

APPENDIX G

Appendix G - Phase II Data Tables
Table 1 - Summary of Phase II Analytical Sampling Protocol
Plant Kraft Troutman Sanders
Port Wentworth, Georgia

Figure #	Structure	Contents	Location	Constituents	Approach	Actual # Borings	Actual # Soil Samples	Actual # GW Samples
1	UST	Gasoline	Paint Shop	BTEX/GRO	Biased DPT soil/possible GW	1	1	1
3	AST	Dust Suppression Surfactant	Coal Yard	VOCs	Biased DPT soil/FID screen	1		
4	AST	Diesel	Paint Shop	BTEX/PAHs/DRO/GRO	Biased DPT soil/possible GW	1	1	
5/12	AST	Diesel/Acid&Caustic	Main Plant	BTEX/PAHs/DRO/GRO (plus pH for 12)	Biased DPT soil / GW	1	1	1
6	AST	Diesel	Fleet Maintenance Shop	BTEX/PAHs/DRO/GRO	Biased DPT soil/possible GW	1	1	
7	AST	Diesel	Tank House	BTEX/PAHs/DRO/GRO	Biased DPT soil/possible GW	1	1	
8	AST	#6 Fuel Oil	Tank House	BTEX/PAHs/DRO/GRO	Biased DPT soil / GW	5	9	1
9	AST	#6 Fuel Oil	River Equipment Lot	BTEX/PAHs/DRO/GRO	Biased DPT soil / GW	1	1	1
10	AST	#2 Fuel Oil	Tank House	BTEX/PAHs/DRO/GRO	Biased DPT soil / GW	1	1	1
11	AST	Fuel Oil Additives	Main Plant	BTEX/PAHs/DRO/GRO	Biased DPT soil	1	1	
15	Buried Ash	Buried Ash	River Equipment Lot	Buried Ash	Visual delineation	4		
16	Septic	Waste	Fleet Maintenance Shop	VOCs/PAHs/RCRA Metals	Biased DPT soil / GW	1	1	1
17	Septic	Waste	Coal Pile Building	VOCs/PAHs/RCRA Metals	Biased DPT soil / GW	1	1	1
18	Septic	Waste	Pratt Building	VOCs/PAHs/RCRA Metals	Biased DPT soil / GW	1	1	1
19	Septic	Waste	Store Room	VOCs/PAHs/RCRA Metals	Biased DPT soil / GW	1	1	1
21	Septic	Waste	Main Plant	VOCs/PAHs/RCRA Metals	Biased DPT soil / GW	1	1	1
23	Buried Drums	Unknown	Store Room Addition	Based on excavation observation	GPR followed by test pit(s)	--		
26	Car Wash	Oil/Water Separator	Main Parking Area	BTEX/PAHs/DRO/GRO	Biased DPT soil/FID screen	1	1	
27	Dust Suppression	Surfactant	Fleet Maintenance Shop	VOCs	Biased DPT soil/FID screen	1	1	

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31	Paint Shop Sink Drain	Paint/Solvents	Paint Shop	VOCs/PAHs/RCRA Metals	Biased DPT soil/possible GW - Highest PID/FID or last above GW	2	2	2
36	Run-off Pond	Coal	N of Coal Pile	RCRA Metals plus Copper	Grid Pattern 100'x100'	14	8	5
37/50	Coal Pile & Mill Reject Area	Coal & Mill Rejects/Buried Ash	NE of Substation 1 /Multiple Areas	Visual Removal/Buried Ash	Grid Pattern 100'x100'/Visual Delineation	34		
38	Fuel Oil Piping/Tank/Spill	#6 Fuel Oil	Main Plant	BTEX/PAHs/DRO/GRO	Biased DPT soil/possible GW	1	1	1
43	Mill Reject Burial Area		Under Asphalt N. of Coal Pile	Visual Removal	Grid Pattern 100'x100'	2		
44	Mill Reject Burial Area		Along River Bank	Visual Removal	Grid Pattern 30'x100'	8		
45	Sandblasting Area	Sandblasting waste	East of Store Room	RCRA Metals	Biased DPT soil	4	4	
46	Paint & Construction Areas	Possible paints, solvents, etc.	Original Storage Bldgs. S. of Plant	VOCs/PAHs/RCRA Metals	Biased DPT soil/GW	4	4	1
47	Septic	Waste	North of building/S. of Switchyard	VOCs/PAHs/RCRA Metals	To be retained by GPC	1	1	1
49	Overflow Fuel Tank	Fuel Oil	South of Pratt Bldg.	BTEX/PAHs/DRO/GRO	Biased DPT soil/FID screen	1	1	
51	HSI Site	Creosote/SVOCs in Groundwater	NW Corner of Site	Creosote/SVOCs	Soil DPTs w/ soil samples 0-2', 2'-6', & 6-10' (if unsaturated); Sample existing wells if needed based on Landfill excavation	9	18	
Totals						105	63	20

Appendix G - Phase II Data Tables
 Table 2 - Summary of Metals Detected in Soil Samples Phase II ESA
 Plant Kraft Troutman Sanders
 Port Wentworth, Georgia

Boring ID	Sampling Area	Sample Date	Detected Constituents with HSRA NCs (mg/kg)				
			Arsenic 41	Barium 500	Chromium 1,200	Copper 1,500	Lead 400
SB-16-5-6	Maint. Shop Septic	11/13/2016	BRL	11.3	4.59	NA	BRL
SB-17-0-2	Coal Pile Septic	11/12/2016	10.0	32.1	7.49	NA	10.8
SB-18-4-5	Pratt Septic	11/15/2016	BRL	36.0	BRL	NA	BRL
SB-21-2-3	Plant Septic	11/15/2016	BRL	21.5	3.66	NA	5.69
SB-31-2-1-2	Paint Shop	11/12/2016	BRL	BRL	BRL	BRL	4.58
SB-36-5-2-3.5	Coal Pile Runoff Pond	11/14/2016	BRL	22.1	7.07	BRL	6.77
SB-36-6-2-3.5	Coal Pile Runoff Pond	11/14/2016	BRL	14.8	4.75	BRL	4.91
SB-36-1-2.5-3.5	Coal Pile Runoff Pond	11/14/2016	BRL	24.1	7.67	BRL	4.87
SB-DUP-1	Coal Pile Runoff Pond	11/14/2016	BRL	20.4	9.26	BRL	5.41
SB-36-2-1.5-4.5	Coal Pile Runoff Pond	11/14/2016	BRL	34.0	12.3	2.95	7.59
SB-DUP-2	Coal Pile Runoff Pond	11/14/2016	BRL	68.2	16.2	3.06	11.9
SB-36-3-2.6-3.6	Coal Pile Runoff Pond	11/14/2016	15.7	194	13.5	15.8	7.86
SB-36-4-0-1	Coal Pile Runoff Pond	11/14/2016	BRL	23.7	8.30	27.3	11.1
SB-36-14-0-1.5	Coal Pile Runoff Pond	11/15/2016	BRL	12.9	4.24	2.80	27.6
SB-36-9-0-1	Coal Pile Runoff Pond	11/15/2016	7.86	58.9	6.93	9.70	51.2

Notes:

Soil has been excavated and is no longer present at the site

BRL = Below Reporting Limit

Appendix G - Phase II Data Tables
 Table 3 - Summary of PAHs & TPH-DRO Detected in Soil Samples - Phase II ESA
 Troutman Sanders Plant Kraft
 Port Wentworth, Georgia

Boring ID	Sampling Area	Sample Date	Detected Constituents with HSRA NCs (mg/kg)										
			Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Bis(2-ethylhexyl)phthalate	TPH-DRO
			100	NR	NR	110	500	500	5	5	5	50	100*
SB-8-0-1	Diesel & Fuel ASTs	11/13/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	1,300
SB-8-N	50' N of SB-8-0-1	12/9/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19
SB-8-S	50' S of SB-8-0-1	12/9/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,300
SB-8-S-25	75' S of SB-8-0-1	2/1/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
SB-8-S-50	100' S of SB-8-0-1	2/1/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26
SB-8-E	50' E of SB-8-0-1	12/9/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
SB-8-W	50' W of SB-8-0-1	12/9/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230
SB-8-W-25	75' W of SB-8-0-1	2/1/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36
SB-8-W-50	100' W of SB-8-0-1	2/1/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BRL
SB-10-0-1	Diesel & Fuel ASTs	11/13/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	12
SB-17-0-2	Coal Pile Septic	11/12/2016	0.60	0.98	0.92	1.1	0.89	0.76	0.44	0.79	0.98	BRL	BRL
SB-38-1.3-2.6	#6 Fuel Oil Line Leak	11/15/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	11
SB-49-1	Overflow fuel AST	11/15/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	14
SB-51-4-0-2	North Area HSRA	11/14/2016	0.40	BRL	0.70	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-51-6-0-2	North Area HSRA	11/14/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.57	BRL
SB-51-7-0-2	North Area HSRA	11/14/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.52	BRL

Notes:

Bold Exceeds Protection Standard

Soil has been excavated and is no longer present at the site

NA=Not Analyzed

BRL = Below Reporting Limit

* = TPH-DRO is not regulated under HSRA; EPD Emergency Response soil cleanup guidance shown

Appendix G - Phase II Data Tables

Table 4 - Summary of Groundwater Analytical Results - Phase II ESA
 Troutman Sanders Plant Kraft
 Port Wentworth, Georgia

Boring ID	Sampling Area	Sample Date	Constituents Detected with HSRA Type 1 & 3 RRS Groundwater Standard (mg/l)				
			Barium 2	Chromium 0.1	Copper 1.3	Lead 0.015	Acenaphthene 2
GW-16-5-6	Maint. Shop Septic	11/13/2016	0.320	BRL	BRL	BRL	0.033
GW-17	Coal Pile Septic	11/12/2016	0.0750	BRL	BRL	BRL	BRL
GW-18	Pratt Septic	11/15/2016	0.170	0.0464	NA	0.0188	BRL
SB-18	Temp. Well @ GW-18	12/10/2016	NA	NA	NA	BRL	NA
GW-21	Plant Septic	11/15/2016	0.146	0.0513	NA	BRL	BRL
GW-31-1	Paint Shop	11/12/2016	0.0492	BRL	BRL	BRL	BRL
GW-31-2	Paint Shop	11/12/2016	0.0713	BRL	BRL	BRL	BRL
GW-36-5	Coal Pile Runoff Pond	11/14/2016	0.0421	BRL	BRL	BRL	NA
GW-36-6	Coal Pile Runoff Pond	11/14/2016	0.0452	BRL	BRL	BRL	NA
GW-36-2	Coal Pile Runoff Pond	11/14/2016	0.0792	0.0317	BRL	BRL	NA
GW-DUP-2	Coal Pile Runoff Pond	11/14/2016	0.0989	0.0661	0.0157	BRL	NA
GW-36-4	Coal Pile Runoff Pond	11/14/2016	0.0900	BRL	BRL	BRL	NA
GW-36-14	Coal Pile Runoff Pond	11/15/2016	0.0243	BRL	BRL	0.0307	NA
SB-36-14	Temp. Well @ GW-36	12/9/2016	NA	NA	NA	BRL	NA

Notes:

NA=Not Analyzed

BRL = Below Reporting Limit

Bold Indicates concentration greater than HSRA Type 1 & 3 RRS Groundwater Standard

Appendix G - Phase II Data Tables

Table 5 - Summary of HSRA Metals Detected in Soil Samples - Phase II ESA Supplemental Sampling
 Troutman Sanders Plant Kraft
 Port Wentworth, Georgia

Summary of HSRA Metals Detected in Soil Samples																
Boring ID	Sampling Area	Sample Date	Detected Constituents with HSRA NCs (mg/kg)													
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
			10/BG	41	500/BG	3/BG	39	1,200	1,500	400	17	420	36	10/BG	10/BG	2800
SB-15-3B-0-4	River Equipment Storage Lot	2/1/2017	<5.73	<5.73	42.3	<2.86	<2.86	5.30	5.08	12.4	<0.110	11.4	<5.73	<2.86	<5.73	20.7
SB-37-11B-0-4	Buried CCR West of Coal Pile	2/1/2017	<5.92	19.4	103	<2.96	<2.96	10.1	22.6	50.9	0.164	19.8	<5.92	<2.96	<5.92	527
SB-50-2-4-5	Former Ash Pond Southern Berm	2/1/2017	<8.35	111	1400	4.72	<4.17	20.0	76.3	12.4	0.236	27.9	11.0	<4.17	<8.35	24.0
SB-50-3-0.5-1.1	Former Ash Pond Southern Berm	2/1/2017	<7.34	56.2	411	<3.67	<3.67	18.1	40.6	12.2	<0.150	22.3	<7.34	<3.67	<7.34	30.5
SB-50-4-2-3	Former Ash Pond Southern Berm	2/1/2017	<7.89	88.7	711	5.11	<3.94	28.4	70.4	17.7	<0.146	27.1	<7.89	<3.94	<7.89	24.5
KMW-6B-1.6-2.2	Former Ash Pond Northern Berm	2/1/2017	<5.93	89.9	223	<2.97	<2.97	13.4	28.6	16.0	<0.124	14.7	<5.93	<2.97	<5.93	19.3
KMW-7B-0-4	Former Ash Pond Northern Berm	2/1/2017	<5.16	13.7	92.9	<2.58	<2.58	7.87	13.5	10.6	<0.0972	9.55	<5.16	<2.58	<5.16	19.9
SB-51-2B-1.4-1.9	Northern Area/CD Landfill	2/1/2017	<5.89	39.3	315	<2.95	<2.95	12.9	29.9	9.07	<0.109	15.4	<5.89	<2.95	<5.89	17.1
SB-51-7B-2-3.2	Northern Area/CD Landfill	2/1/2017	<7.20	74.3	613	<3.60	<3.60	18.2	48.8	11.0	0.160	22.7	<7.20	<3.60	<7.20	17.1
SB-44-7B-0.6-1.6	Riverbank & Sandblasting Area	2/1/2017	69.2	55.7	224	<3.48	<3.48	84.3	78.7	34.2	1.02	5690	<6.96	<3.48	62.8	24.4

Notes:

#/BG HSRA Notification Concentration (NC) greater of number (#) or Background Concentration (BG)

Bold Indicates concentration greater than HSRA NC

Soil has been excavated and is no longer present at the site