

APPENDIX E

SUMMARY OF VALIDATED ANALYTICAL DATA

Summary of Validated Surface and Depositional Soil Data
Impact Area Near Stump Dump (Parcel 135Q)
Fort McClellan, Alabama

Report Date: 06/22/01

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User Test Group Lab Method	Location Code:	HR-135Q-GP01			HR-135Q-GP01			HR-135Q-GP02			HR-135Q-MW01		
	Associated Site:	HR-135Q			HR-135Q			HR-135Q			HR-135Q		
	Sample No:	YR0005			YR0006			YR0009			YR0001		
	Sample Date:	04-OCT-00			04-OCT-00			03-OCT-00			03-OCT-00		
	Sample Depth:	0 - 1			0 - 1			0 - 1			0 - 1		
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
METALS													
SW6010B													
Aluminum	mg/kg	24300			21000			13200			20000		
Antimony	mg/kg	11.4	U	UJ	11.3	U	UJ	11.2	U	UJ	11.3	U	UJ
Arsenic	mg/kg	3.97			2.94			2.69			3.64		
Barium	mg/kg	103			101			148			116		
Beryllium	mg/kg	.954	J	J	.97	J	J	.78	J	J	.622	J	J
Cadmium	mg/kg	.572	U	U	.566	U	U	.562	U	U	.564	U	U
Calcium	mg/kg	237			322			248			5910		
Chromium	mg/kg	20.5			15.5			11			18.7		
Cobalt	mg/kg	14.9			14.4			8.17			22.2		
Copper	mg/kg	10.6		J	8.92		J	7.28		J	13.3		J
Iron	mg/kg	15900			12500			10300			12700		
Lead	mg/kg	21.3			22.6			14			16.5		
Magnesium	mg/kg	1000		J	846			543			1280		
Manganese	mg/kg	1180			1200		J	1470		J	1190		J
Nickel	mg/kg	17.7			15.7			13.3			16.8		
Potassium	mg/kg	864			788			390	J	J	1110		
Selenium	mg/kg	1.14		B	1.1	J	B	1.12	U	U	1.13	U	U
Silver	mg/kg	1.14	U	U	1.13	U	U	1.12	U	U	1.13	U	U
Sodium	mg/kg	40.8	J	J	41.7	J	J	42.9	J	J	47.2	J	J
Thallium	mg/kg	2.29	U	U	2.26	U	U	.937	J	J	.968	J	J
Vanadium	mg/kg	30.2			24			15.4			25.6		
Zinc	mg/kg	30.7			28.7			27.6			26.4		
SW7471A													
Mercury	mg/kg	.061	J	J	.061	J	J	.035	J	J	.026	J	J
NITROAROMATICS													
SW8330													
1,3,5-Trinitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
1,3-Dinitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2,4,6-Trinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U

Summary of Validated Surface and Depositional Soil Data
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Location Code: HR-135Q-MW02
Associated Site: HR-135Q
Sample No.: YR0003
Sample Date: 04-OCT-00
Sample Depth: 0 - 1

User Test Group
Lab Method

<i>Parameter</i>	<i>Units</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>
METALS				
SW6010B				
Aluminum	mg/kg	20900		
Antimony	mg/kg	11.1	U	UJ
Arsenic	mg/kg	3.01		
Barium	mg/kg	138		
Beryllium	mg/kg	1.5		
Cadmium	mg/kg	.555	U	U
Calcium	mg/kg	301		
Chromium	mg/kg	15.5		
Cobalt	mg/kg	18		
Copper	mg/kg	10.1		J
Iron	mg/kg	13000		
Lead	mg/kg	21		
Magnesium	mg/kg	1020		
Manganese	mg/kg	2000		J
Nickel	mg/kg	16.4		
Potassium	mg/kg	1090		
Selenium	mg/kg	.651	J	B
Silver	mg/kg	1.11	U	U
Sodium	mg/kg	40.9	J	J
Thallium	mg/kg	.798	J	J
Vanadium	mg/kg	23.3		
Zinc	mg/kg	29.4		
SW7471A				
Mercury	mg/kg	.031	J	J
NITROAROMATICS				
SW8330				
1,3,5-Trinitrobenzene	mg/kg	.4	U	U
1,3-Dinitrobenzene	mg/kg	.4	U	U
2,4,6-Trinitrotoluene	mg/kg	.4	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U

Summary of Validated Surface and Depositional Soil Data
Impact Area Near Stump Dump (Parcel 135Q)
Fort McClellan, Alabama

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User Test Group Lab Method	Location Code:	HR-135Q-GP01	HR-135Q-GP01	HR-135Q-GP02	HR-135Q-MW01
	Associated Site:	HR-135Q	HR-135Q	HR-135Q	HR-135Q
	Sample No:	YR0005	YR0006	YR0009	YR0001
	Sample Date:	04-OCT-00	04-OCT-00	03-OCT-00	03-OCT-00
Parameter	Sample Depth:	0 - 1	0 - 1	0 - 1	0 - 1
	Units	Result Qual VQual	Result Qual VQual	Result Qual VQual	Result Qual VQual
NITROAROMATICS					
SW8330					
2,6-Dinitrotoluene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
2-Amino-4,6-dinitrotoluene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
2-Nitrotoluene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
3-Nitrotoluene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
4-Amino-2,6-dinitrotoluene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
HMX	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
Nitrobenzene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
RDX	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
Tetryl	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
p-Nitrotoluene	mg/kg	.4 U U	.4 U U	.4 U U	.4 U U
PERCHLORATE					
EPA300.0					
Perchlorate	mg/kg	.0458 U U	.0452 U U	.045 U U	.0451 U U

Summary of Validated Surface and Depositional Soil Data
Impact Area Near Stump Dump (Parcel 135Q)
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Location Code: HR-135Q-MW02
Associated Site: HR-135Q
Sample No: YR0003
Sample Date: 04-OCT-00
Sample Depth: 0 - 1

User Test Group
Lab Method

Parameter	Units	Result	Qual	VQual
NITROAROMATICS				
SW8330				
2,6-Dinitrotoluene	mg/kg	.4	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	.4	U	U
2-Nitrotoluene	mg/kg	.4	U	U
3-Nitrotoluene	mg/kg	.4	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	.4	U	U
HMX	mg/kg	.4	U	U
Nitrobenzene	mg/kg	.4	U	U
RDX	mg/kg	.4	U	U
Tetryl	mg/kg	.4	U	U
p-Nitrotoluene	mg/kg	.4	U	U
PERCHLORATE				
EPA300.0				
Perchlorate	mg/kg	.0444	U	U

Summary of Validated Subsurface Soil Data
Impact Area Near Stump Dump (Parcel 135Q)
Fort McClellan, Alabama

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User Test Group Lab Method	Location Code:	HR-135Q-GP01	HR-135Q-GP02			HR-135Q-MW01			HR-135Q-MW02		
	Associated Site:	HR-135Q	HR-135Q			HR-135Q			HR-135Q		
	Sample No:	YR0008	YR0010			YR0002			YR0004		
	Sample Date:	04-OCT-00	03-OCT-00			03-OCT-00			04-OCT-00		
Lab Method	Sample Depth:	3 - 5	5 - 7			10 - 12			4 - 6		
	Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
METALS											
SW6010B											
	Aluminum	mg/kg	10800			11200			23100		
	Antimony	mg/kg	10.6	U	UJ	11.2	U	UJ	13.3	U	UJ
	Arsenic	mg/kg	2.97			2.33			5.54		
	Barium	mg/kg	82			84.7			78.5		
	Beryllium	mg/kg	.42	J	J	.45	J	J	4.97		
	Cadmium	mg/kg	.529	U	U	.562	U	U	.665	U	U
	Calcium	mg/kg	92.8	J	J	87.1	J	J	272		
	Chromium	mg/kg	20.1			15.7			19		
	Cobalt	mg/kg	4.53			2.51			43		
	Copper	mg/kg	8.9		J	6.63		J	230	J	
	Iron	mg/kg	15600			17000			26900		
	Lead	mg/kg	13.7			6.86			27.6		
	Magnesium	mg/kg	467			807			3230		
	Manganese	mg/kg	303		J	51		J	678	J	
	Nickel	mg/kg	11			10.1			54.6		
	Potassium	mg/kg	592			1540			4250		
	Selenium	mg/kg	.64	J	B	1.12	U	U	1.33	U	U
	Silver	mg/kg	1.06	U	U	1.12	U	U	1.33	U	U
	Sodium	mg/kg	26	J	J	27.7	J	J	49	J	J
	Thallium	mg/kg	2.12	U	U	2.25	U	U	1.83	J	J
	Vanadium	mg/kg	23.4			20.2			23.3		
	Zinc	mg/kg	15.2			14.9			60.2		
SW7471A											
	Mercury	mg/kg	.027	J	J	.112	U	U	.035	J	J
NITROAROMATICS											
SW8330											
	1,3,5-Trinitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U
	1,3-Dinitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U
	2,4,6-Trinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U
	2,4-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U

Summary of Validated Subsurface Soil Data
Impact Area Near Stump Dump (Parcel 135Q)
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User Test Group Lab Method	Location Code:	HR-135Q-GP01			HR-135Q-GP02			HR-135Q-MW01			HR-135Q-MW02		
	Associated Site:	HR-135Q			HR-135Q			HR-135Q			HR-135Q		
	Sample No:	YR0008			YR0010			YR0002			YR0004		
	Sample Date:	04-OCT-00			03-OCT-00			03-OCT-00			04-OCT-00		
	Sample Depth:	3 - 5			5 - 7			10 - 12			4 - 6		
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
NITROAROMATICS													
SW8330													
2,6-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
3-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
HMX	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
Nitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
RDX	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
Tetryl	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
p-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
PERCHLORATE													
EPA300.0													
Perchlorate	mg/kg	.0423	U	U	.045	U	U	.0532	U	U	.0425	U	U

Summary of Validated Groundwater Data
Impact Area Near Stump Dump (Parcel 135Q)
Fort McClellan, Alabama

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<i>Location Code:</i>	HR-135Q-MW01	HR-135Q-MW02
<i>Associated Site:</i>	HR-135Q	HR-135Q
<i>Sample No:</i>	YR3001	YR3002
<i>Sample Date:</i>	31-OCT-00	01-NOV-00

User Test Group
Lab Method

<i>Parameter</i>	<i>Flt</i>	<i>Units</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>
METALS											
SW6010B											
Aluminum		mg/L	.785			.201		J	.087	J	J
Antimony		mg/L	.1	U	U	.1	U	U	.1	U	U
Arsenic		mg/L	.01	U	U	.01	U	U	.01	U	U
Barium		mg/L	.0131			.0692			.054		
Beryllium		mg/L	.001	U	U	.001	U	U	.001	U	U
Cadmium		mg/L	.01	U	U	.01	U	U	.01	U	U
Calcium		mg/L	.512	J	J	.371	J	J	.347	J	J
Chromium		mg/L	.01	U	U	.01	U	U	.01	U	U
Cobalt		mg/L	.02	U	U	.02	U	U	.02	U	U
Copper		mg/L	.02	U	U	.02	U	U	.02	U	U
Iron		mg/L	.789			.502		J	.211		J
Lead		mg/L	.01	U	U	.00145	J	J	.00142	J	J
Magnesium		mg/L	.717	J	J	.459	J	J	.428	J	J
Manganese		mg/L	.0258			.13			.0983		
Nickel		mg/L	.02	U	U	.02	U	U	.0116	J	J
Potassium		mg/L	4.24	J	J	3.05	J	J	3.27	J	J
Selenium		mg/L	.01	U	U	.01	U	U	.01	U	U
Silver		mg/L	.01	U	U	.01	U	U	.01	U	U
Sodium		mg/L	.929	J	J	1.05		J	1.06		J
Thallium		mg/L	.01	U	U	.01	U	U	.01	U	U
Vanadium		mg/L	.01	U	U	.01	U	U	.01	U	U
Zinc		mg/L	.102		J	.104		J	.145		J
SW7470A											
Mercury		mg/L	.0005	U	U	.0005	U	U	.0005	U	U
NITROAROMATICS											
SW8330											
1,3,5-Trinitrobenzene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
1,3-Dinitrobenzene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2,4,6-Trinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2,4-Dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U

Summary of Validated Groundwater Data
Impact Area Near Stump Dump (Parcel 135Q)
Fort McClellan, Alabama

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<i>Location Code:</i>	HR-135Q-MW01	HR-135Q-MW02	HR-135Q-MW02
<i>Associated Site:</i>	HR-135Q	HR-135Q	HR-135Q
<i>Sample No:</i>	YR3001	YR3002	YR3003
<i>Sample Date:</i>	31-OCT-00	01-NOV-00	01-NOV-00

User Test Group
Lab Method

<i>Parameter</i>	<i>Flt</i>	<i>Units</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>	<i>Result</i>	<i>Qual</i>	<i>VQual</i>
NITROAROMATICS											
SW8330											
2,6-Dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2-Amino-4,6-dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2-Nitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
3-Nitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
4-Amino-2,6-dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
HMX		mg/L	.001	U	U	.001	U	U	.001	U	U
Nitrobenzene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
RDX		mg/L	.0004	U	UJ	.0004	U	UJ	.0004	U	UJ
Tetryl		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
p-Nitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
PERCHLORATE											
EPA300.0											
Perchlorate		mg/L	.004	U	U	.004	U	U	.004	U	U