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Appendix C: RCRA/CERCLA Units List

This appendix is a listing of the RCRA/CERCLA Units. It is prepared under the requirements set forth in Section XI (RCRA Facility/Remedial Investigation(s)) of this Agreement.

Conveyance systems, such as piping and NPDES Outfalls, that have or have had a potential for release of a hazardous substance, will be investigated with the associated unit.

Revision.O Appendix C for FY 1996

C.1: RCRA/CERCLA Units Sorted by PREscore	
PREscore	**RCRA/CERCLA Unit**
76.88	Burial Ground Complex, S01-S22, 643-E, 643-7E
59.62	L-Area Oil/Chemical Basin and L-Area Acid/Caustic Basin, 904-83G, -77G
58.30	H-Area Tank Farm Groundwater Operable Unit NBN
50.34	Par Pond (including the pre-cooler ponds and canals) 685-G
50.00	H-Area Retention Basin, 281-3H
43.18	Old F-Area Seepage Basin, 904-49G
33.55	CMP Pits, 080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G
31.89	A-Area Burning/Rubble Pits, 731-A, -1A
26.88	C-Area Reactor Seepage Basins, 904-066G, -067G, -068G
22.21	TNX Groundwater, 082-G
21.90	SRL Seepage Basins, 904-53G1, -53G2, -54G, -55G
21.00	K-Area Bingham Pump Outage Pits*, 643-1G
21.00	L-Area Bingham Pump Outage Pits*, 643-2G, -3G
21.00	P-Area Bingham Pump Outage Pits*, 643-4G
21.00	R-Area Bingham Pump Outage Pits*, 643-8G, -9G, -1OG
19.50	K-Area Reactor Seepage Basin*, 904-65G
18.02	F-Area Inactive Process Sewer Lines from Building to the Security Fence, 081-1F
18.02	H-Area Inactive Process Sewer Lines from Building to the Security Fence, 081-H
17.94	A-Area Coal Pile Runoff Basin, 788-3A
17.94	C-Area Burning/Rubble Pit, 131-C
17.94	C-Area Coal Pile Runoff Basin, 189-C
17.94	D-Area Coal Pile Runoff Basin, 489-D
17.94	F-Area Coal Pile Runoff Basin, 289-F

17.94	H-Area Coal Pile Runoff Basin, 289-H
17.94	K-Area Coal Pile Runoff Basin, 189-K
17.94	P-Area Coal Pile Runoff Basin, 189-P
16.68	R-Area Reactor Seepage Basins*, 904-57G, -58G, -59G, -60G, -103G, -104G
14.29	D-Area Waste Oil Facility, 484-D
13.98	F-Area Burning/Rubble Pits, 231-F, -1F, -2F
12.30	*L-Area Rubble Pit*, 131-4L
11.82	D-Area Burning/Rubble Pits, 431-D, -1D
11.40	New TNX Seepage Basin, 904-102G
10.86	Ford Building Seepage Basin, 904-91G
10.86	K-Area Burning/Rubble Pit, 131-K
10.20	TNX Burying Ground, 643-5G
10.14	Road A Chemical Basin, 904-111G
9.66	M-Area West, 631-21G
9.36	716-A Motor Shop Seepage Basin, 904-101G
8.79	Central Shops Burning/Rubble Pits, 631-1G, -3G
8.78	Central Shops Sludge Lagoon, 080-24G
8.18	Old TNX Seepage Basin, 904-076G
7.60	*R-Area Rubble Pile*, 631-25G
7.47	F-Area Retention Basin, 281-3F
7.47	*K-Area Tritium Anomaly*, NBN
7.38	L-Area Burning/Rubble Pit, 131-L
6.49	Burma Road Rubble Pit, 231-4F
6.27	D-Area Ash Basin, 488-D
5.98	Central Shops Burning/Rubble Pit, 631-5G
5.94	P-Area Burning/Rubble Pit, 131-P
4.26	Miscellaneous Chemical Basin/Metals Burning Pits, 731-4A, -5A
3.88	G-Area Oil Seepage Basin, 761-13G
3.33	Warner's Pond, 685-23G
2.96	Ford Building Waste Site*, 643-11G
2.93	SRL Oil Test Site, 080-16G
2.70	D-Area Oil Seepage Basin, 631-G
2.67	Silverton Road Waste Site, 731-3A
2.64	Fire Department Hose Training Facility, 904-113G
1.98	K-Area Sludge Land Application Site, 761-4G
1.81	Hydrofluoric Acid Spill*, 631-4G
1.79	M-Area Settling Basin Inactive Process Sewers to Manhole 1, 081-M

1.24	L-Area Rubble Pit, 131-3L
1.20	R-Area Burning/Rubble Pits, 131-R, -1R
1.08	West of SREL "Georgia Fields" Site, 631-19G
0.60	108-4R Overflow Basin, 108-4R
0.43	Central Shops Burning/Rubble Pit, 631-6G
0.22	L-Area Rubble Pit, 131-1L
0.22	R-Area Acid/Caustic Basin, 904-79G
0.13	Gunsite 218 Rubble Pile, 631-23G
0.04	Par Pond Sludge Land Application Site, 761-5G
0.00	211-FB Pu-239 Release, 081-F
0.00	A-Area Miscellaneous Rubble Pile, 731-6A
0.00	A-Area Rubble Pit, 731-2A
0.00	Gas Cylinder Disposal Facility, 131-2L
0.00	Grace Road Site, 631-22G
0.00	Gunsite 113 Access Road, 631-24G
0.00	Gunsite 720 Rubble Pit, 631-16G
0.00	K-Area Rubble Pile, 631-20G
0.00	L-Area Hot Shop, 717-G
0.00	SRL 904-A Process Trench, 904-A
**NA	Four Mile Branch Integrator Operable Unit (Including the Un-Named NBN Tributary of Four Mile Branch South of C-Area)
**NA	Lower Three Runs Integrator Operable Unit NBN
**NA	Pen Branch Integrator Operable Unit (Including Indian Grave Branch) NBN
**NA	Savannah River Integrator Operable Unit NBN
**NA	Savannah River Swamp Integrator Operable Unit (Including Steel Creek NBN Swamp and Beaver Dam Creek)
**NA	Steel Creek Integrator Operable Unit NBN
**NA	Upper Three Runs Integrator Operable Unit (Including Tims Branch) NBN

C.2: RCRA/CERCLA Units Sorted by Unit Name

RCRA/CERCLA Unit	PREscore
108-4R Overflow Basin, 108-4R	0.60
211-FB Pu-239 Release, 081-F	0.00
716-A Motor Shop Seepage Basin, 904-101G	9.36
A-Area Burning/Rubble Pits, 731-A, -1A	31.89
A-Area Coal Pile Runoff Basin, 788-3A	17.94
A-Area Miscellaneous Rubble Pile, 731-6A	0.00
A-Area Rubble Pit, 731-2A	0.00

Burial Ground Complex, S01-S22, 643-E, 643-7E	76.88
Burma Road Rubble Pit, 231-4F	6.49
C-Area Burning/Rubble Pit, 131-C	17.94
C-Area Coal Pile Runoff Basin, 189-C	17.94
C-Area Reactor Seepage Basins, 904-066G, -067G, - 068G	26.88
Central Shops Burning/Rubble Pit, 631-5G	5.98
Central Shops Burning/Rubble Pit, 631-6G	0.43
Central Shops Burning/Rubble Pit, 631-1G, -3G	8.79
Central Shops Sludge Lagoon, 080-24G	8.78
CMP Pits, 080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G	33.55
D-Area Ash Basin, 488-D	6.27
D-Area Burning/Rubble Pits, 431-D, -1D	11.82
D-Area Coal Pile Runoff Basin, 489-D	17.94
D-Area Oil Seepage Basin, 631-G	2.70
D-Area Waste Oil Facility, 484-D	14.29
F-Area Burning/Rubble Pits, 231-F, -1F, -2F	13.98
F-Area Coal Pile Runoff Basin, 289-F	17.94
F-Area Inactive Process Sewer Lines from Building to the Security Fence, 081-1F	18.02
F-Area Retention Basin, 281-3F	7.47
Fire Department Hose Training Facility, 904-113G	2.64
Ford Building Seepage Basin, 904-9lG	10.86
Ford Building Waste Site*, 643-11G	2.96
Four Mile Branch Integrator Operable Unit (Including the Un-Named Tributary of Four Mile Branch South of C-Area), NBN	**NA
G-Area Oil Seepage Basin, 761-13G	3.88
Gas Cylinder Disposal Facility, 131-2L	0.00
Grace Road Site, 631-22G	0.00
Gunsite 113 Access Road, 631-24G	0.00
Gunsite 218 Rubble Pile, 631-23G	0.13
Gunsite 720 Rubble Pit, 631-16G	0.00
H-Area Coal Pile Runoff Basin, 289-H	17.94
H-Area Inactive Process Sewer Lines from Building to the Security Fence, 081-H	18.02
H-Area Retention Basin, 281-3H	50.00
H-Area Tank Farm Groundwater Operable Unit	58.30
Hydrofluoric Acid Spill*, 631-4G	1.81
K-Area Bingham Pump Outage Pits*, 643-1G	21.00
K-Area Burning/Rubble Pit, 131-K	10.86
K-Area Coal Pile Runoff Basin, 189-K	17.94

K-Area Reactor Seepage Basin*, 904-65G	19.50
K-Area Rubble Pile, 631-20G	0.00
K-Area Sludge Land Application Site, 761-4G	1.98
K-Area Tritium Anomaly, NBN	7.47
L-Area Bingham Pump Outage Pits*, 643-2G, -3G	21.00
L-Area Burning/Rubble Pit, 131-L	7.38
L-Area Hot Shop, 717-G	0.00
L-Area Oil/Chemical Basin and L-Area Acid/Caustic Basin, 904-83G, -77G	59.62
L-Area Rubble Pit, 131-4L	12.30
L-Area Rubble Pit, 131-3L	1.24
L-Area Rubble Pit, 131-1L	0.22
Lower Three Runs Integrator Operable Unit, NBN	**NA
M-Area Settling Basin Inactive Process Sewers to Manhole 1, 081-M	1.79
M-Area West, 631-21G	9.66
Miscellaneous Chemical Basin/Metals Burning Pits, 731-4A, -5A	4.26
New TNX Seepage Basin, 904-102G	11.40
Old F-Area Seepage Basin, 904-49G	43.18
Old TNX Seepage Basin, 904-076G	8.18
P-Area Bingham Pump Outage Pits*, 643-4G	21.00
P-Area Burning/Rubble Pit, 131-P	5.94
P-Area Coal Pile Runoff Basin, 189-P	17.94
Par Pond (including the pre-cooler ponds and canals), 685-G	50.34
Par Pond Sludge Land Application Site, 761-5G	0.04
Pen Branch Integrator Operable Unit Including Indian Grave Branch), NBN	**NA
R-Area Acid/Caustic Basin, 904-79G	0.22
R-Area Bingham Pump Outage Pits*, 643-8G, -9G, -10G	21.00
R-Area Burning/Rubble Pits, 131-R, -1R	1.20
R-Area Reactor Seepage Basins*, 904-57G, -58G, -59G, -60G, -103G, -104G	16.68
R-Area Rubble Pile, 631-25G	7.60
Road A Chemical Basin, 904-lllG	10.14
Savannah River Integrator Operable Unit, NBN	**NA
Savannah River Swamp Integrator Operable Unit (Including Steel Creek Swamp and Beaver Dam Creek), NBN	**NA
Silverton Road Waste Site, 731-3A	2.67
SRL 904-A Process Trench, 904-A	0.00
SRL Oil Test Site, 080-16G	2.93
SRL Seepage Basins, 904-53G1, -53G2, -54G, -55G	21.90
Steel Creek Integrator Operable Unit, NBN	**NA

TNX Burying Ground, 643-5G	10.20
TNX Groundwater, 082-G	22.21
Upper Three Runs Integrator Operable Unit (Including Tims Branch), NBN	**NA
Warner's Pond, 685-23G	3.33
West of SREL "Georgia Fields" Site, 631-19G	1.08

C.3: Operable Units	
Four Mile Branch Watershed	
Four Mile Branch Integrator Operable Unit	
OU 01	Burial Ground Complex Groundwater[4]
OU 02	Burial Ground Complex (the Old Radioactive Waste Burial Ground (643-E) and Solvent Tanks S01 - S22 portions)
OU 03	C-Area Burning/Rubble Pit, 131-C
OU 04	C-Area Coal Pile Runoff Basin, 189-C
OU 05	C-Area Reactor Seepage Basins, 904-066G, -067G, - 068G
OU 06	Central Shops Burning/Rubble Pit, 631-5G
OU 07	Central Shops Burning/Rubble Pits, 631-1G, -3G
OU 08	F-Area Coal Pile Runoff Basin, 289-F
OU 09	F-Area Hazardous Waste Management Facility[1,3], 904-41G, -42G, -43G
OU 10	F-Area Inactive Process Sewer Lines from Building to the Security Fence[4], 081-1F
OU 11	F-Area Retention Basin, 281-3F
OU 12	F-Area Seepage Basin Groundwater Operable Unit[1,2]
OU 13	H-Area Acid/Caustic Basin[1], 904-75G
OU 14	H-Area Hazardous Waste Management Facility[1,3], 904-44G, -45G, -46G, -56G
OU 15	H-Area Inactive Process Sewer Lines from Building to the Security Fence[4], 081-H
OU 16	H-Area Retention Basin, 281-3H

OU 17	H-Area Seepage Basin Groundwater Operable Unit Groundwater[1,2]
OU 18	H-Area Tank Farm Groundwater
OU 19	Mixed Waste Management Facility[1,3], 643-28E
OU 20	Road A Chemical Basin, 904-lllG
OU 21	Tank 105-C[1,3]
OU 22	Warner's Pond, 685-23G
Lower Three Runs Watershed	
Lower Three Runs Integrator Operable Unit	
OU 01	108-4R 0verflow Basin, 108-4R R-Area Reactor Seepage Basins, 904-57G, -59G, -59G, -60G; -103G, -104G
OU 02	Gunsite 218 Rubble Pile, 631-23G
OU 03	P-Area Acid/Caustic Basin[1], 904-78G
OU 04	P-Area Bingham Pump Outage Pits, 643-4G
OU 05	P-Area Coal Pile Runoff Basin, 189-P
OU 06	Par Pond[2] (including the pre-cooler ponds and canals), 685-G
OU 07	Par Pond Sludge Land Application Site, 761-5G
OU 08	R-Area Acid/Caustic Basin, 904-79G
OU 09	R-Area Bingham Pump Outage Pits, 643-8G, -9G, -10G
OU 10	R-Area Burning Rubble Pits, 131-R, -1R
OU 11	*R-Area Rubble Pile, 631-25G*
Pen Branch Watershed	
Pen Branch Integrator Operable Unit	
OU 01	Central Shops Burning/Rubble Pit, 631-6G
OU 02	Central Shops Sludge Lagoon, 080-24G

OU 03	CMP Pits, 080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G
OU 04	Fire Department Hose Training Facility, 904-113G Ford Building Waste Site, 643-11G Ford Building Seepage Basin, 904-91G
OU 05	G-Area Oil Seepage Basin, 761-13G
OU 06	Gas Cylinder Disposal Facility, 131-2L
OU 07	Hydrofluoric Acid Spill, 631-4G
OU 08	K-Area Acid/Caustic Basin[1], 904-080G
OU 09	K-Area Coal Pile Runoff Basin, 189-K
OU 10	K-Area Reactor Seepage Basin, 904-65G
OU 11	K-Area Rubble Pile, 631-20G K-Area Burning/Rubble Pit, 631-20G
OU 12	K-Area Sludge Land Application Site, 761-4G
OU 13	L-Area Bingham Pump Outage Pits, 643-2G, -3G
OU 14	L-Area Rubble Pit, 131-3L
OU 14	L-Area Burning Rubble Pit, 131-L
OU 15	SRL Oil Test Site, 080-16G
OU 16	K-Area Bingham Pump Outage Pits, 643-2G, -3G
OU 17	*K-Area Tritium Anomaly, NBN*
OU 18	*L-Area Rubble Pit, 131-4L*
Savannah River Floodplain Swamp Watershed	
Savannah River Floodplain Swamp Integrator Operable	
OU 01	D-Area Ash Basin, 488-D D-Area Coal Pile Runoff Basin, 489-D
OU 02	D-Area Burning/Rubble Pits, 431-D, -ID

OU 03	D-Area Oil Seepage Basins[2], 631-G
OU 04	D-Area Waste Oil Facility, 484-D
OU 05	M-Area West, 631-21G
OU 06	Silverton Road Waste Site, 731-3A
OU 07	TNX Burying Ground, 643-5G Old TNX Seepage Basin, 904-076G TNX Groundwater[2], 082-G New TNX Seepage Basin, 904-102G
Savannah River Integrator Operable Unit	
Steel Creek Watershed	
Steel Creek Integrator Operable Unit	
OU 01	L-Area Rubble Pit, 131-IL
OU 02	L-Area Hot Shop, 717-G L-Area Oil/Chemical Basin and L-Area Acid/Caustic Basin, 904-83G, -77G
OU 03	P-Area Burning/Rubble Pit, 131-P
Upper Three Runs Watershed	
Upper Three Runs Integrator Operable Unit	
OU 01	211-FB Pu, 239 Release, 081-F
OU 02	A-Area Miscellaneous Rubble Pile, 731-6A 716-A Motor Shop Seepage Basin, 904-l0lG
OU 03	A-Area Rubble Pit, 731-2A Miscellaneous Chemical Basin/Metals Burning Pits, 731-4A, -5A A-Area Burning/Rubble Pits, 731-A, -1A
OU 04	Burial Ground Complex Groundwater[4]
OU 05	Burial Ground Complex (the Low Level Radioactive Waste Disposal Facility[1] (643-7E) portion)
OU 06	Burma Road Rubble Pit, 231-4F
OU 07	F-Area Acid/Caustic Basin[1], 904-47G
OU 08	F-Area Burning/Rubble Pits, 231-F, -IF, -2F
OU 09	F-Area Inactive Process Sewer Lines from Building to the Security Fence[4] 081-1F

OU 10	Grace Road Site, 631-22G
OU 11	Gunsite 113 Access Road, 631-24G
OU 12	Gunsite 720 Rubble Pit, 631-16G
OU 13	H-Area Coal Pile Runoff Basin, 289-H
OU 14	H-Area Inactive Process Sewer Lines from Building to the Security Fence[4], 081-H
OU 15	M-Area Hazardous Waste Management Facility: A/M Area Groundwater Portion[1,2], 904-110
OU 16	M-Area Hazardous Waste Management Facility: M-Area Settling Basin Inactive Process Sewers to Manhole 1 Portion[1], 081-M
OU 17	M-Area Hazardous Waste Management Facility: Vadose Zone-Portion[1,2]
OU 18	Met Lab Basin/Carolina Bay[1,2], 904-110
OU 19	Old F-Area Seepage Basin, 904-49G
OU 20	Sanitary Landfill Groundwater[1]
OU 21	Sanitary Landfills[1], 740-G
OU 22	SRL 904-A Process Trench, 904-A
OU 23	SRL Seepage Basins, 904-53G1, -53G2, -54G, -55G
OU 24	West of SREL "Georgia Fields" Site, 631-19G
OU 25	A-Area Coal Pile Runoff Basin, 788-3A

Units appearing in italic type-face were added to the list during Fiscal Year 1995.
* Unit that does not require a RCRA Permit modification.
**NA PREscore not applicable.
[1] Units that are, or are associated with units, listed on Appendix H, RCRA Regulated Units.
[2] Units that have had an Interim Action Record of Decision issued.
[3] Units that have had a Final Record of Decision issued.
[4] Units that are located in more than one Watershed.

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Appendix D: Timetables and Deadlines for Fiscal Year 1996

This appendix is a listing of the draft primary and secondary documents required for submittal in the Fiscal Year 1996. It is prepared under the requirements set forth in Section XX (Timetables and Deadlines) of this Agreement.

Deliverable or Milestone:	Milestone/ Submittal Date
Revision.0 Appendix C, RCRA/CERCLA Units List for Fiscal Year 1996 Submittal	10/01/95
Old Radioactive Waste Burial Ground (643-E) Revision.0 Interim Action Proposed Plan	10/09/95
Revision.0 Appendix E, Commitments for FY 97 & FY 98 and Project ROD Issuance Dates for FY 99+ Submittal	11/15/95
F-Area Burning/Rubble Pits (231-F, -1F, -2F) Revision.0 Proposed Plan Submittal	11/20/95
FFA Progress Report for Fiscal Year 1995 Submittal	12/02/95
Revision.1 Appendix E, Commitments for FY 97 & FY 98 and Project ROD Issuance Dates for FY 99+ Submittal	12/31/95
Six (6) Site Evaluation Reports Submittal	12/31/95
SRL Seepage Basin (904-53G1, -52G2, -54G, -55G) Revision.0 RFI/RI Workplan Submittal	12/31/95
Removal Actions Performed in Fiscal Year 1995 Report Submittal	01/01/96
Old F-Area Seepage Basin (904-49G) Revision.0 Proposed Plan Submittal	01/03/96
K-Area Bingham Pump Outage Pit (643-1G) Revision.0 RI and Baseline Risk Assessment Report Submittal	01/15/96
TNX Burying Ground (648-5G), Old TNX Seepage Basin (904-076G), TNX Groundwater (082-G), and New TNX Seepage Basin (904-102G) RFI/RI Field Start	01/31/96
TNX Ground Water Operable Unit Interim Remedial Action Start	02/16/96
Burma Road (231-4F) Revision.0 ROD Submittal	02/22/96
Silverton Road Waste Site (731-3A) Revision.0 CMS/FS Submittal	02/26/96
Revision.0 Community Relations Plan Submittal	03/06/96
Grace Road Site (631-22G) Revision.0 Proposed Plan Submittal	03/08/96
New or Replacement Waste Tank System Components Annual Report Submittal	03/09/96
Silverton Road Waste Site (731-3A) Revision.0 Proposed Plan Submittal	03/18/96
Old Radioactive Waste Burial Ground (643-E) Revision.0 Interim ROD Submittal	03/20/96

Old Radioactive Waste Burial Ground (643-E) Revision.0 RD/RA Workplan Submittal	03/25/96
K-Area Rubble Pile (631-20G), K-Area Burning/Rubble Pit (131-K) RFI/RI Field Start	03/29/96
Six (6) Site Evaluation Reports Submittal	03/31/96
K-Area Coal Pile Runoff Basin(189-K) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	04/03/96
A-Area Miscellaneous Rubble Pile (731-6A) and 716-A Motor Shop Seepage Basin (904-l0lG) Revision.0 RFI/RI Workplan Submittal	04/04/96
L-Area Oil/Chemical Basin and Acid/Caustic Basin (904-83G, -77G) Revision.0 CMS/FS Submittal	04/04/96
CMP Pits (080-17G, -17.1G, -18G, -18.1G, -18.2G, 18.3G, -19G) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	04/08/96
H-Area Retention Basin (281-3H) Removal Site Evaluation Report Submittal	04/16/96
H-Area Retention Basin (281-3H) Revision.0 Treatability Study Workplan Submittal	04/16/96
Gunsite 113 Access Road (631-24G) Revision.0 Proposed Plan Submittal	05/20/96
Gunsite 720 Rubble Pile (631-16G) Revision.0 Proposed Plan Submittal	05/20/96
D-Area Oil Seepage Basin (631-G) Interim Remedial Action Start	06/03/96
Burma Road (231-4F) ROD*	06/07/96
F-Area Retention Basin (281-3F) Revision.0 RI and Baseline Risk Assessment Report Submittal	06/30/96
Six (6)-Site Evaluation Reports Submittal	06/30/96
Old Radioactive Waste Burial Ground (643-E) Interim ROD*	07/03/96
C-Area Coal Pile Runoff Basin (189-C) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	07/17/96
A-Area Rubble Pit (731-2A) and A-Area Burning/Rubble Pits (731-A, -1A) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	07/31/96
L-Area Bingham Pump Outage Pits (643-2G, -3G) Revision.0 RI Workplan Addendum Submittal	08/02/96
P-Area Bingham Pump Outage Pit (643-4G) Revision.0 RI Workplan Addendum Submittal	08/02/96
R-Area Bingham Pump Outage Pits (643-8G, -9G, -10G) Revision.0 RI Workplan Addendum Submittal	08/02/96
D-Area Oil Seepage Basin (631-G) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	08/08/96
Central Shops Burning/Rubble Pit (631-6G) Revision.0 Statement of Basis/Proposed Plan Submittal	08/12/96
K-Area Bingham Pump Outage Pit (643-1G) Revision.0 FS Submittal	09/13/96
C-Area Burning/Rubble Pit (131-C) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	09/16/96

Fire Dept. Hose Training Facility (904-13G) and Ford Building Waste Site (643-llG) Revision.0 RFI/RI Workplan Submittal	09/30/96
Savannah River Integrator Operable Unit Study Submittal	09/30/96
Six (6) Site Evaluation Reports Submittal	09/30/96
SRL Seepage Basin (904-53G1, -53G2, -54G, -55G) RFI/RI Field Start	09/30/96

[a] A Revised D-Area Oil Seepage Basin RD/RA Workplan to address high water table conditions will be submitted on or before November 15, 1995.

[b] This Submittal Date of 06/30/96 is enforceable under the terms of Section XLVII. only in the event that DOE fails to submit the F-Area Retention Basin (281-3F) Revision.0 RI and Baseline Risk Assessment Report on or before the date of 08/01/96. The date of 08/01/96 is from the EPA and SCDHEC approved F-Area Retention Basin (281-3F) Implementation Schedule that compensates for the work stoppage that occurred in Fiscal Year 1995.

* The milestone identified as ROD is deemed fulfilled upon the EPA and SCDHEC concurrence and DOE submittal of the signed Revision.0 (or subsequent revision) ROD

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Appendix E: Long-Term Projections for Fiscal Year 1996

This appendix is presented in three parts:

Part 1: Long-Term Projections for Fiscal Year 1997
Part 2: Long-Term Projections for Fiscal Year 1998
Part 3: Long-Term Projections for Fiscal Year 1999 and Beyond

This appendix is prepared under the requirements set forth in Section XIX (Scoping Work Priorities) of this Agreement.

E.1: Deliverable Commitment Dates and Milestone Commitment Dates for FY 1997	
Deliverable or Milestone:	**Milestone/ Submittal Date**
Revision.0 Appendix C, RCRA/CERCLA Units List for Fiscal Year 1997 Submittal	10/01/96
L-Area Oil/Chemical Basin and Acid/Caustic Basin (904-83G, -77G) Revision.0 Statement of Basis/Proposed Plan Submittal	10/14/96
Misc. Chemical Basin/Metals Burning Pit (731-4A, -5A) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	10/31/96
D-Area Burning/Rubble Pits (431-D, -1D) Revision.0 ROD Submittal	11/14/96
F-Area Burning/Rubble Pits (231-F, -1F, -2F) Revision.0 ROD Submittal	11/14/96
Grace Road Site (631-22G) Revision.0 ROD Submittal	11/14/96
Gunsite 113 Access Road (631-24G) Revision.0 ROD Submittal	11/14/96
Gunsite 720 Rubble Pile (631-16G) Revision.0 ROD Submittal	11/14/96
Old F-Area Seepage Basin (904-49G) Revision.0 ROD Submittal	11/14/96
Silverton Road Waste Site (731-3A) Revision.0 ROD Submittal	11/14/96
Revision.0 Appendix E, Long-Term Projections for FY 1998 & FY 1999 and Projected ROD Issuance Dates for FY 2000 + Submittal	11/15/96
FFA Progress Report for the Fiscal Year 1996 Submittal	12/01/96
K-Area Coal Pile Runoff Basin (189-K) Revision.0 CMS/FS Submittal	12/02/96
CMP Pits (080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G) Revision.0 CMS/FS Submittal	12/04/96
K-Area Reactor Seepage Basin (904-65G) Revision.0 RFI/RI and Baseline Risk Assessment Reports Submittal	12/20/96
716-A Motor Shop Seepage Basin (904-101G) RFI/RI Field Start	12/31/96

Revision.1 Appendix E, Commitments for FY 1998 & FY 1999 and Projected ROD Issuance Dates for FY 2000 + Submittal	12/31/96
Six (6) Site Evaluation Reports Submittal	12/31/96
Removal Actions Performed in Fiscal Year 1995 Report Submittal	01/01/97
L-, P-, and R-Area Bingham Pump Outage Pits (643-2G, -3G, 4G, -8G, -9G, -10G) RI Field Start	01/31/97
Central Shops Burning/Rubble Pit (631-6G) Revision.0 ROD Submittal	02/06/97
K-Area Bingham Pumps Outage Pit (643-1G) Revision.0 Proposed Plan Submittal	02/13/97
Central Shops Burning/Rubble Pit (631-5G) Revision.0 ASCAD™ RFI/RI Workplan Addendum Submittal	02/25/97
D-Area Burning/Rubble Pits (431-D, -1D) ROD*	02/27/97
F-Area Burning/Rubble Pits (231-F, -1F, -2F) ROD*	02/27/97
Grace Road Site (631-22G) ROD*	02/27/97
Gunsite 113 Access Road (631-24G) ROD*	02/27/97
Gunsite 720 Rubble Pile (631-16G) ROD*	02/27/97
Old F-Area Seepage Basin (904-49G) ROD*	02/27/96
Silverton Road Waste Site (731-3A) ROD*	02/27/97
New or Replacement Waste Tank System Components Annual Report Submittal	03/09/97
C-Area Coal Pile Runoff Basin (189-C) Revision.0 CMS/FS Submittal	03/14/97
Ford Building Seepage Basin (904-41G) Revision.0 ASCAD™ RFI/RI Workplan Addendum Submittal	03/17/97
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A) Revision.0 ASCAD™ Combined Document Submittal	03/31/97
F-Area Retention Basin (281-3F) Revision.0 ASCAD™ Combined Document Submittal	3/31/97
Six (6) Site Evaluation Reports Submittal	03/31/97
L-Area Rubble Pit (131-3L) and L-Area Burning/Rubble Pit (131-L) Revision.0 ASCAD™ RFI/RI Workplan Addendum Submittal	04/01/97
H-Area Retention Basin (281-3H) Revision.0 ASCAD™ RI Workplan Addendum Submittal	04/03/97
A-Area Miscellaneous Rubble Pile (731-6A) Revision.0 ASCAD™ RFI/RI Workplan Addendum Submittal	04/10/97
Central Shops Burning/Rubble Pits (631-1G, -3G) Revision.0 ASCAD™ RFI/RI Workplan Addendum Submittal	04/10/97
L-Area Oil/Chemical Basin and Acid/Caustic Basin (904-83G, -77G) Revision.0 ROD Submittal	04/14/97
H-Area Tank Farm Groundwater Operable Unit Revision.0 Focused CMS/FS Submittal	05/09/97
C-Area Burning/Rubble Pit (131-C) Revision.0 ASCAD™ Combined Document Submittal	05/14/97

Central Shops Burning/Rubble Pit (631-6G) ROD*	05/23/97
TNX Burying Ground (643-5G), New TNX Seepage Basin (904-076G, -102G), Old TNX Seepage Basin (904-076G), and TNX Groundwater (082-G) Revision.0 RFI/RI and Baseline Risk Assessment Reports Submittal	05/28/97
D-Area Oil Seepage Basin (631-G) Revision.0 Combined Document (CMS/FS and Statement of Basis/Proposed Plan) Submittal	06/02/97
Miscellaneous Chemical Basin/Metals Burning Pit (731 4A, -5A) Revision.0 CMS/FS Submittal	06/02/97
CMP Pits (080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G) Revision.0 Statement of Basis/Proposed Plan Submittal	06/09/97
K-Area Coal Pile Runoff Basin (189-K) Revision.0 Statement of Basis/Proposed Plan Submittal	06/09/97
Fire Dept. Hose Training Facility (904-113G) and Ford Building Waste Site (643-11G) RFI/RI Field Start	06/30/97
Six (6) Site Evaluation Reports Submittal	06/30/97
K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G) Revision.0 RFI/RI and Baseline Risk Assessment Reports Submittal	07/09/97
F-Area Retention Basin (281-3F) Revision.1 ASCAD™ Statement of Basis/Proposed Plan Submittal	07/27/97
H-Area Tank Farm Groundwater Operable Unit Revision.0 Proposed Plan Submittal	07/28/97
K-Area Bingham Pumps Outage Pit (643-1G) Revision.0 ROD Submittal	07/28/97
L-Area Oil/Chemical Basin and L-Area Acid/Caustic Barn (904-83G, -77G) ROD*	07/30/97
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A) Revision.1 ASCAD™ Statement of Basis/Proposed Plan Submittal	07/31/97
K-Area Reactor Seepage Basin (904-65G) Revision.0 ASCAD™ Combined Document Submittal	8/18/97
P-Area Burning/Rubble Pit (131-P) Revision.0 ASCAD™ RFI/RI Workplan Addendum Submittal	8/20/97
C-Area Burning/Rubble Pit (131-C) Revision.0 ASCAD™ Statement of Basis/Proposed Plan Submittal	9/11/97
C-Area Coal Pile Runoff Basin (189-C) Revision.0 Statement of Basis/Proposed Plan Submittal	9/17/97
Central Shops Burning/Rubble Pit (631-5G) RFI/RI Field Start	9/30/97
Six (6) Site Evaluation Reports Submittal	9/30/97
Miscellaneous Chemical Basin/Metals Burning Pit (731-4A, -5A) Revision.0 Statement of Basis/Proposed Plan Submittal	12/08/97
D-Area Oil Seepage Basin (631-G) Revision.0 ROD Submittal	2/16/98

E.2: Deliverable Commitment Dates and Milestone Commitment Dates for FY 1998	
Deliverable or Milestone:	**Milestone/ Submittal Date**
H-Area Retention Basin (281-3H) Revision.0 ASCAD™ RI Field Start	10/01/97
Revision.0 Appendix C, RCRA/CERCLA Units List for Fiscal Year 1998 Submittal	10/01/97
Ford Building Seepage Basin (904-9lG) ASCAD™ RFI/RI Field Start	10/20/97
F-Area Retention Basin (281-3F) Revision.1 ASCAD™ ROD Submittal	10/23/97
L-Area Burning/Rubble Pit (131-L) and L-Area Rubble Pit (131-3L) RFI/RI Field Start	11/03/97
A-Area Miscellaneous Rubble Pile (731-6A) ASCAD™ RFI/RI Field Start	11/10/97
Central Shops Burning/Rubble Pits (631-1G, -3G) ASCAD™ RFI/RI Field Start	11/10/97
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A) Revision.1 ASCAD™ ROD Submittal	11/12/97
K-Area Bingham Pumps Outage Pit (643-1G) ROD*	11/13/97
Burial Ground Complex (S01 - S22, 643-E, 643-7E) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	11/14/97
Revision.0 Appendix E, Commitments for FY 1999 & FY 2000 and Projected ROD Issuance Dates for FY 2000 + Submittal	11/15/97
C-Area Reactor Seepage Basins (904-066G, -067G, - 068G) Revision.0 ASCAD™ RI Workplan Addendum Submittal	11/19/97
F-Area Retention Basin (281-3F) ASCAD™ ROD*	11/21/97
FFA Progress Report for the Fiscal Year 1997 Submittal	12/01/97
CMP Pits (080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G) Revision.0 ROD Submittal	12/04/97
K-Area Coal Pile Runoff Basin (189-K) Revision.0 ROD Submittal	12/04/97
Miscellaneous Chemical Basin/Metals Burning Pit (731-4A, -5A) Revision.0 Statement of Basis/Proposed Plan Submittal	12/08/97
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A) ASCAD™ ROD*	12/14/97
K-Area Reactor Seepage Basin (904-65G) Revision.1 ASCAD™ Proposed Plan Submittal	12/16/97
C-Area Burning/Rubble Pit (131-C) Revision.1 ASCAD™ ROD Submittal	12/23/97
D-Area Ash Basin (488-D), D-Area Coal Pile Runoff Basin (489-D) Revision.0 RFI/RI Workplan Submittal	12/31/97
Six (6) Site Evaluation Reports Submittal	12/31/97
Removal Actions Performed in Fiscal Year 1997 Report Submittal	01/01/98
H-Area Tank Farm Groundwater Operable Unit Revision.0 ROD Submittal	01/07/98
C-Area Burning/Rubble Pit (131-C) ASCAD™ ROD*	01/22/98

TNX Burying Ground (643-5G), New TNX Seepage Basin (904-076G, -102G), Old TNX Seepage Basin (904-076G), and TNX Groundwater (082-G) Revision.0 CMS/FS Submittal	01/26/98
D-Area Oil Seepage Basin (631-G) Revision.0 ROD Submittal	02/16/98
K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G) Revision.0 ASCAD™ Combined Document Submittal	03/06/98
New or Replacement Waste Tank System Components Annual Report Submittal	03/09/98
K-Area Reactor Seepage Basin (904-65G) Revision.1 ASCAD™ ROD Submittal	03/14/98
C-Area Coal Pile Runoff Basin (189-C) Revision.0 ROD Submittal	03/16/98
CMP Pits (080-17G, -17.1G, -18G, -19G, -18.1G, -18.2G, -18.3G) ROD*	03/19/98
K-Area Coal Pile Runoff Basin (189-K) ROD*	03/20/98
F-Area Coal Pile Runoff Basin (289-F) Revision.0 RFI/RI Workplan Submittal	03/30/98
P-Area Burning/Rubble Pit (131-P) ASCAD™ RFI/RI Field Start	03/30/98
Six (6) Site Evaluation Reports Submittal	03/31/98
K-Area Reactor Seepage Basin (904-65G) ASCAD™ ROD*	04/13/98
H-Area Tank Farm Groundwater Operable Unit ROD*	04/22/98
D-Area Burning/Rubble Pits (431-D, -1D) Remedial Action Start	05/27/98
F-Area Burning/Rubble Pits (231-F, -1F, -2F) Remedial Action Start	05/27/98
Grace Road Site (631-22G) Remedial Action Start	05/27/98
Gunsite 113 Access Road (631-24G) Remedial Action Start	05/27/98
Gunsite 720 Rubble Pit (631-16G) Remedial Action Start	05/27/98
Old F-Area Seepage Basin (904-49G) Remedial Action Start	05/27/98
Silverton Road Waste Site (731-3A) Remedial Action Start	05/27/98
D-Area Oil Seepage Basin (631-G) ROD*	06/03/98
Misc. Chemical Basin/Metals Burning Pit (731-4A, -5A) Revision.0 ROD Submittal	06/04/98
C-Area Reactor Seepage Basins (904-066G, -067G, - 068G) RI Field Start	06/30/98
H-Area Coal Pile Runoff Basin (289-H) Revision.0 RFI/RI Workplan Submittal	06/30/98
Six (6) Site Evaluation Reports Submittal	06/30/98
C-Area Coal Pile Runoff Basin (189-C) ROD*	07/01/98
K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G) Revision.1 ASCAD™ Statement of Basis/Proposed Plan Submittal	07/07/98
Burial Ground Complex (S01 - S22, 643-E, 643-7E) Revision.0 CMS/FS Submittal	07/13/98
TNX Buying Ground (643-5G), New TNX Seepage Basin (904-076G, -102G), Old TNX Seepage Basin (904-076G), and TNX Groundwater (082-G) Revision.0 Statement of Basis/Proposed Plan Submittal	07/31/98
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, -104G) and 108-4R Overflow Basin (108-4R) Revision.0 RFI/RI and Baseline Risk Assessment Report Submittal	08/12/98
Central Shops Burning/Rubble Pit (631-6G) Remedial Action Start	08/23/98

Misc. Chemical Basin/Metals Burning Pit (731-4A, -5A) ROD*	09/17/98
L-, P-, and R-Area Bingham Pump Outage Pits (643-2G, -3G, -4G, -8G, -9G, -10G) Revision.0 ASCAD™ Combined Document Submittal	09/18/98
A-Area Coal Pile Runoff Basin (788-3A) Revision.0 RFI/RI Workplan Submittal	09/30/98
D-Area Ash Basin (488-D), D-Area Coal Pile Runoff Basin (489-D) RFI/RI Field Start	09/30/98
D-Area Waste Oil Facility (484-D) Revision.0 RFI/RI Workplan Submittal	09/30/98
P-Area Coal Pile Runoff Basin (189-P) Revision.0 RFI/RI Workplan Submittal	09/30/98
Road A Chemical Basin (904-111G) Revision.0 RFI/RI Workplan Submittal	09/30/98
Six (6) Site Evaluation Reports Submitted	09/30/98

E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 1999+)

Operable Unit	Field Start Date	ROD Date	RA Start Date
D-Area Burning/Rubble Pits (431-D, -1D)	3Q FY 1993	2Q FY 1997	3Q FY 1998
F-Area Burning/Rubble Pits (231-F, -1F, -2F)	3Q FY 1993	2Q FY 1997	3Q FY 1998
H-Area Tank Farm Groundwater Operable Unit	4Q FY 1993	3Q FY 1998	4Q FY 1999
Old F-Area Seepage Basin (904-49G)	4Q FY 1993	2Q FY 1997	3Q FY 1998
Silverton Road Waste Site (731-3A)	4Q FY 1993	2Q FY 1997	3Q FY 1998
M-Area West (631-21G)	1Q FY 1994	4Q FY 1995	NA
Burma Road Rubble Pit (231-4F)	1Q FY 1994	3Q FY 1996	4Q FY 1997
Grace Road Site (631-22G)	2Q FY 1994	2Q FY 1997	3Q FY 1998
Central Shops Burning/Rubble Pit (631-6G)	2Q FY 1994	3Q FY 1997	4Q FY 1998
L-Area Oil/Chemical Basin and L-Area Acid/Caustic Basin (904-83G, -77G)	2Q FY 1994	4Q FY 1997	1Q FY 1999
Gunsite 113 Access Road (631-24G)	3Q FY 1994	2Q FY 1997	3Q FY 1998
Gunsite 720 Rubble Pit (631-16G)	3Q FY 1994	2Q FY 1997	3Q FY 1998
F-Area Retention Basin (281-3F), Phase I	3Q FY 1994		

F-Area Retention Basin (281-3F), Phase II	2Q FY 1995	1Q FY 1998	2Q FY 1999
A-Area Rubble Pit (731-2A) and A-Area Burning/Rubble Pits (731-A, -1A)	4Q FY 1994	1Q FY 1998	2Q FY 1999
Burial Ground Complex (S01-S22, 643-E, 643-7E)	4Q FY 1994	1Q FY 2000	2Q FY 2001
CMP Pits (080-17G, 080-17.1G, 080-18G, 080-19G, 080-18.1G, 080-18.2G, 080-18.3G)	4Q FY 1994	2Q FY 1998	3Q FY 1999
Misc. Chemical Basin/Metals Burning Pit (731-4A, -5A)	4Q FY 1994	4Q FY 1998	1Q FY 2000
K-Area Bingham Pump Outage Pits (643-1G)	1Q FY 1995	1Q FY 1998	2Q FY 1999
K-Area Coal Pile Runoff Basin (189-K)	1Q FY 1995	2Q FY 1998	3Q FY 1999
K-Area Reactor Seepage Basin (904-65G)	2Q FY 1995	3Q FY 1998	4Q FY 1999
C-Area Coal Pile Runoff Basin (189-C)	3Q FY 1995	4Q FY 1998	1Q FY 2000
C-Area Burning/Rubble Pit (131-C)	4Q FY 1995	2Q FY 1998	3Q FY 1999
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, -104G) and 108-4R Overflow Basin (108-4R)	4Q FY 1995	1Q FY 2000	2Q FY 2001
D-Area Oil Seepage Basin (631-G)	4Q FY 1995	3Q FY 1998	4Q FY 1999
TNX Burying Ground (643-5G), New TNX Seepage Basin (904-076G, -102G), Old TNX Seepage Basin (904-076G), and TNX Groundwater (082-G)	2Q FY 1996	3Q FY 1999	4Q FY 2000
K-Area Rubble Pile (631-20G), K-Area Burning/Rubble Pit (131-K)	2Q FY 1996	1Q FY 1999	2Q FY 2000
SRL Seepage Basins (904-51G1, 904-53G2, 904-54G, 904-55G)	4Q FY 1996	4Q FY 1999	1Q FY 2001
716-A Motor Shop Seepage Basin (904-l0lG)	1Q FY 1997	2Q FY 2000	3Q FY 2001
L-Area Bingham Pump Outage Pits (643-2G, -3G)	2Q FY 1997	3Q FY 1999	4Q FY 2000
P-Area Bingham Pump Outage Pit (643-4G)	2Q FY 1997	3Q FY 1999	4Q FY 2000
R-Area Bingham Pump Outage Pits (643-8G, -9G, -10G)	2Q FY 1997	3Q FY 1999	4Q FY 2000
Fire Dept. Hose Training Facility (904-113G), Ford Building Waste Site (643-llG)	3Q FY 1997	4Q FY 2000	1Q FY 2002
Central Shops Burning/Rubble Pit (631-5G)	4Q FY 1997	2Q FY 2000	3Q FY 2001

H-Area Retention Basin (281-3H), Phase I	3Q FY 1994		
H-Area Retention Basin (281-3H), Phase II	1Q FY 1998	1Q FY 2001	2Q FY 2002
Ford Building Seepage Basin (904-9lG)	1Q FY 1998	4Q FY 2000	1Q FY 2002
L-Area Rubble Pit (131-3L), L-Area Burning/Rubble Pit (131-L)	1Q FY 1998	2Q FY 2000	3Q FY 2001
A-Area Misc. Rubble Pile (731-6A)	1Q FY 1998	2Q FY 2000	3Q FY 2001
Central Shops Burning/Rubble Pits (631-1G, -3G)	1Q FY 1998	2Q FY 2000	3Q FY 2001
P-Area Burning/Rubble Pit (131-P)	2Q FY 1998	4Q FY 2000	1Q FY 2002
C-Area Reactor Seepage Basins (904-066G, -067G, - 068G)	3Q FY 1998	3Q FY 2001	4Q FY 2002
D-Area Ash Basin (488-D), D-Area Coal Pile Runoff Basin (489-D)	4Q FY 1998	4Q FY 2001	1Q FY 2003
F-Area Coal Pile Runoff Basin (289-F)	1Q FY 1999	1Q FY 2002	2Q FY 2003
H-Area Coal Pile Runoff Basin (289-H)	2Q FY 1999	2Q FY 2002	3Q FY 2003
A-Area Coal Pile Runoff Basin (788-3A)	3Q FY 1999	4Q FY 2002	1Q FY 2004
D-Area Waste Oil Facility (484-D)	3Q FY 1999	3Q FY 2002	4Q FY 2003
P-Area Coal Pile Runoff Basin (189-P)	3Q FY 1999	4Q FY 2002	1Q FY 2004
Road A Chemical Basin (904-lllG)	3Q FY 1999	3Q FY 2002	4Q FY 2003
Central Shops Sludge Lagoon (080-24G)	4Q FY 1999	4Q FY 2002	1Q FY 2004
Warner's Pond (685-23G)	2Q FY 2000	2Q FY 2003	3Q FY 2004
SRL Oil Test Site (080-16G)	3Q FY 2000	3Q FY 2003	4Q FY 2004
K-Area Sludge Land Application Site (761-4G)	4Q FY 2000	4Q FY 2003	1Q FY 2005
G-Area Oil Seepage Basin (761-13G)	1Q FY 2001	1Q FY 2003	2Q FY 2004
Hydrofluoric Acid Spill (631-4G)	1Q FY 2001	1Q FY 2004	2Q FY 2005

M-Area Settling Basin Inactive Process Sewers to Manhole 1 (081-M)	2Q FY 2001	2Q FY 2004	3Q FY 2005
R-Area Burning/Rubble Pits (131-R, -1R)	3Q FY 2001	3Q FY 2004	4Q FY 2006
West of SREL "Georgia Fields" Site (631-19G)	4Q FY 2001	4Q FY 2004	1Q FY 2006
L-Area Rubble Pit (131-1L)	1Q FY 2002	1Q FY 2005	2Q FY 2006
R-Area Acid/Caustic Basin (904-79G)	2A FY 2002	2Q FY 2005	3Q FY 2006
Gunsite 218 Rubble Pile (631-28G)	3Q FY 2002	3Q FY 2005	4Q FY 2006
Par Pond Sludge Land Application Site (761-5G)	4Q FY 2002	4Q FY 2005	1Q FY 2007
F-Area Inactive Process Sewer Lines from Building to the Security Fence (081-1F)	1Q FY 2003	1Q FY 2006	2Q FY 2007
H-Area Inactive Process Sewer Lines from Building to the Security Fence (081-H)	2Q FY 2003	2Q FY 2006	3Q FY 2007
211-FB Pu-239 Release (081-F)	3Q FY 2003	3Q FY 2006	4Q FY 2007
Gas Cylinder Disposal Facility (131-2L)	4Q FY 2003	4Q FY 2006	1Q FY 2008
Par Pond (685-G)	1Q FY 2004	1Q FY 2007	2Q FY 2008
SRL 904-A Process Trench (904-A)	2Q FY 2004	2Q FY 2007	3Q FY 2008
L-Area Hot Shop (717-G)	3Q FY 2004	3Q FY 2007	4Q FY 2008

* The Milestone identified as ROD is deemed fulfilled upon the EPA and SCDHEC concurrence and DOE submittal of the signed Revision.0 (or subsequent revision) ROD.

EM U.S. Department of Energy
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Appendix F: Prioritization of Environmental Restoration Tasks

The Parties agree to use, as appropriate, the computer program "PREscore," to rank the work activities required by the Agreement in accordance with the provisions of Subsection B of Section XIX (Scoping Work Priorities) to the Agreement.

The EPA's Hazard Ranking System (HRS), Appendix A to the National Contingency Plan (40 CFR Part 300), is the principle mechanism for ranking potential adverse effects on the environment and relative potential human health risks attributable to CERCLA sites. The "PREscore" program is a computerized system of HRS ranking criteria and factors which, when applied to the known or suspected hazardous characteristics of a CERCLA site, will present a comprehensive Preliminary Ranking Evaluation Score (PREscore) for that site.

The PREscore for a given CERCLA site depends on the following types of information and characteristics:

Site History	Types of hazardous substances present, volumes of hazardous substances, methods of hazardous substances treatment and/or disposal.
Site Conditions	Surface soils types, surface water drainage patterns, groundwater relationships, and ecological systems present.
Site Field Data	Preliminary hazardous chemical specific characterization through limited sampling and analysis to determine the potential for: surface soil, surface water and groundwater contamination; adverse environmental impacts; and adverse future impacts.

The "PREscore" software determines the ranking of a given CERCLA site according to the following criteria:

- likelihood of release;
- hazardous waste characteristics;
- adverse effects to humans due to potential soil, surface water and groundwater exposure;
- potential environmental threats to sensitive ecosystems;
- potential threats to humans through food chain exposure; and
- natural resource damage potential.

The "PREscore Software Users Manual & Tutorial, Version 1, Publication 9345.1-04, September 1991" or the most current version will be utilized. The PREscore software and manual is available from:

United States Environmental Protection Agency
Office of Solid Waste and Emergency Response
Office of Emergency and Remedial Response
Hazardous Site Evaluation Division
Washington, DC 20460

In addition, a copy of the PREscore Software Users Manual & Tutorial will be available through the Administrative Record File for the Savannah River Site.

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Last Updated 07/03/1997 (mmj)

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Appendix G: Site Evaluation List

This appendix is comprised of two-listings:

G.I: Areas to be Investigated
A listing of those areas that will be investigated under the requirements set forth in Section X (Site Evaluations) of this Agreement.

G.2: Areas determined to Require No Further Response Action
A listing of those areas that have been investigated under the requirements set forth in Section X (Site Evaluations) of this Agreement and determined to require no further response action.

Conveyance systems, such as piping and NPDES Outfalls, that have or have had a potential for a release of a hazardous substance, will be investigated with the associated area.

Revision.0 Appendix G Site Evaluation Areas fro Fiscal Year 1996

G.1: Areas to be Investigated	
Building Number	**Name/Description**
080-20G	D-Area Asbestos Pit
080-25G	H-Area Erosion Control Site
080-26G	L-Area Erosion Control Site
080-27G	Substation 51 Erosion Control Site
080-28G	F- Area Erosion Control Site
080-30G	Gunsite 102 Rubble Pile
080-31G	Gunsite 072 Rubble Pile
105-C	C-Area Disassembly Basin
105-K	K-Area Disassembly Basin
105-L	L-Area Disassembly Basin
105-P	P-Area Disassembly Basin
105-R	R-Area Disassembly Basin
107-R	Cooling Water Effluent Sump
109-R	Purge Water Storage Basin
131-1C	C-Area Erosion Control Site
131-1P	P-Area Erosion Control Site

183-lR/186R	Concrete Lake (R-Area)
186/190-C	C-Area Reactor Cooling Water System
186/190-K	K-Area Reactor Cooling Water System
186/190-L	L-Area Reactor Cooling Water System
186/190-P	P-Area Reactor Cooling Water System
188-0C	C-Area Ash Pile
188-0K	K-Area Ash Pile
188-0L	L-Area Ash Basin
188-0P	P-Area Ash Basin
188-0R	R-Area Ash Basin
221-F	F-Area Separations Facilities and Associated Spills
221-H	H-Area Separations Facilities and Associated Spills
231-3F	F-Area Scrap Lumber Pile
241-F	F-Area Tank Farm
241-H	H-Area Tank Farm (Except Tank 16)
244-H	RBOF (Receiving Basin for Off-Site Fuels)
281-08F	F-Area Retention Basin
281-08H	H-Area Retention Basin
281-1H	H-Area Retention Basin
281-2H	H-Area Retention Basin
288-0F	F-Area Ash Basin
288-0H	H-Area Ash Basin
288-1F	F-Area Ash Basin
321-M	Underground Sump 321 M #001
321-M	Underground Sump 321 M #002
431-2D	D-Area Rubble Pit
488-1D	Area Ash Basin
488-2D	D-Area Ash Basin
631-15G	Gunsite 113 Rubble Pit
631-17G	Risher Road Open Metal Pit
631-2G	Central Shops Scrap Lumber Pile
631-7G	Miscellaneous Rubble Pile
631-8G	3G Pumphouse Erosion Control Site
678-T	Neutralization Sump
740-A	Salvage Yard
741-G	New Salvage Yard
761-1G	Lower Kato Road Site

761-2G	Orangeburg Site
761-3G	Lucy Site
761-8G	Second PAR Pond Site
772-1F	Spill on 4/24/91 of .11 Ci of Pu239
772-F	Low Level Radioactive Drain Lines
788-0A	A-Area Ash Pile
788-2A	A-Area Ash Pile
904-061G	P-Area Reactor Seepage Basin
904-062G	P-Area Reactor Seepage Basin
904-063G	P-Area Reactor Seepage Basin
904-64G	L-Area Reactor Seepage Basin
NBN	313-M and 320-M Inactive Clay Process Sewers to Tims Branch
NBN	Advanced Tactical Training Area (ATTA) Firing Ranges
NBN	Arsenic Treated Wood Storage Area
NBN	B-Area Sanitary Treatment Plant Rubble Pile
NBN	Central Shops Area of Concern
NBN	Ditch to Outfall H-12 (Tributary to Four Mile Creek)
NBN	Diversion Box - Radioactivity from 907-1H
NBN	F-Area Railroad Crosstie Pile
NBN	F-Area Sanitary Sludge Land Application Site
NBN	Groundwater, F-, H-, K-, P-Area Acid/Caustic Basin
NBN	Groundwater, R-Area
NBN	Gun Emplacement 407A & 407B Rubble Pile
NBN	Gunsite 012 Rubble Pile
NBN	H-Area Sanitary Sludge Land Application Site
NBN	K-Area of Concern
NBN	L-Area Scrap Metal and Wood
NBN	L-Lake
NBN	Meyers Mill Siding Rubble Pile
NBN	Miscellaneous Rubble at Dunbarton
NBN	Old R-Area Discharge Canal
NBN	Parking Lot Type Lights on Wilson Road
NBN	Patterson Mill Road Rubble Pile
NBN	Pile of Telephone/Light Poles
NBN	Pond B Dam Rubble Pile
NBN	Potential Release of Caustic/HNO_3 from 312-M
NBN	Potential Release of Diesel Fuel and Benzene from 730-M

NBN	Potential Release of $NaOH/H_2SO_4$ from 183-2L
NBN	Potential Release of $NaOH/H_2SO_4$ from 183-2R
NBN	Potential Release of $NaOH/H_2SO_4$ from 280-lF
NBN	Potential Release of TCT, TET TCE, HNO_3, U, Heavy Metals from 321-M Abandoned Sewer Line
NBN	Process and Sewer Lines as Abandoned Spill on 03/15/79 of 500 Gal of Contaminated Water (NBN)
NBN	Reactor Areas Cask Car Railroad Tracks as Abandoned
NBN	Recreation Area #002 Rubble Pile
NBN	Risher Road Rubble Pile
NBN	Risher Road Rubble Pile #2
NBN	Road 3 Foundation Rubble Pile
NBN	Road 9 at Gate 23 Rubble Pile
NBN	Road 9 Rubble Pile
NBN	Robbins Station Road Rubble Pile
NBN	Rubble Pile Across From Gunsite 012
NBN	Rubble Pile North of SRL
NBN	S-Area Erosion Control Site
NBN	Sandblast Areas
NBN	Silverton Road Waste Tank Plugs
NBN	Small Arms Training Area (SATA)
NBN	Stadia Lights with Poles
NBN	Steed Pond
NBN	Stormwater Outfall A-002
NBN	Stormwater Outfall A-024
NBN	Stormwater Outfall H-013
NBN	Stormwater Outfall K-011
NBN	Stormwater Outfall L-012
NBN	Stormwater Outfall P-010
NBN	TCU Rubble Pile
NBN	Un-Numbered Gun Emplacement Rubble Pile
NBN	K-Area Tritium Anomaly
NBN	Three Rivers Sanitary Landfill
NBN	X-001 Outfall Drainage Ditch
NBN	Combined Spills from 105-C, 106-C and 109-C
NBN	Combined Spills from 105-K, 106-K, and 109-K
NBN	Combined Spills from 105-P, 106-P, and 109-P

NBN	Combined Spills from 105-R, 106-R and 109-R
NBN	Combined Spills from 183-2C
NBN	Combined Spills from 183-2K
NBN	Combined Spills from 183-2P
NBN	Combined Spills from 211-H
NBN	Combined Spills from 241-84H
NBN	Combined Spills from 241-H (H-Area Tank Farm)
NBN	Combined Spills from 242-F
NBN	Combined Spills from 242-H
NBN	Combined Spills from 483-D and Associated Areas
NBN	Combined Spills from 643-G
NBN	Combined Spills from 672-T
NBN	Combined Spills from 674-T (Boneyard)
NBN	Combined Spills from 679-T
NBN	Combined Spills from 701-1F Spill
NBN	Spill of <1/2 lb Mercury in Bldg. 232-H
NBN	Spill of 218 Grams Mercury Adjacent to Bldg. 780-2A
NBN	Spill on 05/01/56 of Unknown of Retention Basin Pipe Leak
NBN	Spill on 01/01/57 of <1 Ci of Beta Gamma
NBN	Spill on 01/01/57 of <1 Ci of Beta Gamma
NBN	Spill on 02/01/57 of Unknown of Seepage Basin Pipe Leak from 904-44G
NBN	Spill on 05/01/57 of 125 Ft_2 of Rad Liquid from Solvent Trailer
NBN	Spill on 01/01/59 of Unknown of Seepage Basin Pipe Leak Between 904-42G and 904-43G
NBN	Spill on 06/01/59 of <1 Ci of Segregated Solvent from 211-F
NBN	Spill on 03/01/66 of 500 Sq Ft of Flush Water - Rad
NBN	Spill on 02/01/69 of Unknown of Waste Tank Spill
NBN	Spill on 05/01/71 of Unknown of Seepage Basin Pipe Leak
NBN	Spill on 10/01/71 of 100 Sq Ft of Flush Water - Rad
NBN	Spill on 12/01/71 of 1000 Gal of Rad Water from 773-A
NBN	Spill on 05/08/75 of 50 Gal of Waste Water - Rad
NBN	Spill on 05/23/75 of 3 Gal of Waste Water - Rad
NBN	Spill on 06/26/75 of 250 Cu Ft of Rad Contaminated Soil
NBN	Spill on 10/13/75 of 1200 Gal of PCE
NBN	Spill on 04/07/76 of 200 Gal of 50% Nitric Acid
NBN	Spill on 01/01/78 of 50 Gal of 50% Sodium Hydroxide
NBN	Spill on 01/01/78 of 600 Lbs of 50% Sodium Hydroxide

NBN	Spill on 02/08/78 of Unknown of H-Area Process Sewer Line Cave-In
NBN	Spill on 03/08/78 of Unknown of Seepage Basin Pipe Leak In H-Area Seepage Basin
NBN	Spill on 05/30/78 of Unknown of Sump Overflow
NBN	Spill on 09/25/78 of Unknown of Diversion Box Overflow from 281-1H
NBN	Spill on 06/06/79 of <1 Gal of Contaminated Liquid
NBN	Spill on 07/21/79 of Unknown of Acid in D-Area
NBN	Spill on 01/01/80 of 5600 lb of 50% Nitric Acid
NBN	Spill on 01/12/80 of <5 Gal of Waste Water Rad
NBN	Spill on 01/19/80 of Unknown of Chromated Water from H-Area Pump House
NBN	Spill on 03/27/80 of 3 Gal of Nitric Acid
NBN	Spill on 04/18/80 of Unknown of Chromated Water from Valve House 3
NBN	Spill on 01/01/81 of l00 lbs of Uranyl Nitrate
NBN	Spill on 01/01/81 of 200 Gal of 34% Aluminum Nitrate
NBN	Spill on 04/14/81 of 3 Gal of Contaminated Flush Water
NBN	Spill on 05/12/81 of 400 lb of Hydrogen Sulfide
NBN	Spill on 05/28/81 of 9000 Gal of Chromated Water
NBN	Spill on 10/16/81 of 30 Gal of Low Level Waste from Trailer
NBN	Spill on 11/10/81 of 500 Gal of Chromated Water from 243-H
NBN	Spill on 12/02/81 of 800 lb of Hydrogen Sulfide
NBN	Spill on 04/23/82 of 4800 Gal of Acid Solution
NBN	Spill on 05/24/82 of 10 Gal of 31.5% Acid Acid from 183-P
NBN	Spill on 01/19/83 of 1000 Ft^2 of Radioactive Spill
NBN	Spill on 02/01/83 of 50 Gal of Oil - Rad
NBN	Spill on 09/08/83 of ~10 Gal of Fine-Organic #101 from 8307Z
NBN	Spill on 10/08/83 of 800 Gal of Low Level Water Near 105-C
NBN	Spill on 02/12/84 of 200 Gal of Tritiated Water in C-Area
NBN	Spill on 05/21/84 of 20 Gal of Sodium Hydroxide
NBN	Spill on 05/24/84 of 550 Gal of Simulated Salt Solution, Pizzolith 122R in 643-7G
NBN	Spill on 06/18/84 of 40-50 Gal of Chromated Water from 221-F
NBN	Spill on 06/28/84 of 100 Gal of Chilled Water
NBN	Spill on 07/11/84 of 4 Gal of Process Solution
NBN	Spill on 09/21/84 of 200 Gal of Water - Rad
NBN	Spill on 01/01/85 of 15 Gal of 6% Potassium Permanganate
NBN	Spill on 01/01/85 of 3 Gal of Aluminum Nitrate
NBN	Spill on 02/06/85 of 50 Gal of Caustic
NBN	Spill on 02/20/85 of 1 1/2 Qt of Acid Mixture from S-Area Trailer S-16

NBN	Spill on 02/25/85 of 20000 CM of Water Vapor - Rad
NBN	Spill on 02/28/85 of 5-10 Gal of 64% Nitric Acid from 221-F
NBN	Spill on 04/01/85 of 25 ml of Sulfuric Acid
NBN	Spill on 05/01/85 of 1 Gal of Alcohol from 779-A
NBN	Spill on 05/02/85 of 10 Gal of Cooling Water from Tank Farm
NBN	Spill on 05/09/85 of 375 Gal of Process Water from 106-P
NBN	Spill on 05/14/85 of 1/2 Pint of Mercury near 284-F
NBN	Spill on 05/21/85 of 20 Gal of Acid Acid from S-Area
NBN	Spill on 08/29/85 of 500 gm of Uranyl Nitrate
NBN	Spill on 09/01/85 of <1 lb of Mercury from 748-A
NBN	Spill on 09/04/85 of 1 1/2 Gal of Nitric Acid
NBN	Spill on 10/07/85 of 1 Gal of Nitric Acid at Barricade 10
NBN	Spill on 10/09/85 of 15 Gal of Aropol from 690-G
NBN	Spill on 11/22/85 of Unknown of Chromated Water from Between 702-A and 708-A
NBN	Spill on 12/17/85 of 2 Gal of Phosphoric Acid
NBN	Spill on 01/01/86 of 2 Gal of 50% Sodium Hydroxide
NBN	Spill on 01/19/86 of Unknown of Plating Solution
NBN	Spill on 01/29/86 of <5 Gal of Water Rad from 106-1C
NBN	Spill on 03/04/86 of 5 Gal of 50% NaOH from 341-M
NBN	Spill on 03/07/86 of 10 Gal of Acid
NBN	Spill on 03/08/86 of 1/2 Pint of Water - Rad
NBN	Spill on 03/08/86 of 6 Gal of Caustic
NBN	Spill on 03/08/86 of l0 Gal of Nitric Acid
NBN	Spill on 03/20/86 of <1 Gal of Water Rad
NBN	Spill on 05/22/86 of 2 Gal of 50% Sodium Hydroxide
NBN	Spill on 05/27/86 of 2 Gal of Nitric Acid
NBN	Spill on 06/03/86 of 5 Gal of Neutralization System Water
NBN	Spill on 06/26/86 of 1 Gal of Tritiated Waste Oil from 110-P
NBN	Spill on 08/18/86 of 20 Gal of Water - Rad
NBN	Spill on 09/10/86 of 1 Gal of Water - Rad
NBN	Spill on 01/01/87 of 5 Gal of 50% Sodium Hydroxide
NBN	Spill.on 01/01/87 of Unknown of Potassium Permanganate
NBN	Spill on 01/07/87 of 20 Gal of Caustic
NBN	Spill on 01/12/87 of <100 gm of Mercury North of 211-H
NBN	Spill on 02/25/87 of 2 Liter of Sulfuric Acid Between 704-8F and 703-F Parking Lot
NBN	Spill on 03/11/87 of 1 Gal of Caustic

NBN	Spill on 03/28/87 of <15000 Gal of Chromated Water from 241-24H
NBN	Spill on 03/30/87 of 15 Gal of Acidic Water
NBN	Spill on 04/01/87 of <5 Gal of Cr III Ligno Sulfonate
NBN	Spill on 04/15/87 of 950 Gal of Chromated Water from 772-F
NBN	Spill on 04/25/87 of 15 Gal of Water- Rad
NBN	Spill on 05/01/87 of 100 Gal of Water from 300-M
NBN	Spill on 05/04/87 of 30 Gal of Caustic from 295-H
NBN	Spill on 05/19/87 of 1 Gal of 50% Sodium Hydroxide
NBN	Spill on 06/16/87 of ~1 Gal of Water - Rad
NBN	Spill on 08/31/87 of <100 Gal of Bromocide Soln from 607-14D
NBN	Spill on 09/20/87 of Unknown of Water - Rad
NBN	Spill on 09/28/87 of <30 Gal of Bromocide Soln from 607-22P
NBN	Spill on 11/21/87 of 170 Gal of KOH, SMBS, $NaPO_4$, from 784-A
NBN	Spill on 03/08/88 of <1 Qt of 64% Nitric Acid at Brcd. 1
NBN	Spill on 03/17/88 of <1 Gal of Sulfuric Acid
NBN	Spill on 03/30/88 of 15 Gal of Acidic Water
NBN	Spill on 05/26/88 of 10 Gal of Ethylene Glycol-Rad from 772-F
NBN	Spill on 07/05/88 of 2 Pint of 64% Nitric Acid in F-Area
NBN	Spill on 11/24/89 of 10 mCi of Cs-137 from 254-8H

G.2: Areas Determined to Require No Further Response Action	
Building Number	**Name/Description**
080-0lR	R-Area Asbestos Pit
080-21G	C-Area Asbestos Pit
080-22G	C-Area Asbestos Pit
080-29G	Gunsite 051 Rubble Pile
131-2R	R-Area Rubble Pit
188-1C	C-Area Ash Pile
188-2C	C-Area Ash Pile
631-llG	Rubble Pile - Cemetery Road
631-12G	Rubble Pile - Bragg Bay Road and Cemetery Road
631-13G	Rubble Pile - Road 781.1
631-14G	Rubble Pile - Bragg Bay Road
631-18G	Scrap Metal Pile
631-26G	L-Area Rubble Pile
631-9G	SRFS Rubble Pile
761-0G	40 - Acre Hardwood Site

761-6G	Kato Road Site
761-7G	Road F Site
761-9G	SREL Rubble Pile
NBN	B-Area Tower Foundation
NBN	D-F Steamline Erosion Control Site
NBN	DWPF Concrete Batch Plant
NBN	Fire Training Pit at 709-1F
NBN	H-Area Burning Pit
NBN	Imhoff Tank Rubble Pile
NBN	Miscellaneous Trash at Snapp
NBN	Old Ellenton Rubble Pile
NBN	Rubble Pile Near Junction US 278 & GE Road 103
NBN	TNX Rubble Pile
NBN	Spill on 01/12/53 of 1/2 Ton of Uranyl Nitrate
NBN	Old Still Site
NBN	Spill of 03/15/79 of 500 Gallons of Contaminated Water
NBN	Zion Fair Church Site

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Appendix H: RCRA Regulated Units List

This appendix is a listing of the RCRA Regulated Units.

Unit Name	Building Number(s)
723-A MET LAB BASIN/CAROLINA BAY	904-110G
ACID/CAUSTIC BASINS, F-, H-. K-, AND P-AREAS*	904-74G, 904-75G, 904-78G 904-80G
BURIAL GROUND SOLVENT TANKS (S23 - S30)	NBN
DWPF ORGANIC STORAGE TANK	430-S
F-AREA HAZARDOUS WASTE MANAGEMENT FACILITY	904-41G, 904-42G, 904-43G
H-AREA HAZARDOUS WASTE MANAGEMENT FACILITY	904-44G, 904-45G, 904-46G, 904-56G
HAZARDOUS WASTE STORAGE BUILDINGS (Including Solid Waste Storage Pads)	709-G, -2G, -4G, 710-U
LOW LEVEL RADIOACTIVE WASTE DISPOSAL FACILITY (RCRA Regulated Portions)	
M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY	904-5lG, 904-112G
M-AREA INTERIM TREATMENT/STORAGE FACILITY	341-M
MIXED WASTE HAZARDOUS WASTE MANAGEMENT FACILITY	643-28G
MIXED WASTE STORAGE BUILDING	643-29G
MIXED WASTE STORAGE BUILDING	643-43G
MIXED WASTE STORAGE TANK (S-32)	643-29G
NEW TNX SEEPAGE BASIN	904-102G
SANITARY LANDFILL*	740-G
SRL MIXED WASTE STORAGE TANKS	
SRL SEEPAGE BASINS*	904-51G1, 904-53G2, 904-54G, 904-55G
TRU WASTE STORAGE PADS 1 - 6	NBN
TRU WASTE STORAGE PADS 7 - 17	NBN

* NRDC Lawsuit Units to be managed in accordance with Consent Decree Requirements.

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Appendix I: Primary Document Review/Comment and Revision Schedule

Revision O. Primary Document	Activity	Period (Days)
Appendix C, RCRA/CERCLA Units List	EPA/SCDHEC Review DOE Revise	120 90
Appendix G. Site Evaluation List	EPA/SCDHEC Review DOE Revise	120 90
Baseline Risk Assessment Report	EPA/SCDHEC Review DOE Revise	90 60
CMS/FS Report	EPA/SCDHEC Review DOE Revise	90 60
Community Relations Plan	EPA/SCDHEC Review DOE Revise	120 90
Corrective Measure/Remedial Design Work Plan	EPA/SCDHEC Review DOE Revise	45 30
Corrective Measures/Remedial Design Report	EPA/SCDHEC Review DOE Revise	90 60
Corrective/Remedial Action Work Plan	EPA/SCDHEC Review DOE Revise	60 30
Final Remediation Report	EPA/SCDHEC Review DOE Revise	90 60
Operable Units List	EPA/SCDHEC Review DOE Revise	120 90
Post-Construction Report	EPA/SCDHEC Review DOE Revise	60 30
Proposed Plan	EPA/SCDHEC Review DOE Revise	45 30
Record of Decision	EPA/SCDHEC Review DOE Revise	45 30
RFI/RI Report	EPA/SCDHEC Review DOE Revise	90 60
RFI/RI Work Plan	EPA/SCDHEC Review DOE Revise	120 90

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Appendix J: Revision.1, Data Management Plan

This appendix is the Data Management Plan that describes the requirements for the transference of analytical data from the DOE to EPA and SCDHEC under the terms of Section XXIX (Quality Assurance/ Sampling Availability/Data Management) of this Agreement.

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1.0 Introduction
2.0 Data Qualification
3.0 Data Documentation
4.0 Reporting and Storage of New Data
5.0 Data Access
6.0 Base Maps
7.0 Pilot Project
8.0 Finalization
9.0 Transfer of Information to Outside Parties
Abbrevations, Definitions, and Acronyms
Environmental Protection Agency - Region IV Interchange File Format for Electronic Data Reports

1.0 Introduction

This document is the Data Management Plan which fulfills the requirements of Subsection C of Section XXIX of the Federal Facility Agreement (FFA) between the United States Department of Energy (DOE), South Carolina Department of Health and Environmental Control (SCDHEC), and the United States Region IV Environmental Protection Agency (EPA). This plan outlines the manner in which the Savannah River Site (SRS) qualifies, documents, reports, stores and accesses analytical data that will be collected for units listed in FFA Appendix C, RCRA/CERCLA Units in support of the RCRA Facility Investigation/Remedial Investigation (RFI/RI) Report, Baseline Risk Assessment Report, Corrective Measures/Feasibility Study (CMS/FS) Report, or Treatability Study Report. It also describes the method for transmitting this required data electronically to the EPA and SCDHEC. The Plan provides guidance on expected data presentation to both generators and users of the data.

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2.0 Data Qualification

Each RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report will present the analytical data that was generated and will describe the criteria used to select data presented as well as data used for computations. The report will explain how the contaminants of concern were selected as well as any known uncertainties. Upper and lower bounds on uncertainties will be included, if available. Each report will document quality levels of all data used to generate conclusions.

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3.0 Data Documentation

Each RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report will include documentation describing the source of all analytical data used to generate conclusions. Documentation will be sufficient to allow the reader to locate a copy of any source document used, including its full title, author, publication date, publisher, document number, and version number if applicable. Data that must be documented include, but are not limited to, all information regarding the following:

Sampling Protocols	includes station locations and collection methods
Analytical Protocols	includes analytical method used, laboratory Quality Assurance/Quality Control (QA/QC) data, evidence for analytical errors, or excessive detection limits
Geographic Data	includes base maps, meteorological data, soil type maps, surface water bodies, and roads, buildings and other anthropogenic alterations
Geologic Data	includes both surface and subsurface structure and properties, and hydrologic properties, such as groundwater flow rates and direction of flow
Contaminant Data	includes both contaminant fate and transport properties
Historic Data	includes process knowledge, relevant operations, and construction activities
Ecological Data	includes surveys of both flora and fauna

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4.0 Reporting and Storage of New Data

Analytical data developed after the effective date of August 16, 1993 for a RCRA/CERCLA Unit listed in Appendix C of the FFA are maintained on computer-readable media. The master copy of the computer-readable medium will be protected from damage or destruction from the following sources: changes by users, fire, or computer failure. Each RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report that uses data from an electronic database will document how a user can access and interpret the computer-readable files (referencing another document containing explicit user directions is adequate).

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5.0 Data Access

5.1 Request for Data

For each RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report the analytical data generated for that report will be provided, in hard copy, with the Report. One electronic copy of the data will be delivered to the EPA and the SCDHEC within 30 days of the EPA and SCDHEC receipt of the Report. The data will be delivered in

the required format (as described below) and will contain information about actual samples and chemical analyses of samples.

The EPA and SCDHEC may request electronic copies or hard copy printouts of other numerical data in addition to that supplied with a RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report. Requests for data should be made directly to the DOE FFA Project Manager. The request must include the requesting individual's name, address, and organization name and must also adequately describe the data requested to insure transmittal of the proper dataset. Referencing a specific report (including the report name and document number and revision number) is necessary to insure receipt of the requested data.

5.2 Data Format

DOE will deliver the requested or required data to the EPA and SCDHEC in the EPA-Region IV's *Interchange File Format for Electronic Data Reports* (IFF). The data will be composed of 4 separate ASCII data files per data type: Station.dat, Well.dat, Sample.dat and Parm.dat, as described in the EPA-Region IV's *Interchange File Format for Electronic Data Reports* (IFF, Page 1-9). Data types may include groundwater, soils, RCRA/CERCLA unit, etc. The EPA, SCDHEC, and DOE recognize that the IFF was developed by EPA-IV for use by all facilities within Region IV. As such, the Parties recognize that data values or fields requested in the IFF may not be applicable to the SRS. The DOE will, in the instances where data values or fields requested are not applicable, specify, in writing, those fields and values. In addition, DOE will indicate on the electronic copy, the values or fields that are not applicable.

The EPA will notify the DOE Project Manger, in writing, of any revision to the IFF or its supercedence. The DOE will, within 60 days of the receipt of the written notification, provide the electronic data in the revised or superseded IFF format for those reports submitted or scheduled for submittal 60 days after the receipt of the written notification.

5.3 Schedule for Delivery of Data

For each RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report the analytical data generated for that report will be provided, in hard copy, with said Report. One electronic copy of the data will be delivered to the EPA and SCDHEC within 30 days of the EPA and SCDHEC receipt of the Report. The data will be delivered in the required format (as described above) and will contain information about actual samples and chemical analyses of samples.

5.4 Data Dictionary

EPA, SCDHEC, and SRS recognize that each RFI/RI Report, Baseline Risk Assessment Report, CMS/FS Report, or Treatability Study Report is unique and may require the collection of data that is unique to an individual RCRA/CERCLA Unit or Operable Unit. SRS will define the unique fields and their use upon delivery of the data. DOE will provide a functional data dictionary with the transmission of electronic data for each individual report submitted.

5.5 Available Media

DOE will deliver the electronic data on 3.5" high-density floppy disks in IBM format or on appropriate media for file size. DOE shall notify the EPA and SCDHEC, in writing, of any proposed change to this format and the projected date of the implementation of the change. The EPA and SCDHEC will notify the DOE, within 30 days of the receipt of the notification, of their position on the proposed change in format. Failure of EPA or SCDHEC to respond to the proposed change within 30 days of their receipt will be deemed to constitute concurrence with the requested format change.

SRS is working to have computer capabilities outside of the SRS secured network in order to facilitate the transfer of data over the Internet. This accomplishment would result in faster and more efficient data transfer.

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6.0 Base Maps

DOE will provide to EPA and SCDHEC one set of Base Maps that will contain, at a minimum, the following information on Site facility areas:

- location of water lines
- location of groundwater wells
- location of steam lines
- location of primary and secondary roads
- location of buildings
- location of streams, lakes, ponds
- location of RCRA/CERCLA Units
- permanent sample locations
- a separate site boundary layer

When requested, transfer of spatial data will utilize the Spatial Data Transfer Standard.

Maps developed by SRS for primary and secondary documents are currently done using ARC/Info and Intergraph MicroStation and MicroStation Geographic Environment (MGE) software. Basemaps which cannot be provided compatible with ARCView, and lacking attribute data can be exchanged using the AutoCad "DXF" format for pure graphics transfer. Basemaps with attribute data will be transferred using the Spatial Data Transfer Standard wherever possible. If requested by EPA and SCDHEC, SRS will supply files in the ARC/Info export format or the MicroStation format graphics files. The MicroStation graphics format is a published file format, and direct translators can be written to import data from it.

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7.0 Pilot Project

EPA, SCDHEC, and DOE agree to execute a pilot project to assure that future submittals of electronic data meet the needs of the three Parties. The analytical data generated in support of the following three reports will be utilized:

Data Summary Report for the D-Area Burning/Rubble Pits. WSRC-RP-94-709, Rev.0: October, 1994.

RCRA Facility Investigation/Remedial Investigation Report for the D-Area Burning/Rubble Pits. WSRC-RP-94-707, Rev.0: October, 1994.

Baseline Risk Assessment for the D-Area Burning/Rubble Pits. WSRC-RP-94-708, Rev.0: October, 1994.

DOE will provide the EPA and SCDHEC by February 15, 1995:

- Electronic data generated for these reports on 3.5" high-density floppy disks in IBM format.
- The data will be formatted in the EPA-Region IV's *Interchange File Format or Electronic Data Reports*.
- A data dictionary

EPA and SCDHEC will, within 30 days of the receipt of the above, submit in writing, their comments on the deliverables or acceptance of the data. Within 30 days of the receipt of both the EPA and SCDHEC comments the DOE will respond to the comments and resubmit the above. This cycle will continue until the EPA and SCDHEC submit a letter accepting the format and deliverables.

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8.0 Finalization

Within 60 days of the receipt of the EPA and SCDHEC written approval the DOE will provide analytical data in the agreed upon format for RFI/RI Reports, Baseline Risk Assessment Reports, CMS/FS Reports, or Treatability Study Reports that are submitted or scheduled for submittal 60 days after that receipt date.

Within 60 days of the receipt of the EPA and SCDHEC written approval DOE will revise and issue this Plan to reflect the protocol agreed to by the three Parties. In accordance with Section XXIX DOE will initiate a modification to the FFA to replace the existing Appendix J with the revised Plan.

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9.0 Transfer of Information to Outside Parties

All materials transmitted under the terms of this Data Management Plan are for the express use of the EPA, SCDHEC, and DOE. EPA and SCDHEC may not release or provide any materials, including, but not limited to Base Maps, electronic data, and floppy disks to an individual or party not employed by any of the three Parties without the written consent of the DOE.

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Abbreviations, Definitions and Acronyms

RFI/RI	RCRA Facility Investigation/Remedial Investigation
CMS/FS	Corrective Measures Study/Feasibility Study
FFA	Federal Facility Agreement
DOE	Department of Energy
EPA	Environmental Protection Agency
SCDHEC	South Carolina Department of Health and Environmental Control
QA/QC	Quality Assurance/Quality Control
IBM	International Business Machines

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Environmental Protection Agency - Region IV Interchange File Format (IFF) for Electronic Data Reports.

The Interchange File Format

United States Environmental Protection Agency, Region IV

Change Page
1st Issue - Beta Version of Documentation for Version 1.0 of the Interchange File Format September 11, 1995

Introduction

The United States Environmental Protection Agency (EPA), Region IV has developed and supports the use of a standard data structure for submission of data related to environmental investigations. The IFF consists of two parts; a) the structure and b) the data element dictionary. The structure presents the length, location and characteristics of each data element in the data set. The data element dictionary presents the definition of each data element.

The minimum set of files required to provide IFF data are the STATION, the SAMPLE and the PARAMETRIC files. These files provide the X and Y location for samples, the Z location, if required, the date and time of sampling and the results of that sample. Additional files record specific sampling events such as well installation, biota sampling, and field measurements. Currently only the WELL installation file is completed.

It is important to recognize that the IFF represents the structure that the EPA wishes to receive data. The IFF is not intended to replace data generator formats. At this time EPA is promoting development of "translator" programs to convert data from several other standard formats into the IFF.

We actively solicit comments on the IFF. You may call us with questions or comments at:

Richard Hammond
(404) 347-3016
hammond.richard@epamail.epa.gov

Phyllis Mann
(404) 347-3402
Pg01@r4sparc1.r04.epa.gov

Data Submission Requirements

Data will be transported as a set of ASCII files:

STATION.DAT - contains basic information about monitoring station location and type.

SAMPLE.DAT - contains basic information about the collection and characteristics of samples.

PARM.DAT - contains measured values and reporting units for specific parameters.

WELL.DAT - contains detailed information about construction and characteristics of groundwater monitoring stations.

CAS.DAT (if required) - contains CASCODE and CASNAME of compounds or analytical analyses that are not specified in the CAS numbering system. See PARM.DAT, Field 1, 43-54.

The first line of EACH file MUST contain the following text starting in position one: 19901001 {HRt} This text identifies the IFF version number.

These files are to be transmitted in ASCII format using 3.5 inch disk, 8mm tape, or via communications channels yet to be defined. HARDCOPY REPORTING REQUIREMENTS DO NOT CHANGE UNLESS SPECIFICALLY NEGOTIATED BETWEEN THE DATA GENERATOR AND THE USEPA.

Several of these files will contain data that is usually static in nature. For example, the basic information contained in STATION.DAT will not normally change for any single station. Therefore once the data has been submitted for a particular station, it will not be required to resubmit that information. If, however, the station record is updated or corrected the record would have to be resubmitted. After the initial report, STATION.DAT, for example, would be submitted only when new stations are created, or when an old station record is modified. Subsequent submissions only need to contain the new or modified records.

For each file described in the appendices, all fields must be reported. The null, or "no data" value for all fields is the pound sign (#) and must appear in the first column position of its field if the field is null. Field values may be listed one per line in the export file with a hard return at the end of each line, or multiple values may be reported on a single line, provided that field values are reported in the specified order, and each value is terminated by a comma (,).

Lines containing multiple values may not exceed 80 characters in length, including the delimiters. Since the comma is used as a delimiter for data values, the values themselves may not contain any comma, even though the value may be a text stream.

DO NOT CREATE LINES LONGER THAN 80 CHARACTERS! EVEN THOUGH LONGER RECORDS MAY APPEAR TO LIST PROPERLY ON SCREEN, LINES LONGER THAN 80 CHARACTERS WILL NOT BE ACCEPTED BY THE IFF POST PROCESSOR!

Generally, throughout the IFF, codes that are not provided in the data dictionary can be utilized. However, a definition of those codes must be presented in the data package. Specifically, an

additional file, the CAS.DAT file may be required.

When the OTHER option is selected, an explanation of the value for OTHER shall be included in the COMMENTS field and/or the metadata package.

Datafile STATION.DAT

field No	field Name	field Description
1	STATION_KEY	Unique station identifier. Consists of a fixed length, twenty-seven character alphanumeric field, left justified, containing:

Column:	Description:
1-12	Unique site identifier as assigned by EPA. Must be alphanumeric.
13-17	Unique solid waste management unit designator. Must be alphanumeric.
18	Media status indicator. Must contain one of the following: C - Compliance monitoring station B - baseline monitoring station A - other ambient monitoring station.

{This field is not as relevant in CERCLA studies. It defaults to A.}

19 - 27	Unique station identifier. Must be alphanumeric. The naming convention recommended for stations is as follows:

TABLE 1
STATION IDENTIFIERS

STATION CODE	STATION TYPE
MW	Monitoring Well
BH	Bore hole
TP	Test pit
SS	Split spoon
SR	Surface soil
SED	Sediment

2 TYPE Type of monitoring station. Consists of a four character alphanumeric field, left justified, containing one of the following:

TABLE 2
SAMPLE MEDIA

IFF CODE	SAMPLE MEDIA
AIR	Air
SOIL	Soil
GW	Groundwater
SED	Sediment
SW	Surface Water
SLDG	Sludge
O	Other

{Values that do not appear in TABLE 1 may be included, but an explanation of the meaning of the value must be provided in the metadata package. For example, a sample of oil and water could be placed in this field as OH20. An entry within the metadata package would be "Values for TABLE 1-0H20 = oil/water".}

3 LATITUDE Geographic position of the station in degrees north of the equator. Must be in the format DDMMSS.xxxx, where DD represents degrees, MM represents minutes, and Ssxxxx represents seconds, with available precision to four decimal places.

4 LONGITUDE Geographic position of the station in degrees west of the Prime Meridian. Must be in the format DDDMMSS.xxxx, where DDD represents degrees, MM represents minutes, and SS.xxxx represents seconds, with available precision to four decimal places.

{Currently, EPA assumes that all sites are located on the North American continent. Therefore, a negative sign is not required in the LONGITUDE field. Should a locational system other than lat/long be reported, all pertinent data to transform that system into lat/long shall be provided in the metadata package.

5 LSDAT Elevation in feet of land surface at the location of the monitoring station relative to a Site Reference Elevation. Must be a DECIMAL NUMERIC field with a maximum of twelve characters (including the decimal point) and may have up to two digits after the decimal point. (See Figure 1)

{Preferably, the Site Reference Elevation will be an established USGS benchmark.)

6 RFDAT Elevation in feet (above land surface) of the point from which water level and sampling measurements are taken. DECIMAL NUMERIC field with a maximum of twelve characters (including the decimal point) and may have up to two digits after the decimal point. (See Figure 1)

7 CONDT Date construction of the station was completed. Eight character integer field consisting of:

Columns	Content
1-4	year including century, e.g. 1989
5-6	numeric month

		7-8 numeric day of month
		Column numbers are relative to the beginning of the CONDT Field. Each subfield described above must be right justified, and may contain leading zeros.
8	ACCUR	Estimated accuracy for the reported latitude and longitude, in meters. DECIMAL NUMERIC field with a maximum of six characters (including the decimal point) and may have up to two digits after the decimal point.
9	LLMETH	One character alphanumeric field which indicates the method used to determine the latitude and longitude. Contains one of the following:

TABLE 3
LATITUDE/LONGITUDE DETERMINATION

IFF CODE	DEFINITION
C	Calculated from map
D	Digitized from a map
G	Global Positioning
L	Loran-C
U	Unknown
S	Survey
O	Other method not listed

10	OMETH	Any method for which there is no code. This field consists of 32 character ALPHANUMERIC field, left justified. This field is REQUIRED if "O" is entered in the method field above.
11	COMMENT	Any additional information the user feels necessary, which may not be accommodated in a defined field. Must be ALPHANUMERIC consisting of up to 40 characters.

Datafile STATION.DAT

field No	field Name	field Description
1	STATION_KEY	Unique station identifier. Consists of a fixed length, twenty-seven character alphanumeric field, left justified, containing:

Column:	Description:
1-12	Unique site identifier as assigned by EPA. Must be alphanumeric.
13-17	Unique solid waste management unit designator. Must be alphanumeric.
18	Media status indicator. Must contain one of the following: C - Compliance monitoring station B - baseline monitoring station A - other ambient monitoring station.
19-27	Unique station identifier. Must be alphanumeric.

		28-42 Unique sample identifier. Must be alphanumeric.
2	DELTH	Vertical displacement (in feet) of sample from the reference elevation (RFDAT) of the sampling station. For surface water, soils, and groundwater stations this would be the depth of the sample and for air monitoring stations, the height above ground. Must be DECIMAL NUMERIC consisting of a maximum of six characters (including the decimal) and may have up to two digits after the decimal point. (See Figure 1)
3	DATE	Date of sample collection. Eight character integer field consisting of:

Columns	Content
4	year including century, e.g. 1989
5-6	numeric month
7-8	numeric day of month

Each subfield described above must be right justified, and may contain leading zeros.

4	TIME	Time (in military format) of sample collection INTEGER NUMERIC consisting of four characters.
5	SSTAT	Station status or condition. Used primarily for groundwater monitoring stations. ALPHANUMERIC consisting of one character. The character must be one of the following:

TABLE 4
SAMPLE CONDITION

IFF CODE	DEFINITION
D	Drying
F	Flowing
B	Obstructed
P	Pumping
W	Destroyed
X	Surficial inflow
O	Other

6	TEMP	Sample temperature in degrees Celsius. DECIMAL NUMERIC consisting of six characters (including the decimal) and may have up to two digits after the decimal point.
7	PH	Sample pH in standard units. DECIMAL NUMERIC consisting of four characters (including the decimal) and may have one digit after the decimal point.
8	COND	Specific Conductance in uMhos. INTEGER NUMERIC consisting of a maximum of six characters.
9	TURB	Turbidity. INTEGER NUMERIC consisting of a maximum of eight characters. May be reported in JTU or NTU, as required by program.

10	WLEVEL	Well water level, or stream gage height, in feet. Measured relative to the reference datum. Item is DECIMAL NUMERIC consisting of a maximum of six characters (including the decimal) and may have up to two digits following the decimal point.
11	WINDSP	Wind speed in km/in. DECIMAL NUMERIC consisting of a maximum of six characters (including the decimal), and may have up to two digits after the decimal point.
12	WINDIR	Wind direction in degrees. INTEGER NUMERIC consisting of a maximum of four characters.
13	SAMMETH	Method used to collect sample. ALPHANUMERIC field, left justified, consisting of up to 20 characters.
14	SAMPLER	Name of Agency of Organization that collected the sample. Must be ALPHANUMERIC consisting of up to 20 characters.
15	COMMENT	Any additional information the user feels necessary, which may not be accommodated in a defined field. Must be ALPHANUMERIC consisting of up to 40 characters.

Datafile PARM.DAT

field No	field Name	field Description
1	PARAM_KEY	Unique station identifier. Consists of a fixed length, twenty-seven character alphanumeric field, left justified, containing:

Datafile PARM.DAT

Column:	Description:
1-12	Unique site identifier as assigned by EPA. Must be alphanumeric.
13-17	Unique solid waste management unit designator. Must be alphanumeric.
18	Media status indicator. Must contain one of the following: C - Compliance monitoring station B - baseline monitoring station A - other ambient monitoring station.
19-27	Unique station identifier. Must be alphanumeric.
28-42	Unique sample identifier. Must be alphanumeric.
43-54	Parameter identifier. For chemical constituents for which CAS numbers exist, the CAS number will be the identifier. For other constituents, the identifier will be determined by the data generator on an as-needed basis. An explanation for all field measurements identifiers must be provided in metadata package.

{An additional file may be required with the data submission - the CAS.DAT file - containing two fields - COMPOUND NAME and COMPOUND DESIGNATOR. This file provides the data generator with the flexibility to present compounds that do not carry CAS identification numbers.}

	55-58	Replicate number. Identifies the value as one of two or more analytical results for the same parameter on the same sample. INTEGER NUMERIC, right justified, up to four characters. Not used unless replicate results are reported.

2	QUALF	Qualifier field. ALPHANUMERIC, may contain up to four STORET qualifier codes.

{As with the CASNAME field, alternate codes may be utilized, but the metadata package must contain a definition of those codes.)

3	VALUE	The reported analytical result for the chemical. Must be DECIMAL NUMERIC, consisting of up to twelve characters (including the decimal), and may have up to four digits after the decimal point.
4	UNITS	The units of measurement in which analytical results are reported. ALPHANUMERIC, consisting of up to six characters.
5	METHOD	The name of code of the analytical method or technique used to obtain the reported value. ALPHANUMERIC, containing up to fourteen characters.

Columns	Content
1-4	year including century, e.g. 1989
5-6	numeric month
7-8	numeric day of month

Column numbers are relative to the beginning of the DATE field. Each subfield described above must be right justified, and may contain leading zeros.

7	DETLIM	Detection limit. Must be in same units as the reported value. Must be DECIMAL NUMERIC, consisting of up to twelve characters (including the decimal), and may have up to four digits after the decimal point.
8	LAB	Name of Lab that performed the analysis. ALPHANUMERIC field containing up to 28 characters.
9	COMMENT	Any additional information the user feels necessary, which may not be accommodated in a defined field. Must be ALPHANUMERIC consisting of up to 40 characters.

ATTACHMENT B

Minimum Data and Graphics Submission Standards

DATA - Data sets are generally submitted on 3.5 inch floppy disks or 8 mm tape. Other types of media are acceptable, but should be authorized prior to submission.

A data package conveying the same information presented in Attachment C should also accompany the data set submission. An additional file is frequently developed to convey the CASNAME and

CASNUMBER in a CAS.dat file. EPA can use this file to determine any data that is reported, but that does not have assigned CAS numbers, or because the data generator is using designators that differ from CAS numbers.

Data should be submitted in coma delimited, ASCII files, and in the IFF format.

GRAPHICS - Basemaps can be accepted in a .dxf or ARC/INFO ready format. Locational data, especially in the case of .dxf from AutoCAD files is beneficial to successfully project the maps into the "real world."

ATTACHMENT C

EXAMPLE DATA PACKAGE FOR SUBMISSION OF DATA IN THE INTERCHANGE FILE FORMAT.

Questions should be directed to:

Richard Hammond
USEPA Region IV
(404) 347-3016

Phyllis Mann
USEPA Region IV
(404) 347-3402

The following data package provides a useful example of information requirements for electronic data submission to EPA. This data package is separate and distinct from the basemaps that may accompany the data.

{Cover letter conveys what dataset is being delivered, the media of delivery (i.e., 3.5 inch disk, 8mm tape, etc.), a brief description of what is contained in the data package, and a contact name and phone number.}

April 8, 1994

U.S. Environmental Protection Agency
Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Gentlemen:

Enclosed please find the data package for the Remedial Investigation Report on the ABC Site. As specified in the Federal Facility Agreement, the data are in the Environmental Protection Agency's (EPA) Interchange File Format (IFF). The complete data package includes one 3.5 inch diskette containing the electronic data, a listing of file names on the diskette, listing 20 records from each file, and a discussion of the data and its conversion to EPA's IFF.

If you have any questions or require additional information, please contact _____ at

xxx-xxxx.

Sincerely,
Enclosure

EPA IFF DATA PACKAGE FOR THE ABC SITE REMEDIAL INVESTIGATION
GENERAL INFORMATION

March 31, 1994

Data referred to in the ABC RI report are presented in an electronic form on the enclosed diskette. The data are in the Environmental Protection Agency (EPA) Interchange File Format (IFF). This fulfills the data delivery requirement to EPA as specified in Section XXVIII of the Federal Facility Agreement (FFA).

IFF Files - The EPA IFF data package contains 4 data files.

{It is very important to include the total number of records. This total record number is compared to the total number of records successfully processed into the INFO database. If the record numbers match, the validity of the data transmission is verified.}

STATION.DAT - 38 Records
Station definitions (IFF format with 3 logical records per data record)

Stations include 19 boreholes, 3 background boreholes, and 1 trip blank (TB) pseudo station.

Accuracy for latitude and longitude was estimated to be 0.03 seconds.

The stations for samples N01071 and N01072 were not updated correctly from the logbook.

SMP_ID	CORRECT STATION
N01071	SB016
N01072	SB019

SAMPLE.DAT- 38 Records
Sample collection definitions (IFF format with 4 logical records per data record)

In addition to regular samples, data for several other types of samples are included. The sample type is coded in the SAMMETH field as follows:

GR- grab sample
GC - grab composite
RI - equipment rinsate
FB - field blank
TB - trip blank
OT - field replicate

Field QC samples (SMP_ID) are as follows:

Replicates:		
Trip Blanks:	TBO002, TBO003, TBO004 (STATION - TB)	
Rinsate:	01972	(associated with STATION SBO07)
	N00173	(associated with STATION SBO11)
	N01072	(associated with STATION SBO19)
Field Blank:	N01971	(associated with STATION SBO12)
	N01071	(associated with STATION SBO16)

NO1905 (SAMMETH OT) and N01201 (STATION SBO12)
N01005 (SAMMETH OT) and N01901 (STATION SBO19)

Starting sample depth was used for DELTH.

PARM.DAT - 1,455 Records
Parameter observations (IFF format with 3 logical records per data record)

The result for 2-Butanone, N01601, is 62.

Field measurements (n = 120) were included with the laboratory measurements. Field parameters included:

Alpha radioactivity (millirad/hour)
B/G radioactivity (cpm)
Mercury Vapor (milligrams/cubic meter)
Organic Vapor (parts per million)

PARAMETER entries (the parameter name is entered in the COMMENTS field):

parameter name were used.

1. The CAS number.
2. If a compound did not have a CAS number, the first 12 characters of the
3. There are Tentatively Identified Compounds (TICs) identified with CAS numbers starting with "UNK". One sample, (SMP_ID=NO1601) has two values for unknown ethyl dimethy benzene.

There is not a detection limit field in the Site database. However, radiological uncertainties are reported and should be kept with their result values. Therefore, the uncertainty (2 sigma) was placed in the DETLIM field for rads only. DETLIM is missing for other compounds. Data Processing - Data referred to in the ABC RI report were delivered to the data generator from the Contractor data management system as FoxPro (dbf) files. Contractor programs were used to extract fields specified by the IFF and to create ASCII files in the EPA IFF format.

WELL.DAT- 19 Records
Well construction data (IFF format with 4 logical records per data record)

Because the stations are boreholes, only values for a limited set of fields were entered.

SAMPLE AND DATA ENTRY INFORMATION - The samples were collected according to procedures documented in the ABC Site Sampling and Analysis Plan. Organic, radiological, and nitrate/nitrite samples were reported and validated as Level III data following the statement of work and Quality Assurance Project Plan; inorganic samples were reported and validated as Level VI data following the statement of work and EPA's data validation functional guidelines. Field QA/QC data, such as rinsates and duplicates, are included in the data base; however, laboratory QA/QC information, such as matrix spikes, is not.

The data have been examined for completeness, e.g., that all laboratory records have corresponding sampling records. Additional checks have been performed on the data and all problems have been resolved and corrected in the data to the extent that they could be verified in the laboratory or field documentation.

Inorganic and radiological analytical data were extracted from laboratory generated diskettes. Organic and nitrate/nitrite analytical data were entered into the data base using single entry with 100% verification against the original forms. For additional information or more specific information about the verification performed, please contact the Contractor.

IFF CONVERSIONS - The following information is presented to help interpret the data contained within the IFF files and for comparison of the IFF data with those found in the RI report.

Data being sent to EPA include those collected by the Contractor during the RI study.

Data were received from the Contractor as FoxPro (dbf) export files and converted into SAS data sets. Several frequencies, means, lists, etc. were generated with SAS programs to help understand the data and the relationships between the data tables provided by the Contractor.

Finally, SAS programs were written to generate IFF formatted files. The IFF programs substituted "#" for all missing values, changed any commas within data fields to semicolons (e.g., commas frequently occur in the chemical names).

If there are questions concerning the format of the data files, please contact _____ at XXX XXX-XXXX

Attached:

Data files on a 3.5 inch floppy
Sample IFF data listings

{This information helps determine if file corruption has occurred} Contents of attached diskette:

PARM DAT	165069	03-31-94	10:15a
SAMPLE DAT	4343	03-30-94	9:17p
STATION DAT	3660	03-30-94	9:18p

WELL DAT	4261	03-30-94	918p
4 File(s)	1278976	bytes free	

(These records are the first 20 STATIONs. For presentation purposes, each record has been broken into three lines, as stated in the cover letter. Clarifying text has been placed in {text}.)

STATION. DATA
LINE 1

19901001(HRt - Line 1 of each file must contain this Version number. Line 1 should also end in a hard return.}

(The Record No. in Column One of this example file is not part of the IFF. It is presented to allow readers to combine LINEs.)

1 TNOOOOOOOOOOABC BBKG01 SOIL, 300030.7364,642220.4649,1051.44

Notes on Record 1 - Field 1 is the only fixed position field in the IFF. It must contain the correct number of spaces. All subsequent fields in each record can be filled with the "#" symbol. All data entry is left justified in each field. Fields may be separated with a coming or a hard return. Practicality generally dictates using a comma delimited format. Ideally, locations will be provided in lat/long. However, if lat/long is not reported, it is important to provide locational data to allow EPA staff to determine the lat/long.}

2 TNOOOOOOOOOOABC BBKG02 ,SOIL,300029.744,842221.6539,1031.27,
3 TNOOOOOOOOOOABC BBKG03 ,SOIL,300027.7445,842223.7245,1003.32,
4 TNOOOOOOOOOOABC BSB001 ,SOIL,300023.2889,842259.9034,998.89,
5 TNOOOOOOOOOOABC BSB002 ,SOIL,300021.1655,842259.7531,995.26,
6 TNOOOOOOOOOOABC BSB003 ,SOIL,300020.6325,842259.8212,1003.03,
7 TNOOOOOOOOOOABC BSB004 ,SOIL,300017.4754,842258.7~178,1002.25,
8 TNOOOOOOOOOOABC BSB005 ,SOIL,300015.9733,842257.8210,1002.17,
9 TNOOOOOOOOOOABC BSB006 ,SOIL,300011.6312,842254.6243,992.69,
10 TNOOOOOOOOOOABC BSB007 ,SOIL,300009.0894,842252.0457,996.73,
11 TNOOOOOOOOOOABC BSB008 ,SOIL,300004.5257,842248.0640,994.33,
12 TNOOOOOOOOOOABC BSB009 ,SOIL,300002.7597,842247.3503,1014.52,
13 TNOOOOOOOOOOABC BSB010 ,SOIL,300001.0638,842246.2872,1014.41,
14 TNOOOOOOOOOOABC BSB011 ,SOIL,300058.3382,842244.6216,998.04,
15 TNOOOOOOOOOOABC BSB012 ,SOIL,300056.7457,842243.6422,995.90,
16 TNOOOOOOOOOOABC BSB013 ,SOIL,300055.8366,842243.0919,1004.34,
17 TNOOOOOOOOOOABC BSB014 ,SOIL,300053.8367,842241.8482,1014.32,
18 TNOOOOOOOOOOABC BSB015 ,SOIL,300049.4759,842239.1663,1014.63,
19 TNOOOOOOOOOOABC BSB016 ,SOIL,300047.1492,842237.7276,1019.30,
20 TNOOOOOOOOOOABC BSB017 ,SOIL,300045.5077,842236.7132,1017.42,

STATION.DAT
LINE 2

1 1051.44,19930122,0.03,0,Survey in ABC grid coordinates,

2 1031.27,19930122,0.03,0,Survey in ABC grid coordinates,
3 1003.32,19930122,0.03,0,Survey in ABC grid coordinates,
4 998.89,19930208,0.03,0,Survey in ABC grid coordinates,
5 995.26,19930208,0.03,0,Survey in ABC grid coordinates,
6 1003.83,19930208,0.03,0,Survey in ABC grid coordinates,
7 1001.25,19930202,0.03,0,Survey in ABC grid coordinates,
8 1002.17,19930129,0.03,0,Survey in ABC grid coordinates,
9 992.69,19930129,0.03,0,Survey in ABC grid coordinates,
10 996.73,19930209,0.03,0,Survey in ABC grid coordinates,
11 994.33,19930208,0.03,0,Survey in ABC grid coordinates,
12 1014.52,19930202,0.03,0,Survey in ABC grid coordinates,
13 1014.41,19930130,0.03,0,Survey in ABC grid coordinates,
14 998.04,19930127,0.03,0,Survey in ABC grid coordinates,
15 995.90,19930209,0.03,0,Survey in ABC grid coordinates,
16 1004.34,19930209,0.03,0,Survey in ABC grid coordinates,
17 1014.32,19930128,0.03,0,Survey in ABC grid coordinates,
18 1014.63,19930203,0.03,0,Survey in ABC grid coordinates,
19 1019.30,19930205,0.03,0,Survey in ABC grid coordinates,
20 1017.42,19930203,0.03,0,Survey in ABC grid coordinates,

STATION.DAT
LINE 3

1 BACKGROUND SOIL BORING - 01
2 BACKGROUND SOIL BORING - 02
3 BACKGROUND SOIL BORING - 03
4 350' FROM S-31Line leaked in 1951
5 435' FROM S-3/topographic low point
6 640' FROM S-3/topographic low point
7 950' FROM S-3/formerly an open ditch
8 1000' FROM S-3/topographic low point
9 1590' FROM S-3/sharp bend in line
10 1800' FROM S-3/sharp bend in line
11 2017' FROM S-3/topographic low point
12 2100' FROM S-3/sharp bend in line
13 2550' FROM S-3/distressed vegetation
14 2600' FROM S-3/topographic low point
15 2778' FROM S-3/sharp bend in line
16 3269' FROM S-3/sharp bend in line
17 3768' FROM S-3/distressed vegetation
18 4350' FROM S-3/sharp bend in line
19 4444' FROM S-3/sharp bend in line
20 4795' FROM S-3/topographic low point

SAMPLE.DAT
LINE 1

19901001 {HRt}

1 TNOOOOOOOOOOOABC BBKG01 B00001,26.00,19930122,1400,Z,
2 TNOOOOOOOOOOOABC BBKG02 B00002,24.00,19930122,1440,Z,
3 TNOOOOOOOOOOOABC BEIKG03 B00003,62.00,19930122,1530,Z,
4 TNOOOOOOOOOOOABC BSB001 N00101,2.00,19930208,115i,Z,
5 TNOOOOOOOOOOOABC BSB002 N00201,5.00,19930208,1424,Z,
6 TNOOOOOOOOOOOABC BSB002 N00202,11.00,19930208,1445,Z,
7 TNOOOOOOOOOOOABC BSB003 N00301,13.50,19930208,1548,Z,
8 TNOOOOOOOOOOOABC BSB004 N00401,18.00,19930202,1257,Z,
9 TNOOOOOOOOOOOABC BSB005 N00501,8.00,19930129,1333,Z,
10 TNOOOOOOOOOOOABC BSB006 N00601,12.50,19930129,1013,Z,
11 TNOOOOOOOOOOOABC BSB006 N00602,18.00,19930129,1031,Z,
12 TNOOOOOOOOOOOABC BSB007 N00701,15.50,19930209,950,Z,
13 TNOOOOOOOOOOOABC BSB007 N01972,0.00,1993(1209,835,Z,
14 TNOOOOOOOOOOOABC BSB008 N00801,5.00,19930208,1427,Z,
15 TNOOOOOOOOOOOABC BSBOO9 N00901,8.00,19930202,950,Z,
16 TNOOOOOOOOOOOABC BSB010 N01001,14.50,19930130,923 Z,
17 TNOOOOOOOOOOOABC BSBO 10 N01002,11.00,19930130,946,Z,
18 TNOOOOOOOOOOOABC BSB010 N01003,21.00,19930130,1014,Z,
19 TNOOOOOOOOOOOABC BSBOll N00173,10.00,19930127,1040,Z,
20 TNOOOOOOOOOOOABC BSBOll N01101,10.50,19930127,1414,Z,

SAMPLE.DAT
LINE 2

1 #,#,#,#,#,#,#,
2 #,#,#,#,#,#,#,
3 #,#,#,#,#,#,#,
4 #,#,#,#,#,#,#,
5 #,#,#,#,#,#,#,
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7 #,#,#,#,#,#,#,
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17 #,#,#,#,#,#,#,
18 #,#,#,#,#,#,#,
19 #,#,#,#,#,#,#,
20 #,#,#,#,#,#,#,

SAMPLE:DAT
LINE3

1 GC,John Smith,
2 GC,John Smith,
3 GC,John Smith,
4 GC,John Smith,
5 GC,John Smith,
6 GC,John Smith,
7 GC,John Smith,
8 GC,John Smith,
9 GC,John Smith,
10 GC,John Smith,
11 GC,John Smith,
12 GC,John Smith,
13 GC,John Smith,
14 GC,John Smith,
15 GC,John Smith,
16 GC,John Smith,
17 GC,John Smith,
18 GC,John Smith,
19 GC,John Smith,
20 GC,John Smith,

SAMPLE.DAT
LINE4

1 PER J. Smith; SAMPLE B00001 WAS COLLE
2 PER J. Smith; SAMPLE B00002 WAS COLL
3 PER J. Smith; SAMPLE B00003 WAS COLL
4
5
6 RAN Out Of 125ML SAMPLE CONTAINERS.
7
8
9
10
11
12
13 THIS RINSATE WAS NOT ASSOCIATED W/SAMP
14
15
16
17
18
19 NOT COLLECT VOC RINSATE FOR THIS SAMPL
20

PARM.DAT
LINE I

19901001{HRt}
1 TNOOOOOOOOOOABC BBKG01 B00001 14797-55-8
2 TNOOOOOOOOOOABC BBKG01 B00001 B/G Rad
3 TNOOOOOOOOOOABC BBKG01 B00001 Mercury Vapo
4 TNOOOOOOOOOOABC BBKG01 B00001 Organic Vapo
5 TNOOOOOOOOOOABC BBKG02 B00002 14797-55-8
6 TNOOOOOOOOOOABC BBKG02 B00002 B/G Rad
7 TNOOOOOOOOOOABC BBKG02 B00002 Mercury Vapo
8 TNOOOOOOOOOOABC BBKG02 B00002 Organic Vapo
9 TNOOOOOOOOOOABC BBKG03 B00003 14797-55-8
10 TNOOOOOOOOOOABC BBKG03 B00003 B/G Rad
11 TNOOOOOOOOOOABC BBKG03 B00003 Mercury Vapo
12 TNOOOOOOOOOOABC BBKG03 B00003 Organic Vapo
13 TNOOOOOOOOOOABC BSB001 N00101 13966-29-5
14 TNOOOOOOOOOOABC BSB001 N00101 14797-55-8
15 TNOOOOOOOOOOABC BSB001 N00101 15117-96-1
16 TNOOOOOOOOOOABC BSB001 N00101 7429-90-5
17 TNOOOOOOOOOOABC BSB001 N00101 7439-89-6
18 TNOOOOOOOOOOABC BSB001 N00101 7439-92-1
19 TNOOOOOOOOOOABC BSB001 N00101 7439-93-2
20 TNOOOOOOOOOOABC BSB001 N00101 7439-95-4

PARM.DAT
LINE 2

1 UJ,0.5,UG/G,E353.3,19930128,#,
2 #,50.,CP-M,VICT.190,19930122,#,
3 #,0.000,MG/M3,#,19930122,#,
4 #,1-.0, PPM,#,19930122,#,
5 UJ,0.5,UG/G,E353.3,19930128-,#,
6 #,50,CPM,#,19930122,#,
7 #,0.000,MG/M3,#,19930122,#,
8 #, l0,O,PPM,#,19930122,#,
9 UJ,0.5,UG/G,E353.3,19930128,#,
10 #,74,#,19930122,#,
11 #,0.000,MG/M3,#,19930122,
12 #,l.O,PPM,#,19930122,#,
13 J,13,PCI/G,E908.0,19930302,1.0000,
14 J,0.67,UG/G,E353.3,19930218,#,
15 J,0.75,PCI/G,E908.0,19930302,0.2400,
16 #,24300.00,MG/KG,EPA200.7CLPM,19930224,#,
17 #,28900.00,MG/KG,EPA200.7CLPM,19930224,#,
18 J,70.40,MG/KG,EPA239.2CLPM,19930303,#,
19 #,24.10'MG1KG,EPA200.7CLPM,19930224,#,
20 J,5630.00,MG/KG,EPA200.7CLPM,19930224,#,

PARM.DAT
LINE3

1 LABXYZAL,Nitrate/Nitrate (N03/N02-N)
2 #,B/G Rad' h)
3 #,Mercury Vapor
4 #,Organic Vapor
5 LABXYZAL,Nitrate/Nitrate (N03tN02-N)
6 #,B/G Rad
7 #,Mercury Vapor
8 #,Organic Vapor
9 LABXYZ,Nitrate/Nitrate (N03/N02-N)
10 #,B/G Rad
11 #,Mercury Vapor
12 #,Organic Vapor
13 LAB 123,U-234
14 LABXYZ,Nitrate/Nitrate (N03/N02-N)
15 LAB 123,U-235
16 LABXYZAL,Aluminum
17 LABXYZAL,Iron
18 LABXYZAL,Lead
19 LABXYZAL,Lithium
20 LABXYZ12,Magnesium

WELL.DAT
LINE 1

1 TNOOOOOOOOOOABC BSB001 ,NOLICHUCKY,2.50,S,
2 TNOOOOOOOOOOABC BSB002 ,NOLICHUCKY, 1 1.50,S,
3 TNOOOOOOOOOQABCB BSB003 ,NOLICHUCKY,4.00,S,
4 TWOOOOOOOOOOABCB BSB004 ,NOLICHUCKY, 10.00,H,
5 TNOOOOOOOOOOABCB BSB005 ,NOLICHUCKY, 10.00,S,
6 TWOOOOOOOOOOABCB BSB006 ,NOLICHUCKY, 10.00,H,
7 TNOOOOOOOOOOABCB BSB007 ,NOLICHUCKY,6.00,S,
8 TNOOOOOOOOOOABCB BSB008 ,NOLICHUCKY,5.50,S,
9 TNOOOOOOOOOOABCB BSB009 ,NOLICHUCKY, 10.00,H,
10 TNOOOOOOOOOOABCB BSB010 ,NOLICHUCKY,23.00,H,
11 TNOOOOOOOOOOABCB BSBOl1 ,NOLICHUCKY, 12.50,H,
12 TNOOOOOOOOOOABCB BSB012 ,NOLICHUCKY,5.00,S,
13 TNOOOOOOOOOOABCB BSB013 ,NOLICHUCKY, 1.00,S,
14 TNOOOOOOOOOOABCB BSB014 ,NOLICHUCKY,9.00,H,
15 TN3890D9OOOlABCB BSB015 ,NOLICHUCKY,6.00,H,
16 TNOOOOOOOOOOABCB BSB016 ,NOLICHUCKY, 18.00,H,
17 TNOOOOOOOQOOABCB BSB017 ,NOLICHUCKY, 12.00,m,
18 TNOOOOOOOOOOABCB BSB018 ,NOLICHUCKY,6.50,H,
19 TNOOOOOOOOOOABC BSBO 19 ,NOLICHUCKY, 14.00,H,

WELL.DAT
LINE2

1 #,

2 #,
3 #,
4 #,
5 #,
6 #,
7 #,
8 #,
9 #,
10 #,#,#,#,#,#.#.#.#.#.#.#,
11 #,#,#.#.#.#.#.#.#.#,
12 #,
13 #,
14 #,
15 #,
16 #,
17 #,
18 #,
19 #,

WELL.DAT
LINES

1 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
2 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
3 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
4 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
5 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
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7 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
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19 #,#,#,#,#,#,#,#,#,#,#,#,#,#,#,#,0,
20 #,#,#,#,#,#.#,#,#,#,#,#,#,#,#,#,0,

WELL.DAT
LINE4

1. SB001 IS LOCATED ABOUT 10FT FROM EDGE OF ROADWAY. ALMOST 0 TRAFFIC.
2. DRILLED BOREHOLE WITH LITTLE BEAVER HYDRAULIC AUGER. USED HAND AUGER TO COL

3. FOUND SOME GRAVEL IN SAMPLE SOIL. DRILLED DOWN TO SAMPLE DEPTH WITH "LITTLE
4. SB004 IS LOCATED ABOUT 201 FROM BUILDING AND 101 FROM PARKING LOT
5. SAMPLE LOCATION IS WITHIN ABOUT 201 FROM BUILDING AND WITHIN ABOUT 15 TO 201
6. DRILL RIG (AND BOREHOLE) LOCATED ABOUT 40.1 FROM ROAD W/MODERATE TRAFFIC
7. BOREHOLE IS ABOUT 30 OR MORE FT FROM ROADWAY; MINIMAL TRAFFIC
8. SBO08 IS ABOUT 201 FROM ROADWAY BEARING MINIMAL VEHICLE TRAFFIC. FOUND GPAV
9. BOREHOLE WAS BY BLDG. 9983-72 (ABOUT 401 AWAY) BOREHOLE ABOUT 10ft FROM WALKW
10. DRILLING THROUGH ASPHALT PARKING LOT; BOREHOLE IS 12' - 15' FROM BUILDING
11. #
12. DRILLED CLOSE TO SAMPLE DEPTH W/LITTLE BEAVER HYDRAULIC AUGER.
13. DRILL CLOSE TO SAMPLE DEPTH W/LITTLE BEAVER HYDRAULIC AUGER.
14. SB014 IS LOCATED IN GIZAVEL NEXT TO ROADWAY LEADING TO OUR BASE CAMP LOCATION
15. SB015 IS AT END OF ASPHALT ROAD WITHIN ABC SALVAGE YARD; FOUND B/G RADS AL
16. HIT WEATHERED ROCK AT 18FT; SB016- IS WITHIN ASPHALT PARKING SPACE WHERE D.O.
17. DRILLED BOREHOLE ABOUT 41/2 FT NORTH OF MARKER DUE TO OBSTRUCTION ENCOUNTER
18. BOREHOLE IS ABOUT 201 FROM INTERMITTENT VEHICLE TRAFFIC AT GATE TO MK FERGUS
19. SAMPLE COLLECTED USING SPLIT SPOON

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