContact: Dorman BlankenshipReference: 216/WAC 246-290

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wat Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab	26	Water	12							26			26 26 26 12 12	Trihalomethane Sulfate CL ₂ Residual TSS Acrylamide
222-S/ PNNL														
Industrial Hygiene														
Other - DOH (PC, TRU)	200	Water						200						Water Plant Water Distribution
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: 200-UP-1

Funding Source: _____

Contact: M. Buckmaster

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Clean	Coliform, BOD	Wet Clean	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo- Tech	Other		
Field Analysis	328 160	GW GW	328				160								
Quick Turnaround Laboratory															
Low Level Protocol Lab	24	GW	24												
222-S/ PNNL	150	GW					150								
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															

SAMPLE PROJECTIONS WORKSHEETYear: 1998-2001Project: 200-UP-1

Funding Source: _____

Contact M. Buckmaster

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo- Tech	Other		
Field Analysis															
Quick Turnaround Laboratory															
Low Level Protocol Lab															
222-S/ PNNL															
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															
No sampling planned															

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project 200-ZP-1

Funding Source _____

Contact M. BuckmasterReference DOE-RJ-96-07, Rev 1

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliforms, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis	500	GW	500											~200 well samples ~500 process samples
Quick Turnaround Laboratory														
Low Level Protocol Lab	50	GW	50											QC samples
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEETYear: 1998-2001Project: 200-ZP-1

Funding Source: _____

Contact: M. BuckmasterReference: DOE-RL-96-07, Rev. 1

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other		
Field Analysis	240	GW	240											~120 well samples ~120 process samples	
Quick Turnaround Laboratory															
Low Level Protocol Lab	24	GW	24											QC samples	
222-S/ PNNL															
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															

HNF-SD-WM-TI-608 Rev 4
SAMPLE PROJECT DNS WORKSHEET

Year 1997 - 2001

Project 300-FF-5 Post Closure Monitoring

Funding Source ADS 3800

Contact CJ Kemp/RG Eggs or PNNL (?)

Reference DOE/RL-95-73

	N of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform + BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Test		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab	17	Water/ Filtered	10 wells for trichloroethene and 6 of these wells are sampled for cis-1,2-dichloroethene				Total Uranium for 17 wells							8 of the wells to be sampled for this program are duplicated under the RCRA program therefore the ERC CERCLA uses that information in lieu of performing these samples. The RCRA program is under PNNL.
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments Three invertebrate samples are also to be taken during this work in 1998 and 2000. These will be three samples to include trichloroethene, cis-1,2-dichloroethene, and total Uranium.

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: Summary Sheet

Funding Source: _____

Contact: Joan Kessner

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	2726		828		20	1296	480			296	296		3	
Quick Turnaround Laboratory	711		42		28	240	602	12	80	4	4		4	
Low Level Protocol Lab	713		131	5	42	348	517	12	132	36			26	
222-S/ PNNL	635		41	31		68	635	28		7				
Industrial Hygiene	295				95		200							
Other (PC, TRU)	1364		160		160	4	1200		160				160	
Additional Comments														

SAMPLE PROJECTIONS WORKSHEETYear 1998Project: Summary Sheet

Funding Source: _____

Contact: Joey Kessner

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Red Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other		
Field Analysis	2014		300			1269	380			355	355		3		
Quick Turnaround Laboratory	476		10		12	200	436		18						
Low Level Protocol Lab	580		99	5	12	307	469		182	26			26		
222-S/ PNNL	227						227	16							
Industrial Hygiene	200						200								
Other (PC, TRU)	1364		160		160	4	1200		160				160		
Additional Comments															

SAMPLE PROJECTIONS WORKSHEETYear: 1999Project: Summary Sheet

Funding Source: _____

Contact: Joan Kessner

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis	1634		240			1209				355	355		3	
Quick Turnaround Laboratory	276		10		12	0	236		18					
Low Level Protocol Lab	439		69	5	12	166	328		182	26			26	
222-S/ PNNL	227						227	16						
Industrial Hygiene	200						200							
Other (PC, TRU)	1364		160		160	4	1200			160			160	
Additional Comments:														

SAMPLE PROJECTIONS WORKSHEET

Year: 2000 through 2001Project: Summary Sheet

Funding Source: _____

Contact: Joan Kessner

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	634		240			209				355	355		3	
Quick Turnaround Laboratory	176				12		136		18					
Low Level Protocol Lab	419		49		12	166	308		182	26			26	
222-S/ PNNL	207						207	16						
Industrial Hygiene														
Other (PC, TRU)	364		160		160	4	200			160			160	
Additional Comments:														

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project: D&D/105-C

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semia-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis	50+	Other				50								
Quick Turnaround Laboratory														
Low Level Protocol Lab	10	Other					10							
222-S/ PNNL														
Industrial Hygiene	50+	Other				50								
Other (PC, TRU)														

Additional Comments

Depending on the availability of the D&D XRF instrument for lead paint analysis, sample analysis will be performed in the field by D&D or sent to an industrial hygiene laboratory for analysis.

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project D&D/202-SFunding Source Contact D. B. EnckeReference

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Californ. BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL	5	Other				5	5			5				
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														
Very high levels of alpha activity and could have over 100mR/hr on contact dose rate														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: D&D/3706

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech	Other	
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab	50	Other		5		50	50							
222-S/ PNNL														
Industrial Hygiene	50	Other			50									
Other (PC, TRU)														
Additional Comments														
Historical research of facility is not yet complete. Estimates are SWAGs at this time.														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997Project: D&D/1608-B

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab	10	Other					10							
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEETYear: 1997Project: D&D/118-C-4 (Rad Cave)

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo- Tech	Other	
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab	5	Other					5							
222-Sr/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project: D&D/111-B

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Geo-Tech		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab	5*	Other				5	5							
222-S/ PNEL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

Current information shows there is a potential for the samples to exceed rad levels for off-site laboratories. Additional historical research may confirm this uncertainty. These samples will probably require a drilling rig to take ~10' long concrete core samples.

SAMPLE PROJECTIONS WORKSHEETYear: 1997Project: D&D/1202-C

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond.	Ceo- Tech	Other	
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-Sr/ PNNL														
Industrial Hygiene	15	Other			15									
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEETYear 1997Project D&D/119-B

Funding Source: _____

Contact: D. B. Encke

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Red Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis														
Quick Tentatound Laboratory														
Low Level Protocol Lab														
232-S/ PNNL														
Industrial Hygiene	5	Other			5									
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEETYear 1997Project D&D/233-S

Funding Source _____

Contact D. B. Encke

Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VDA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL	20	Other				20	20							
Industrial Hygiene	25	Other			25									
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year FY1997 - 2001Project 300-BF-2Funding Source 1P22104Contact L. C. Hulstrom (10/15/96)Reference DOE/RI-96-42

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis	3	GW								3	3		3	
Quick Turnaround Laboratory														
Low Level Protocol Lab	3	GW	4/2		2	6	3							
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments: One annual round of sampling at well 699-13-3A. Semi-annual sampling at well 699-S6-E4A. Metals include both filtered and unfiltered. Rad Chem includes gross alpha, gross beta, total uranium, and GEA. Other Organic include the WTPH series (TPH, WTPH-D, WTPH-G). VOA/Semi-VOA include the 2 E4A samples plus a VOA trip blank for each event. Other Physical includes temperature, turbidity, and dissolved oxygen. Sampling for each fiscal year is projected to be the same unless conditions or work scope changes occur.

SAMPLE PROJECTIONS WORKSHEET

Year FY1998Project 300-FF-2Funding Source IP22110Contact L. C. Hulstrom (10/15/96)Reference MYWP

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi VOA	Pest/ PCB	Other					pH	Cond	Geo- Tech	Other	
Field Analysis	60	Soil	60			60	60							
Quick Turnaround Laboratory														
Low Level Protocol Lab	30	Soil	30			30	30							
272-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments: Waste Site Reclassification - Assume 30 sites are evaluated, field screening is used primarily, approximately 10 sites will require minor amounts of offsite analysis for confirmation. Assume 6 samples per site for field screening for 10 sites. Assume 3 samples and 10 sites for offsite confirmation.														

SAMPLE PROJECTIONS WORKSHEET

Year 1997 - 2001Project Horn Rapids LandfillFunding Source ADS 3800Contact CJ Kemp or EG Egge or PNNL (?)Reference DOE/RI-95-50, DOE/RI-95-80 Draft

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo Tech		Other
Field Analyses														
Quick Turnaround Laboratory														
Low Level Protocol Lab	15	Water/ Filtered	14 wells for TCE, Vinyl Chloride, 1,1-dichloroethene		11 wells nitrate	1 well chrom-m-nium filtered								Post-closure work that is now in PNNL's work scope
223-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments

Not included in ERC sample totals -- provided as information

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project N-Basin CleanupFunding Source RUNBMTD100Contact Julian Laurenz

Reference _____

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo- Tech	Other		
Field Analysis															
Quick Turnaround Laboratory	12-24	H2O	X			X	X	X						All analysis will probably not be required for each sample	
Low Level Protocol Lab	12-24	H2O	X			X	X	X						Same comment as above	
222-S/ PNNL	12-24	H2O	X			X	X	X						Same comment as above	
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															

SAMPLE PROJECTIONS WORKSHEET

Year 1997Project N-DeactivationFunding Source UN2101Contact J. Zeng/J. MoffittReference Wells N46-47-48

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other		
Field Analysis															
Quick Turnaround Laboratory															
Low Level Protocol Lab															
222-S/ PNNL	36	Water					36							Wells, N46, 47, and 48	
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															
Water samples from Wells N46, 47, and 48 to 222-S for rad analysis															

SAMPLE PROJECTIONS WORKSHEET

Year: 1997-2001

(Numbers reflect total samples each year)

Project: N-DeactivationFunding Source: UN2101Contact: J. Zoric/J. MoffittReference: NPDES

	# of Samples	Matrix	ANALYSIS											Comments
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis	4	Water								4	4			
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL	4	Water					4							
Industrial Hygiene														
Other (PC, TRU)	4	Water				4								

Additional Comments

Required by NPDES Permit

After Deactivation - requirement will be passed onto D&D

SAMPLE PROJECTIONS WORKSHEET

Year: 1997-2001
 (Numbers reflect total samples each year)

Project: N-Deactivation

Funding Source: UN2101

Contact: J. Zane/J. Moffitt

Reference: Rad Air Permit

	# of Samples	Matrix	ANALYSIS											Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical					
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other		
Field Analysis															
Quick Turnaround Laboratory															
Low Level Protocol Lab															
222-Sr PNNL	27	Air					27								
Industrial Hygiene															
Other (PC, TRU)															
Additional Comments															
26 air samples from 116N Stack. 1 smelter sample from 107N															

SAMPLE PROJECTIONS WORKSHEET

Year 1997 - 2001
 (Numbers reflect total samples each year)

Project: N-Deactivation

Funding Source: UN2101

Contact: J. Zorn/J. Moffitt

Reference: Drinking Water Standards

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL	16	Water					16	16						
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments 12 samples from raw water source 4 samples from "the tap"														

SAMPLE PROJECTIONS WORKSHEET

Year: 1997-2001
 (Numbers reflect total samples each year)

Project: N-Deactivation

Funding Source: UN2101

Contact: J. Zoric/L. Moffitt

Reference: 183N Waster Plant 216 Permit

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo- Tech	Other	
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab														
222-S/ PNNL	160	Water					160							For rad screening for offsite transport
Industrial Hygiene														
Other (PC, TRU)	160	Water	160		160					160			160	
Additional Comments														
Project based on "Draft" 216 Permit														

SAMPLE PROJECT IONS WORKSHEET

Year: EY 97Project: Near Field MonitoringFunding Source: UN2101Contact: C.J. Perkins 373-7043

Reference: _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
										pH	Cond	Geo-Tech		Other
Field Analysis														
Quick Turnaround Laboratory														
Low Level Protocol Lab ITQAS	8 10 7 7	air water soil veg					GEA, Sr90, U-iso, Pu-238 & 239/240 GEA, Sr90, H3 GEA, Sr90, U-iso, Pu-238 & 239/240 GEA, Sr90, U-iso, Pu-238 & 239/240							
222-S	104 10 7 7	air water soil veg					gross alpha/beta gross alpha/beta gross alpha/beta gross alpha/beta							
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments: samples are screened at 222-S prior to delivery to IT QuataraBHI Contact: Joe P. Zane 373-4315

SAMPLE PROJECTIONS WORKSHEET

Year FY 1997-2001Project 100-NR-2 Characterization

Funding Source _____

Contact J V. Borghese (CHI)Reference FFACOM-15-96-08

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech		Other
Field Analysis														Field - Turbidity (30), Temp (30), pH (30), conductivity (30)
Quick Turnaround Laboratory														
Low Level Protocol Lab	147	water			10	26	86		25					Rad Chem alpha, beta, gamma scan, Sr-90 and H3
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														

Additional Comments:

Scope to be transferred to PNNL

SAMPLE PROJECTIONS WORKSHEET

Year FY 1997Project 100-N Area ERA Monitoring (Perf)

Funding Source _____

Contract J.Y. Borghese (CHI)Reference FFACOM-16-96

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, ROD	Wat Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis														Field - Temp, pH, conductivity, Eh (88)
Quick Turnaround Laboratory	225	water			28		116		80					Rad Chem Sr-90
Low Level Protocol Lab														
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year FY 1998-2001Project 100-N Area ERA Monitoring (Part)

Funding Source _____

Contact J.V. Borghese (CHD)Reference EEACOM-16-96

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis														Field - Temp, pH, conductivity, Eh (40)
Quick Turnaround Laboratory	80	water			12		40		18					Rad Chem Sr-90
Low Level Protocol Lab														
222-Sr PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year FY 1997Project 100-N Area ERA Monitoring (Op)

Funding Source _____

Contract FY Baphese (CH)

Reference _____

	# of Samples	Matrix	ANALYSIS										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pesa/ PCB	Other					pH	Cond	Geo- Tech	Other	
Field Analysis														
Quick Turnaround Laboratory	150	water					150							Rad Chem SI-90
Low Level Protocol Lab														
222-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

SAMPLE PROJECTIONS WORKSHEET

Year FY 1995-2001Project 100-N Area ERA Monitoring (Op)

Funding Source _____

Contact J.V. Borghese (CHD)

Reference _____

	# of Samples	Matrix	ANALYSES										Comments	
			ORGANIC			Metals	Rad Chem	Coliform, BOD	Wet Chem	Physical				
			VOA/ Semi-VOA	Pest/ PCB	Other					pH	Cond	Geo-Tech	Other	
Field Analysis														
Quick Turnaround Laboratory	96	water					96							Rad Chem Sr-90
Low Level Protocol Lab														
212-S/ PNNL														
Industrial Hygiene														
Other (PC, TRU)														
Additional Comments														

APPENDIX II

**TANK WASTE REMEDIATION SYSTEM
PROGRAM INPUTS**

B-1-46

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author Address Correspondence No.
 T. K. Kelley, LMHC A. G. King, RFSH 9655543

Subject: ANALYTICAL SERVICES PROJECTIONS UPDATE FOR NOVEMBER 1996

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	X
		<u>Lockheed Martin Hanford Corporation</u>		
x <i>input</i>	11/14/96	M. F. DeLozier	S7-84	X
		G. A. Hanson	S7-21	X
		L. E. Hall	S7-85	X
x <i>TK</i>	11/8/96	T. J. Kelley	S7-21	X
		M. A. Payne	S7-84	X
		G. A. Stanton	S7-21	X

B-1

Lockheed Martin Hanford Corporation
2964 Route 99, Richland, WA
Richland, WA 99352
LockPhone: 509 335 5000 Fax: 509 335 4163

LOCKHEED MARTIN

November 18, 1996

9655543

Mr. A. G. King, Manager
Hanford Analytical Services Program
Rust Federal Services of Hanford Inc.
P.O. Box 700
Richland, Washington 99352

Dear Mr. King:

ANALYTICAL SERVICES PROJECTIONS UPDATE FOR NOVEMBER 1996

Reference: Letter, A. G. King, RFSM, to L. E. Hall, LMHC, "Analytical Services Projections Update for November 1996," 9654758, dated October 14, 1996.

Attachment 1 provides the Tank Waste Remediation System (TWRS) analytical services projections in accordance with the reference. These projections do not include the analytical services which will be required to support the Privatization Initiative. Required support for Privatization will be completed by December 18, 1996.

Attachment 2 provides the latest TWRS sampling schedule for all samples other than evaporator process samples.

Attachment 3 provides the additional information requested by the reference.

Very truly yours,

L. E. Hall, President
and General Manager
Lockheed Martin Hanford Corporation

RCW

Attachments (3)

Attachment 1 to 9655543

TNRS LAB PROJECTION

Consisting of 9 pages

INVESTING LAB PROTECTION

[illegible]

E3-11

Attachment 2 to 9655543

BASELINE SAMPLING SCHEDULE, CHANGE 96-05

Consisting of 31 pages

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author: G A Stanton, Jr, 373-5590 Address: Distribution Correspondence No: 75610-96-13

Subject: BASELINE SAMPLING SCHEDULE, CHANGE 96-05

DISTRIBUTION

Name	Location	W/att	Name	Location	W/att
J H Appel	03 21	X	O J Saueressig	58 05	X
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G D Beldine	56 55	X	J S Schofield	57 12	X
T H Black	25 13	X	R D Schreiber	02 12	X
G M Boschler	05 09	X	B J Shomake	56 10	X
D M Bowser	57 54	X	J M Silko	57 54	X
L M Brown	02 12	X	K L Silvers	02 08	X
L L Buckley	02 12	X	B C Simpson	02 12	X
J G Burton	14 07	X	J P Slaughter	02 54	X
C B Byran	57 01	X	G A Stanton Jr	57 21	X
K G Carothers	01 51	X	A A Stone	05 10	X
W E Carver	57 04	X	D J Swenberg	00 50	X
R J Cash	57 14	X	J A Swenson	03 11	X
E J Chaffin Jr	57 04	X	J F Thompson Jr	57 54	X
J M Connor	02 12	X	T C Trimble	57 07	X
J J Davis	57 01	X	O J Kasherlander	05 27	X
R A Dodd	55 07	X	K O Winters	06 51	X
K H Eager	05 27	X			
G T Frasier	57 10	X			
K A Gasper	03 21	X			
J E Gentry	05 07	X			
A D Gustafson	02 50	X			
R M Hall (10)	02 12	X			
D M Haskilton	57 12	X			
G A Hanson	57 16	X			
G M Hanson	55 05	X			
D M Hendrickson	15 31	X			
P A Hernandez	57 54	X			
T A Hu	02 12	X			
J L Hucksby	06 06	X			
J W Hunt (10)	02 12	X			
G B Johns	57 12	X			
S D Johnson	57 14	X			
J W Jones	55 13	X			
D M Jorgensen	14 08	X			
F J Kelley	57 21	X			
W J Kennedy	57 03	X			
J A Kishbrooke (10)	57 04	X			
J G Kristofczak	02 12	X			
M J Kupfer	05 27	X			
G O Le	01 43	X			
J S Lee	57 03	X			
J M Lenth	57 14	X			
L T Merleyn	05 01	X			
P D Nelson	53 00	X			
P G Martell	52 21	X			
P G McKinley	07 07	X			
W H Meader	08 05	X			
L C Mercado	14 08	X			
G A Meyer	52 48	X			
P A Nazharich	06 30	X			
P J Nunnally	05 03	X			
P L Nelson	02 54	X			
E J Nicklas	01 43	X			
L P Norman	09 01	X			
P A Payne	57 04	X			
E W Powell	03 21	X			
T E Raymond	57 12	X			
W E Rose	05 07	X			
E E Salinas (10)	57 12	X			
L M Searle	02 12	X			

From: Lockheed Martin Hanford Corporation
 Phone: 373-5590 S7-21
 Date: November 6, 1996
 Subject: BASELINE SAMPLING SCHEDULE, CHANGE 96-05

75610-96-13

To: Distribution

cc:

The major reason for the change is to reflect changes required by continued slipping of the deployment of rotary in flammable gas tanks. Current date for deployment is November 25, 1996.

The Rev. 4.9 schedule is made up with the following deliverables.

<u>Year</u>	<u>Rotary</u>	<u>Push</u>	<u>Auger</u>	<u>Vapor</u>	<u>Grab</u>
96	41	16	9	50	31
97	36	12	0	42	20
98	48	12	1	48	25
99	60	12	3	60	25
2000	60	12	3	60	25

Rev. 4.9 reflects modifying truck #3 to be able to rotary flammable gas tanks. Truck #2 will be modified to support rotary in nonflammable gas tanks only. All RGS samples are assigned to truck #1.

After clarification is available from the flammable gas JCO, a schedule change may be required based on equipment availability.

If you have questions, please contact me at 373-5590

G. A. Stanton, Jr.
 Operations Interface
 Characterization Program Management

kjh

Attachments {3}

Change Request 96-05**5 November 1996**
1/11/96

This changes is a complete replacement of revision 4.6. This is brought about by the delays in rotary mode core sampling and reductions in funding available to the characterization program.

Concurrence:

George Stanlen

Wally Kennedy

Jerry Johnson

Ruth Schreiber

Cary Seidel

John Schofield
(for John Schofield 11-5-96)

John Kimbrough

Todd Black
(601)
12-29-96

Jim Lee
10-21-96

Rick Mahon
29 Oct 96

Joe Meacham
11/5/96

Jim Geary
11-5-96

Mike Kupfer
X.E.
12-29-96

Larry Pennington
10/29/96

Karyn Wiemers
11-5-96

75610-96-13

Attachment 2

Sampling Schedule Rev 4.9

Consisting of 30 Pages
Including Coversheet

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
RS04-4	30OCT94	14OCT94	10
Completed AS	20OCT94	AF 25JAN95	
RS20-4	10JUL95	20OCT95	15
Completed AS	10JUL95	AF 20OCT95	
RS25-4	17JUL95	4SEP95	36
Completed AS	14JUL95	AF 18AUG95	
RS01-4	8SEP95	6OCT95	23
Completed AS	21AUG95	AF 06OCT95	
RS03-4	9OCT95	29NOV95	36
Completed AS	06OCT95	AF 15NOV95	
RS08-4	23OCT95	6DEC95	31
Completed AS	23OCT95	AF 25DEC95	
RS90-4	23OCT95	3NOV95	10
Completed AS	02OCT95	AF 19OCT95	
RS47-4	20NOV95	13DEC95	16
Completed AS	19OCT95	AF 14DEC95	
RS23-4	30NOV95	15DEC95	12
Completed AS	16NOV95	AF 19DEC95	
RS58-4	7DEC95	18JAN96	24
Completed AS	02JAN96	AF 08MAR96	
RS40-4	14DEC95	6FEB96	32
Completed AS	15DEC95	AF 19JAN96	
RS30-4	18DEC95	21FEB96	40
Completed AS	16JAN96	AF 28MAR96	
RS35-4	19JAN96	22FEB96	24
Completed AS	12MAR96	AF 03APR96	
RS39-4	7FEB96	13MAR96	25
Completed AS	22JAN96	AF 18MAR96	
RS65-4	22FEB96	27MAR96	24
Completed AS	26MAR96	AF 11APR96	

PRI 0416
Date Date
Project Start
Project Finish

04/04/96
10/09/94
10/09/94
04/04/96

04/04/96
10/09/94
10/09/94
04/04/96

04/04/96
10/09/94
10/09/94
04/04/96

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LOCKHEED MARTIN HANFORD CORPORATION
REVISED TANK FARMS SAMPLING SCHEDULE
SAMPLING SCHEDULE Rev 4.9

Rev 1.0-5

AS OF 04/04/96 Mr. G. Stanton

DATE	REVISION	APPROVED

1995	1996	1997	1998	1999	2000	2001	2002
TRUCKS 2, 3, & 4 SAMPLE							
[BY-106 Rot Mode Sample 1 Seg 13 High Priority							
☐ BY-110 Rotary Samples 61300 Seg 6 High Priority							
☐ BY-108 Rotary Samples 3 Seg 5 High Priority							
[BY-105 Rot Samp 2 Seg 8 High Priority OBTAINED							
☐ BY-104 Rotary Samples 2 Segments 7 High Priority							
☐ RMCT #2 System Outage							
[RMCT #3 System Outage							
[B-203 Rotary Sample 3 Segment 14 (55k Tank)							
[BY-106 Rotary Samples 1 Seg 13 High Priority							
☐ S-102 Rotary Samples 2 Seg 11 High Priority							
☐ U-109 Rotary Sample 3 Segment 9 High Priority							
☐ U-107 Rot Samps 3 Segs 8 High Pri							
☐ S-101 Rotary Samples 2 Segments 9 High Priority							
☐ U-105 Rotary Sample 3 Segment 8 High Priority							
☐ S-110 Rot Samp 2 Seg 8 High Priority Obtained 1							

ACTIVITY ID	EARLY START	EARLY FINISH	DRG DURA	1995	1996	1997	1998	1999	2000	2001	2002
TRUCKS 2, 3, & 4 SAMPLE											
RS37-4	29FEB96	30APR96	44								
Completed AS	29MAR96	AF 06MAY96									
RS38-4	14MAY96	22MAR96	7								
Completed AS	11MAR96	AF 10APR96									
RS39-4	25MAR96	25APR96	24								
Completed AS	11APR96	AF 01MAY96									
RS40-4	26MAR96	30APR96	24								
Completed AS	10MAY96	AF 16JUN96									
RS46-4	26APR96	30MAY96	24								
Completed AS	01MAY96	AF 10MAY96									
RS64-4	1MAY96	4JUN96	24								
Completed AS	19JUN96	AF 03JUL96									
RS07-4	14MAY96	24SEP96	92								
RS26-4	31MAY96	3JUL96	24								
Completed AS	30MAY96	AF 26JUL96									
RS48-4	5JUN96	10JUL96	24								
Risers 3 & 14 were completed 26JUL96 - 31JUL96 Riser 8 has been postponed											
RS56-4	8JUL96	8AUG96	24								
Completed AS	13JUN96	AF 09JUL96									
RS60-4	11JUL96	13AUG96	24								
Completed AS	19AUG96	AF 26AUG96									
RS27-4	9AUG96	12SEP96	24								
Completed AS	01AUG96	AF 03SEP96									
RS01-4	14AUG96	17SEP96	24								
Completed AS	03SEP96	AF 06SEP96									
RS28-4	16SEP96	17OCT96	24								
Completed AS	20SEP96	AF 08OCT96									
RS63-4	18SEP96	22OCT96	25								
RS21-4	18OCT96	20NOV96	24								
Plot Date: 24SEP96 Data DMS: 1522P96 Project Start: 10CT96 Project Finish: 20NOV96											
Lockheed Martin Hanford Corporation Revised Tank Farms Sampling Schedule Sampling Schedule Rev 4.9											
Plot Date: 24SEP96 Data DMS: 1522P96 Project Start: 10CT96 Project Finish: 20NOV96											
Lockheed Martin Hanford Corporation Revised Tank Farms Sampling Schedule Sampling Schedule Rev 4.9											

LOCKHEED MARTIN HANFORD CORPORATION
 REVISED TANK FARMS SAMPLING SCHEDULE
 SAMPLING SCHEDULE Rev 4.9

AS OF 05/07/98 Mr. G. Sullivan

DATE	REVISION	CHECKED	SIGNATURE

[illegible]

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUE	1995	1996	1997	1998	1999	2000	2001	2002
TRUCKS 2, 3, & 4 SAMPLE											
RS60-4	4NOV99	30DEC99	24					OS-105 Rotary Samples 2 Segments 9			
RS74-4	20NOV99	6JAN99	24					TX-112 Rotary Samples 2 Segments 12			
RS22-4	10DEC99	28JAN99	24					TY-101 Rotary Samples 2 Segments 2			
RS41-4	10DEC99	22JAN99	24					BY-105 Rotary Samples 2 Segments 8			
Requires RGS Waste Type 34											
RS94-4	7JAN99	9FEB99	24					QTY-105 Rotary Samples 2 Segments 5			
RS25-4	25JAN99	26FEB99	24					BY-103 Rotary Samples 2 Segments 8			
RS21-4	8FEB99	12MAR99	24					QTY-103 Rotary Samples 2 Segments 4			
RS77-4	10FEB99	16MAR99	24					TX-115 Rotary Samples 2 Segments 11			
RS08-4	1MAR99	12MAR99	10					RMCS1 #3 System Outage			
RS85-4	15MAR99	15APR99	24					QU-104 Rotary Samples 2 Segments 2			
RSX3-4	17MAR99	30MAR99	10					RMCS2 #4 System Outage			
RS00-4	29MAR99	9APR99	10					RMCS2 #2 System Outage			
RS45-4	31MAR99	3MAY99	24					SX-108 Rotary Samples 2 Segments 2			
RS95-4	12APR99	13MAY99	24					DAZ-101 Rotary Sample 2 Segments 10			
A2-101 Supernatant - 400 liters (Pretreatm)											
RS86-4	30APR99	3JUN99	24					QU-112 Rotary Samples 2 Segments 1			
RS36-4	11JUN99	15JUL99	24					QU-107 Rotary Samples 2 Segs 8			

Plot Date: 24NOV99
Data Date: 15DEC99
Project Start: 10CT99
Project Finish: 24NOV99

LOCKHEED MARTIN HANFORD CORPORATION
REVISED TANK FARM SAMPLING SCHEDULE
SAMPLING SCHEDULE Rev 4.9

45 OF 105/167/99 Mr. G. Stanton

NAME	STATUS	APPROVAL

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR	1995	1996	1997	1998	1999	2000	2001	2002
PS02-4	15SEP94	12OCT94	20	TRUCK 1 SAMPLE							
Completed AS	31AUG94	AF 30OCT94		057-103 Push Samples 1 Segments 15							
PS05-4	13OCT94	9NOV94	20	01C-103 Push Sample 2 Segments 4							
Completed AS	20OCT94	AF 09FEB95		0EQUIPMENT - Visual inspection/repair Push truck							
PS25-10	10NOV94	20DEC94	15	01C-107 Push Sample 3 Segments 5							
Completed AS	02NOV94	AF 09JAN95		01U-201 Push Sample 3 Segments 2 (Rotary Truck)							
PS68-4	11MAR95	28MAR95	20	01C-105 Push Mone Sample 2 Segments 3							
C-107 Sludge/saltcake sample - 2000 ml sdc Additional Sludge/saltcake 1000ml ad				01U-202 Push Sample 2 Segments 2 (Rotary Truck)							
Completed AS	10MAR95	AF 10MAR95		08X-109 Push Sample 2 Segments 4							
PS16-4	6MAR95	31MAR95	20	01U-203 Push Sample 2 Segments 2 (Rotary Truck)							
Completed AS	08MAR95	AF 21MAR95		06X-103 Push Sample 2 Segments 1							
PS26-4	29MAR95	25APR95	20	01U-204 Push Sample 2 Segments 1 (Rotary Truck)							
Completed AS	13MAR95	AF 23MAR95		08B-104 Push Sample 2 Segments 7 High Priority							
PS17-4	3APR95	26APR95	18	08B-101 Push Sample 2 Segments 2							
Completed AS	21MAR95	AF 22MAR95		08B-106 Push Sample 2 Segments 2							
PS65-4	26APR95	5MAY95	8								
08X-109 Sludge/saltcake - 1000 ml sdc/100 Additional Sludge/saltcake - 200 ml											
Completed AS	27MAR95	AF 19MAY95									
PS18-4	27APR95	19MAY95	17								
Completed AS	27MAR95	AF 03APR95									
PS60-4	8MAY95	18MAY95	9								
Completed AS	22MAR95	AF 30MAY95									
PS19-4	22MAY95	1JUN95	9								
Completed AS	03APR95	AF 06APR95									
PS08-4	2JUN95	14JUN95	9								
Completed AS	31MAY95	AF 14JUN95									
PS48-4	15JUN95	28JUN95	10								
Completed AS	15JUN95	AF 27JUN95									
PS50-4	17JUL95	28JUL95	10								
Completed AS	29JUN95	AF 15JUL95									
PPL DEL: 10/20/95 Date Del: 10/20/95 Project Start: 10/20/95 Project Finish: 10/20/95				LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARMS SAMPLING SCHEDULE SAMPLING SCHEDULE Rev # 9							
PPL DEL: 10/20/95 Date Del: 10/20/95 Project Start: 10/20/95 Project Finish: 10/20/95				AS OF 05/NOV/96 At E Station Date: Revision: Change: Approval:							
PPL DEL: 10/20/95 Date Del: 10/20/95 Project Start: 10/20/95 Project Finish: 10/20/95				Date: Revision: Change: Approval:							
PPL DEL: 10/20/95 Date Del: 10/20/95 Project Start: 10/20/95 Project Finish: 10/20/95				Date: Revision: Change: Approval:							

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27.1

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUE
PS13-4	31AUG95	28SEP95	21
S-107 Sludge/saltcake 1000 m ³ scaling Completed AS 14AUG95 AF 30SEP95			
PS67-4	20CT95	230CT95	16
Completed AS 060CT95 AF 190CT95			
PS84-4	29NOV95	5DEC95	5
Completed AS 21DEC95 AF 27DEC95			
PS61-4	2JAN96	12JAN96	9
Completed AS 02JAN96 AF 06JAN96			
PS03-4	15JAN96	6MAY96	80
AN-101 Supernatant - 550m ³ (Pretreatment) Completed AS 29JAN96 AF 24MAY96			
PS26-4	7MAY96	4JUN96	20
Completed AS 04JUN96 AF 28JUN96			
PS12-4	5JUN96	10JUL96	24
Completed AS 01JUL96 AF 25JUL96 RGS Primary Waste Type 1B			
PS31-4	16JUL96	12AUG96	20
Completed AS 30JUL96 AF 12SEP96			
PS33-4	15AUG96	12SEP96	20
Completed AS 13SEP96 AF 24SEP96			
PS06-4	17SEP96	30SEP96	10
PS09-4	7OCT96	1NOV96	20
RGS Primary Waste Type 1A			
PS27-4	25NOV96	2JAN97	20
RGS Primary Waste Type 2A			
PS74-4	3JAN97	15JAN97	10
PS32-4	3FEB97	3MAR97	20
RGS Primary Waste Type 2B			
P101 Desc 500PS6 Desc Date 15SEP96 Project Start 1AUG95 Project Finish 30AUG95 41 Primary System Inc			

	1995	1996	1997	1998	1999	2000	2001	2002
TRUCK 1 SAMPLE								
☐ S-107 Push Sample 3 Segments 8 High Priority ☐ B-204 Push Sample 2 Segments 14 (55k tank) ☐ BX-112 Push Sample 2 Segments 3 ☐ BX-104 Push Sample 2 Segments 2 ☐ AN-101 Push Sample 2 Segments 22 High Priority ☐ AN-105 Push Sample 2 Segments 22 High Priority ☐ A-101 Push Samples 2 Segments 19 High Priority ☐ AN-104 Push Sample 2 Segments 21 High Priority ☐ AN-103 Push Sample 2 Segments 19 High Priority ☐ PWCST #1 OUTAGE ☐ U-103 Push Samples 2 Segments 9 High Priority ☐ S-106 Push Samples 2 Segments 10 High Priority ☐ PWCST #1 OUTAGE ☐ BX-105 Push Samples 2 Segments 10 High Priority								
AS OF 05/NOV/96 Mr. & Sharon NAME: _____ PHONE: _____ ADDRESS: _____ _____ _____ _____								

LOCKHEED MARTIN HANFORD CORPORATION
 REVISED TANK FARMS SAMPLING SCHEDULE
 SAMPLING SCHEDULE Rev 4.9

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG OUR	1995	1996	1997	1998	1999	2000	2001	2002
				AUGER SAMPLE							
AS04-4	15SEP94	21SEP94	5	AX-101 Auger Sample 3 Segments 1							
Completed AS	23JAN95	AF 27JAN95									
AS08-4	15SEP94	21SEP94	5	BX-105 Auger Sample 2 Segments 1							
Completed AS	28SEP94	AF 08OCT94									
AS05-4	29SEP94	5OCT94	5	B-102 Auger Sample 2 Segments 1 222							
Completed AS	12OCT94	AF 17OCT94									
AS09-4	29SEP94	5OCT94	5	C-102 Auger Sample							
Completed AS	29OCT94	AF 13JAN95									
AS10-4	6OCT94	12OCT94	5	AX-102 Auger Sample 2 Segment 1							
Completed AS	06FEB95	AF 14FEB95									
AS11-4	13OCT94	19OCT94	5	A-104 Auger Sample 0							
Completed AS	25OCT94	AF 10NOV94									
AS14-4	27OCT94	2NOV94	5	IC-108 Auger Sample 2 Segment 1							
Completed AS	11NOV94	AF 15DEC94									
AS96-4	3NOV94	9NOV94	5	BY-106 Auger Sample 2 9" Auger							
Completed AS	16DEC94	AF 30DEC94									
AS06-4	11JAN95	17JAN95	5	AX-104 Auger Sample 0							
Completed AS	14FEB95	AF 17FEB95									
AS37-4	29JAN95	31JAN95	5	ITY-104 Auger Sample 2 Segments 1							
Completed AS	21FEB95	AF 24FEB95									
AS25-4	1FEB95	7FEB95	5	ITY-106 Auger Sample 2 Segments 1							
Completed AS	27FEB95	AF 03MAR95									
AS30-4	6FEB95	14FEB95	5	BY-103 Auger Sample 2 Segments 1							
Completed AS	06MAR95	AF 10MAR95									
AS21-4	22FEB95	28FEB95	5	B-112 Auger Sample 2 Segments 1							
Completed AS	13MAR95	AF 17MAR95									
AS15-4	1MAR95	7MAR95	5	IC-111 Auger Sample 2 Segments 1							
Completed AS	22MAR95	AF 25MAR95									
AS07-4	8MAR95	14MAR95	5	IC-101 Auger Sample 2 Segments 2							
Completed AS	29MAR95	AF 30MAR95									
Plot Date 5/20/95 Date Data 10/10/94 Project Start 10/1/93 Project Finish 5/20/95				LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARMS SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4.9							
AS OF 05/20/95 for 5. Rankin				AS OF 05/20/95 for 5. Rankin							
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ACTIVITY ID	EARLY START	EARLY FINISH	DRG DUR	1995	1996	1997	1998	1999	2000	2001	2002
AUGER SAMPLE											
AS17-4	22MAR95	20MAR95	5	IC-203 Auger Sample 2 Segments 1							
Completed AS	03APR95	AF 06APR95									
AS27-4	5APR95	11APR95	5	IC-204 Auger Sample 2 Segments 1							
Completed AS	10APR95	AF 02MAY95									
AS20-4	19APR95	25APR95	5	IC-201 Auger Sample 2 Segments 1							
Completed AS	02MAY95	AF 03MAY95									
AS16-4	3MAY95	9MAY95	5	IC-202 Auger Sample 2 Segments 1							
Completed AS	04MAY95	AF 05MAY95									
AS22-4	10MAY95	16MAY95	5	ISX-113 Auger Sample 2 Segments 1							
Completed AS	09MAY95	AF 10MAY95									
AS23-4	17MAY95	23MAY95	5	ISK-115 Auger Sample 2 Segments 1 (Obtained 0)							
Completed AS	16MAY95	AF 18MAY95									
AS13-4	1JUN95	7JUN95	5	IE-103 Auger Sample 2 Segments 1							
Completed AS	24MAY95	AF 02JUN95									
AS28-4	8JUN95	19JUN95	8	IA-102 Auger Sample 2 Segments 1 (Obtained 1)							
Completed AS	06JUN95	AF 06JUN95									
AS19-4	17JUL95	26JUL95	8	IT-108 Auger Sample 3 Segments 1							
Completed AS	14JUL95	AF 26JUL95									
AS24-4	31JUL95	44UG95	5	IT-106 Auger Sample 2 Segments 1							
Completed AS	25JUL95	AF 11AUG95									
AS34-4	14AUG95	18AUG95	5	IX-109 Auger Sample 2 Segments 1							
Completed AS	14AUG95	AF 22AUG95									
AS40-4	28AUG95	6SEP95	8	ISK-108 Auger Sample 3 Segments 1 (Obtained 2)							
Completed AS	14SEP95	AF 27SEP95									
AS36-4	16OCT95	20OCT95	5	IBX-110 Auger Sample 2 Segments 1							
Completed AS	09OCT95	AF 16OCT95									
AS32-4	20NOV95	28NOV95	5	IBX-112 Auger Sample 2 Segments 1							
Completed AS	13NOV95	AF 17NOV95									
AS31-4	4DEC95	6DEC95	5	IBX-106 Auger Sample 2 Segments 1							
Completed AS	04DEC95	AF 20DEC95									

Plot Date: 05/09/01
 Data Date: 05/09/01
 Project Start: 10/93
 Project Finish: 04/03

LOCKHEED MARTIN MANFORD CORPORATION

REVISED FARM FARMS SAMPLING SCHEDULE

SAMPLING SCHEDULE Rev 4.9

AS OF 05/09/01 BY: G. SHAWAN

Date	Description	Revised/Reviewed

ACTIVITY ID	EARLY START	EARLY FINISH	DRIG DUR										
				1995	1996	1997	1998	1999	2000	2001	2002		
AUGER SAMPLE													
AS36-4	3JUN96	9JUN96	5										
Completed AS	08JAN96	AF 17JAN96											
AS53-4	20FEB96	23FEB96	4										
Completed AS	18MAR96	AF 21MAR96											
AS18-4	1JUN98	5JUN98	5										
AS39-4	28SEP98	20CT98	5										
AS12-4	1JUN99	7JUN99	5										
AS02-4	1JUN00	7JUN00	5										
AS54-4	26SEP00	20CT00	5										
AS56-4	1JUN01	7JUN01	5										
ASXX-4	3JUN02	7JUN02	5										
ASX1-4	27SEP02	30CT02	5										
ASK2-4	25FEB03	3MAR03	5										
					</								

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR		1995	1996	1997	1998	1999	2000	2001	2002
V502-4	15SEP94	19SEP94	3		VAPOR SAMPLE							
Completed AS	28SEP94	AF 29SEP94			(C-107 Vapor Sample 13)							
V506-4	11OCT94	19OCT94	3		(BY-107 Vapor Sample 13) IC installed							
Completed AS	25OCT94	AF 26OCT94										
V505-4	14OCT94	16OCT94	3		(BY-108 Vapor Sample 13)							
Completed AS	27OCT94	AF 27OCT94										
V50N-4	19OCT94	21OCT94	3		(BY-103 Vapor Sample 13)							
Completed AS	31OCT94	AF 31NOV94										
V50M-4	7NOV94	9NOV94	3		(BY-110 Vapor Sample 13)							
Completed AS	10NOV94	AF 11NOV94										
V502-4	10NOV94	14NOV94	3		(BY-111 Vapor Sample 13)							
Completed AS	15NOV94	AF 16NOV94										
V52B-4	15NOV94	17NOV94	3		(BY-112 Vapor Sample 13)							
Completed AS	17NOV94	AF 18NOV94										
V535-4	1DEC94	5DEC94	3		(AN-107 Vapor Sample 12)							
Completed AS	20DEC94	AF 21DEC94										
V50D-4	6DEC94	6DEC94	3		(TX-105 Vapor Sample 13)							
Completed AS	19DEC94	AF 21DEC94										
V50A-4	9DEC94	13DEC94	3		(TX-118 Vapor Sample 13)							
Completed AS	15DEC94	AF 16DEC94										
V506-4	14DEC94	16DEC94	3		(BX-104 Vapor Sample 13)							
Completed AS	29DEC94	AF 30DEC94										
V503-4	12JAN95	16JAN95	3		(T-107 Vapor Sample 13)							
Completed AS	17JAN95	AF 18JAN95										
V509-4	17JAN95	19JAN95	3		(T-111 Vapor Sample 13)							
Completed AS	19JAN95	AF 20JAN95										
V545-4	27JAN95	31JAN95	3		(E-103 Vapor Sample 13)							
Completed AS	07FEB95	AF 08FEB95										
V510-4	09FEB95	10FEB95	3		(U-103 Vapor Sample 13)							
Completed AS	13FEB95	AF 15FEB95										

Plot Date: 02/29/95
 Project Name: V5000
 Project File: J:\V5000

Lockheed Martin Hanford Corporation
 Revised Tank Farms Sampling Schedule
 Sampling Schedule Rev 4.9

AS OF 06/MAY/95 BY: G. Stanton
 Reviewer: [Signature] Approved: [Signature]

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG CUR									
				1995	1996	1997	1998	1999	2000	2001	2002	
VAPOR SAMPLE												
VS01-4	13FEB95	15FEB95	3	U-107 Vapor Sample (3)								
Completed AS	16FEB95	AF 17FEB95										
VS14-4	16FEB95	21FEB95	3	U-105 Vapor Sample (3)								
Completed AS	23FEB95	AF 24FEB95										
VS56-4	08MAR95	10MAR95	3	U-111 Vapor Sample (3)								
Completed AS	27FEB95	AF 28FEB95										
VS89-4	19MAR95	19MAR95	3	U-106 Vapor Sample (3)								
Completed AS	08MAR95	AF 08MAR95										
VS05-4	23MAR95	27MAR95	3	S-102 Vapor Sample (3)								
Completed AS	13MAR95	AF 14MAR95										
VS07-4	28MAR95	30MAR95	3	S-111 Vapor Sample (3)								
Completed AS	15MAR95	AF 21MAR95										
VS06-4	31MAR95	4APR95	3	SK-103 Vapor Sample (3)								
Completed AS	22MAR95	AF 23MAR95										
VS0F-4	5APR95	7APR95	3	SK-106 Vapor Sample (3)								
Completed AS	23MAR95	AF 24MAR95										
VS08-10	10APR95	14APR95	5	VS6 Maintenance Window								
Completed AS	27MAR95	AF 30MAR95										
VS0B-4	17APR95	19APR95	3	ITY-101 Vapor Sample (3)								
Completed AS	05APR95	AF 06APR95										
VS0C-4	20APR95	24APR95	3	ITY-103 Vapor Sample (3)								
Completed AS	10APR95	AF 11APR95										
VS0D-4	25APR95	27APR95	3	ITY-104 Vapor Sample (3)								
Completed AS	12APR95	AF 27APR95										
VS05-4	5MAY95	9MAY95	3	JA-101 Vapor Sample (3)								
Completed AS	06JUN95	AF 9JUN95										
VS32-4	17MAY95	19MAY95	3	IAx-101 Vapor Sample (3)								
Completed AS	12JUN95	AF 15JUN95										
VS33-4	22MAY95	24MAY95	3	IAx-103 Vapor Sample (3)								
Completed AS	20JUN95	AF 21JUN95										
Plot Date: 05/01/96 Data Date: 05/01/96 Project Start: 10C95 Project Finish: 06M93				LOCKHEED MARTIN MANFORD CORPORATION REVISED TANK FARMS SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4 9								
AS OF 05/01/96 w/ 6 Revision				Date: Revision: Version:								

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG OUR	1995	1996	1997	1998	1999	2000	2001	2002
VAPOR SAMPLE											
VS21-4	12OCT95	13OCT95	2								
Completed AS	10NOV95	AF 10NOV95									
VS19-4	1NOV95	3NOV95	3								
Completed AS	16NOV95	AF 17NOV95									
VS56-4	6NOV95	8NOV95	3								
Completed AS	20NOV95	AF 21NOV95									
VS15-4	4DEC95	6DEC95	3								
Completed AS	04DEC95	AF 05DEC95									
VS73-4	8DEC95	12DEC95	3								
Completed AS	05DEC95	AF 06DEC95									
VS76-4	13DEC95	15DEC95	3								
Completed AS	06DEC95	AF 07DEC95									
VS44-4	2JAN96	4JAN96	3								
Completed AS	16JAN96	AF 17JAN96									
VS0H-4	5JAN96	9JAN96	3								
Completed AS	22JAN96	AF 23JAN96									
VS0J-4	12JAN96	16JAN96	3								
Completed AS	24JAN96	AF 26JAN96									
VS0L-4	29JAN96	31JAN96	3								
Completed AS	06FEB96	AF 07FEB96									
VS12-4	28FEB96	1MAR96	3								
Completed AS	26MAR96	AF 11APR96									
VS01-4	4MAR96	13MAR96	10								
Completed AS	12APR96	AF 24APR96									
VS72-4	25MAR96	27MAR96	3								
Completed AS	25MAR96	AF 26MAR96									
VS4B-4	25MAR96	27MAR96	3								
Completed AS	25MAR96	AF 26MAR96									
VS73-4	28MAR96	1APR96	3								
Completed AS	27MAR96	AF 28MAR96									
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Plot Date: 5/9/96
 Data Date: 10/2/96
 Project Start: 10/2/96
 Project Finish: 5/9/96

LOCKHEED MARTIN HANFORD CORPORATION
 REVISED TANK FARMS SAMPLING SCHEDULE
 SAMPLING SCHEDULE Rev 4.9

AS OF 5/9/96/96 Mr. G. Slaughter
 Prep: Revised: Checked:

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUA	1995	1996	1997	1998	1999	2000	2001	2002
VAPOR SAMPLE											
VS44-4	26MAR96	1APR96	3		1B-100 Temporal Vapor Sample (4)						
Completed AS	27MAR96	AF 28MAR96									
VS74-4	2APR96	4APR96	3		1S-102 Temporal Vapor Sample (3)						
Completed AS	02APR96	AF 03APR96									
VS41-4	2APR96	4APR96	3		1S-102 Temporal Vapor Sample (4)						
Completed AS	02APR96	AF 03APR96									
VS10-4	5APR96	9APR96	3		1TV-102 Vapor Sample (3) (Rotary)						
Completed AS	11APR96	AF 12 APR96									
VS22-4	10APR96	12APR96	3		1B-102 Vapor Sample (3)						
Completed AS	17APR96	AF 18APR96									
VS24-4	17APR96	19APR96	3		1BX-105 Vapor Sample (3)						
Completed AS	23APR96	AF 24APR96									
VSS0-4	22APR96	24APR96	3		1BX-110 Vapor Sample (3) (Rotary)						
Completed AS	29APR96	AF 30APR96									
VS02-4	30APR96	13MAY96	10		1VSS OUTAGE						
Completed AS	05MAY96	AF 03SEP96									
VS14-4	3JUN96	4JUN96	2		1S-109 Vapor Sample (4)						
Completed AS	04JUN96	AF 04JUN96									
VS58-4	5JUN96	6JUN96	2		1S-101 Vapor Sample (4)						
Completed AS	06JUN96	AF 06JUN96									
VSS9-4	14JUN96	17JUN96	2		1S-103 Vapor Sample (4)						
Completed AS	12JUN96	AF 12JUN96									
VST1-4	18JUN96	19JUN96	2		1S-106 Vapor Sample (4)						
Completed AS	13JUN96	AF 13JUN96									
VS20-4	20JUN96	21JUN96	2		1S-107 Vapor Sample (4)						
Completed AS	18JUN96	AF 18JUN96									
VS25-4	24JUN96	26JUN96	3		1C-201 Vapor Sample (4)						
Completed AS	19JUN96	AF 19JUN96									
VS26-4	27JUN96	28JUN96	2		1C-202 Vapor Sample (4)						
Completed AS	25JUN96	AF 26JUN96									
Plot Date: 26JUN96 Bell Date: 12JUN96 Project Start: 04JUN96 Project Finish: 04JUN96				LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARM SAMPLING SCHEDULE SAMPLING SCHEDULE Rev d 9				15 16 18/10/98 Mr G. Scarsen NAME: REVISION: REVISION: REVISION:			
101 Airborne Systems, Inc.											

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DWR	1995	1996	1997	1998	1999	2000	2001	2002
VAPOR SAMPLE											
VS27-4	1JUL96	2JUL96	2				IC-204 Vapor Sample (4)				
Completed AS	02JUL96	AF 02JUL96									
VS66-4	3JUL96	6JUL96	2				IU-112 vapor Sample (4) (Rotary)				
Completed AS	09JUL96	AF 09JUL96									
VS65-4	17JUL96	18JUL96	2				IU-104 Vapor Sample (4)				
Completed AS	16JUL96	AF 16JUL96									
VS23-4	19JUL96	22JUL96	2				IB-202 Vapor Sample (4)				
Completed AS	18JUL96	AF 18JUL96									
VSXB-4	23JUL96	24JUL96	2				IB-107 Vapor Sample (4) (Rotary)				
Completed AS	22JUL96	AF 22JUL96									
VSS5-4	25JUL96	26JUL96	2				IB-105 Vapor Sample (4) (Rotary)				
Completed AS	30JUL96	AF 30JUL96									
VSX9-4	29JUL96	30JUL96	2				IBX-102 Vapor Sample (4) (Rotary)				
Completed AS	31JUL96	AF 31JUL96									
VS66-4	31JUL96	1AUG96	2				IBX-103 Vapor Sample (4)				
Completed AS	01AUG96	AF 01AUG96									
YSBH-4	7AUG96	8AUG96	2				IBX-106 Vapor Sample (4)				
Completed AS	14AUG96	AF 15AUG96									
VSS1-4	9AUG96	12AUG96	2				IBX-111 Vapor Sample (4) (Rotary)				
Completed AS	27AUG96	AF 27AUG96									
YSB9-4	13AUG96	14AUG96	2				IBY-101 Vapor Sample (4)				
Completed AS	29AUG96	AF 29AUG96									
YSAF-4	22AUG96	23AUG96	2				IBX-104 Temporal vapor Sample (4) High Priority				
Completed AS	22AUG96	AF 22AUG96									
YSAC-4	3SEP96	5SEP96	3				IC-107 Temporal Vapor Sample (3) High Priority				
Completed AS	05SEP96	AF 06SEP96									
YSAJ-4	13SEP96	17SEP96	3				IBY-108 Temporal Vapor Sample (3) High Priority				
Completed AS	09SEP96	AF 10SEP96									
YSAH-4	25SEP96	27SEP96	3				S-102 Temporal Vapor Sample (3) High Priority				
Completed AS	18SEP96	AF 19SEP96									
LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARMS SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4 R											

ACTIVITY ID	EARLY START	EARLY FINISH	DRG OUR	1995	1996	1997	1998	1999	2000	2001	2002
VSAB-4	7OCT96	11OCT96	5	VAPOR SAMPLE							
Completed AS	15OCT96	AF 17OCT96		IB-103 Homogeneity Vapor Sample 5 (4) High Priority							
VSAT-4	14OCT96	18OCT96	5	ITV-103 Homogeneity Vapor Samples 6 (4) High Pri							
VSAB-4	21OCT96	25OCT96	5	IV-112 Homogeneity Vapor Samples 6 (4) High Pri							
VSAT-4	31OCT96	4NOV96	3	IC-107 Temporal Vapor Sample (3) High Priority							
VSAR-4	7NOV96	11NOV96	3	IBY-108 Temporal Vapor Sample (3) High Priority							
VSAS-4	14NOV96	18NOV96	3	IS-102 Temporal Vapor Sample (3) High Priority							
VSAP-4	22NOV96	25NOV96	2	IBX-104 Temporal Vapor Sample (4) High Priority							
VS82-4	20DEC96	30DEC96	2	IA-106 Vapor Sample (4) (Rotary)							
VS83-4	9DEC96	10DEC96	2	Iax-104 Vapor Sample (4) (LOJA)							
VS87-4	16DEC96	17DEC96	2	IB-108 Vapor Sample (4)							
VS88-4	23DEC96	2JAN97	2	BB-109 Vapor Sample (4)							
VSCD-4	8JAN97	9JAN97	2	IBY-109 Vapor Sample (3)							
VSPU-4	15JAN97	16JAN97	2	IU-102 Vapor Sample (4)							
VSD4-4	17JAN97	30JAN97	10	IVS5 OUTAGE							
VSAB-4	31JAN97	3FEB97	2	IBX-104 Temporal Vapor Sample (4) High Priority							
VSAD-4	7FEB97	11FEB97	3	IC-107 Temporal Vapor Sample (3) High Priority							
VSAR-4	14FEB97	19FEB97	3	IBY-108 Temporal Vapor Sample (3) High Priority							
VSAN-4	24FEB97	26FEB97	3	IS-102 Temporal Vapor Sample (3) High Priority							
VSK7-4	5MAR97	2MAR97	2	IAN-103 Vapor Sample (4)							
VSZ7-4	17MAR97	18MAR97	2	IAN-104 Vapor Sample (4)							
VSZ1-4	26MAR97	27MAR97	2	IAN-105 Vapor Sample (4)							
VSZM-4	4APR97	7APR97	2	IBX-104 Temporal Vapor Sample (4) High Priority							
VSBW-4	15APR97	16APR97	2	IT-112 Vapor Sample (4)							
VSP2-4	25APR97	28APR97	2	IT-204 Vapor Sample (4)							
VSP1-4	6MAY97	7MAY97	2	IT-203 Vapor Sample (4)							
VSY9-4	15MAY97	16MAY97	2	II-202 Vapor Sample (4)							
VSOS-4	19MAY97	2JUN97	10	IVSS OUTAGE							
VSZP-4	3JUN97	4JUN97	2	IBX-104 Temporal Vapor Sample (4) High Priority							
VSYB-4	12JUN97	13JUN97	2	IT-201 Vapor Sample (4)							

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR	1995	1996	1997	1998	1999	2000	2001	2002
VAPOR SAMPLE											
VST6-4	10C197	20C197	2				TX-106 Vapor Sample (4)	(Rotary)			
VSP6-4	80C197	90C197	2				TX-114 Vapor Sample (4)	(Rotary)			
VST6-4	150C197	160C197	2				TX-102 Vapor Sample (4)	(Rotary)			
VST1-4	220C197	230C197	2				TX-110 Vapor Sample (4)	(Rotary)			
VSP9-4	290C197	300C197	2				TX-117 Vapor Sample (4)	(Rotary)			
VST0-4	540V97	600V97	2				ISX-107 Vapor Sample (4)	(Rotary)			
VST3-4	1240V97	1340V97	2				ISX-110 Vapor Sample (4)	(Rotary)			
VST7-4	1940V97	2040V97	2				TX-101 Vapor Sample (4)	(Rotary)			
VST9-4	2640V97	10EC97	2				TX-108 Vapor Sample (4)	(Rotary)			
VST6-4	50EC97	80EC97	2				TX-109 Vapor Sample (4)	(Rotary)			
VST4-4	120EC97	150EC97	2				TX-112 Vapor Sample (4)	(Rotary)			
VST3-4	180EC97	220EC97	2				TX-105 Vapor Sample (4)	(Rotary)			
VST7-4	7JAN98	8JAN98	2				TX-104 Vapor Sample (4)	(Rotary)			
VSP3-4	14JAN98	15JAN98	2				TX-101 Vapor Sample (4)	(Rotary)			
VSP6-4	21JAN98	22JAN98	2				TX-116 Vapor Sample (4)	(Rotary)			
VSP4-4	28JAN98	29JAN98	2				TX-103 Vapor Sample (4)	(Rotary)			
VSP7-4	4FEB98	5FEB98	2				TX-115 Vapor Sample (4)	(Rotary)			
VSP5-4	11FEB98	12FEB98	2				TX-113 Vapor Sample (4)	(Rotary)			
VST1-4	18FEB98	19FEB98	2				ISX-108 Vapor Sample (4)	(Rotary)			
VST6-4	26FEB98	27FEB98	2				ISX-114 Vapor Sample (4)	(Rotary)			
VST4-4	5MAR98	6MAR98	2				ISX-111 Vapor Sample (4)	(Rotary)			
VST5-4	12MAR98	13MAR98	2				ISX-112 Vapor Sample (4)	(Rotary)			
VST0-4	19MAR98	20MAR98	2				IA-104 Vapor Sample (4)				
VST1-4	26MAR98	27MAR98	2				IA-105 Vapor Sample (4)				
VST4-4	2APR98	3APR98	2				IB-101 Vapor Sample (4)				
VST5-4	9APR98	10APR98	2				IB-104 Vapor Sample (4)				
VST6-4	16APR98	17APR98	2				IB-105 Vapor Sample (4)				
VST8-4	23APR98	24APR98	2				IB-110 Vapor Sample (4)				
VST4-4	30APR98	1MAY98	2				IB-111 Vapor Sample (4)				
VST8-4	7MAY98	8MAY98	2				IB-112 Vapor Sample (4)				
PMA Date: 10/2/98 Date Date: 10/2/98 Project Start: 10/2/98 Project Finish: 10/2/98				LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARM SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4 9							
AS OF 10/2/98 Mr. G. Stanton				Date Revision Drawing Approval							

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR	1995	1996	1997	1998	1999	2000	2001	2002
				VAPOR SAMPLE							
VSBC-4	10MAY98	15MAY98	2				IB-201 Vapor Sample (4)				
VSBD-4	21MAY98	23MAY98	2				IB-203 Vapor Sample (4)				
VSCE-4	29MAY98	1JUN98	2				IB-204 Vapor Sample (4)				
VSDF-4	5JUN98	8JUN98	2				IBX-101 Vapor Sample (4)				
VSBI-4	12JUN98	15JUN98	2				IBX-108 Vapor Sample (4)				
VSBJ-4	19JUN98	22JUN98	2				IBX-109 Vapor Sample (4)				
VSBN-4	26JUN98	29JUN98	2				IBX-112 Vapor Sample (4)				
VSBL-4	7JUL98	9JUL98	2				IC-203 Vapor Sample (4)				
VSBN-4	14JUL98	15JUL98	2				IS-104 Vapor Sample (4)				
VSBN-4	21JUL98	22JUL98	2				ISX-113 Vapor Sample (4)				
VSBP-4	28JUL98	29JUL98	2				ISX-115 Vapor Sample (4)				
VSBO-4	4AUG98	5AUG98	2				IT-102 Vapor Sample (4)				
VSBO-4	11AUG98	12AUG98	2				IT-103 Vapor Sample (4)				
VSBS-4	18AUG98	19AUG98	2				IT-105 Vapor Sample (4)				
VSBT-4	25AUG98	26AUG98	2				IT-106 Vapor Sample (4)				
VSBU-4	1SEP98	2SEP98	2				IT-108 Vapor Sample (4)				
VSBU-4	9SEP98	10SEP98	2				IT-109 Vapor Sample (4)				
VSBU-4	16SEP98	17SEP98	2				TX-107 Vapor Sample (4)				
VSBU-4	10CT98	20CT98	2				TX-106 Vapor Sample (4)				
VSBU-4	30CT98	30CT98	2				U-101 Vapor Sample (4)				
VSBU-4	15OCT98	16OCT98	2				U-110 Vapor Sample (4)				
VSBU-4	22OCT98	23OCT98	2				U-201 Vapor Sample (4)				
VSBU-4	29OCT98	30OCT98	2				U-202 Vapor Sample (4)				
VSX1-4	06NOV98	06NOV98	2				AY-101 Vapor Sample (4)				
VSX2-4	13NOV98	13NOV98	2				AY-102 Vapor Sample (4)				
VSX3-4	19NOV98	20NOV98	2				AZ-101 Vapor Sample (4)				
VSX4-4	30NOV98	1DEC98	2				AZ-102 Vapor Sample (4)				
VSX5-4	7DEC98	8DEC98	2				AN-101 Vapor Sample (4)				
VSX6-4	14DEC98	15DEC98	2				AN-102 Vapor Sample (4)				
VSZ2-4	21DEC98	22DEC98	2				AN-105 Vapor Sample (4)				

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUA	1995	1996	1997	1998	1999	2000	2001	2002
GRAB SAMPLE											
GS56-4	26SEP94	26SEP94	3	AM-104 Grab Sample Compatibility - Jones							
Completed AS	27SEP94	AF 28SEP94									
GS57-4	30CT94	30CT94	3	AM-103 Grab Sample Compatibility - Jones							
Completed AS	29SEP94	AF 29SEP94									
GS58-4	10OCT94	12OCT94	3	AY-101 Grab Sample Compatibility - Jones							
Completed AS	07OCT94	AF 07OCT94									
GSB1-4	17OCT94	19OCT94	3	AN-107 Grab Sample Process Control - Jones							
Completed AS	17OCT94	AF 18OCT94									
GS56-4	24OCT94	26OCT94	3	AM-102 Grab Sample Process Control - Jones							
Completed AS	19OCT94	AF 21OCT94									
GS55-4	31OCT94	2NOV94	3	ER-371 Grab Sample Process Control (CATCH TANK)							
Completed AS	28OCT94	AF 28OCT94									
GS92-4	7NOV94	9NOV94	3	AM-102 Grab Sample							
Completed AS	07NOV94	AF 09NOV94									
GS25-4	14NOV94	16NOV94	3	AP-106 Grab Sample 242-A CAMPAIGN 95-1							
Completed AS	07NOV94	AF 17NOV94									
GS66-4	30NOV94	20DEC94	3	AY-102 Grab Sample							
Station 200 w/ sludge											
Completed AS	06DEC94	AF 07DEC94									
GS20-4	06DEC94	12DEC94	3	AP-107 242-A CAMPAIGN 95-1 Sample 10 (Grab)							
Completed AS	30JAN95	AF 02FEB95									
GS53-4	15DEC94	19DEC94	3	AY-101 Grab Sample							
Completed AS	27DEC94	AF 29DEC94									
GSB1-4	9JAN95	11JAN95	3	AZ-102 Grab Sample							
Completed AS	21FEB95	AF 22FEB95									
GS82-4	16JAN95	18JAN95	3	AZ-101 Grab Sample							
Completed AS	27FEB95	AF 03MAR95									
GS06-4	23JAN95	25JAN95	3	AP-101 Grab Sample							
Completed AS	15DEC94	AF 15DEC94									

Plan Date: 24NOV95
 Data Date: 10C193
 Project Start: 24NOV95
 Project Finish: 24NOV95

LOCKHEED MARTIN HAWFORD CORPORATION
 REVISED TANK FARMS SAMPLING SCHEDULE
 SAMPLING SCHEDULE Rev 4 9

AS OF 05/04/98 by L. Skerton

Date	Revised	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUE	1995	1996	1997	1998	1999	2000	2001	2002
				GRAB SAMPLE							
6515-4	30JAN95	1FEB95	3	14N-102 Grab Sample							
Completed AS	14FEB95	AF 15FEB95									
6533-4	8FEB95	8FEB95	3	18X-105 Grab Sample Compatibility - Jones							
Completed AS	14MAR95	AF 16MAR95									
6529-4	13FEB95	15FEB95	3	18Y-105 Grab Sample							
Completed AS	21MAR95	AF 22MAR95									
6530-4	21FEB95	23FEB95	3	18Y-103 Grab Sample Compatibility - Jones							
Completed AS	22MAR95	AF 23MAR95									
6517-4	27FEB95	1MAR95	3	14M-106 Grab Sample Compatibility - Jones							
Completed AS	07MAR95	AF 09MAR95									
6554-4	2MAR95	6MAR95	3	1A-244 Grab Sample Compatibility - Jones							
Completed AS	23MAR95	AF 23MAR95									
6510-4	7MAR95	9MAR95	3	1AN-106 Grab Sample							
Completed AS	03APR95	AF 06APR95									
6512-4	24MAR95	28MAR95	3	1S-110 Grab Sample Compatibility - Sutey							
Completed AS	05APR95	AF 07APR95									
6506-4	26APR95	28APR95	3	1U-107 Grab Sample Completion Sutey/High Priority							
Completed AS	10APR95	AF 13APR95									
6539-4	11MAY95	15MAY95	3	1U-109 Grab Sample							
Completed AS	23MAY95	AF 24MAY95									
6542-4	18MAY95	22MAY95	3	1U-108 Grab Sample Sutey/High Priority							
Completed AS	30MAY95	AF 31MAY95									
6543-4	29MAY95	30MAY95	4	1U-109 Grab Sample Sutey/High Priority							
Completed AS	01JUN95	AF 09JUN95									
6540-4	2JUN95	6JUN95	3	1U-105 Grab Sample Sutey/High Priority							
Completed AS	12JUN95	AF 16JUN95									
6514-4	9JUN95	13JUN95	3	1S-102 Grab Sample							
Completed AS	20JUN95	AF 23JUN95									
6590-4	16JUN95	20JUN95	3	1S-111 Grab Sample (Obtained D)							
Completed AS	23JUN95	AF 23JUN95									
PREPARED BY: 90796 DATE: 05/24/95 PROJECT: SD-608 PROJECT: 11/01/95				LOCKHEED MARTIN HANFORD CORPORATION REVISED 11/01/95 SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4.9							
15 OF 15/01/95 Rev 4.9				15 OF 15/01/95 Rev 4.9							

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ACTIVITY ID	EARLY START	EARLY FINISH	DTG DNR	1995	1996	1997	1998	1999	2000	2001	2002
				GRAB SAMPLE							
GS07-4	40EC95	60EC95	3				JAN-106 Grab Sample - Jones/Safety Screening				
Completed AS 17NOV95 AF 21NOV95 Completed Again AS 29DEC95 AF 29DEC95											
GS06-4	70EC95	110EC95	3				JAN-102 Grab Sample - Jones/Safety Screening				
Completed AS 27NOV95 AF 30NOV95 Completed Again AS 12DEC95 AF 12DEC95											
GS50-4	140EC95	180EC95	3				JAN-101 Grab Sample (Safety Screen)				
Completed AS 11DEC95 AF 12 DEC95											
GSAA-4	190EC95	21DEC95	3				JAN-108 Grab Sample (Safety Screening)				
Completed AS 02JAN96 AF 04JAN96											
GS45-4	2JAN96	4JAN96	3				JAN-104 CAMPAIGN 95-1 Grab Le (Sol Scrn)				
Completed AS 18JAN96 AF 23JAN96											
GS19-4	5FEB96	7FEB96	3				JAN-106 Grab Sample				
Completed AS 06FEB96 AF 01MAR96											
GS15-4	8FEB96	12FEB96	3				JAN-107 Grab Sample (Safety Screening)				
Completed AS 12FEB96 AF 14FEB96											
GSAC-4	13FEB96	15FEB96	3				JAN-101 Grab Sample (Safety Screening)				
Completed AS 20FEB96 AF 28FEB96											
GS05-4	16FEB96	21FEB96	3				JAN-102 Grab Sample				
Completed AS 28FEB96 AF 28FEB96											
GS21-4	1MAR96	5MAR96	3				JAN-102 Grab Sample				
Completed AS 01MAR96 AF 07MAR96											
GS81-4	25MAR96	27MAR96	3				JAN-102 Grab Sample				
Completed AS 25MAR96 AF 28MAR96											
GS78-4	1APR96	3APR96	3				A-101 Grab Sample - Jones				
Completed AS 02APR96 AF 03APR96											
GS26-4	4APR96	8APR96	3				IS-110 Grab Sample				
Completed AS 09APR96 AF 15APR96											
GS80-4	11APR96		0				◇TCP Lance Available				
Completed AF 27MAR96											
Print Date: 12/28/98 Data Date: 12/28/98 Project Start: 10/1/93 Project Finish: 3/31/99				LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARMS SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4 9				AS OF 12/28/98 W- 0 Station			
[x] Drawings System: ITC								Date: _____ Revision: _____ Date: _____ Revision: _____ Date: _____ Revision: _____			

ACTIVITY ID	EARLY START	EARLY FINISH	DUR										
				1995	1996	1997	1998	1999	2000	2001	2002		
GRAB SAMPLE													
GS85-4	25APR96	29APR96	3										
Completed AS	26AUG96	AF 04SEP96											
GS23-4	14MAY96	16MAY96	3										
Completed AS	30APR96	AF 02MAY96											
GS88-4	3JUN96	5JUN96	3										
Completed AS	13MAY96	AF 14MAY96											
GS44-4	20JUN96	24JUN96	3										
Completed AS	28MAY96	AF 30MAY96											
GS31-4	25JUN96	27JUN96	3										
C-105 Sludge 2000ml Privatization													
Completed AS	21JUN96	AF 23JUN96											
GS00-4	28JUN96	2JUL96	3										
AK-101 Supernatant - 5000 ml Privatization													
Completed AS	24JUN96	AF 28JUN96											
GS76-4	3JUL96	9JUL96	3										
Supernatant - 5000 ml Privatization													
Completed AS	8JUL96	AF 10JUL96											
GS01-4	10JUL96	12JUL96	3										
Completed AS	18JUL96	AF 18JUL96											
GS46-4	29JUL96	31JUL96	3										
Completed AS	13AUG96	AF 14AUG96											
GS77-4	19AUG96	19AUG96	3										
Completed AS	19AUG96	AF 21AUG96											
GS00-4	4SEP96	6SEP96	3										
Completed AS	09SEP96	AF 12SEP96											
GS22-4	16SEP96	18SEP96	3										
Completed AS	24SEP96	AF 25SEP96											
GS01-4	20OCT96	20OCT96	3										
Completed AS	01OCT96	AF 08OCT96											
Plot Date: 12/29/96 Date Only: 12/29/96 Project Start: 12/29/96 Project Finish: 12/29/96				LOCKHEED MARTIN HANFORD CORPORATION REVISED TANK FARMS SAMPLING SCHEDULE SAMPLING SCHEDULE Rev 4.9									

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR	1995	1996	1997	1998	1999	2000	2001	2002
6583-4	22DEC96	24DEC96	3	GRAB SAMPLE							
Completed AS	18OCT96	AF	18OCT96	ITX-244 Grab Sample Compatibility - Sutey							
6575-4	6NOV96	6NOV96	3	ISX-102 Grab Sample Compatibility - Sutey							
6534-4	16DEC96	16DEC96	3	ISX-104 Grab Sample Compatibility Saueressig ISM							
6584-4	9JAN97	13JAN97	3	AP-108 CAMPAIGN 97-2 Grab Sample - Le							
6537-4	24JAN97	28JAN97	3	ISX-103 Grab Sample Compatibility Saueressig ISM							
6568-4	10FEB97	12FEB97	3	IAX-101 Grab Sample Compatibility Saueressig ISM							
6500-4	26FEB97	28FEB97	3	IAX-101 Grab Sample - Black (Acoustic Verification)							
65X4-4	13MAR97	17MAR97	3	IAP-106 Grab Sample - (98-1 Compatibility) Le							
6554-4	28MAR97	1APR97	3	IAX-104 Grab Sample - (98-1 Compatibility) Le							
6506-4	14APR97	16APR97	3	IAX-102 Grab Sample (Caust Add/98-1 Compatibility) Black							
6504-4	29APR97	1MAY97	3	ISY-102 Grab Sample - (98-1 Compatibility) Le							
6548-4	14MAY97	16MAY97	3	IAP-107 Grab Sample (Campaign 98-1) Le							
6539-4	30MAY97	3JUN97	3	IAX-104 Grab Sample - (Campaign 98-1) Le							
65H4-4	16JUN97	18JUN97	3	AP-104 Grab Sample (Campaign 98-1) Le							
6532-4	1JUL97	3JUL97	3	ISX-102 Grab Sample Compatibility Saueressig ISM							
6582-4	17JUL97	21JUL97	3	ISY-102 Grab Sample - (98-2 Compatibility) Le							
6536-4	1AUG97	5AUG97	3	ISX-105 Grab Sample Compatibility Saueressig ISM							
650E-4	18AUG97	20AUG97	3	IAX-101 Grab Sample-Black (Acoustic Verification)							
65K1-4	3SEP97	5SEP97	3	ISY-102 Grab Sample - (98-2 Compatibility) Le							
65FA-4	1OCT97	3OCT97	3	ISY-102 Grab Sample - (98-2 Compatibility) Le							
650J-4	16OCT97	20OCT97	3	IAX-102 Grab Sample Black (Acoustic Verification)							
65FB-4	30OCT97	3NOV97	3	IAX-107 Grab Sample (Acoustic Addition)							
650N-4	13NOV97	17NOV97	3	IAX-105 Grab Sample Black							
65H6-4	10DEC97	30DEC97	3	IAP-103 CAMPAIGN 98-2 Grab Sample - Le							
65XC-4	15DEC97	17DEC97	3	IAP-107 CAMPAIGN 98-2 Grab Sample - Le							
650C-4	8JAN98	12JAN98	3	IC-106 Grab Sample - Black							
65FC-4	22JAN98	26JAN98	3	IAX-102 Grab Sample - Black							
65X2-4	5FEB98	9FEB98	3	ISY-102 Grab Sample - (99-2 Compatibility) Le							
65FD-4	19FEB98	24FEB98	3	IAX-102 Grab Sample - Black							

File Date: 05/05/98
Project Start: 05/19/98
Project Finish: 05/05/98

LOCKHEED MARTIN HANFORD CORPORATION
REVISED TANK FARMS SAMPLING SCHEDULE
SAMPLING SCHEDULE Rev 4 9

AS OF 05/05/98 - C Station

Area	Activity	Interval	Frequency

ACTIVITY ID	EARLY START	FINISH	ORIG DUR									
				1995	1996	1997	1998	1999	2000	2001	2002	
				GRAB SAMPLE								
GSEF-4	6MAR98	10MAR98	3					IAN-102 Grab Sample - Black				
GSFF-4	20MAR98	24MAR98	3					IAN-102 Grab Sample - Black				
GSDK-4	1APR98	3APR98	3					IAN-102 Grab Sample - Black				
GSFG-4	15APR98	17APR98	3					IAN-102 Grab Sample - Black				
GSXD-4	27APR98	29APR98	3					IAP-108 CAMPAIGN 99-1 Grab Sample - Le				
GSFH-4	1MAY98	13MAY98	3					IAP-106 Grab Sample				
GSFH-4	26MAY98	28MAY98	3					IAN-102 Grab Sample Black				
GSFT-4	9JUN98	11JUN98	3					IAN-102 Grab Sample Black				
GSGB-4	23JUN98	25JUN98	3					ISY-102 Grab Sample - 199-2 Compatibility Le				
GSFJ-4	9JUL98	13JUL98	3					IAN-102 Grab Sample Black				
GSFK-4	23JUL98	27JUL98	3					IAN-102 Grab Sample - Black				
GSFL-4	6AUG98	10AUG98	3					IAN-102 Grab Sample Black				
GSX3-4	25AUG98	27AUG98	3					IAP-106 Grab Sample - 199-2 Compatibility Le				
GSOC-4	14SEP98	16SEP98	3					IAN-101 Grab Sample 199-2 Compatibility - L				
GSNC-4	28SEP98	30SEP98	3					IAP-108 CAMPAIGN 99-1 Grab Sample - Le				
GSNA-4	21OCT98	23OCT98	3					IAN-102 Grab Sample - Black				
GSXA-4	4NOV98	6NOV98	3					ISY-102 Grab Sample - 199-3 Compatibility				
GSND-4	9NOV98	11NOV98	3					IAP-108 CAMPAIGN 99-2 Grab Sample - Le				
GSXE-4	23NOV98	25NOV98	3					IAP-104 CAMPAIGN 99-2 Grab Sample - Le				
GSXF-4	9DEC98	11DEC98	3					IAN-101 CAMPAIGN 99-2 Grab Sample - Le				
GSXG-4	1MAR99	3MAR99	3					IAP-108 CAMPAIGN 99-3 Grab Sample - Le				

Plot Date: 3/26/00
 Data File: 100103
 Project Start: 10/1/83
 Project Name: 30000

LOCKHEED MARTIN MANFORD CORPORATION
 REVISED TANK FARMING SAMPLING SCHEDULE
 SAMPLING SCHEDULE Rev 4 9

45 OF 03/26/00 = 5 Pages

Date	Revised	Revised Description

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR	1995	1996	1997	1998	1999	2000	2001	2002
CP00-4	1AUG96		0	CONE PENETROMETER							
				◊ Deploy Cone Penetrometer							

Plot Date: 04/01/98
 Plotter: JLL
 Project Start: 04/01/98
 Project Finish: 04/01/98

04/01/98 04/01/98
 04/01/98 04/01/98
 04/01/98 04/01/98

LOCKHEED MARTIN HANFORD CORPORATION
 REVISED TANK FARMS SAMPLING SCHEDULE
 SAMPLING SCHEDULE Rev 4.9

VS OF 04/01/98 M- 6 Station

Date	Revision	Checked	Approved

[illegible]

75610-96-13

Attachment 3

Sampling Schedule Rev 4.9 - Tabular Sort

Consisting of 21 Pages
Including Coversheet

HNP-SD-WM-TI-608 Rev 4

LOCKED NORTH HANFORD CORPORATION

FINEST HOUR

SAMPLING SCHEDULE Rev 4.9

REPORT DATE 5/4/96 RUN NO 2160
15:46
Sorted Form Tank SS Schedule Rev 4.9

AS OF 05 November 1995

START DATE 10CT93 FIN DATE 3MAR93
DATA DATE 15SEP94 PAGE NO 1

ACTIVITY ID	ORIG DUR	REQ DUR	#	ACTIVITY DESCRIPTION	SCHEDULED START FINISH
GS80 4	0	0	0	TOP Lance Available Completed AS 27MAR96	11APR96
CP00 4	0	0	0	Deploy Core Penetrator	1AUG96*
ML01 4	0	0	0	ALL WATCHLIST TANKS COMPLETE	15JUL99
VS05 4	3	3	0	A 101 Vapor Sample (3) Completed AS 06JUN95 AF 09JUN95	5JUN95* 9JUN95
GS78 4	3	3	0	A 101 Grab Sample Jones Completed AS 02APR96 AF 03APR96	1APR96* 3APR96
PS12 4	24	24	0	A 101 Push Samples 2 Segments 19 High Priority Completed AS 21JUL96 AF 25JUL96 RGS Primary Waste Type 1B	5JUN96 10JUL96
AS28 4	8	8	0	A 102 Auger Sample 2 Segments 1 (Obtained 1) Completed AS 06JUN95 AF 08JUN95	8JUN95 13JUN95
VS21 4	2	2	0	A 102 Vapor Sample (3) Completed AS 10MAY95 AF 10MAY95	12OCT95 13OCT95
AS53 4	4	4	0	A 102 Auger Sample 1 Segments 1 Off Ramp Completed AS 18MAR96 AF 21MAR96	20FEB96* 23FEB96
VS18 4	3	3	0	A 103 Vapor Sample (3) Completed AS 09MAY95 AF 09MAY95	9OCT95* 11OCT95
AS 4	20	20	0	A 103 Push Samples 2 Segments 10 RGS Secondary Waste Type 1B	6JUN97 3JUL97
AS11 4	5	5	0	A 104 Auger Sample 0 Completed AS 25OCT94 AF 10MAY95	13OCT94* 19OCT94
VS90 4	2	2	0	A 104 Vapor Sample (4)	19MAR98 20MAR98
AS12 4	5	5	0	A 104 Auger Sample 2 Segments 1	1JUN99* 7JUN99
VS81 4	2	2	0	A 105 Vapor Sample (4)	26MAR98 27MAR98
AS02 4	5	5	0	A 105 Auger Sample 2 Segments 1	1JUN00* 7JUN00
VS82 4	2	2	0	A 106 Vapor Sample (4) (Rotary)	2DEC96 3DEC96
RS53 4	24	24	0	A 106 Rotary Sample 2 Segments 3	15JUN97 14JUL97
GS54 4	3	3	0	A 244 Grab Sample Comparability Jones Completed AS 23MAR95 AF 23MAR95	2MAR95 6MAR95
GS04 4	3	3	0	AN 101 Grab Sample Completed AS 31AUG96 AF 06SEP96	13SEP95 15SEP95
GS60 4	3	3	0	AN 101 Grab Sample (Safety Screen) Completed AS 11DEC96 AF 12 DEC96	14DEC96* 18DEC96
GS6C 4	3	3	0	AN 101 Grab Sample (99 2 Comparability) Le	14SEP98 16SEP98
VSX5 4	2	2	0	AN 101 Vapor Sample (4)	20DEC96 30DEC96

REPORT DATE 5/20/96 RUN NO 2160
15.46

AS OF 05 November 1996

START DATE 10CT93 FIN DATE 3MAR93

4 s Sorted Farm Tank ES Schedule Rev 4.9

DATA DATE 15SEP94 PAGE NO 2

ACTIVITY ID	ORIG BUR	REM BUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	SCHEDULED FINISH
GSXF 4	3	3	0	AN 101 CAMP/ON 99 2 Grab Sample Le	9DEC93	11DEC93
GS50 4	3	3	0	AN 102 Grab Sample Process Control Jones Completed AS 19OCT94 AF 21OCT94	24OCT94*	26OCT94
GS15 4	3	3	0	AN 102 Grab Sample Completed AS 14FEB95 AF 15FEB95	30JAN95*	1FEB95
GS06 4	3	3	0	AN 102 Grab Sample Jones/Safety Screening Completed AS 27JUN95 AF 30JUN95 Completed Again AS 12DEC95 AF 12DEC95	7DEC95	11DEC95
GSFC 4	3	3	0	AN 102 Grab Sample Blank	22JAN98	26JAN98
GSFD 4	3	3	0	AN 102 Grab Sample Blank	19FEB98	24FEB98
GSFE 4	3	3	0	AN 102 Grab Sample Blank	6MAR98	10MAR98
GSFF 4	3	3	0	AN 102 Grab Sample Blank	20MAR98	24MAR98
GSJK 4	3	3	0	AN 102 Grab Sample Blank	1APR98	3APR98
GSFG 4	3	3	0	AN 102 Grab Sample Blank	15APR98	17APR98
GSJH 4	3	3	0	AN 102 Grab Sample Blank	26MAY98	28MAY98
GSFI 4	3	3	0	AN 102 Grab Sample Blank	9JUN98	11JUN98
GSFJ 4	3	3	0	AN 102 Grab Sample Blank	9JUL98	13JUL98
GSFK 4	3	3	0	AN 102 Grab Sample Blank	23JUL98	27JUL98
GSFL 4	3	3	0	AN 102 Grab Sample Blank	6AUG98	10AUG98
GS6A 4	3	3	0	AN 102 Grab Sample Blank	23OCT98*	23OCT98
VSX6 4	2	2	0	AN 102 Vapor Sample (4)	14DEC98	15DEC98
GS64 4	3	3	0	AN 103 Grab Sample (Privatization)Obtained 0 Completed AS 08SEP95 AF 08SEP95	8SEP95	12SEP95
VS33 4	20	20	0	AN 103 Push Sample 2 Segments 19 High Priority Completed AS 13SEP96 AF 24SEP96	15AUG96	12SEP96
VS17 4	2	2	0	AN 103 Vapor Sample (4)	6MAR97	7MAR97
VS31 4	20	20	0	AN 104 Push Sample 2 Segments 21 High Priority Completed AS 30JUL96 AF 12SEP96	16JUL96	12AUG96
VS22 4	2	2	0	AN 104 Vapor Sample (4)	17MAR97	18MAR97
VS26 4	20	20	0	AN 105 Push Sample 2 Segments 22 High Priority Completed AS 04JUN96 AF 28JUN96	7MAY96	4JUN96
VS21 4	2	2	0	AN 105 Vapor Sample (4)	26MAR97	27MAR97
GS10 4	3	3	0	AN 106 Grab Sample Completed AS 03APR95 AF 06APR95	7MAR95	9MAR95

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ACTIVITY ID	ORIG DUR	REM DUR	#	ACTIVITY DESCRIPTION	SCHEDULED START FINISH
GS87 4	3	3	0	AM 106 Grab Sample Jones/Safety Screening Completed AS 17NOV95 AF 21NOV95 Completed Again AS 29DEC95 AF 29DEC95	4DEC95 6DEC95
VS22 4	2	2	0	AM 106 Vapor Sample (4)	21DEC95 22DEC95
GS81 4	3	3	0	AM 107 Grab Sample Process Control Jones Completed AS 17OCT94 AF 18OCT94	17OCT94 19OCT94
VS35 4	3	3	0	AM 107 Vapor Sample (2) Completed AS 20DEC94 AF 21DEC94	10DEC94 5DEC94
GS16 4	3	3	0	AM 107 Grab Sample (Safety Screening) Completed AS 12FEB96 AF 14FEB96	8FEB96 12FEB96
GS76 4	3	3	0	AM 107 Grab Samples 2 (Priority) High Priority Supernatant 5000 ml Privatization Completed AS 8JUL96 AF 10JUL96	3JUL96 9JUL96
GS78 4	3	3	0	AM 107 Grab Sample (Exotic Addition)	30OCT97 3NOV97
VS23 4	2	2	0	AM 107 Vapor Sample (4)	7JAN99 8JAN99
GS06 4	1	1	0	AP 101 Grab Sample Completed AS 15DEC94 AF 15DEC94	23JAN95 25JAN95
VS71 4	2	2	0	AP 101 Grab Sample Compatibility Survey Completed AS 09NOV95 AF 10NOV95	27NOV95 28NOV95
VS24 4	2	2	0	AP 101 Vapor Sample (4)	14JAN99 15JAN99
VS25 4	2	2	0	AP 102 Vapor Sample (4)	21JAN99 22JAN99
GS88 4	3	3	0	AP 103 CAMPAIGN 98 2 Grab Sample Le	10EC97 30EC97
VS26 4	2	2	0	AP 103 Vapor Sample (4)	28JAN99 29JAN99
GS4E 4	3	3	0	AP 104 CAMPAIGN 96 1 Grab Sample (Safe Scm) Completed AS 18JAN96 AF 23JAN96	2JAN96 4JAN96
GS8A 4	3	3	0	AP 104 Grab Sample (Campaign 98 1) Le	16JUN97 18JUN97
GS8E 4	3	3	0	AP 104 CAMPAIGN 99 2 Grab Sample Le	23NOV98 25NOV98
VS27 4	2	2	0	AP 104 Vapor Sample (4)	4FEB99 9FEB99
GS8S 4	3	3	0	AP 105 CAMPAIGN 97 1 Grab Sample Le Completed AS 25AUG95 AF 04SEP96	25AUG96 29AUG96
VS2A 4	2	2	0	AP 105 Vapor Sample (4)	11FEB99 12FEB99
GS2S 4	3	3	0	AP 106 Grab Sample 242 A CAMPAIGN 96 1 Completed AS 07NOV94 AF 17NOV94	14NOV94 16NOV94
GS0C 4	3	3	0	AP 106 Grab Sample (Compatibility) Blank Completed AS 09Sep95 AF 12Sep96	4SEP96 6SEP96
GSXA 4	3	3	0	AP 106 Grab Sample (98 1 Compatibility) Le	13MAR97 17MAR97

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ACTIVITY ID	ORIG DUR	REN DUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	SCHEDULED FINISH
GSFH 4	3	3	0	AP 106 Grab Sample	11MAY98	13MAY98
GSXJ 4	3	3	0	AP 106 Grab Sample (99.2 Compatibility) Le	25AUG98	27AUG98
GSND 4	3	3	0	AP 106 CAMPAIGN 99.2 Grab Sample Le	9NOV98*	11NOV98
VSZB 4	2	2	0	AP 106 Vapor Sample (4)	18FEB99	19FEB99
GS20 4	3	3	0	AP 107 242 A CAMPAIGN 95.1 Sample 10 (Grab) Completed AS 30JAN95 AF 07FEB95	8DEC94*	12DEC94
GSXB 4	3	3	0	AP 107 Grab Sample (Campaign 98.1) Le	14MAY97	16MAY97
GSXC 4	3	3	0	AP 107 CAMPAIGN 98.2 Grab Sample Le	15DEC97	17DEC97
VSZC 4	2	2	0	AP 107 Vapor Sample (4)	26FEB99	1MAR99
GSAA 4	3	3	0	AP 108 Grab Sample (Safety Screening) Completed AS 02JAN96 AF 04JAN96	19DEC95	21DEC95
GSBA 4	3	3	0	AP 108 CAMPAIGN 97.2 Grab Sample Le	9JAN97	13JAN97
GSXD 4	3	3	0	AP 108 CAMPAIGN 99.1 Grab Sample Le	27APR98	29APR98
GSXC 4	3	3	0	AP 108 CAMPAIGN 99.1 Grab Sample Le	28SEP98	30SEP98
GSXD 4	3	3	0	AP 108 CAMPAIGN 99.3 Grab Sample Le	1MAR99*	3MAR99
VSZD 4	2	2	0	AP 108 Vapor Sample (4)	5MAR99	8MAR99
AS04 4	5	5	0	AM 101 Auger Sample 3 Segments 1 Completed AS 26JAN95 AF 27JAN95	15SEP94	21SEP94
PS03 4	80	80	0	AM 101 Push Sample 2 Segments 22 High Priority AM 101 Supernatant 5500ml (Pretreatment) Completed AS 29JAN96 AF 29MAR96	15JUN96	6MAY96
GS0C 4	3	3	0	AM 101 Grab Samples 2 (Privat: High Priority) AM 101 Supernatant 5000 ml (Privatization) Completed AS 24JUN96 AF 28JUN96	28JUN96	2JUL96
VSZE 4	2	2	0	AM 101 Vapor Sample (4)	15MAR99	15MAR99
GS92 4	3	3	0	AM 102 Grab Sample Completed AS 07MAY94 AF 09MAY94	7MAY94*	9MAY94
GS9L 4	3	3	0	AM 102 Grab Sample Jones Completed AS 24AUG95 AF 25AUG95	28AUG95	30AUG95
GS46 4	3	3	0	AM 102 Grab Sample Jones Completed AS 13AUG96 AF 14AUG96	29JUL96	31JUL96
VSZF 4	2	2	0	AM 102 Vapor Sample (4)	19MAR99	23MAR99
GS57 4	3	3	0	AM 103 Grab Sample Compatibility Jones Completed AS 29SEP94 AF 29SEP94	30CT94*	30CT94
PS10 4	20	20	0	AM 103 Push Sample 2 Segments 10	22DEC98	28JAN99

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ACTIVITY ID	ORIG DWR	REN DWR	#	ACTIVITY DESCRIPTION	SCHEDULED START	SCHEDULED FINISH
VS2G 4	2	2	0	AK 103 Vapor Sample (4)	26MAR93	29MAR93
GS56 4	3	3	C	AK 104 Grab Sample Compatibility Jones Completed AS 27SEP94 AF 28SEP94	26SEP94*	28SEP94
GS59 4	3	3	C	AK 104 Grab Sample (98.1 Compatibility) Le	28MAR93	1APR93
GS38 4	3	3	0	AK 104 Grab Sample (Campaign 98.1) Le	30MAR93	3JUN93
VS2H 4	2	2	C	AK 104 Vapor Sample (4)	2APR93	5APR93
GS13 4	3	3	0	AK 105 Grab Sample Completed AS 28AUG95 AF 29AUG95	5SEP95*	7SEP95
GS77 4	3	3	C	AK 105 Grab Sample Blank (Compatibility) Completed AS 19AUG95 AF 21AUG95	15AUG95	19AUG95
GS0H 4	3	3	0	AK 105 Grab Sample Blank	13NOV93	17NOV93
PS41 4	20	20	C	AK 105 Push Sample 2 Segments 20	23OCT93	19NOV93
VS2I 4	2	2	0	AK 105 Vapor Sample (4)	9APR93	12APR93
GS17 4	3	3	C	AK 106 Grab Sample Compatibility Jones Completed AS 07MAR95 AF 09MAR95	27FEB95	19MAR95
GS24 4	3	3	C	AK 106 Grab Sample Compatibility Jones Completed AS 23AUG95 AF 24AUG95	21AUG95*	23AUG95
PS44 4	20	20	0	AK 106 Push Sample 2 Segments 14	16JUL93	12AUG93
VS2J 4	2	2	0	AK 106 Vapor Sample (4)	16APR93	19APR93
VS32 4	3	3	0	AK 101 Vapor Sample (3) Completed AS 12JUN95 AF 15JUN95	17MAY95*	19MAY95
GS6B 4	3	3	C	AK 101 Grab Sample Compatibility Saueressing (SM)	10FEB97*	12FEB97
RS3B 4	24	24	0	AK 101 Rotary Samples 2 Segments 15 High Priority	11FEB97	17MAR97
AS10 4	5	5	0	AK 102 Auger Sample 2 Segment 1 Completed AS 06FEB95 AF 14FEB95	6OCT94	12OCT94
VS06 4	3	3	0	AK 102 Vapor Sample (3) Completed AS 26JUN95 AF 28JUN95	30MAY95*	1JUN95
VS33 4	3	3	0	AK 103 Vapor Sample (3) Completed AS 20JUN95 AF 21JUN95	22MAY95	24MAY95
RS52 4	24	24	0	AK 103 Rotary Samples 2 Segments 3	22DEC97	3FEB98
AS0E 4	5	5	C	AK 104 Auger Sample 0 Completed AS 14FEB95 AF 17FEB95	11JAN95*	17JAN95
VS83 4	2	2	0	AK 104 Vapor Sample (4) (LOW)	9DEC96	10DEC96
UD05 4	18	18	C	AK 104 Testing Light Duty Utility Arm High Pri	6JUN97*	1JUL97
GS60 4	3	3	0	AK 101 Grab Sample Compatibility Jones Completed AS 07OCT94 AF 07OCT94	10OCT94*	12OCT94

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ACTIVITY ID	DRUG DUR	REP DUR	Σ	ACTIVITY DESCRIPTION	SCHEDULED START FINES*
GS63 4	3	3	0	AY 101 Grab Sample Completed AS 27DEC94 AF 29DEC94	15DEC94* 19DEC94
GS64 4	3	3	0	AY 101 Grab Sample (Safety Screening) Completed AS 20FEB96 AF 28FEB96	13FEB96 16FEB96
GS60 4	3	3	0	AY 101 Grab Sample B'lack (Caustic Verification)	26FEB97 28FEB97
GS6F 4	3	3	0	AY 101 Grab Sample B'lack (Caustic Verification)	16AUG97 20AUG97
YSX1 4	2	2	0	AY 101 Vapor Sample (4)	5NOV98 6NOV98
GS66 4	3	3	0	AY 102 Grab Sample Obtain 200 ml sludge Completed AS 05DEC94 AF 07DEC94	30NOV94* 20DEC94
GS41 4	2	2	0	AY 102 Grab Sample Jones/Privatization/ Completed AS 18SEP95 AF 18SEP95	20SEP95 21SEP95
GS65 4	3	3	0	AY 102 Grab Sample Completed AS 28FEB96 AF 28FEB96	16FEB96 21FEB96
GS8A 4	3	3	0	AY 102 Grab Sample Completed AS 25MAR96 AF 28MAR96	25MAR96* 27MAR96
GS8B 4	3	3	0	AY 102 Grab Sample B'lack Completed AS 13MAY96 AF 14MAY96	3JUN96 6JUN96
GS0J 4	3	3	0	AY 102 Grab Sample Completed AS 18JUL96 AF 18JUL96	10JUL96 12JUL96
GS0L 4	3	3	0	AY 102 Grab Sample (Caus Add) B'lack Completed AS 01OCT96 AF 08OCT96	20CT96* 30OCT96
GS0G 4	3	3	0	AY 102 Grab Sample (Caus Add/98 Compatibility) B'lack	14APR97 16APR97
GS0I 4	3	3	0	AY 102 Grab Sample B'lack (Caustic Verification)	16OCT97 20OCT97
YSX2 4	2	2	0	AY 102 Vapor Sample (4)	12NOV98 13NOV98
GS62 4	3	3	0	AZ 101 Grab Sample Completed AS 27FEB95 AF 03MAR95	16JAN95 16MAR95
YSX3 4	2	2	0	AZ 101 Vapor Sample (4)	19NOV98 20NOV98
RS95 4	24	24	0	AZ 101 Rotary Sample 2 Segments 18 AZ 101 Supernatant 4 D Filters (Pretreatment)	12APR99 19MAY99
GS61 4	3	3	0	AZ 102 Grab Sample Completed AS 21FEB95 AF 22FEB95	9JAN95* 11JAN95
YSX4 4	2	2	0	AZ 102 Vapor Sample (4)	30NOV98 10DEC98
RS23 4	20	20	0	AZ 102 Push Sample 2 Segments 19	1MAR99 20MAR99
RS48 4	10	10	0	B 101 Push Sample 2 Segments 2 Completed AS 15JUN95 AF 27JUN95	15JUN95 26JUN95
YS64 4	2	2	0	B 101 Vapor Sample (4)	24APR98 3APR98

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ACTIVITY ID	DRG CUR	REM CUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
AS05 4	5	5	0	B 102 Auger Sample 2 Segments 1 222s Completed AS 120CT94 AF 120CT94	29SEP94*	50CT94
VS22 4	3	3	0	B 102 Vapor Sample (3) Completed AS 17APR96 AF 18APR96	10APR96	12APR96
AS06 4	5	5	0	B 102 Auger Sample 2 Segments 1 222s	3JUN92*	7JUN92
VS45 4	3	3	0	B 103 Vapor Sample (3) Completed AS 07FEB95 AF 08FEB95	27JAN95*	31JAN95
AS13 4	5	5	0	B 103 Auger Sample 2 Segments 1 Completed AS 7MAY95 AF 22JUN95	1JUN95	7JUN95
VS46 4	5	5	0	B 103 Homogeneity Vapor Sample 6 (4) High Priority Completed AS 160CT96 AF 170CT96	70CT96*	110CT96
AS08 4	9	9	0	B 104 Push Sample 2 Segments 7 High Priority Completed AS 30MAY95 AF 14JUN95	2JUN95	14JUN95
VS85 4	2	2	0	B 104 Vapor Sample (4)	9APR90	10APR90
VS55 4	2	2	0	B 105 Vapor Sample (4) (Rotary) Completed AS 20JUL96 AF 20JUL96	25JUL96	26JUL96
AS55 4	24	24	0	B 105 Rotary Samples 2 Segments 3	160CT97	18MAY97
0 4	10	10	0	B 106 Push Sample 2 Segments 2 Completed AS 29JUN95 AF 15JUL95	17JUL95*	26JUL95
VS86 4	2	2	0	B 106 Vapor Sample (4)	16APR90	17APR90
VS28 4	2	2	0	B 107 Vapor Sample (4) (Rotary) Completed AS 22JUL96 AF 22JUL96	23JUL96	24JUL96
AS54 4	24	24	0	B 107 Rotary Samples 2 Segments 4	19MAY97	5JUN98
AS01 4	24	24	0	B 108 Rotary Sample 2 Segments 2 Completed AS 03SEP96 AF 06SEP96	14AUG96	17SEP96
VS87 4	2	2	0	B 108 Vapor Sample (4)	16DEC96	17DEC96
AS00 4	24	24	0	B 109 Rotary Sample 2 Segments 3 Completed AS 13AUG96 AF 26AUG96	11JUL96	13AUG96
VS88 4	2	2	0	B 109 Vapor Sample (4)	23DEC96	2JAN97
VS89 4	2	2	0	B 110 Vapor Sample (4)	23APR98	24APR98
VS8A 4	2	2	0	B 111 Vapor Sample (4)	30APR98	2MAY98
AS21 4	5	5	0	B 112 Auger Sample 2 Segments 1 Completed AS 12MAR95 AF 17MAR95	22FEB95	28FEB95
VS8B 4	2	2	0	B 112 Vapor Sample (4)	7MAY98	8MAY98
VS8C 4	2	2	0	B 201 Vapor Sample (4)	14MAY98	15MAY98
VS23 4	2	2	0	B 202 Vapor Sample (4) Completed AS 18JUL96 AF 18JUL96	19JUL96	22JUL96

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ACTIVITY ID	ORIG CUR	REN DUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
RS47 4	16	16	0	B 203 Rotary Sample 3 Segment 14 (55k Tank) Completed AS 19OCT95 AF 14DEC95	20NOV95*	18DEC95
VS80 4	2	2	0	B 203 Vapor Sample (4)	21MAY98	22MAY98
PS67 4	16	16	0	B 204 Push Sample 2 Segments 14 (55k Tank) Completed AS 06OCT95 AF 19OCT95	20CT95	23OCT95
VS8E 4	2	2	0	B 204 Vapor Sample 141	29MAY98	1JUN98
VS8F 4	2	2	0	BX 101 Vapor Sample (4)	5JUN98	8JUN98
VS19 4	2	2	0	BX 102 Vapor Sample (4) (Rotary) Completed AS 31JUL96 AF 31JUL96	29JUL96	30JUL96
RS09 4	24	24	0	BX 102 Rotary Sample 2 Segment 2	21OCT98	29NOV98
PS60 4	9	9	0	BX 103 Push Sample 2 Segments 1 Completed AS 28MAY95 AF 30MAY95	8MAY95	18MAY95
VS8G 4	2	2	0	BX 103 Vapor Sample (4) Completed AS 01AUG96 AF 01AUG96	31JUL96	1AUG96
VS8G 4	3	3	0	BX 104 Vapor Sample (3) Completed AS 29DEC94 AF 30DEC94	14DEC94	16DEC94
PS61 4	9	9	0	BX 104 Push Sample 2 Segments 2 Completed AS 02JAN96 AF 06JAN96	21JAN96*	12JAN96
VS4F 4	2	2	0	BX 104 Temporal Vapor Sample (4) High Priority Completed AS 22AUG96 AF 22AUG96	22AUG96	29AUG96
VS4F 4	2	2	0	BX 104 Temporal Vapor Sample (4) High Priority	22NOV96	29NOV96
VS4G 4	2	2	0	BX 104 Temporal Vapor Sample (4) High Priority	31JAN97	3FCB97
VS2N 4	2	2	0	BX 104 Temporal Vapor Sample (4) High Priority	4APR97	7APR97
VS2P 4	2	2	0	BX 104 Temporal Vapor Sample (4) High Priority	3JUN97	4JUN97
AS08 4	5	5	0	BX 105 Auger Sample 2 Segments 1 Completed AS 28SEP94 AF 06OCT94	15SEP94	21SEP94
VS24 4	3	3	0	BX 105 Vapor Sample (3) Completed AS 23APR96 AF 24APR96	17APR96	19APR96
OS33 4	3	3	0	BX 106 Grab Sample Competability Jones Completed AS 14MAR95 AF 16MAR95	6FEB95*	8FEB95
AS01 4	5	5	0	BX 106 Auger Sample 2 Segments 1 Completed AS 04DEC95 AF 20DEC95	4DEC95*	8DEC95
VS8H 4	2	2	0	BX 105 Vapor Sample (4) Completed AS 14AUG96 AF 15AUG96	7AUG96	8AUG96
VS19 4	3	3	0	BX 107 Vapor Sample (3) Completed AS 16NOV95 AF 17NOV95	1NOV95*	3NOV95
VS8I 4	2	2	0	BX 108 Vapor Sample 141	12JUN98	15JUN98

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PS66 4	0	8	0	8X 109 Push Sample 2 Segments 4 8X 109 Sludge/Saltcake 1000 ml sealing Additional sludge/saltcake 200 ml req Completed AS 27MAR95 AF 29MAR95	26APR95	30APR95
VSBJ 4	2	2	0	8X 109 Vapor Sample (4)	19JUN95	22JUN95
AS36 4	5	5	0	8X 110 Auger Sample 2 Segments 1 Completed AS 09OCT95 AF 16OCT95	16OCT95	20OCT95
VS50 4	3	3	0	8X 110 Vapor Sample (3) (Rotary) Completed AS 29APR96 AF 30APR96	22APR96	24APR96
RS60 4	24	24	0	8X 110 Rotary Samples 2 Segments 4 High Priority Completed AS 20NOV96 AF 7JAN97	20NOV96	7JAN97
VS51 4	2	2	0	8X 111 Vapor Sample (4) (Rotary) Completed AS 27AUG96 AF 27AUG96	9AUG96	12AUG96
RS61 4	24	24	0	8X 111 Rotary Samples 2 Segments 4	6AUG97	9SEP97
AS32 4	5	5	0	8X 112 Auger Sample 2 Segments 1 Completed AS 12NOV95 AF 17NOV95	20NOV95	24NOV95
PS64 4	5	5	0	8X 112 Push Sample 2 Segments 3 Completed AS 21DEC95 AF 27DEC95	29NOV95	30DEC95
VS6K 4	2	2	0	8X 112 Vapor Sample (4)	26JUN96	29JUN96
VS 4	2	2	0	8Y 101 Vapor Sample (4) Completed AS 29AUG96 AF 29AUG96	13AUG96	14AUG96
PS32 4	20	20	0	8Y 101 Push Samples 2 Segments 10 High Priority RGS Primary Waste Type 20	3FEB97	3MAR97
VS56 4	3	3	0	8Y 102 Vapor Sample (3) Completed AS 20NOV95 AF 21NOV95	6NOV95	8NOV95
RS56 4	24	24	0	8Y 102 Rotary Samples 2 Segments 5 Off Road Completed AS 13JUL96 AF 09JUL96	8JUL96	8AUG96
VS04 4	3	3	0	8Y 103 Vapor Sample (3) Completed AS 31OCT94 AF 01NOV94	19OCT94	21OCT94
AS30 4	5	5	0	8Y 103 Auger Sample 2 Segments 1 Completed AS 06MAR95 AF 10MAR95	3FEB95	14FEB95
GS30 4	3	3	0	8Y 103 Grab Sample Compatibility Jones Completed AS 22MAR95 AF 23MAR95	21FEB95	23FEB95
RS25 4	24	24	0	8Y 103 Rotary Samples 2 Segments 8	25JUN99	26FEB99
RS03 4	36	36	0	8Y 104 Rotary Samples 2 Segments 7 High Priority Completed AS 06OCT95 AF 15NOV95	9OCT95	29NOV95
VS64 4	3	0	100	8Y 105 Vapor Sample (3)	12JUL94A	12JUL94A
GS25 4	3	3	0	8Y 105 Grab Sample Completed AS 21MAR96 AF 22MAR96	13FEB95	15FEB95

ACTIVITY ID	ORIG DUR	REN DUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	SCHEDULED FINISH
RSQ1 4	23	23	0	BY 105 Rot Samp 2 Seg 8 High Priority OBTAINED 1 Completed AS 21AUG95 AF 06OCT95	6SEP95*	6OCT95
RS41 4	24	24	0	BY 106 Rotary Samples 2 Segments 8 Repairs BSS Waste Type 3A	10OCT98	22JAN99
RSQ4 4	10	10	0	BY 106 Rot Mode Sample 1 Seg 13 High Priority Completed AS 20OCT94 AF 25JAN95	30CT94*	14OCT94
RS23 4	12	12	0	BY 106 Rotary Samples 1 Seg 13 High Priority Completed AS 18NOV95 AF 19DEC95	30NOV95	15DEC95
VSQK 4	3	3	0	BY 107 Vapor Sample (3) ITC (installed) Completed AS 25OCT94 AF 26OCT94	11OCT94	13OCT94
RS26 4	24	24	0	BY 107 Rotary Samples 2 Segments 6 Off Ramp Completed AS 30MAR96 AF 26JUL96	31MAR96	13JUL96
VSE6 4	1	3	0	BY 108 Vapor Sample (3) Completed AS 27OCT94 AF 27OCT94	14OCT94	18OCT94
ASQ8 4	5	5	0	BY 108 Auger Sample 2 9 Auger Completed AS 16DEC94 AF 10DEC94	3NOV94	9NOV94
RS25 4	36	36	0	BY 108 Rotary Samples 3 Seg 5 High Priority Completed AS 14JUL95 AF 16AUG95	17JUL95*	4SEP95
VSQ4 4	3	3	0	BY 108 Temporal Vapor Sample 3 (3 & 4) Completed AS 22JAN96 AF 23JAN96	5JAN96	9JAN96
VS73 4	1	3	0	BY 108 Temporal Vapor Sample (3) Completed AS 27MAR96 AF 28MAR96	28MAR96	1APR96
VS44 4	3	1	0	BY 108 Temporal Vapor Sample (4) Completed AS 27MAR96 AF 28MAR96	28MAR96	1APR96
VS47 4	3	1	0	BY 108 Temporal Vapor Sample (3) High Priority Completed AS 09SEP96 AF 10SEP96	13SEP96	17SEP96
VS4R 4	3	1	0	BY 108 Temporal Vapor Sample (3) High Priority	7NOV96	11NOV96
VS4K 4	3	1	0	BY 108 Temporal Vapor Sample (3) High Priority	14FEB97	19FEB97
VSED 4	2	2	0	BY 109 Vapor Sample (3)	8JAN97	9JAN97
PS30 4	20	20	0	BY 109 Push Samples 2 Segments 10 R2S Secondary Waste Type 2B	4APR97	1MAR97
VSEN 4	3	3	0	BY 110 Vapor Sample (3) Completed AS 10NOV94 AF 11NOV94	7NOV94*	9NOV94
RS20 4	75	75	0	BY 110 Rotary Samples 6130 Seg 6 High Priority Completed AS 10JUL95 AF 20OCT95	10JUL95*	20OCT95
VSS2 4	1	3	0	BY 111 Vapor Sample (3) Completed AS 35NOV94 AF 16NOV94	10NOV94	14NOV94
RS27 4	24	24	0	BY 111 Rotary Samples 2 Segments 9 Completed AS 01AUG96 AF 03SEP96	9AUG96	12SEP96

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AS OF 06 November 1996

START DATE 10CT93 FIN DATE 30MAR93

Sorted Farm Tank ES Schedule Rev 4 B

DATA DATE 15SEP94 PAGE NO 11

ACTIVITY ID	ORIG	REN	OUR	CUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
VS22 4	3	3	0			BY 112 Vapor Sample (3) Completed AS 17NOV94 AF 18NOV94	15NOV94	17NOV94
RS28 4	24	24	0			BY 112 Rotary Samples 2 Segments 6 Completed AS 20SEP96 AF 08OCT96	16SEP96	17OCT96
AS07 4	5	5	0			C 101 Auger Sample 2 Segments 2 Completed AS 29MAR95 AF 30MAR95	8MAR95	14MAR95
AS11 4	5	5	0			C 101 Auger Sample 2 Segments 2	27SEP92*	30CT92
VS13 4	2	0	100			C 102 Vapor Sample (3) Completed AS 24AUG94 AF 25AUG94	24AUG94A	25AUG94A
AS99 4	5	5	0			C 102 Auger Sample Completed AS 25OCT94 AF 13JAN95	25SEP94	5OCT94
RS87 4	24	24	0			C 102 Rotary Samples 2 Segments 9	14APR97	19MAY97
PS05 4	20	20	0			C 103 Push Sample 2 Segments 4 Completed AS 20OCT94 AF 09FEB95	13OCT94	5NOV94
VS99 4	3	0	100			C 104 Vapor Sample (3) Completed AS 22FEB94 AF 03MAR94	22FEB94A	3MAR94A
RS48 4	24	24	0			C 104 Rotary Samples 2 Segments 5 High Priority Risers 3 & 14 were completed 26JUL96 31JUL96 Riser 8 has been postponed	5JUN96	16JUL96
PS25 4	20	20	0			C 105 Push Note Sample 2 Segments 3 Completed AS 13MAR95 AF 23MAR95	29MAR95	25APR95
GS19 4	3	3	0			C 106 Grab Sample Completed AS 06FEB96 AF 01MAR96	5FEB96*	7FEB96
VS12 4	3	3	0			C 106 Vapor Sample (2) Completed AS 28MAR96 AF 11APR96	28FEB96*	0MAR96
GS31 4	3	3	0			C 106 Grab Samples 2 (Private) High Priority C 106 Sludge 2000ml Privatization Completed AS 21JUN96 AF 23JUN96	25JUN96	27JUN96
GS00 4	3	3	0			C 106 Grab Sample Blank	03JAN98	12JAN98
RS02 4	24	24	0			C 106 Rotary Samples 2 Segments 4 High Priority	12JAN98	12FEB99
VS02 4	3	3	0			C 107 Vapor Sample (3) Completed AS 28SEP94 AF 29SEP94	15SEP94*	19SEP94
PS68 4	20	20	0			C 107 Push Sample 3 Segments 5 C 107 Sludge/saltcake sample 2000 ml peeling Additional sludge/saltcake 1000ml addition Completed AS 10MAR95 AF 10MAR95	10MAR95A	29MAR95
VS44 4	3	3	0			C 107 Temporal Vapor Sample 3 (3 & 4) Completed AS 16JAN96 AF 17JAN96	23MAR96*	4JAN96
VS72 4	3	3	0			C 107 Temporal Vapor Sample (3) Completed AS 25MAR96 AF 26MAR96	25MAR96*	27MAR96

OBT DATE 5/10/96 RUN NO 2180
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AS OF 05 November 1996

START DATE 10/7/90 FIN DATE 3/14/93

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ACTIVITY ID	ORIG CUR	REN DUR	#	ACTIVITY DESCRIPTION	SCHEDULED START FINISH
VSAB 4	3	3	0	C 107 Temporal Vapor Sample (4) Completed AS 25MAR96 AF 26MAR96	25MAR96* 27MAR96
VSAC 4	3	3	0	C 107 Temporal Vapor Sample (3) High Priority Completed AS 05SEP96 AF 06SEP96	3SEP96 5SEP96
VSAT 4	3	3	0	C 107 Temporal Vapor Sample (3) High Priority	31OCT96 4NOV96
VSAD 4	3	3	0	C 107 Temporal Vapor Sample (3) High Priority	7FEB97 11FEB97
VS30 4	3	0	100	C 108 Vapor Sample (2)	9MAY94A 9MAY94A
AS14 4	5	5	0	C 108 Auger Sample 2 Segments 1 Completed AS 11NOV94 AF 15DEC94	27OCT94 2NOV94
AS15 4	5	5	0	C 111 Auger Sample 2 Segments 1 Completed AS 29MAR96 AF 29MAR96	1MAR96 2MAR96
AS12 4	5	5	0	C 111 Auger Sample 2 Segments 1	25FEB93 3MAR93*
AS20 4	5	5	0	C 201 Auger Sample 2 Segments 1 Completed AS 02MAY96 AF 03MAY96	19APR96 25APR96
VS25 4	3	3	0	C 201 Vapor Sample (4) Completed AS 19JUN96 AF 19JUN96	24JUN96 26JUN96
AS54 4	5	5	0	C 201 Auger Sample 2 Segments 1	26SEP90* 20OCT00
AS16 4	5	5	0	C 202 Auger Sample 2 Segments 1 Completed AS 04MAY96 AF 05MAY96	3MAY96 9MAY96
VS26 4	2	2	0	C 202 Vapor Sample (4) Completed AS 26JUN96 AF 26JUN96	27JUN96 28JUN96
AS55 4	5	5	0	C 202 Auger Sample 2 Segments 1	1JUN01* 2JUN01
AS17 4	5	5	0	C 202 Auger Sample 2 Segments 1 Completed AS 03APR96 AF 06APR96	22MAR96 28MAR96
VS28 4	2	2	0	C 203 Vapor Sample (4)	7JUL98 8JUL98
AS27 4	5	5	0	C 204 Auger Sample 2 Segments 1 Completed AS 10APR96 AF 02MAY96	5APR96 11APR96
VS27 4	2	2	0	C 204 Vapor Sample (4) Completed AS 02JUL96 AF 02JUL96	1JUL96 2JUL96
VS17 4	3	3	0	C 301 INHIST Vapor Sample (3) Completed AS 29SEP96 AF 29SEP96	5SEP96* 7SEP96
GS22 4	3	3	0	S 302C Grab Sample Mammals (Competibility) Completed AS 24SEP96 AF 25SEP96	16SEP96 18SEP96
GS55 4	3	3	0	ER 311 Grab Sample Probes Control (CATCH TANK) Completed AS 28OCT94 AF 28OCT94	31OCT94 2NOV94
RS35 4	24	24	0	S 101 Rotary Samples 2 Segments 9 High Priority Completed AS 12MAR96 AF 03APR96	19MAR96 22FEB96

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LOCKHEED MARTIN HANFORD CORPORATION

FINEST HOUR

SAMPLING SCHEDULE Rev 4.9

REPORT DATE 5/10/96 RUN NO 2160
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AS OF 06 November 1996

START DATE 10CT93 FIN DATE 3/10/93

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ACTIVITY ID	DRUG	REN	OUR	2	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
VS58 4	2	2	0		S 101 Vapor Sample (4) Completed AS 06JUN96 AF 06JUN96	5JUN96	6JUN96
VS05 4	3	3	0		S 102 Vapor Sample (3) Completed AS 13MAR96 AF 14MAR96	23MAR96*	27MAR96
GS14 4	3	3	0		S 102 Grab Sample Completed AS 20JUN96 AF 23JUN96	9JUN96*	13JUN96
VS58 4	24	24	0		S 102 Rotary Samples 2 Seg 1: High Priority Completed AS 02JAN96 AF 03MAR96	7DEC95	18JAN96
VS03 4	3	3	0		S 102 Temporal Vapor Sample 2 (3 & 4) Completed AS 24JAN96 AF 26JAN96	12JAN96	16JAN96
VS74 4	3	3	0		S 102 Temporal Vapor Sample (3) Completed AS 02APR96 AF 03APR96	2APR96	4APR96
VSAL 4	3	3	0		S 102 Temporal Vapor Sample (4) Completed AS 02APR96 AF 03APR96	2APR96	4APR96
VSAM 4	3	3	0		S 102 Temporal Vapor Sample (3) High Priority Completed AS 18SEP96 AF 19SEP96	25SEP96	27SEP96
VSAS 4	3	3	0		S 102 Temporal Vapor Sample (3) High Priority	14NOV96	18NOV96
VSAN 4	3	3	0		S 102 Temporal Vapor Sample (3) High Priority	24FEB97	26FEB97
J 4	2	2	0		S 103 Vapor Sample (4) Completed AS 12JUN96 AF 12JUN96	14JUN96	17JUN96
VS29 4	20	20	0		S 103 Push Samples 2 Segments 6 RGS Tertiary Waste Type 1A	9DEC97	15JAN98
VS8H 4	2	2	0		S 104 Vapor Sample (4)	14JUL98	15JUL98
VS70 4	3	3	0		S 106 Vapor Sample (3) Completed AS 06DEC96 AF 07DEC96	13DEC96	16DEC96
VS60 4	24	24	0		S 106 Rotary Samples 2 Segments 9	4NOV98	9DEC98
VS71 4	2	2	0		S 106 Vapor Sample (4) Completed AS 13JUN96 AF 13JUN96	18JUN96	19JUN96
PS27 4	20	20	0		S 106 Push Samples 2 Segments 10 High Priority RGS Primary Waste Type 2A	25NOV96	2JUN97
PS13 4	21	21	0		S 107 Push Sample 3 Segments 0 High Priority S 107 Sludge/saltcake 1000 ml scaling Completed AS 14NOV96 AF 30SEP96	31AUG96*	28SEP96
VS20 4	2	2	0		S 107 Vapor Sample (4) Completed AS 18JUN96 AF 18JUN96	20JUN96	21JUN96
VS73 4	3	3	0		S 108 Vapor Sample (3) Completed AS 05DEC96 AF 06DEC96	8DEC96	12DEC96
AS63 4	24	24	0		S 108 Rotary Samples 2 Segments 9	25SEP98	6OCT98

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ACTIVITY ID	ORIG CUR	REM CUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
RS64 4	24	24	0	S 109 Rotary Samples 2 Segments 10 Off Ramp Completed AS 19JUN96 AF 03JUL96	19JUN96	4JUN96
VST4 4	2	2	0	S 109 Vapor Sample (4) Completed AS 04JUN96 AF 04JUN96	03JUN96*	4JUN96
GS12 4	3	3	0	S 110 Grab Sample Compatibility Suite Completed AS 05APR95 AF 07APR95	28MAR95*	28MAR95
VST5 4	3	3	0	S 110 Vapor Sample (3) Completed AS 04DEC95 AF 05DEC95	4DEC95*	6DEC95
RS25 4	24	24	0	S 110 Rot Samp 2 Seg 8 High Priority Detained Completed AS 26MAR96 AF 11APR96	23FEB96	27MAR96
GS26 4	3	3	0	S 110 Grab Sample Completed AS 05APR96 AF 15APR96	4APR96	8APR96
RS91 4	24	24	0	S 110 Rotary Samples 2 Segments 8	30JUL97	25SEP97
VST7 4	3	3	0	S 111 Vapor Sample (3) Completed AS 15MAR95 AF 21MAR95	28MAR96	30MAR96
GS93 4	3	3	0	S 111 Grab Sample (Detained 0) Completed AS 23JUN95 AF 23JUN95	16JUN96	20JUN96
RS44 4	24	24	0	S 111 Rotary Samples 2 Segments 11 Off Ramp Completed AS 10MAR96 AF 18JUN96	28MAR96	30APR96
VST8 4	3	3	0	S 112 Vapor Sample (3) Completed AS 10JUL95 AF 11JUL95	6JUN96*	8JUN95
GS93 4	3	3	0	S 112 Grab Sample (Detained 0) Completed AS 26JUN95 AF 28JUN95	23JUN96	27JUN95
PS36 4	20	20	0	S 112 Push Samples 2 Segments 10 RGS Secondary Waste Type 2A	13OCT97	7NOV97
GS67 4	3	3	0	S 151 DIVERSION BOX Grab Sample Suite Completed AS 08NOV95 AF 10NOV95	6NOV95	8NOV95
VST9 4	3	3	0	SK 101 Vapor Sample (3) Completed AS 20JUL95 AF 21JUL95	20JUN96	22JUN95
RS45 4	24	24	0	SK 101 Rotary Samples 2 Seg 10 High Priority Requires SAU 35 Rev 1 Approved	12FEB97	18MAR97
VST0 4	3	3	0	SK 102 Vapor Sample (3) Completed AS 18JUL95 AF 19JUL95	23JUN96	25JUN95
GS94 4	3	3	0	SK 102 Grab Sample (Detained 0) Completed AS 20JUN95 AF 06JUL95	30JUN96	6JUL96
GS32 4	3	3	0	SK 102 Grab Sample Compatibility Sautership (SK)	13JUL97	3JUL97
RS33 4	24	24	0	SK 102 Rotary Samples 2 Segments 11	30SEP97	31OCT97
VST8 4	3	3	0	SK 103 Vapor Sample (3) Completed AS 22MAR95 AF 23MAR95	31MAR95	4APR95

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FINEST HOUR

SAMPLING SCHEDULE Rev 4.9

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AS OF 25 November 1996

START DATE 10CT93 FIN DATE 3MAR93

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ACTIVITY ID	ORIG	RCM	DUR	DUR	#	ACTIVITY DESCRIPTION	SCHEDULED START	SCHEDULED FINISH
GS95 4	3	3	0			SX 103 Grab Sample (Obtained 0) Completed AS 30JUN95 AF 07JUL95	11JUL95	13JUL95
GS97 4	3	3	0			SX 103 Grab Sample Compatibility Saueressig (SW) 24JAN97*	20JAN97	20JAN97
RS04 4	24	24	0			SX 103 Rotary Samples 2 Seg 11 High Priority	7APR97	04MAY97
VS01 4	3	3	0			SX 104 Vapor Sample (1) Completed AS 24JUL95 AF 25JUL95	28JUN95	30JUN95
GS95 4	3	3	0			SX 104 Grab Sample Compatib. Subeyl(Obtained 0) Completed AS 20DEC95 A F 23JAN96	29NOV95	10DEC95
GS94 4	3	3	0			SX 104 Grab Sample Compatibility Saueressig (SW) 16DEC96*	18DEC96	18DEC96
RS11 4	24	24	0			SX 104 Rotary Samples 2 Segments 13 Requires RGS Waste Type 3B	30MAY97	2JUL97
VS02 4	3	3	0			SX 105 Vapor Sample (31) Completed AS 25JUL95 AF 26JUL95	7JUL95	11JUL95
GS96 4	3	3	0			SX 105 Grab Sample (Obtained 0) Completed AS 11JUL95 AF 12JUL95	18JUL95	20JUL95
GS96 4	3	3	0			SX 105 Grab Sample Compatibility Saueressig (SW) 14JUN97	04JUN97	04JUN97
RS02 4	24	24	0			SX 105 Rotary Samples 2 Segments 14	20MAY98	23JUN98
F 4	3	3	0			SX 106 Vapor Sample (3): Completed AS 23MAR95 AF 24MAR95	5APR95	7APR95
RS20 4	20	20	0			SX 106 Push Samples 2 Segments 11 RGS Secondary Waste Type 1A	15AUG97	12SEP97
VS00 4	2	2	0			SX 107 Vapor Sample (4) (Rotary)	5MAY97	6MAY97
RS10 4	24	24	0			SX 107 Rotary Samples 2 Segments 3	22JAN98	25FEB98
AS00 4	0	0	0			SX 108 Auger Sample 3 Segments 1 (Obtained 2) Completed AS 14SEP95 AC 27SEP95	28AUG95	05SEP95
VS01 4	2	2	0			SX 108 Vapor Sample (4) (Rotary)	18FEB98	19FEB98
RS06 4	24	24	0			SX 108 Rotary Samples 2 Segments 2	31MAR99	3MAY99
VS02 4	3	3	0			SX 109 Vapor Sample (3) Completed AS 26JUL95 AC 01AUG95	12JUL95	14JUL95
RS12 4	24	24	0			SX 109 Rotary Sample 2 Segment 5	19NOV97*	03JAN98
VS03 4	2	2	0			SX 110 Vapor Sample (4) (Rotary)	12NOV97	13NOV97
RS12 4	24	24	0			SX 110 Rotary Samples 2 Segments 11	04MAY98	12MAY98
VS04 4	2	2	0			SX 111 Vapor Sample (4) (Rotary)	09MAY98	09MAY98
RS14 4	24	24	0			SX 111 Rotary Samples 2 Segments 3	24JUN98	29JUL98
VS05 4	2	2	0			SX 112 Vapor Sample (4) (Rotary)	12NOV98	13NOV98

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AS OF 05 November 1996

START DATE 10CT93 FIN DATE 31MAR93

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	SCHEDULED START FINISH
RS15 4	24	24	0	SA 112 Rotary Samples 2 Segments J	6AUG90 9SEP90
AS22 4	5	5	0	SA 113 Auger Sample 2 Segments J Completed AS 05MAY95 AF 10MAY95	10MAY95 10MAY95
YS8H 4	2	2	0	SY 113 Vapor Sample (4)	22JUL90 22JUL90
YS96 4	2	2	0	SY 114 Vapor Sample (4) (Rotary)	26FEB90 27FEB90
RS16 4	24	24	0	SA 114 Rotary Samples 2 Segments J	10CT90 31OCT90
AS23 4	5	5	0	SA 115 Auger Sample 2 Segments J (Detained 0) Completed AS 16MAY95 AF 18MAY95	17MAY95 23MAY95
YSBP 4	2	2	0	SA 115 Vapor Sample (4)	28JUL90 29JUL90
AS39 4	5	5	0	SA 115 Auger Sample 2 Segments J Off Ramp	26SEP90* 20OCT90
YS2K 4	2	2	0	SY 101 Vapor Sample (4)	23APR99 26APR99
GS8B 4	3	3	0	SY 102 Grab Sample Compatibility Study Completed AS 19OCT95 AF 20OCT95	23OCT95 25OCT95
GS75 4	3	3	0	SY 102 Grab Sample Compatibility Study	6NOV95 8NOV95
GS8A 4	3	3	0	SY 102 Grab Sample (90 % Compatibility) Le	29APR97 1MAY97
GS82 4	3	3	0	SY 102 Grab Sample (90 % Compatibility) Le	17JUL97 21JUL97
GSX1 4	3	3	0	SY 102 Grab Sample (90 % Compatibility) Le	3SEP97 5SEP97
GSFA 4	3	3	0	SY 102 Grab Sample (90 % Compatibility) Le	10CT97* 30CT97
GSX2 4	3	3	0	SY 102 Grab Sample (99 % Compatibility) Le	5FEB98 9FEB98
PS55 4	20	20	0	SY 102 Push Sample 2 Segments B SY 102 Pretreatment sludge only 150 g	16JUN98 15JUL98
GS6B 4	3	3	0	SY 102 Grab Sample (99 % Compatibility) Le	23JUN98 25JUN98
GSX4 4	3	3	0	SY 102 Grab Sample (99 % Compatibility) Le	4NOV98 6NOV98
YS2L 4	2	2	0	SY 102 Vapor Sample (4)	30APR99 3MAY99
PS62 4	20	20	0	SY 103 Push Samples 1 Segments 15 Completed AS 31AUG94 AF 30CT94	15SEP94 12OCT94
YS2H 4	2	2	0	SY 103 Vapor Sample (4)	7MAY99 10MAY99
YS17 4	2	2	0	T 101 Vapor Sample (4) (Rotary)	19NOV97 20NOV97
RS17 4	24	24	0	T 101 Rotary Samples 2 Segments 2	19FEB98 29MAR98
YS8D 4	2	2	0	T 102 Vapor Sample (4)	4AUG98 5AUG98
GS23 4	3	3	0	T 103 Grab Sample (Safety Screening) Completed AS 30APR96 AF 02MAY96	10MAY96 16MAY96
AS18 4	5	5	0	T 103 Auger Sample 2 Segments J	1JUN98* 5JUN98

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LOCKHEED MARTIN HAWFORD CORPORATION

FINEST HOUR

SAMPLING SCHEDULE Rev 4 9

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	SCHEDULED START FINISH
V56A 4	2	2	0	T 103 Vapor Sample (1)	11AUG98 12AUG98
V56L 4	3	3	0	T 104 Vapor Sample (3) Completed AS 08FEB96 AF 07FEB96	28JAN96 31JAN96
PS15 4	20	20	0	T 105 Push Sample 2 Segments 2	18MAY98 15JUN98
V56S 4	2	2	0	T 105 Vapor Sample (4)	18AUG98 19AUG98
AS24 4	5	5	0	T 106 Auger Sample 2 Segments 1 Completed AS 25JUL95 AF 11AUG95	11JUL95 4AUG95
L000 4	20	20	0	T 106 Testing Light Duty Utility Arm Completed AS 10SEP96 AF 02OCT96	05SEP96 02OCT96
V56T 4	2	2	0	T 106 Vapor Sample (4)	25AUG98 26AUG98
V563 4	3	3	0	T 107 Vapor Sample (3) Completed AS 17JAN95 AF 18JAN95	12JAN95 16JAN95
AS19 4	8	8	0	T 108 Auger Sample 3 Segments 1 Completed AS 14JUL95 AF 25JUL95	17JUL95 26JUL95
V56U 4	2	2	0	T 108 Vapor Sample (4)	1SEP98 2SEP98
AS34 4	5	5	0	T 109 Auger Sample 2 Segments 1 Completed AS 14AUG95 AF 22AUG95	14AUG95 18AUG95
V 4	2	2	0	T 109 Vapor Sample (4)	05SEP98 10SEP98
V511 4	3	3	0	T 110 Vapor Sample (3) Completed AS 30AUG95 AF 31AUG95	14AUG95 16AUG95
AS21 4	20	24	0	T 110 Rotary Sample 2 Segments 8	18OCT96 20NOV96
V509 4	3	3	0	T 111 Vapor Sample (3) Completed AS 19JAN95 AF 20JAN95	17JAN95 15JAN95
PS69 4	20	20	0	T 111 Push Sample 2 Segments 7	6APR98 19MAY98
AS22 4	20	24	0	T 112 Rotary Sample 2 Segments 2	23OCT96 25NOV96
V584 4	2	2	0	T 112 Vapor Sample (4)	15APR97 16APR97
AS18 4	12	12	0	T 201 Rotary Samples 1 Segments 9	28JAN97 12FEB97
V578 4	2	2	0	T 201 Vapor Sample (4)	12JAN97 13JAN97
AS19 4	12	12	0	T 202 Rotary Samples 1 Segments 6	10JAN97 21JAN97
V579 4	2	2	0	T 202 Vapor Sample (4)	15MAY97 16MAY97
AS81 4	12	12	0	T 203 Rotary Samples 1 Segments 10	16DEC96 9JAN97
V57L 4	2	2	0	T 203 Vapor Sample (4)	6MAY97 7MAY97
AS82 4	12	12	0	T 204 Rotary Samples 1 Segments 10	26NOV96 13DEC96
V592 4	2	2	0	T 204 Vapor Sample (4)	25APR97 28APR97

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ACTIVITY ID	ORIG DUR	REM DUR	#	ACTIVITY DESCRIPTION
VSP3 4	2	2	0	TX 101 Vapor Sample (4) (Rotary)
RS63 4	24	24	0	TX 101 Rotary Samples 2 Segments 3
VSP6 4	2	2	0	TX 102 Vapor Sample (4) (Rotary)
RS66 4	24	24	0	TX 102 Rotary Samples 2 Segments 5
VSP4 4	2	2	0	TX 103 Vapor Sample (4) (Rotary)
RS64 4	24	24	0	TX 103 Rotary Samples 2 Segments 3
VSP7 4	2	2	0	TX 104 Vapor Sample (4) (Rotary)
RS67 4	24	24	0	TX 104 Rotary Samples 2 Segments 2
VSD0 4	3	3	0	TX 105 Vapor Sample (3) Completed AS 19DEC94 AF 21DEC94
RS32 4	24	24	0	TX 105 Rotary Samples 2 Segments 12
VSP8 4	2	2	0	TX 106 Vapor Sample (4) (Rotary)
RS68 4	24	24	0	TX 106 Rotary Samples 2 Segments 7
AS36 4	5	5	0	TX 107 Vapor Sample 2 Segments 1 Completed AS 06JAN96 AF 17JAN96
VSPX 4	2	2	0	TX 107 Vapor Sample (4)
VSP9 4	2	2	0	TX 108 Vapor Sample (4) (Rotary)
RS69 4	24	24	0	TX 108 Rotary Samples 2 Segments 3
VSP6 4	2	2	0	TX 109 Vapor Sample (4) (Rotary)
RS70 4	24	24	0	TX 109 Rotary Samples 2 Segments 8
VSP1 4	2	2	0	TX 110 Vapor Sample (4) (Rotary)
RS71 4	24	24	0	TX 110 Rotary Samples 2 Segments 9
VSP3 4	3	3	0	TX 111 Vapor Sample (3) Completed AS 11DEC95 AF 12DEC95
RS73 4	24	24	0	TX 111 Rotary Samples 2 Segments 8
VSP4 4	2	2	0	TX 112 Vapor Sample (4) (Rotary)
RS74 4	24	24	0	TX 112 Rotary Samples 2 Segments 12
VSP5 4	2	2	0	TX 113 Vapor Sample (4) (Rotary)
RS75 4	24	24	0	TX 113 Rotary Samples 2 Segments 11
VSP6 4	2	2	0	TX 114 Vapor Sample (4) (Rotary)
RS76 4	24	24	0	TX 114 Rotary Samples 2 Segments 3

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14JAN96	15JAN96
18MAR98	20APR98
15OCT97	16OCT97
4FEB98	10MAR98
28JAN98	29JAN98
3JUN98	8JUL98
7JAN98	8JAN98
3SEP98	7OCT98
6DEC94	8DEC94
1AUG97	4SEP97
1OCT97*	2OCT97
14NOV97	19DEC97
3JAN96	9JAN96
16SEP98	17SEP98
26NOV97	1DEC97
14OCT98	16NOV98
5DEC97	8DEC97
9JUL98	11AUG98
22OCT97	23OCT97
5JUN98	10JUL98
2OCT95*	4OCT95
3JUN97	7JUL97
12DEC97	15DEC97
20NOV98	6JAN99
11FEB98	12FEB98
27APR98	29MAY98
8OCT97	9OCT97
26MAR98	28APR98

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LOCKHEED MARTIN HANFORD CORPORATION

FINEST HOUR

SAMPLING SCHEDULE Rev 4.9

 REPORT DATE 30NOV96 RUN NO 2160
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ACTIVITY ID	ORIG BUR	REN BUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
VSF7 4	3	2	0	TX 115 Vapor Sample (4) (Rotary)	AFEB96	5FEB98
RS77 4	24	24	0	TX 115 Rotary Samples 2 Segments 11	10FEB99	16MAR99
VSF8 4	2	2	0	TX 116 Vapor Sample (4) (Rotary)	21JAN98	22JAN98
RS78 4	24	24	0	TX 116 Rotary Samples 2 Segments 12	27JUL98	27AUG98
VSF9 4	2	2	0	TX 117 Vapor Sample (4) (Rotary)	29OCT97	03OCT97
RS79 4	24	24	0	TX 117 Rotary Samples 2 Segments 10	29APR98	2JUN98
VS6R 4	3	3	0	TX 118 Vapor Sample (3) Completed AS 15DEC94 AF 16DEC94	93EC94	13DEC94
RS24 4	24	24	0	TX 118 Rotary Samples 2 Segment 7 High Priority	15APR97	16MAY97
US89 4	3	3	0	TX 244 Grab Sample Compatibility Subey Completed AS 16NOV96 AF 16NOV96	20NOV96	20NOV96
GS83 4	3	3	0	TX 244 Grab Sample Compatibility Subey Completed AS 19OCT96 AF 19OCT96	22OCT96	24OCT96
VS06 4	3	3	0	TX 101 Vapor Sample (3) Completed AS 05APR96 AF 06APR96	17APR96	19APR96
RS72 4	24	24	0	TX 101 Rotary Samples 2 Segments 3	10DEC98	22JAN99
2 4	3	3	0	TX 102 Vapor Sample (3) (Rotary) Completed AS 11APR96 AF 12 APR96	5APR96	9APR96
RS72 4	24	24	0	TX 102 Rotary Samples 2 Segments 2 High Priority	8JAN97	10FEB97
VS0C 4	3	3	0	TX 103 Vapor Sample (3) Completed AS 10APR96 AF 11APR96	20APR96	24APR96
VS17 4	5	5	0	TX 103 Homogeneity Vapor Samples 6 (4) High Pri	14OCT96	18OCT96
RS21 4	24	24	0	TX 103 Rotary Samples 2 Segments 4	0FEB99	12MAR99
AS17 4	5	5	0	TX 104 Auger Sample 2 Segments 1 Completed AS 21FEB96 AF 20FEB96	25JAN96	31JAN96
VS0D 4	3	3	0	TX 104 Vapor Sample (3) Completed AS 22APR96 AF 27APR96	25APR96	27APR96
VS13 4	2	2	0	TX 105 Vapor Sample (4) (Rotary)	19DEC97	23DEC97
RS94 4	24	24	0	TX 105 Rotary Samples 2 Segments 5	7JAN99	9FEB99
AS25 4	5	5	0	TX 106 Auger Sample 2 Segments 1 Completed AS 27FEB96 AF 03MAR96	7FEB96	7FEB96
VS8Y 4	2	2	0	TX 106 Vapor Sample (4)	10CT98*	20CT98
ES44 4	3	3	0	U 101 Grab Sample (Safety Screening) Completed AS 28MAR96 AF 30MAR96	20JUN96	24JUN96
VS8Z 4	2	2	0	U 101 Vapor Sample (4)	8OCT98	9OCT98

REPORT DATE 5/20/96 RUN NO 2163

AS OF 05 November 1996

START DATE 10CT93 FIN DATE 31MAR96

LS #6

4 x Sorted Farm Tank ES Schedule Rev 4.9

DATA DATE 16SEP94 PAGE NO 20

ACTIVITY ID	ORIG DNR	REP DNR	%	ACTIVITY DESCRIPTION	SCHEDULED START	SCHEDULED FINISH
GS21.4	1	3	0	U 102 Grab Sample Completed AS 01MAR96 AF 07MAR96	01MAR96	07MAR96
RS03.4	24	24	0	U 102 Rotary Samples 7 Segments 7 Off Ramp Completed AS 11APR96 AF 01MAY96	25MAR96	25APR96
VS03.4	2	7	0	U 102 Vapor Sample (4)	15JAN97	16JAN97
VS10.4	1	3	0	U 103 Vapor Sample (3) Completed AS 13FEB96 AF 15FEB96	16FEB96	16FEB96
GS39.4	3	3	0	U 103 Grab Sample Completed AS 23MAY96 AF 24MAY96	11MAY96	16MAY96
RS09.4	26	20	0	U 103 Push Samples 2 Segments 9 High Priority R&S Primary Waste Type 1A	20CT96	10NOV96
VS05.4	2	2	0	U 104 Vapor Sample (4) Completed AS 16JUL96 AF 16JUL96	17JUL96	18JUL96
RS05.4	24	24	0	U 104 Rotary Samples 2 Segments 2	15MAR96	15APR96
VS14.4	3	3	0	U 105 Vapor Sample (3) Completed AS 23FEB96 AF 24FEB96	16FEB96	21FEB96
GS40.4	3	3	0	U 105 Grab Sample Sutey/High Priority Completed AS 12JUN96 AF 16JUN96	2JUN96	6JUN96
RS39.4	25	25	0	U 105 Rotary Sample 3 Segment 8 High Priority Completed AS 22JAN96 AF 18MAR96	7FEB96	13MAR96
ES09.4	3	0	100	U 106 Process Grab Sample	12SEP94A	10SEP94A
VS09.4	3	3	0	U 106 Vapor Sample (3) Completed AS 08MAR96 AF 08MAR96	13MAR96	19MAR96
RS06.4	24	24	0	U 106 Rotary Sample 2 Segments 6 Off Ramp Completed AS 01MAR96 AF 01MAY96	26APR96	30MAY96
VS04.4	3	3	0	U 107 Vapor Sample (3) Completed AS 16FEB96 AF 17FEB96	13FEB96	16FEB96
ES08.4	3	3	0	U 107 Grab Sample Computab Sutey/High Priority Completed AS 10APR96 AF 13APR96	26APR96	28APR96
RS20.4	40	40	0	U 107 Rot Samps 3 Segs 8 High Pri Completed AS 16JAN96 AF 28MAR96	18DEC96	21FEB96
RS26.4	24	24	0	U 107 Rotary Samples 2 Segs 8	11JUN99	15JUL99
GS42.4	3	3	0	U 108 Grab Sample Sutey/High Priority Completed AS 30MAY96 AF 31MAY96	16MAY96	23MAY96
VS04.4	3	3	0	U 108 Vapor Sample (3) Completed AS 29AUG96 AF 29AUG96	31JUL96	2AUG96
RS27.4	44	44	0	U 108 Rotary Samples 3 Segments 9 High Priority Completed AS 29MAR96 AF 06MAY96	29FEB96	30APR96

HNF-SD-WM-TI-608 Rev 4

LOCKHEED MARTIN HAWFORD CORPORATION

FINEST HOUR

SAMPLING SCHEDULE Rev 4 9

REPORT DATE 5/30/96 RUN NO 2160
15 46

AS OF 05 November 1996

START DATE 10CT93 FIN DATE 30MAR93

orted Farm Tank CS Schedule Rev 4 9

DATA DATE 15SEP94 PAGE NO 21

ACTIVITY ID	ORIG CUR	REN DUR	%	ACTIVITY DESCRIPTION	SCHEDULED START	FINISH
GS43 4	4	4	0	U 109 Grab Sample Satey/High Priority Completed AS 01JUN95 AF 05JUN95	25MAY95	30MAY95
VS71 4	3	3	0	U 109 Vapor Sample (3) Completed AS 05AUG95 AF 16AUG95	7AUG95	9AUG95
RS10 4	22	22	0	U 109 Rotary Sample 2 Segments 9 High Priority Completed AS 15DEC95 AF 19JAN96	14DEC95	06FEB96
VS44 4	2	2	0	U 110 Vapor Sample (4)	15OCT98	16OCT98
VS66 4	3	3	0	U 111 Vapor Sample (3) Completed AS 27FEB95 AF 28FEB95	09MAR95	10MAR95
PS37 4	20	20	0	U 111 Push Samples 2 Segments 10 RGS Tertiary Waste Type 1A	12FEB98	12MAR98
VS66 4	2	2	0	U 112 Vapor Sample (4) (Rotary) Completed AS 09JUL96 AF 09JUL96	3JUL96	8JUL96
VS48 4	5	5	0	L 112 Homogeneity Vapor Samples 6 (4) High Pri	21OCT96	25OCT96
RS86 4	24	24	0	U 112 Rotary Samples 2 Segments 1	30APR99	3JUN99
PS16 4	20	20	0	U 201 Push Sample 3 Segments 2 (Rotary Truck) Completed AS 08MAR95 AF 31MAR95	09MAR95	31MAR95
4	2	2	0	L 201 Vapor Sample (4)	22OCT98	23OCT98
PS17 4	18	18	0	U 202 Push Sample 2 Segments 2 (Rotary Truck) Completed AS 21MAR95 AF 24MAR95	2APR95	26APR95
VS00 4	2	2	0	L 202 Vapor Sample (4)	29OCT98	30OCT98
PS18 4	17	17	0	U 203 Push Sample 2 Segments 2 (Rotary Truck) Completed AS 27MAR95 AF 03APR95	27APR95	19MAR95
VS15 4	3	3	0	U 203 Vapor Sample (3) Completed AS 05AUG95 AF 09AUG95	19JUL95	21JUL95
PS19 4	9	9	0	U 204 Push Sample 2 Segments 1 (Rotary Truck) Completed AS 03APR95 AF 06APR95	22MAY95	1JUN95
VS16 4	3	3	0	U 204 Vapor Sample (3) Completed AS 07AUG95 AF 08AUG95	24JUL95	26JUL95

Attachment 3 to 9655543

ANALYTICAL SERVICES SAMPLE PROJECTION SURVEY

Consisting of 1 page

ANALYTICAL SERVICES SAMPLE PROJECTION SURVEY

ORGANIZATION: Characterization Project
 POINT-OF-CONTACT: T. J. Kelley, 373-2039

SAMPLE MANAGEMENT					
ACTIVITY	PROGRAM	FACILITY	FTE	ADS #	DESCRIPTION
Program management	TWRS	TWRS	0.05	1130	Interface with 222S and PNNL on sampling schedule
LABORATORY SCALE TECHNOLOGY					
ACTIVITY	PROGRAM	FACILITY	ADS #	DESCRIPTION	
None	TWRS	TWRS	1130		
DATA MANAGEMENT					
DATA SYSTEM NAME	DATA SOURCE	SITE DATA LINKS	ADS #	DESCRIPTION	
Tank Characterization Data Base (TCU)	222-S, PNNL	LABCORE, TWINS, WWW	1130	PNNL developed database, required by the TPA, to manage all tank characterization data.	

APPENDIX III

SOLID WASTE PROGRAM INPUTS

C-1

Author: Timothy M (Tim) Grieser at "SAMPO@DO3D"
Date: 11/11/96 12:15 PM
Priority: Normal
TO: Steven M Joyce at "WMC121"
CC: Ken L Bladsk at "WMC110"
Subject: SAMPLE PROJECTIONS

----- Message Contents -----

Steve,

After talking with the Solid Waste people who would send samples to the lab, I was told that there was "no change" to the sample forecast especially since WRAP is not up and running yet. If you have any questions, please contact me at 376-4344.

Tim

APPENDIX IV

LIQUID EFFLUENTS PROGRAM INPUTS

D-1-8

HNF-SD WM-TI-608 Rev 4

Telefax Coversheet

200 Area

Liquid Effluent Facilities

To Steve Joyce

Telefax Number 372-0659

Number of Pages 6 (Including Coversheet)

From Phil Olson

Comments and/or Message

Attached Sample Projections from
200 Area Liquid Effluent Facilities.
Changes from the last 6 month projection
are noted. If questions call me
at 372-2872.

Analytical Sample Preferences
 PY 15937 to PY 2003

Analysis: Liquid Effluent Analysis 200 Area Type:

 
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HNF-SD-WM-TI-606 Rev 4

BEST AVAILABLE COPY

Analytical Sample Description

PY 1987 to PY 2001

Program: Solid Waste Treatment, 200 Amp LEP

Sample ID	Sample Name	Sample Type	Sample Location	Sample Date	Sample Time	Sample Duration	Sample Volume	Sample Weight	Sample Density	Sample Temperature	Sample Humidity	Sample Pressure	Sample Wind Speed	Sample Wind Direction	Sample Rainfall	Sample Cloud Cover	Sample Visibility	Sample Air Quality	Sample Soil Quality	Sample Water Quality	Sample Plant Life	Sample Animal Life	Sample Human Activity	Sample Other Notes
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changes as noted
11/16/91

ANALYTICAL SERVICES SAMPLE PROJECTION SURVEY

ORGANIZATION: ZOO Area Lipid Effluent Facilities
 POINT-OF-CONTACT: Phil Olson 372-2822

4/16/98
 Jm

11/15/98 18:10 23509 372 0650
 11/16/98 15:00 23508 372 2089
 11/11/98 13:24 23508 373 4517

GENERAL INVESTIGATIVE REPORT

NATIONAL PROJ.
 200 LEP FACILITY
 NO 291

SAMPLE MANAGEMENT

ACTIVITY	PROGRAM	FACILITY	ADS #	DESCRIPTION
Sample Coordination	ZOO LEP	ZOO LEP	2300-0	Coordinate sampling with LEP operations, sample mobile lab.
Grandfather Sample Coordination	ZOO LEP	SDNA	2300-0	SDNA coordinates permit completion on ground water monitoring sampling for metals on quarterly basis.

LEMIS

LABORATORY SCALE TECHNOLOGY

ACTIVITY	PROGRAM	FACILITY	ADS #	DESCRIPTION
Analytical Method development	ZOO LEP	WSCF	2300-0	Develop, on as needed basis, analytical methods to meet LEP operations needs.
Lipid Pilot Scale testing	ZOO LEP	Engineering Testing Lab	2300-0	Perform engineering testing as needed to support LEP operations and upgrades.

LEMIS

DATA MANAGEMENT

DATA SYSTEM NAME	DATA SOURCE	SITE DATA LINKS	ADS #	DESCRIPTION
Example: LABCORE LIMS	Example: 222-S Lab WSCF	Example: TCO, ABCASH, LEMIS, ERS	Example: 7100	Example: LABCORE uses Multi LIMS, a commercial-off-the-shelf laboratory information management system.
LEMIS	WSCF	LABCORE LIMS	2300-0	LEMIS uses Oracle data base a commercially available product.

FILE COPY

Author: Curtis R Stroup at WMC121
 Date: 11/15/96 6:22 AM
 Priority: Normal
 Subject: SAMPLE PROJECTIONS FOR 300 AREA TSDP

----- Message Contents -----

Curtis,

I was instructed to send you an update to our sample projections for 310/340 facilities. I saw the Nov. 6 date but I didn't get the request until yesterday. They really haven't changed much from what has been submitted in the past, except that we have cut most of our process control VOA, semi-VOA, and TOC sampling. Also I have only attached a file for one year (1997), because we don't project any outyear changes in our sample loading. The file is in EXCEL 5.0. If you have any questions, please give me a call.

Craig Lott
 373-0634

APPENDIX V

SPENT NUCLEAR FUELS PROGRAM INPUTS

E-1-4

Author: Ronald B (Ron) Baker at "WEC316"
 Date: 11/15/96 2:39 PM
 Priority: Normal
 Receipt Requested
 TO: Steven H Joyce at "WEC121"
 CC: Ronald P Omborg at "WEC89"
 CC: Sheryl K (Kim) Rodriguez at "WEC79"
 CC: Eileen L Dean
 CC: Ronald B (Ron) Baker
 CC: Jamie Perez-Carter at "WEC316"
 Subject: RESPONSE TO REQUEST FOR ANALYTICAL SERVICES PROJECTIONS UPDATE

----- Message Contents -----

Steve

Per our conversation the attached three files include our response to the request from Analytical Services for the November 1996 projections update (A.G. King Oct 14, 1996/RPN9651758). I'll provide a brief memo shortly documenting these projections for our group, Ron Omborg's Spent Nuclear Fuel Evaluations group.

Please give me a call if you see any problems or have questions.

Thanks
 Ron Baker
 376-5109

REQUESTED INPUT FROM SPENT NUCLEAR FUEL EVALUATIONS GROUP FOR THE ANALYTICAL SERVICES PROJECTS UPDATE FOR NOVEMBER 1996

Steve Joyce

As per the request of Analytical Services (October 14, 1996), the attached two spreadsheet files provide our estimates of sample analysis needs for the Spent Nuclear Fuels Evaluation groups' characterization work supporting the Spent Nuclear Fuel (SNF) project for FY-97 and FY-98. Current planning has SNF characterization tasks complete at the end of FY-98. Note that, as you requested, these are the analyses needs independent of which laboratory is used (i.e., 222S, 325, mobile, 327). Included here for the sludge initiatives are the initial sample recovery from the primary sludge sampling containers and subsequent subsampling (see added category related to these on the spreadsheets). Also included was the need for rheology measurements (see added category for rheology analyses on spreadsheet). Included in the FY-97 spreadsheet are the on-going analyses of K East canister sludge samples and the liquid samples from KW closed canisters.

We are currently going through re-baselining efforts on the SNF project. Therefore the funding source we have provided is our organization code, along with the current projected funding level.

For the other requested survey sheet "Analytical Services Sample Projection Survey" we have no input. This sheet addresses activities other than the actual laboratory analyses of samples, we have no significant activities in these areas at this time.

Please give me if there are questions.

Ron Baker
376-5109

APPENDIX VI

TRANSITION PROJECTS PROGRAM INPUTS

F-1-6

Author: Alan A Gussner at "WNC139"
 Date: 11/4/96 2:30 PM
 Priority: Normal
 TO: A G King at "WNC111"
 TO: Daniel S (Dad) Cartmell at "KAMP000048"
 TO: Cary M Seidel at "WNC121"
 TO: Steven M Joyce at "WNC111"
 TO: Curtis E Stoup at "WNC121"
 Subject: Sample Projections

----- Message Contents -----

The attached files have been modified to add some missing data on funding source and level.

These forecasts are based on the current budget baseline and could change as funding levels and priorities change.

[illegible]

Analytical Service Sample Projections

FY 92 FY 98 (For each year, no minimum was indicated as the limit)

Organization Advanced Fuel Facilities Transportation (2021)

Port of Callisto ■ C. C. Callisto

Location of Analytical Service: PHL 326

¹ Available online: www.elsevier.com/locate/jmb

Analytical Needs

[illegible]

Next

These complex relations are summarized in Figure 1.

Please complete one form for each. Send your

Published by Cambridge University Press

7. **Plan Interview**

- ↳ C1 A&P's Interpretation C79 A&P's 404p 2016

7. 1. 2014. g. pirms tam, kā arī 2014. g. 1. 1. - 2014. g. 31. 12.

- [illegible]

- † β ကို β_{max} နှင့် β_{min} အဖြစ် ခွဲခြားထားပြီး β_{max} ကို $\beta_{\text{max}} = \beta_{\text{max}}^{\text{max}}$ နှင့် β_{min} ကို $\beta_{\text{min}} = \beta_{\text{min}}^{\text{min}}$ ဟု ခေါ်ဆိုသည်။

1. The first step is to identify the problem or question that needs to be answered.

- 2018 年 4 月 1 日

1

 

APPENDIX VII

SITE MONITORING PROGRAM INPUTS

G-1-10

To:
Tom Ibaen
from: Curtis Stroup.

Sent in 2 parts:

6 pages first part
4 pages 2nd part

10 Total.

Table 1. Ambient and Effluent Air Sample Analysis Criteria for WSCP

AMBIENT & EFFLUENT AIR SAMPLE ANALYSIS CRITERIA				
Nominal Volume of Air Sampled	Type of Analysis	MDC ^a ($\mu\text{Ci/mL}$) ^b	TT (days)	Unit Price ^c (\$)
20,000 ft ³ (0.57 E+9 mL)	Total α/β	2.0 E-15 (α) and 1.9 E-14 (β)	14	133.00
	Ag Zeolite	3.4 E-15 (^{222}Rn)	30	233.00
262,000 ft ³ (7.42 E+9 mL)	Total α/β Composite Analysis	2.0 E-15 (α) and 1.9 E-14 (β)	90	133.00
	^{85}Sr	1.9 E-14	90	266.00
	Isotopic U (^{235}U , ^{238}U , ^{234}U)	7.1 E-15	90	333.00
	Isotopic Pu (^{239}Pu , ^{240}Pu , ^{241}Pu)	2.0 E-15	90	366.00
	^{241}Am	1.9 E-15	90	333.00
	GEA ^d	1.9 E-14 (^{137}Cs)	90	166.00

MDC = Minimum Detectable Concentration

TT = Turnaround Time, starting from the receipt of all samples to be analyzed and all relevant sampling data.

a MDC's shall be as low as reasonably attainable, but shall not exceed the values specified in the table. MDC values obtained from 40 CFR 61 Appendix E Table II.

b Unless other units of measure are indicated.

c These prices contain additional fees associated with services specific to the EN and NFM programs (e.g., additional costs associated with compositing and sample storage, etc.).

d All positive GEA results shall be reported, with the exception of the short-lived ^{222}Rn and ^{220}Rn progeny.

Table 2. Groundwater Monitoring and Liquid Effluent Sample Analysis Criteria for WSCF*

GROUNDWATER MONITORING & LIQUID EFFLUENT SAMPLE ANALYSIS CRITERIA				
Sample Size	Type of Analysis	MDC* (nCi/mL)	TT (days)	Unit Price* (\$)
1.0 L	Total α/β	1.2 E-09 (α) and 4.0 E-08 (β)	45	133.00
	^3H	8.0 E-06	45	133.00
	^{90}Sr	4.0 E-08	45	226.00
	GEA*	1.2 E-07 (^{137}Cs)	45	166.00
	Isotopic U (^{235}U , ^{238}U , ^{234}U)	2.0 E-08	45	266.00
	Isotopic Pu (^{239}Pu , ^{240}Pu , ^{241}Pu)	1.2 E-09	45	279.00
	^{241}Am	1.2 E-09	45	266.00
	pH	NA	60	24.00
	NO_3^-	1.0 E-06 g/mL	60	200.00

MDC = Minimum Detectable Concentration

TT = Turnaround Time, starting from the receipt of all samples to be analyzed and all relevant sampling data.

- a. Liquid effluent samples shall be analyzed unfiltered, whereas ground water samples shall be filtered and only the filtrate analyzed. The EDP codes for the liquid effluent samples are identified in memo 88420-94-130's Attachment.
- b. MDC's shall be as low as reasonably attainable, but shall not exceed the values specified in the table. MDC values obtained from 4% of the Derived Concentration Guidelines (DCG).
- c. Unless other units of measure are indicated.
- d. These prices contain additional fees associated with services specific to the EM and NFM programs (e.g. additional costs associated with compaction and sample storage, etc.).
- e. All positive GEA results shall be reported, with the exception of the short-lived ^{222}Rn and ^{220}Rn progeny.

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WHC-EP-0835-1

Table 4. Non-Routine Environmental Samples,
Sample Analysis Criteria for WSCF^a

NONROUTINE ENVIRONMENTAL SAMPLES, SAMPLE ANALYSIS CRITERIA				
Sample Size	Type of Analysis	MDC ^c	TT (days)	Unit Price ^d (\$)
TBD	²²⁶ Ra	TBD	90	TBD
	GEA ^d	TBD	90	TBD
	Isotopic U (²³⁴ U, ²³⁵ U, ²³⁸ U)	TBD	90	TBD
	Isotopic Pu (²³⁸ Pu, ²³⁹ Pu, ²⁴⁰ Pu)	TBD	90	TBD

MDC = Minimum Detectable Concentration

TT = Turnaround Time, starting from the receipt of all samples to be analyzed and all relevant sampling data.

TBD = To Be Determined

- Occasional nonroutine air, liquid, vegetation, and sediment samples may need analysis. WSCF can not accept the following types of nonroutine samples: animals, feces, urine, or samples with an exposure rate > 1mR/h, and/or samples containing > 10 nCi of any alpha emitter.
- MDC values and units for nonroutine samples shall be dependent on sample type and commensurate with the values listed in Tables 1 through 3. MDC's shall be as low as reasonably achievable, but shall not exceed the values specified in the Tables 1 through 3.
- Cost for nonroutine samples shall be dependent on sample type and commensurate with the values listed in Tables 1 through 3.
- All positive GEA results shall be reported, with the exception of the short-lived ²²²Rn and ²²⁰Rn progeny.

Liquid Effluents
CY-1996 Sample Analyses per Year
 (Performed by WSCF)

EDP Code	Stream Code	Analysis								
		Total alpha/beta	GEA*	Sr-90	Pu-238	Pu-239,240	Am-241	Total U	Tritium	Tc-99
H103	2904-2A	12	12		12	12	12			
H117	CBC	12	12	12						
H115	CAB	12	12	12		12	12			
H116	CAR	12	12	12		12	12			
H108	ACW	12	12	12		12	12	12	12	
H110	ASC	12	12	12		12	12		12	
Sample Totals		72	72	60	12	60	60	12	24	0

* Minimum GEA analysis will be for Co-60, Zn-65, Pu-106, Sn-113, Sb-125, Cs-134, Cs-137, CoPr-144, Eu-152, Eu-154, and Eu-155. All radionuclides with positive GEA results shall be reported also.

Sum of 17
= 114

Near-Field Monitoring*
CY-1996 Sample Analyses per Year
(Performed by WSGF)

Sample Media	Area	Analysis									
		Total alpha/beta	GEA**	Sr-90	Pu Is	Am-241	U-235	Tritium	C-14	pH	Nitrate
Air	100-K	104	8	8	8	0	0				
	100-K	104	8	8	8	0	0				
	200	884	70	70	70	20	70				
	300	20	2	2	2		2				
Sample Totals		1118	88	88	88	20	80	0	0	0	0
Water	100										
	200	36	36	36	36		36	12		102	12
	300										
	400										
Sample Totals		36	36	36	36	0	36	12		102	12
Aquatic Vegetation	100		3	3	3		3				
	200										
	300										
	400										
Sample Totals		0	3	3	3		3	0		0	0
Aquatic Sediment	100										
	200		3	3	3		3				
	300										
	400										
Sample Totals		0	3	3	3		3	0		0	0
Non-Routine Samples	Air		25	25	25	25	25				
	Soil		25	25	25						
	Vegetation		25	25	25		25				
	Animal		25	25	25		25				
Sample Totals		0	100	100	100		75	0		0	0

* All routine Near-Field Monitoring samples are identified by the HNF or HNF-SD area EDP codes. Special samples are identified as Near-Field Monitoring samples on the chain-of-custody form. Specific EDP codes are not provided in this table since, no other samples share these EDP codes.

** Minimum GEA analysis results will be reported for Co-60, Zr-95, Sr-90, Y-90, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Eu-156, and any other radionuclides having positive GEA results.

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Air Emissions
Archived Samples Requiring a
Total Alpha/Beta Selective Analysis*
CY-1996 Sample Analyses per Year
 (Performed by WSCF)

Facility	SDP Codes	Stock ID Number	Analysis Frequency	Total Alpha/Beta Analyses per Year
1704-MC Lab	1243	1704-MC	Annual	1
	1244	1704-MC	Annual	1
B-Plant	8818	201-B-5	Only	1
	8820	201-B-13	Only	1
East Tank Farm	8822	204-A-13	Only	1
	8840	204-A-18	Only	1
	8861	204-A-10	Only	1
	8187	204-A-20	Only	1
	8645	204-A-21	Only	1
	8297	204-A-29	Only	1
	8272	204-A-28	Only	1
	8901	204-A-29	Only	1
	8900	204-A-30	Only	1
	8012	204-A-41	Only	1
222-B Lab	8044	204-C-7	Only	1
	8206	204-B-21	Only	1
B-Plant	8281	204-E-10	Only	1
	8289	204-E-21	Only	1
B-Plant	8015	204-E-7E	Annual	1
	8016	204-E-7W	Annual	1
West Tank Farm	W101	204-F-22	Only	1
	W102	204-F-23	Only	1
	W103	204-F-28	Only	1
	W068	204-E-10	Only	1
	W143	204-E-20	Only	1
	W117	204-T-17	Only	1
	W003	204-W-3	Only	1
Totals				33

* These record samples will initially be received with "Archive Only" stamps so that they are a threat. Effluent Monitoring will provide instructions regarding which samples to analyze or composite and analyze after each quarter or year.

2/1/97
CCA

Table 5. Matrix for Charging Sample Analysis Costs

Effluent Monitoring Samples	
Sample Category	Cost Account*
Effluent Air Samples	1R43U2
Effluent Air Samples from 1706-KE (EDP Codes Y243, Y244)	Work Order
Effluent Liquid Samples	1R43U2
Near-Field Monitoring (NFM) Samples	
Sample Category	Cost Account
Total α and β Analysis of NFM Air Samples	1R43U2
Composite Analysis of 100-K Air Samples (EDP Codes N401 - N404)	Work Order
Composite Analysis of 100-N Air Samples (EDP Codes N101 - N105)	Work Order
Composite Analysis of 200 and 300 Area Air Samples	1R43U2
Analysis of all Special Samples, Aquatic Vegetation, and Aquatic Sediment Samples	1R43U2

- * TCPNs and work order numbers will not be included in this document, but will be provided to WSCF.

Table 3. Pond Vegetation and Sediment
Sample Analysis Criteria for WSCF

POND VEGETATION AND SEDIMENT SAMPLE ANALYSIS CRITERIA				
Sample Size (dry weight) (g)	Type of Analysis	MDC ^a (pCi/g) ^b	TT (days)	Unit price ^c (\$)
500	⁶⁰ Se	10.00	90	300.00
500	GEA ^d	0.20 (¹³⁷ Cs)	90	193.00
500	Isotopic U (²³⁴ U, ²³⁵ U, ²³⁸ U)	0.04	90	366.00
500	Isotopic Pu (²³⁹ Pu, ²⁴⁰ Pu)	1.00	90	366.00

MDC = Minimum Detectable Concentration

TT = Turnaround Time, starting from the receipt of all samples to be analyzed and all relevant sampling data.

- MDC's shall be as low as reasonably attainable, but shall not exceed the values specified in the table.
- Unless other units of measure are indicated
- All positive GEA results shall be reported, with the exception of the short-lived ²²²Rn and ²²⁰Rn progeny.
- These prices contain additional fees associated with services specific to the EM and NEM programs (e.g. additional costs associated with composting and sample storage, etc.).
- Total uranium analyses will be performed until an isotopic uranium analysis is established.