

DREDGE SPOIL AREA RFI/CS PHASE 1 REPORT
Snow and Choccolocco Creeks
Calhoun and Talladega Counties, Alabama

Solutia Inc. – Anniston Facility
USEPA I.D. No. ALD 004 019 048

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1.0 INTRODUCTION

Roux Associates, Inc. has prepared this report documenting the initial phase of sampling of the dredge spoil areas along Snow and Choccolocco Creeks in Calhoun and Talladega Counties (Figure 1), Alabama for Solutia Inc. (Solutia), as requested by the Alabama Department of Environmental Management (ADEM). Locations and physical evaluations of 27 known or suspected dredge spoil areas were included in the *Dredge Spoil Area Evaluation Report* submitted to ADEM in October 1998 (Table 1). The purpose of the initial phase of sampling the dredge spoil areas was to evaluate those dredge spoil areas that are slated to be stabilized, those located within 25 feet of the creek bank, and those that are scheduled to be removed in conjunction with an erosion control program to be implemented by the City of Anniston, Alabama. The following dredge spoil areas were sampled: Snow Creek Areas 1, 3, 4, 5, 6, 7, and 8; and Choccolocco Creek Areas 7, 9, 23, 24, 26, and 29 (Figure 2). The remaining 14 dredge spoil areas will be sampled in conjunction with the pending RFI/CS floodplain evaluation program.

The *Dredge Spoil Area RFI/CS Work Plan* for this sampling was submitted to ADEM in correspondence dated May 21, 1999. In correspondence dated July 23, 1999, ADEM approved the Work Plan subject to the additional requirement that dredge spoil areas to be removed in conjunction with the City of Anniston's erosion control program (Snow Creek Areas 4, 5, and 6) be sampled and analyzed. A revised Work Plan adding this requirement is provided in Appendix A. The revised Work Plan also adds Choccolocco Creek Area 29 to the Phase 1 sampling program. This area is located within 25 feet of the creek bank and was inadvertently left out of the initial Work Plan.

2.0 SAMPLING STRATEGY, METHODS, AND SAMPLE ANALYSIS

2.1 Sampling Strategy

A 50-foot by 50-foot grid was used to determine the number of samples to be collected from each area as described in the *Dredge Spoil Area RFI/CS Work Plan*. A 50-foot grid spacing was selected to provide representative samples from dredge spoil areas which vary widely in size. Each area was approximated as a rectangle. The maximum length and width of the areas were used as the length and width of the rectangle. The maximum number of samples for each area was defined as the number of squares of the grid that fell within the rectangle. The squares of the grid represent the boundaries for composite sampling. Each grid sample was a composite sample consisting of five (5) aliquots of sediment collected at randomly selected locations and depths within the composite boundaries. The number of samples taken for each area is indicated on Table 1.

The sampling strategy described above was followed with the following exceptions. As noted in the *Dredge Spoil Area RFI/CS Work Plan*, Snow Creek Areas 1, 3, and 7 and Choccolocco Creek Areas 7 and 29 are too small to fit within the grid spacing selected. One (1) composite sample consisting of five (5) aliquots each was taken from Snow Creek Areas 1 and 3. Snow Creek Areas 7 and 8 are both heavily wooded and accessibility is limited. A field decision was made to take 9 and 11 grab samples (instead of composite samples), respectively, from these areas at a spacing of 50 feet. Two (2) composite samples were taken from Choccolocco Creek Area 7, and four (4) composite samples were taken from Choccolocco Creek Area 29.

Snow Creek Areas 4, 5, and 6 were handled differently than the other dredge spoil areas because they are scheduled to be removed by the City of Anniston. Two (2) composite samples of five (5) aliquots each were taken from each of these areas for waste characterization purposes.

The dimensions of some of the dredge spoil areas appeared to be smaller than indicated in the *Dredge Spoil Area Evaluation Report*. The areas on Choccolocco Creek were

sampled within boundaries indicated by Natural Resource Conservation Service (NRCS) personnel that were on site during sampling. Based on this information, 11 samples were taken from Choccolocco Creek Area 24 instead of 15 as per the Work Plan. Two samples from Choccolocco Creek Area 24 were taken from 50 foot by 70 foot areas to include more of the known spoil area. Areas on Snow Creek were sampled within obvious fill boundaries. Aliquot and grab sample locations for each area are indicated on Figures 3 through 15.

2.2 Sampling Methods

Samples were collected during the period June 14 through June 18, 1999 by personnel from Roux Associates, Inc. and H.G.S., Inc. NRCS personnel accompanied the sampling team during sampling of Choccolocco Creek areas to facilitate identification of dredge spoil area boundaries. All sampling was conducted according to methods described in the Off-Site RFI/CS Work Plan (March 1999) with the following exception. Due to the difficulty in using a hand auger in the fill material in the dredge spoil areas, a field decision was made to use post-hole diggers instead of a hand auger. As a result, the maximum depth that samples were collected ranged from 15 inches to 36 inches depending on the hardness of the fill material in each area. The depths of each aliquot for each composite sample and the depths of each grab sample for Snow Creek Areas 7 and 8 are presented in Table 2.

All sampling devices were decontaminated between uses using a deionized (DI) water rinse, followed by a wash with Alconox[®] detergent and a final rinse with DI water. The samples were placed in glass jars, labeled and placed on ice in sample coolers, and maintained on ice until the end of the sampling period. Samples were subsequently shipped via Federal Express under chain-of-custody (COC) documentation to the laboratory. Each sampler used disposable gloves and changed gloves after each sample.

2.3 Sample Analysis

All composited samples, duplicates, and blanks were analyzed for PCBs by USEPA Method SW846 8082. In addition, one composite sample from each dredge spoil area, with the exception of Snow Creek Areas 4, 5, and 6 was analyzed for total mercury by USEPA Method SW846 6010B. Grab samples were collected from Snow Creek Areas 7 and 8 for total mercury analysis. The initial grab samples collected from Snow Creek Area 8 were submitted for PCB analysis only. As a result, an additional grab sample was collected from this area on August 17, 1999 for analysis of total mercury. All analyses were performed as presented in the Off-Site RFI/CS Work Plan. All data collection, management, review, validation and verification procedures included in the Off-Site RFI/CS Work Plan were followed. All analyses were performed by Savannah Laboratories and Environmental Services, Inc. of Savannah, Georgia.

3.0 RESULTS

Analytical results for the dredge spoil area sampling are presented in Table 3. Each area is discussed separately below. Laboratory data and chain of custody forms are provided as Appendix B.

3.1 Snow Creek

Seven (7) dredge spoil areas near or adjacent to Snow Creek were sampled. The composited sample from Snow Creek Area 1 (SC-1) was found to have a total PCB concentration of 19.6 milligrams/kilogram (mg/kg). The sample from Snow Creek Area 3 (SC-3) was found to have a total PCB concentration of 24.9 mg/kg.

Two (2) composited samples each were taken from Snow Creek Areas 4 through 6 (SC-4, SC-5, and SC-6). Concentrations of total PCBs for SC-4 were 13.8 and 17.4 mg/kg. Concentrations of total PCBs for SC-5 were 14.2 and 88.0 mg/kg. Concentrations of total PCBs for SC-6 were 19.9 and 30.3 mg/kg.

Nine (9) grab samples were taken from Snow Creek Area 7 (SC-7). The concentrations of total PCBs for these samples ranged from 0.5 to 19.0 mg/kg. Eleven grab samples were taken from Snow Creek Area 8 (SC-8). The concentrations of total PCBs for these samples ranged from 0.8 to 46.0 mg/kg.

Analysis for mercury was performed for areas SC-1, SC-3, SC-7, and SC-8. Mercury concentrations ranged from 0.19 to 0.27 mg/kg for these areas.

3.2 Choccolocco Creek

Two (2) composited samples each were taken from Choccolocco Creek Areas 7 and 9 (CC-7 and CC-9). Concentrations of total PCBs for CC-7 were 2.4 and 1.4 mg/kg. Concentrations of total PCBs for CC-9 were 0.4 and 0.3 mg/kg.

Six (6) composited samples were taken from Choccolocco Creek Area 23 (CC-23). The concentrations of total PCBs for these samples ranged from 2.0 to 10.8 mg/kg. Eleven composited samples were taken from Choccolocco Creek Area 24 (CC-24). The concentrations of total PCBs for these samples ranged from 1.2 to 8.9 mg/kg.

Two (2) composited samples were taken from Choccolocco Creek Area 26 (CC-26). The concentrations of total PCBs for these samples were 3.9 and 1.6 mg/kg. Four (4) composited samples were taken from Choccolocco Creek Area 29 (CC-29). The concentrations of total PCBs for these samples ranged from 2.0 to 4.6 mg/kg.

Analysis for mercury was performed for areas CC-7, CC-9, CC-23, CC-24, CC-26, and CC-29. Mercury concentrations ranged from 0.65 to 3.9 mg/kg for these areas.

3.3 Quality Control / Quality Assurance Procedures / Data Validation

Quality control/quality assurance (QA/QC) measures used in this investigation included the collection of duplicate samples, the collection of equipment blank samples and the use of trip blanks.

Selected samples were split in the field as duplicate samples and labeled as if they were a discrete sample. Duplicate samples were analyzed for PCBs only. Laboratory precision was calculated as relative percent deviation (RPD). Data were qualified as quantitative, qualitative, or unusable depending on the RPD. Quantitative data yielded RPD values of less than 60 per cent (%), qualitative data yielded RPD values of 60% to 100% and unusable data yielded RPD values over 100%. RPDs were calculated using the following formula:

$$RPD = \frac{(X - Y) \times 100\%}{(X + Y)(0.5)}$$

Where:

X = Primary sample concentration

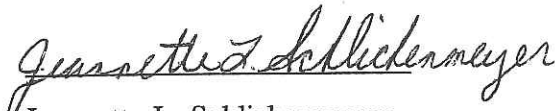
Y = Duplicate sample concentration

The duplicate samples were collected at those dredge spoil areas identified as Snow Creek Area 8 (SC-8-2 and duplicate SC-8-20), Choccolocco Creek Area 9 (9-2 and duplicate 9-20) and Choccolocco Creek Area 24 (24-2 and duplicate 24-20). Only those PCBs with concentrations above laboratory detection limits were compared. All data qualified as quantitative, with the exception of Arochlor 1248 analyses from the Choccolocco Creek Area samples 24-2 and duplicate 24-20. These data qualified as qualitative. Calculations are provided as Appendix B.

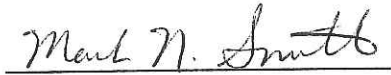
All holding times were met by Savannah Laboratories and Environmental Services, Inc. All equipment and trip blanks were non-detect for all Arochlors. All recoveries were in acceptable percentages for internal laboratory QA/QC.

Respectfully submitted,

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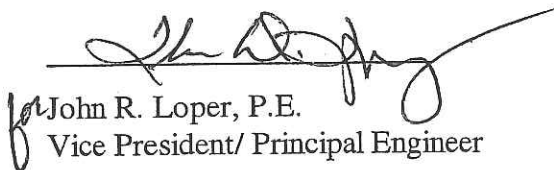

for John R. Loper, P.E.
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Table 1. Sample Information, for Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL. Page 1 of 1

Dredge Spoil Area	Location Lat. (° N) / Long. (° W)	Distance From Bank (ft)	Height/Depth (H/D) (ft)	Area (length x width) (ft x ft)	Number of Samples Taken*
Snow Creek					
Area 1	33° 39' 17.9800" / 85° 50' 13.1877"	26.6	H ~ 6	57 x 30	1
Area 3	33° 39' 14.1785" / 85° 50' 14.2223"	0	H = 7	40 x 13	1
Area 4	33° 39' 8.3975" / 85° 50' 13.6812"	0	H = 5	34 x 15	2
Area 5	33° 39' 8.2186" / 85° 50' 13.2113"	0	H = 5	33 x 15	2
Area 6	33° 39' 8.1003" / 85° 50' 12.8329"	0	H = 5	15 x 15	2
Area 7	33° 37' 24.7975" / 85° 49' 46.9691"	0	H = 3	450 x 40	9 ^G
Area 8	33° 37' 24.8565" / 85° 49' 46.3722"	0	H = 3	550 x 80	11 ^G
Choccolocco Creek					
Area 7	33° 34' 39.1138" / 85° 54' 07.6704"	500	D = 4	160 x 20	2
Area 9	33° 34' 39.5886" / 85° 54' 07.1254"	0	D = 0 to 7	100 x 75	2
Area 23	33° 35' 01.6099" / 85° 51' 09.9273"	20	D = 3	185 x 100	6
Area 24	33° 35' 02.0814" / 85° 50' 54.9943"	~5 (next to flood berm)	H ~10	280 x 165	11
Area 26	33° 35' 11.6729" / 85° 50' 32.8112"	~ 40	D = 5 to 6	140 x 60	2
Area 29	33° 35' 37.2064" / 85° 49' 48.6254"	10	D = 4 to 5	215 x 55	4

* All samples were composite samples of 5 aliquots unless indicated otherwise.

^G Indicates sample was a grab sample.

Table 2. Sample Locations and Depths (inches), Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL.
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<u>Dredge Spoil Area</u>											
Snow Creek 1 (SC-1)	Aliquot	SC-1-1-1	SC-1-1-2	SC-1-1-3	SC-1-1-4	SC-1-1-5					
	Depth	10	27	36	18	30					
Snow Creek 3 (SC-3)	Aliquot	SC-3-1-1	SC-3-1-2	SC-3-1-3	SC-3-1-4	SC-3-1-5					
	Depth	30	24	18	15	18					
Snow Creek 4 (SC-4)	Aliquot	SC-4-1-1	SC-4-1-2	SC-4-1-3	SC-4-1-4	SC-4-1-5					
	Depth	27	24	30	24	18					
	Aliquot	SC-4-2-1	SC-4-2-2	SC-4-2-3	SC-4-2-4	SC-4-2-5					
	Depth	24	18	15	21	33					
Snow Creek 5 (SC-5)	Aliquot	SC-5-1-1	SC-5-1-2	SC-5-1-3	SC-5-1-4	SC-5-1-5					
	Depth	33	30	27	15	15					
	Aliquot	SC-5-2-1	SC-5-2-2	SC-5-2-3	SC-5-2-4	SC-5-2-5					
	Depth	24	30	33	15	15					
Snow Creek 6 (SC-6)	Aliquot	SC-6-1-1	SC-6-1-2	SC-6-1-3	SC-6-1-4	SC-6-1-5					
	Depth	24	18	12	18	15					
	Aliquot	SC-6-2-1	SC-6-2-2	SC-6-2-3	SC-6-2-4	SC-6-2-5					
	Depth	30	24	12	12	15					
Snow Creek 7 (SC-7)	Aliquot	SC-7-1	SC-7-2	SC-7-3	SC-7-4	SC-7-5	SC-7-6	SC-7-7	SC-7-8	SC-7-9	
	Depth	20	18	6-30	20	24	15	27	18	24	
Snow Creek 8 (SC-8)	Aliquot	SC-8-1	SC-8-2	SC-8-3	SC-8-4	SC-8-5	SC-8-6	SC-8-7	SC-8-8	SC-8-9	SC-8-10 SC-8-11
	Depth	9	24	20	9	10	8	6-30	10	6-30	21 28

(mercury sample for SC-8-1 taken at a depth of 12 inches)

Table 2. Sample Locations and Depths (inches), Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL.

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Dredge Spoil Area						
Chocolocco Creek 7 (CC-7)	Aliquot	CC-7-1-1	CC-7-1-2	CC-7-1-3	CC-7-1-4	CC-7-1-5
	Depth	12	24	15	10	27
	Aliquot	CC-7-2-1	CC-7-2-2	CC-7-2-3	CC-7-2-4	CC-7-2-5
	Depth	20	12	6	24	8
Chocolocco Creek 9 (CC-9)	Aliquot	CC-9-1-1	CC-9-1-2	CC-9-1-3	CC-9-1-4	CC-9-1-5
	Depth	22	24	6	12	12
	Aliquot	CC-9-2-1	CC-9-2-2	CC-9-2-3	CC-9-2-4	CC-9-2-5
	Depth	10	18	20	24	16
Chocolocco Creek 23 (CC-23)	Aliquot	CC-23-1-1	CC-23-1-2	CC-23-1-3	CC-23-1-4	CC-23-1-5
	Depth	12	12	18	10	12
	Aliquot	CC-23-2-1	CC-23-2-2	CC-23-2-3	CC-23-2-4	CC-23-2-5
	Depth	12	14	18	18	15
	Aliquot	CC-23-3-1	CC-23-3-2	CC-23-3-3	CC-23-3-4	CC-23-3-5
	Depth	24	6	12	18	6-24
	Aliquot	CC-23-4-1	CC-23-4-2	CC-23-4-3	CC-23-4-4	CC-23-4-5
	Depth	18	8	12	24	6-24
	Aliquot	CC-23-5-1	CC-23-5-2	CC-23-5-3	CC-23-5-4	CC-23-5-5
	Depth	24	15	20	15	24
	Aliquot	CC-23-6-1	CC-23-6-2	CC-23-6-3	CC-23-6-4	CC-23-6-5
	Depth	12	15	12	15	18

Table 2. Sample Locations and Depths (inches), Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talladega Counties, AL.
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<u>Dredge Spoil Area</u>							
Choccolocco Creek 24 (CC-24)	Aliquot	CC-24-1-1	CC-24-1-2	CC-24-1-3	CC-24-1-4	CC-24-1-5	
	Depth	5	12	15	18	24	
	Aliquot	CC-24-2-1	CC-24-2-2	CC-24-2-3	CC-24-2-4	CC-24-2-5	
	Depth	8	18	24	12	6	
	Aliquot	CC-24-3-1	CC-24-3-2	CC-24-3-3	CC-24-3-4	CC-24-3-5	
	Depth	18	24	12	30	8	
	Aliquot	CC-24-4-1	CC-24-4-2	CC-24-4-3	CC-24-4-4	CC-24-4-5	
	Depth	8	12	18	15	6	
	Aliquot	CC-24-5-1	CC-24-5-2	CC-24-5-3	CC-24-5-4	CC-24-5-5	
	Depth	24	24	8	12	8	
	Aliquot	CC-24-6-1	CC-24-6-2	CC-24-6-3	CC-24-6-4	CC-24-6-5	
	Depth	6	15	12	15	8	
	Aliquot	CC-24-7-1	CC-24-7-2	CC-24-7-3	CC-24-7-4	CC-24-7-5	
	Depth	10	24	12	6	4	
	Aliquot	CC-24-8-1	CC-24-8-2	CC-24-8-3	CC-24-8-4	CC-24-8-5	
	Depth	24	6	6	12	12	
	Aliquot	CC-24-9-1	CC-24-9-2	CC-24-9-3	CC-24-9-4	CC-24-9-5	
	Depth	8	18	15	15	12	
	Aliquot	CC-24-10-1	CC-24-10-2	CC-24-10-3	CC-24-10-4	CC-24-10-5	
	Depth	12	8	12	15	6	

Table 2. Sample Locations and Depths (inches), Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL.
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Dredge Spoil Area

Choccolocco Creek 24 (CC-24)	Aliquot Depth	CC-24-11-1 12	CC-24-11-2 10	CC-24-11-3 16	CC-24-11-4 12	CC-24-11-5 8
Choccolocco Creek 26 (CC-26)	Aliquot Depth	CC-26-1-1 15	CC-26-1-2 18	CC-26-1-3 18	CC-26-1-4 12	CC-26-1-5 24
	Aliquot Depth	CC-26-2-1 30	CC-26-2-2 27	CC-26-2-3 24	CC-26-2-4 6	CC-26-2-5 18
Choccolocco Creek 29 (CC-29)	Aliquot Depth	CC-29-1-1 24	CC-29-1-2 30	CC-29-1-3 24	CC-29-1-4 12	CC-29-1-5 8
	Aliquot Depth	CC-29-2-1 24	CC-29-2-2 18	CC-29-2-3 12	CC-29-2-4 24	CC-29-2-5 18
	Aliquot Depth	CC-29-3-1 30	CC-29-3-2 20	CC-29-3-3 12	CC-29-3-4 15	CC-29-3-5 18
	Aliquot Depth	CC-29-4-1 6	CC-29-4-2 24	CC-29-4-3 15	CC-29-4-4 15	CC-29-4-5 18

Table 3. Soil Analyses, Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL. Page 1 of 3

Area	Sample I.D.	Arochlor 1016 (mg/Kg)	Arochlor 1221 (mg/Kg)	Arochlor 1232 (mg/Kg)	Arochlor 1242 (mg/Kg)	Arochlor 1248 (mg/Kg)	Arochlor 1254 (mg/Kg)	Arochlor 1260 (mg/Kg)	Total PCBs (mg/Kg)	Mercury (mg/Kg)
Snow Creek	SC-1	<0.700	<1.400	<0.700	<0.700	2.200	12.000	5.400	19.600	0.25
	SC-3	<0.720	<1.400	<0.720	<0.720	3.300	15.000	6.600	24.900	0.20
	SC-4-1	<0.350	<0.710	<0.350	<0.350	2.300	7.700	3.800	13.800	NA
	SC-4-2	<0.700	<1.400	<0.700	<0.700	2.300	9.700	5.400	17.400	NA
	SC-5-1	<0.720	<1.400	<0.720	<0.720	<0.720	9.500	4.700	14.200	NA
	SC-5-2	<3.600	<7.300	<3.600	<3.600	29.000	43.000	16.000	88.000	NA
	SC-6-1	<0.720	<1.400	<0.720	<0.720	2.900	12.000	5.000	19.900	NA
SC-6	SC-6-2	<3.800	<7.600	<3.800	<3.800	<3.800	21.000	9.300	30.300	NA
	SC-7-1	<0.370	<0.750	<0.370	<0.370	<0.370	2.800	1.800	4.600	NA
	SC-7-2	<0.037	<0.075	<0.037	<0.037	0.044	0.440	0.780	1.264	NA
	SC-7-3	<0.038	<0.077	<0.038	<0.038	0.052	0.640	0.840	1.532	NA
	SC-7-4	<0.038	<0.076	<0.038	<0.038	0.067	0.580	0.470	1.117	0.19
	SC-7-5	<0.037	<0.075	<0.037	<0.037	<0.037	0.240	0.280	0.520	NA
	SC-7-6	<0.370	<0.750	<0.370	<0.370	0.980	1.800	2.500	5.280	NA
SC-8	SC-7-7	<0.180	<0.370	<0.180	<0.180	0.340	0.580	0.760	1.680	NA
	SC-7-8	<0.072	<0.150	<0.072	<0.072	0.270	0.600	0.630	1.500	NA
	SC-7-9	<1.800	<3.700	<1.800	<1.800	4.700	7.900	6.400	19.000	NA
	SC-8-1	<0.036	<0.074	<0.036	<0.036	0.190	0.470	0.510	1.170	0.27
	SC-8-2	<1.800	<3.600	<1.800	<1.800	6.200	13.000	9.500	28.700	NA
	SC-8-3	<0.076	<0.150	<0.076	<0.076	0.340	1.000	0.860	2.200	NA
	SC-8-4	<0.038	<0.077	<0.038	<0.038	0.140	0.290	0.320	0.750	NA
	SC-8-5	<0.073	<0.150	<0.073	<0.073	0.530	1.100	1.000	2.630	NA
	SC-8-6	<0.380	<0.760	<0.380	<0.380	1.500	3.100	2.200	6.800	NA
	SC-8-7	<0.750	<1.500	<0.750	<0.750	3.200	5.700	5.100	14.000	NA

NA=Not Analyzed.

mg/Kg = milligrams per kilogram or parts per million

<X.XXX = laboratory detection limit

Table 3. Soil Analyses, Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL. Page 2 of 3

Area	Sample I.D.	Arochlor 1016 (mg/Kg)	Arochlor 1221 (mg/Kg)	Arochlor 1232 (mg/Kg)	Arochlor 1242 (mg/Kg)	Arochlor 1248 (mg/Kg)	Arochlor 1254 (mg/Kg)	Arochlor 1260 (mg/Kg)	Total PCBs (mg/Kg)	Mercury (mg/Kg)
Snow Creek	SC-8	<0.380	<0.760	<0.380	<0.380	1.100	2.300	2.000	5.400	NA
	SC-8-9	<0.370	<0.750	<0.370	<0.370	2.000	3.600	4.300	9.900	NA
	SC-8-10	<1.900	<3.800	<1.900	<1.900	8.400	16.000	9.800	34.200	NA
	SC-8-11	<1.900	<3.800	<1.900	<1.900	7.000	25.000	14.000	46.000	NA
	SC-8-20	<1.800	<3.700	<1.800	<1.800	6.000	12.000	9.100	27.100	NA
Choccolocco Creek	CC-7	<0.180	<0.380	<0.180	<0.180	0.620	0.990	0.760	2.370	NA
	7-2	<0.038	<0.077	<0.038	<0.038	0.240	0.440	0.700	1.380	1.0
	9-1	<0.035	<0.071	<0.035	<0.035	0.130	0.130	0.140	0.400	3.9
	9-2	<0.036	<0.072	<0.036	<0.036	0.062	0.110	0.130	0.302	NA
	9-20	<0.035	<0.071	<0.035	<0.035	0.083	0.140	0.190	0.413	NA
	23-1	<0.360	<0.720	<0.360	<0.360	0.780	1.800	1.700	4.280	NA
	23-2	<0.390	<0.800	<0.390	<0.390	1.300	2.800	2.300	6.400	NA
	23-3	<0.072	<0.140	<0.072	<0.072	0.370	0.800	0.800	1.970	NA
	23-4	<0.190	<0.380	<0.190	<0.190	0.660	1.700	1.500	3.860	NA
	23-5	<0.760	<1.500	<0.760	<0.760	<0.760	6.100	4.700	10.800	0.65
CC-24	23-6	<0.380	<0.770	<0.380	<0.380	0.470	2.900	3.400	6.770	NA
	24-1	<0.170	<0.350	<0.170	<0.170	0.450	0.890	0.720	2.060	NA
	24-2	<0.180	<0.360	<0.180	<0.180	0.590	1.600	1.500	3.690	NA
	24-3	<0.370	<0.750	<0.370	<0.370	1.300	3.400	3.100	7.800	NA
	24-4	<0.200	<0.400	<0.200	<0.200	0.920	2.000	2.000	4.920	NA
	24-5	<0.069	<0.140	<0.069	<0.069	0.330	0.460	0.380	1.170	NA
	24-6	<0.180	<0.360	<0.180	<0.180	0.410	0.650	0.660	1.720	NA

NA=Not Analyzed.

mg/Kg = milligrams per kilogram or parts per million

<X.XXX = laboratory detection limit

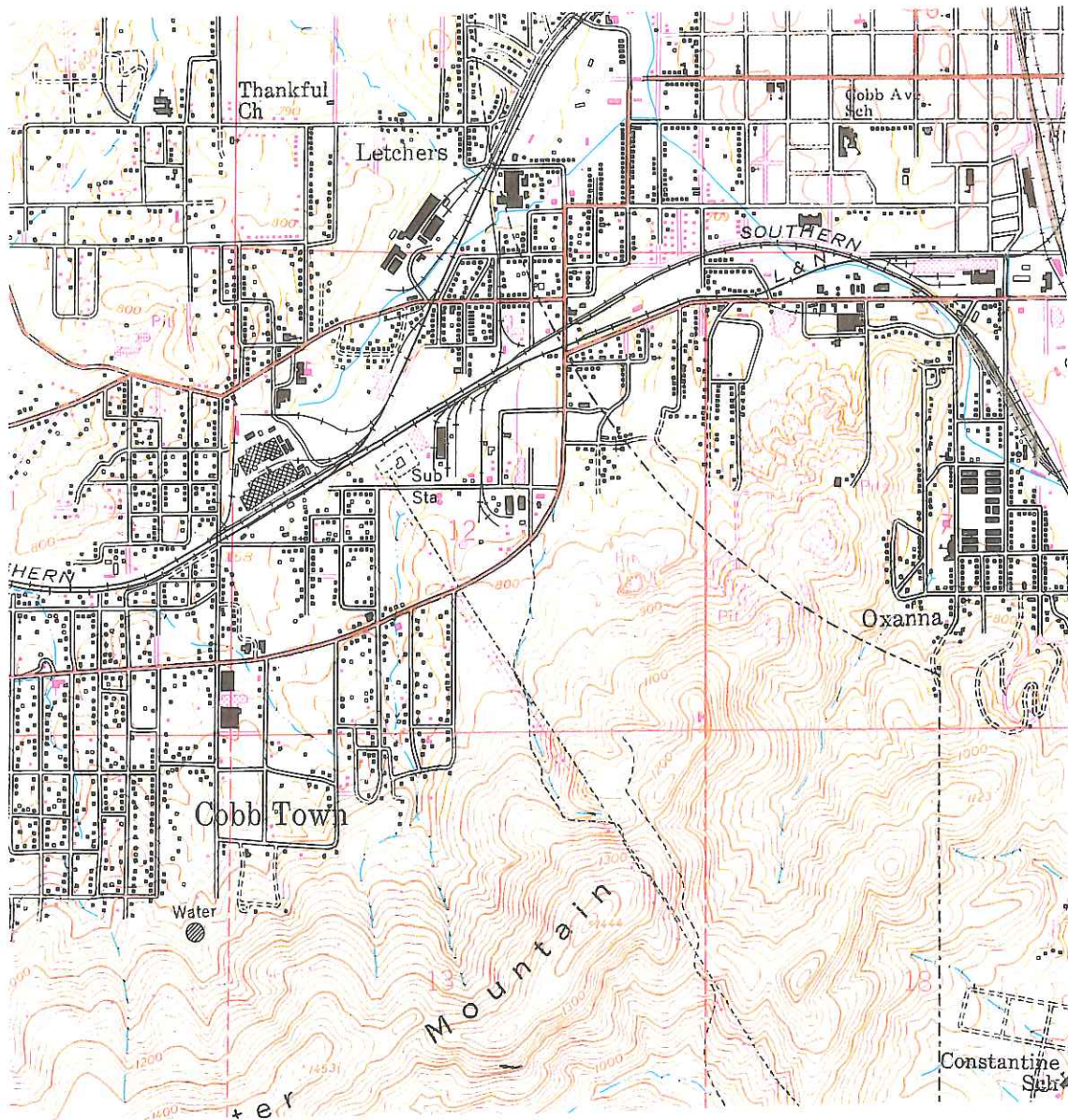
Table 3. Soil Analyses, Dredge Spoil Areas, Snow and Choccolocco Creeks, Calhoun and Talledega Counties, AL. Page 3 of 3

Area	Sample I.D.	Arochlor 1016 (mg/Kg)	Arochlor 1221 (mg/Kg)	Arochlor 1232 (mg/Kg)	Arochlor 1242 (mg/Kg)	Arochlor 1248 (mg/Kg)	Arochlor 1254 (mg/Kg)	Arochlor 1260 (mg/Kg)	Total PCBs (mg/Kg)	Mercury (mg/Kg)
Choccolocco Creek CC-24	24-7	<0.360	<0.730	<0.360	<0.360	0.840	1.400	1.400	3.640	NA
	24-8	<0.760	<1.500	<0.760	<0.760	1.700	3.500	3.700	8.900	NA
	24-9	<0.360	<0.740	<0.360	<0.360	0.770	1.700	1.900	4.370	NA
	24-10	<0.350	<0.720	<0.350	<0.350	0.550	2.100	2.000	4.650	2.0
	24-11	<0.180	<0.360	<0.180	<0.180	0.610	0.930	0.750	2.290	NA
	24-20	<0.830	<1.700	<0.830	<0.830	1.200	2.500	2.600	6.300	NA
CC-26	26-1	<0.190	<0.380	<0.190	<0.190	1.500	1.500	0.930	3.930	2.6
	26-2	<0.170	<0.360	<0.170	<0.170	0.360	0.560	0.630	1.550	NA
CC-29	29-1	<0.190	<0.380	<0.190	<0.190	0.510	0.820	0.640	1.970	NA
	29-2	<0.370	<0.750	<0.370	<0.370	1.400	2.000	1.200	4.600	NA
	29-3	<0.076	<0.150	<0.076	<0.076	1.100	0.750	0.600	2.450	3.6
	29-4	<0.180	<0.370	<0.180	<0.180	0.660	1.500	1.100	3.260	NA

NA=Not Analyzed.

mg/Kg = milligrams per kilogram or parts per million

<XXX = laboratory detection limit



SOURCE:
U.S.G.S ANNISTON, ALABAMA
QUADRANGLE 1975
7.5 MINUTES SERIES (TOPOGRAPHIC)

Title:

SITE LOCATION MAP

ANNISTON, ALABAMA

Prepared For:

SOLUTIA, INC.

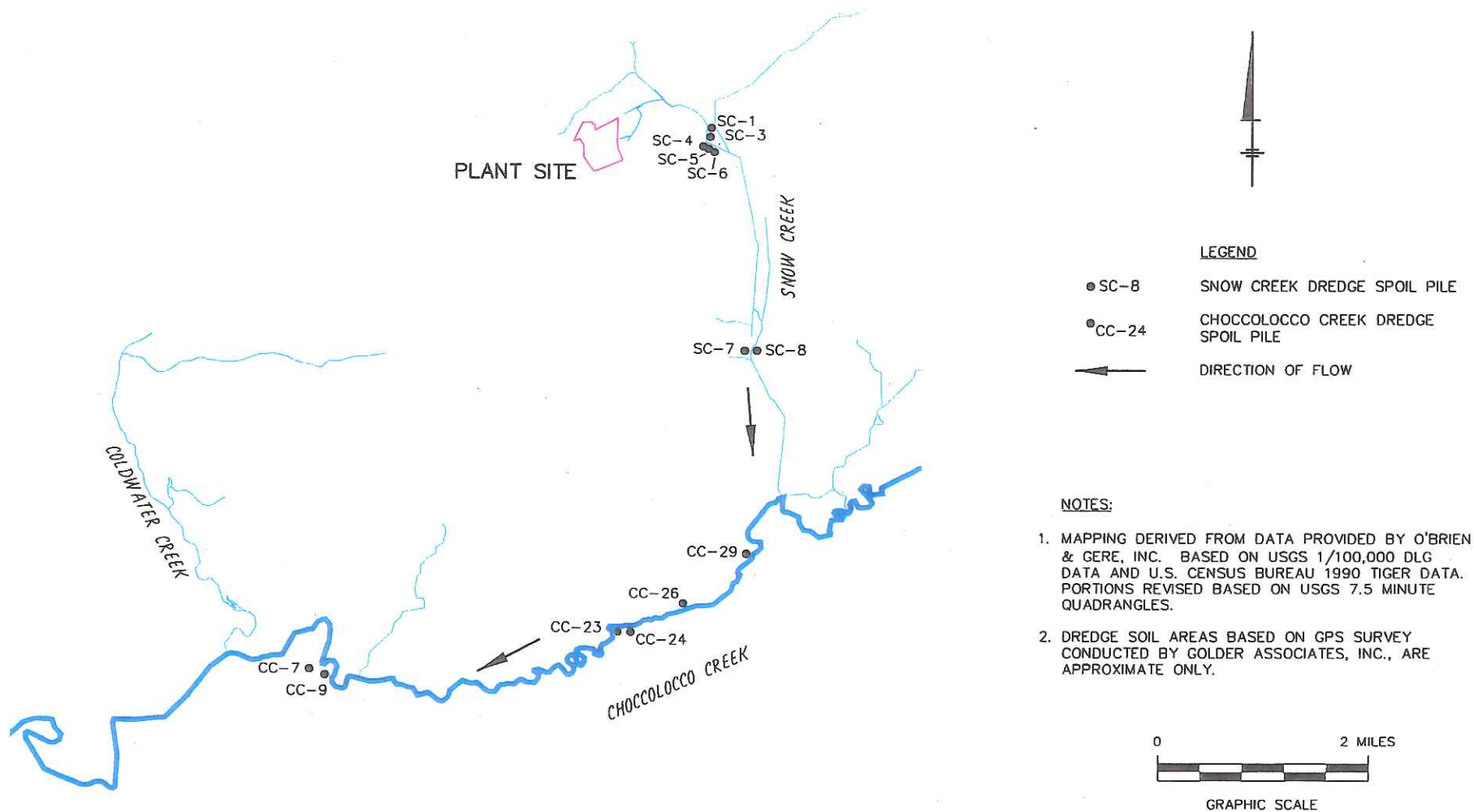
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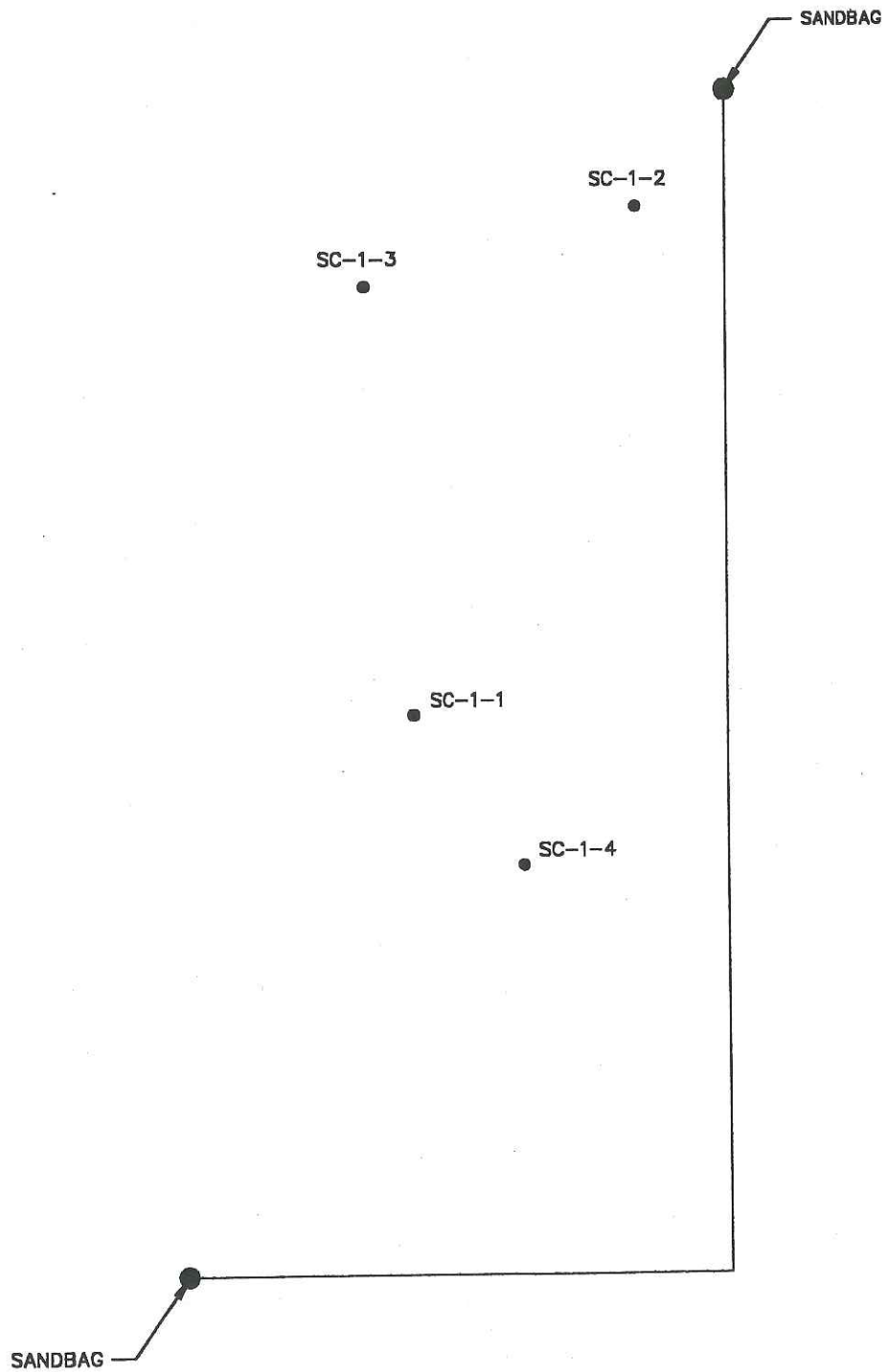
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Prepared by: M.J.S	Scale: SHOWN
Project Mgr: J.R.L.	Revision: FINAL
Proj No: 06638T04	File No: 38T04.1

Figure

1

Figure 2 - Locations of Dredge Spoil Areas





Title:

SAMPLING LOCATIONS DREDGE SPOIL AREA SC-1

ANNISTON, ALABAMA

Prepared For:

SOLUTIA, INC.

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ROUX ASSOCIATES INC
Environmental Consulting
& Management

Compiled by: J.L.S.

Date: 8/99

Prepared by: M.J.S.

Scale: 1/8" = 1'

Project Mgr: J.R.L.

Revision: FINAL

Proj No: 06638T04

File No: 38T04.3

Figure

3



SNOW CREEK

SC-3-2

SC-3-4

SC-3-1

SC-3-3

SC-3-5

HIGHWAY
202

DITCH

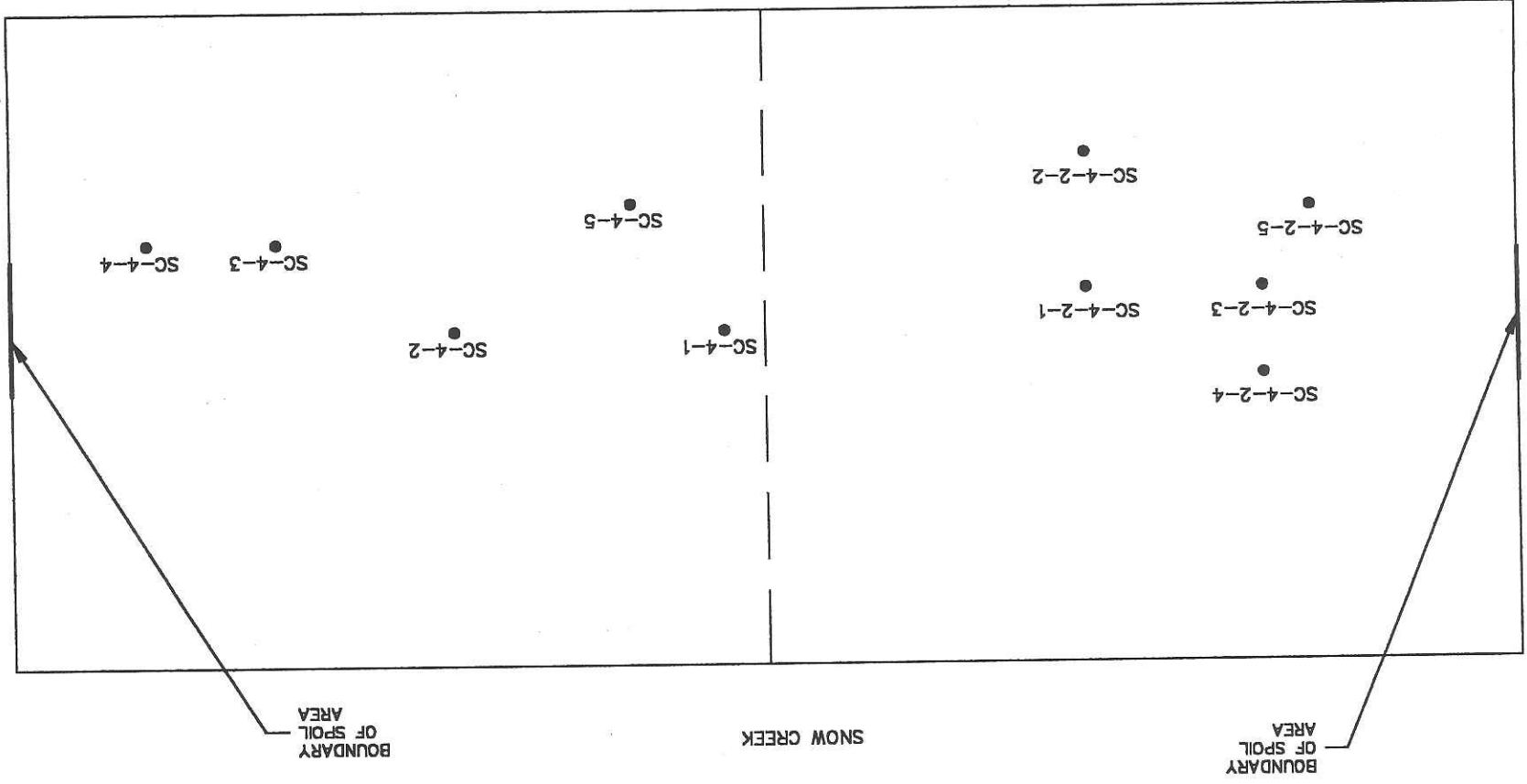
TREE

Title: SAMPLING LOCATIONS
DREDGE SPOIL AREA SC-3

ANNISTON, ALABAMA

Prepared For: SOLUTIA, INC.

ROUX ROUX ASSOCIATES INC Environmental Consulting & Management	Compiled by: J.L.S.	Date: 8/99	Figure 4
	Prepared by: M.J.S.	Scale: 1/4" = 1'	
	Project Mgr: J.R.L.	Revision: FINAL	
	Proj No: 06638T04	File No: 38T04.4	



Title: SAMPLING LOCATIONS
DREDGE SPOIL AREA SC-4

ANNISTON, ALABAMA

Prepared For:

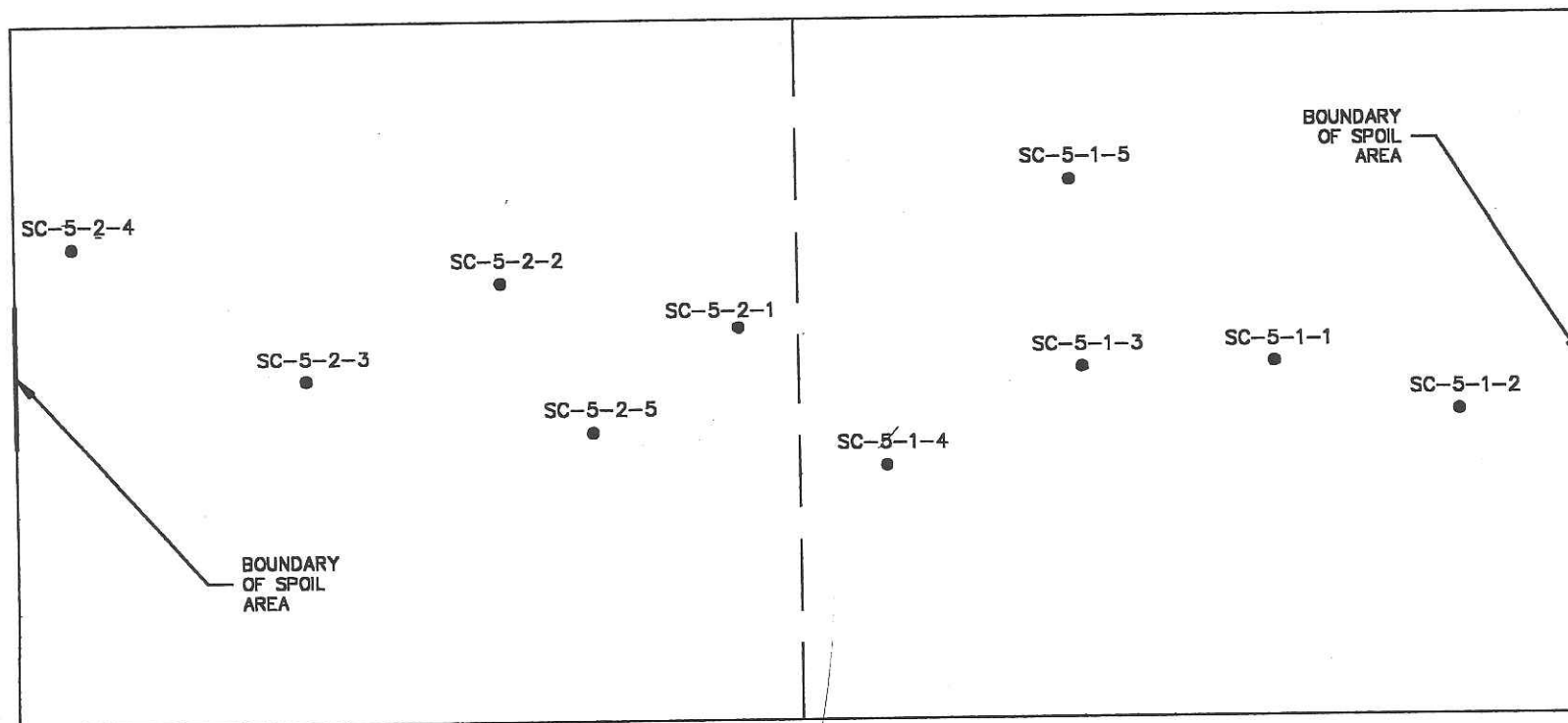
SOLUTIA, INC.

ROUX
Environmental Consulting
Associates, Inc.

Compiled by: J.L.S.	Date: 8/98
Prepared by: M.J.S.	Scale: 1/4" = 1'
Project Mgr: J.R.L.	Revision: FINAL
Proj No: 06638T04	File No: 38T04.5



SNOW CREEK



Title: SAMPLING LOCATIONS
DREDGE SPOIL AREA SC-5

ANNISTON, ALABAMA

Prepared For:

SOLUTIA, INC.

ROUX

ROUX ASSOCIATES INC
Environmental Consulting
& Management

Compiled by: J.L.S.

Prepared by: M.J.S.

Project Mgr: J.R.L.

Proj No: 06638T04

Date: 8/99

Scale: 1/4" = 1'

Revision: FINAL

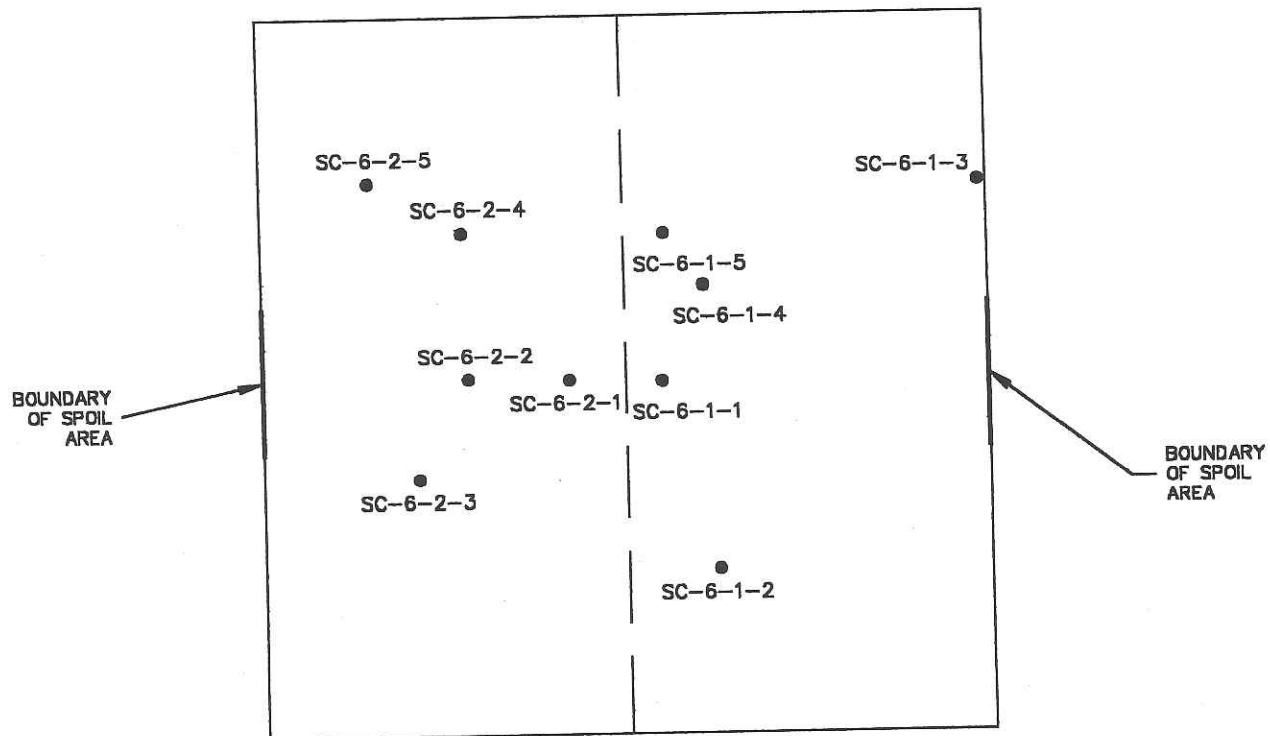
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Figure

6



SNOW CREEK



Title: SAMPLING LOCATIONS
DREDGE SPOIL AREA SC-6

ANNISTON, ALABAMA

Prepared For:

SOLUTIA, INC.

ROUX

ROUX ASSOCIATES INC
Environmental Consulting
& Management

Compiled by: J.L.S.

Prepared by: M.J.S.

Project Mgr: J.R.L.

Proj No: 06638T04

Date: 8/98

Scale: 1/4" = 1'

Revision: FINAL

File No: 38T04.7

Figure

7



SC-7-9

SC-7-8

SC-7-7

SC-7-6

SC-7-5

SC-7-4

SC-7-3

SC-7-2

SC-7-1

EVERGREEN CLOSEST TO CREEK

RAILROAD TRACKS

Title:

SAMPLING LOCATIONS
DREDGE SPOIL AREA SC-7

ANNISTON, ALABAMA

Prepared For:

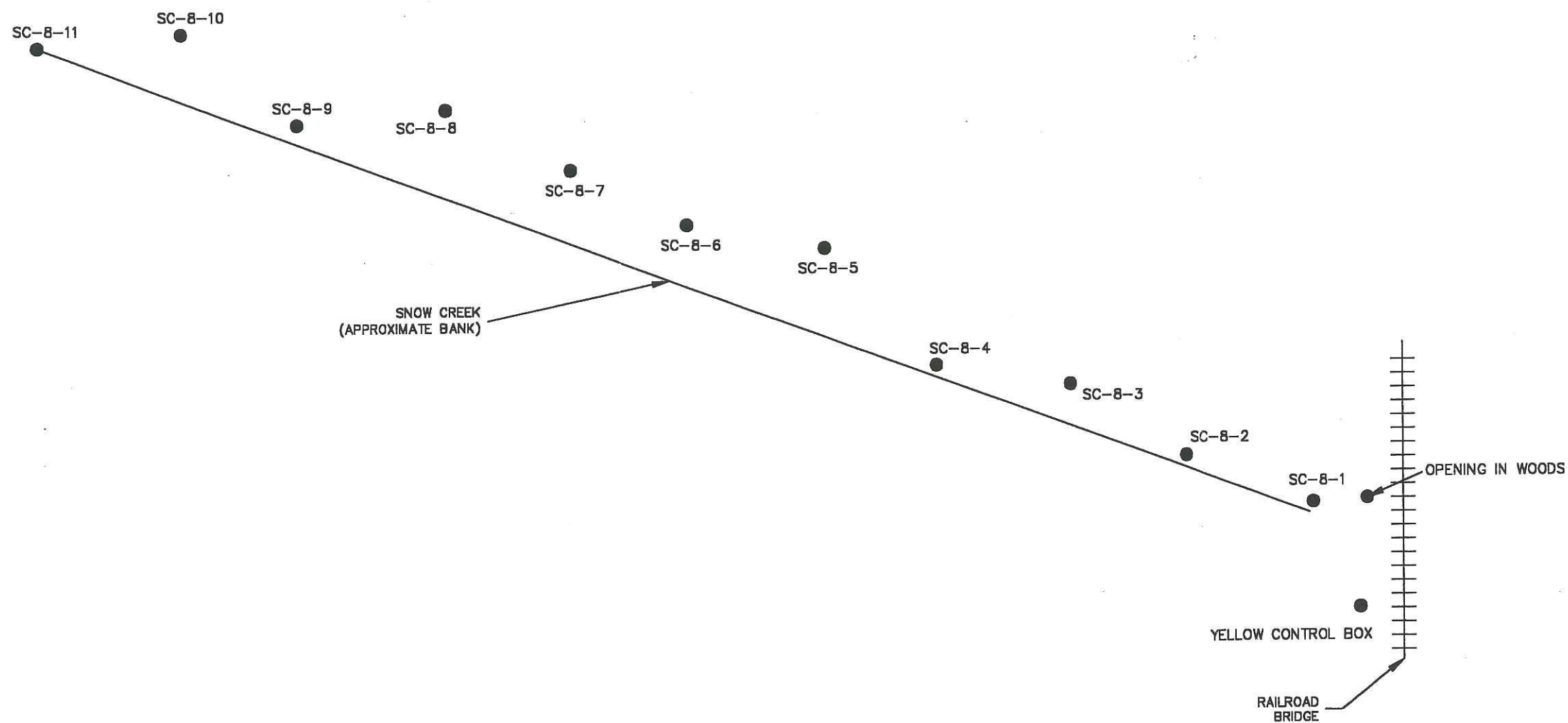
SOLUTIA, INC.

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& Management

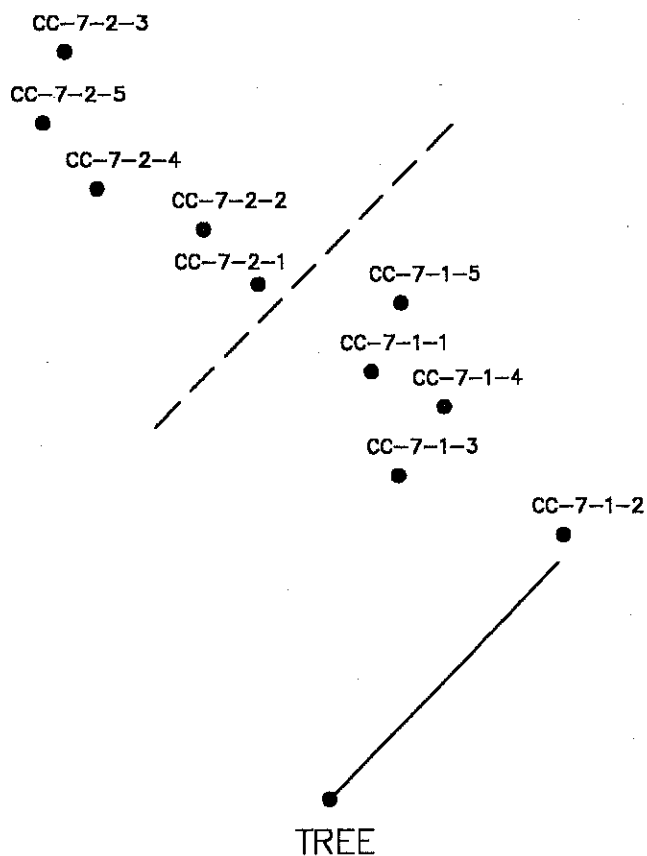
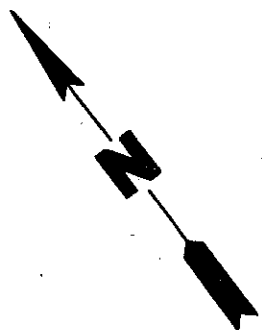
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Prepared by: M.J.S.	Scale: 1"=50'
Project Mgr: J.R.L.	Revision: FINAL
Proj No: 06638T04	File No: 38T04.8

Figure

8



Title: SAMPLING LOCATIONS DREDGE SPOIL AREA SC-8			
ANNISTON, ALABAMA			
Prepared For: SOLUTIA, INC.			
ROUX ROUX ASSOCIATES INC Environmental Consulting & Management	Compiled by: J.L.S.	Date: 8/99	Figure 9
	Prepared by: M.J.S.	Scale: 1"=50'	
	Project Mgr: J.R.L.	Revision: FINAL	
	Proj No: 06638T04	File No: 38T04.9	



Title:

SAMPLING LOCATIONS
DREDGE SPOIL AREA CC-7

TALLADEGA COUNTY, ALABAMA

Prepared For:

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Prepared by: M.J.S. Scale: 1"=25'

Project Mgr: J.R.L. Revision: FINAL

Proj No: 06638T04 File No: 38T04.10

Figure

10



CLEARING

CC-9-2-5 CC-9-2-4
CC-9-2-2
CC-9-2-1 CC-9-2-3
CC-9-1-2 CC-9-1-4
CC-9-1-5
CC-9-1-1 CC-9-1-3

TREES

CHOCOLOCCO CREEK

Title:

SAMPLING LOCATIONS
DREDGE SPOIL AREA CC-9

TALLADEGA COUNTY, ALABAMA

Prepared For:

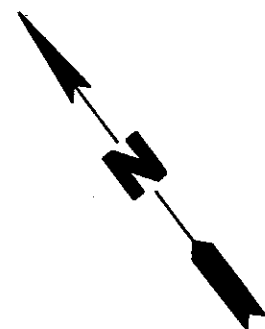
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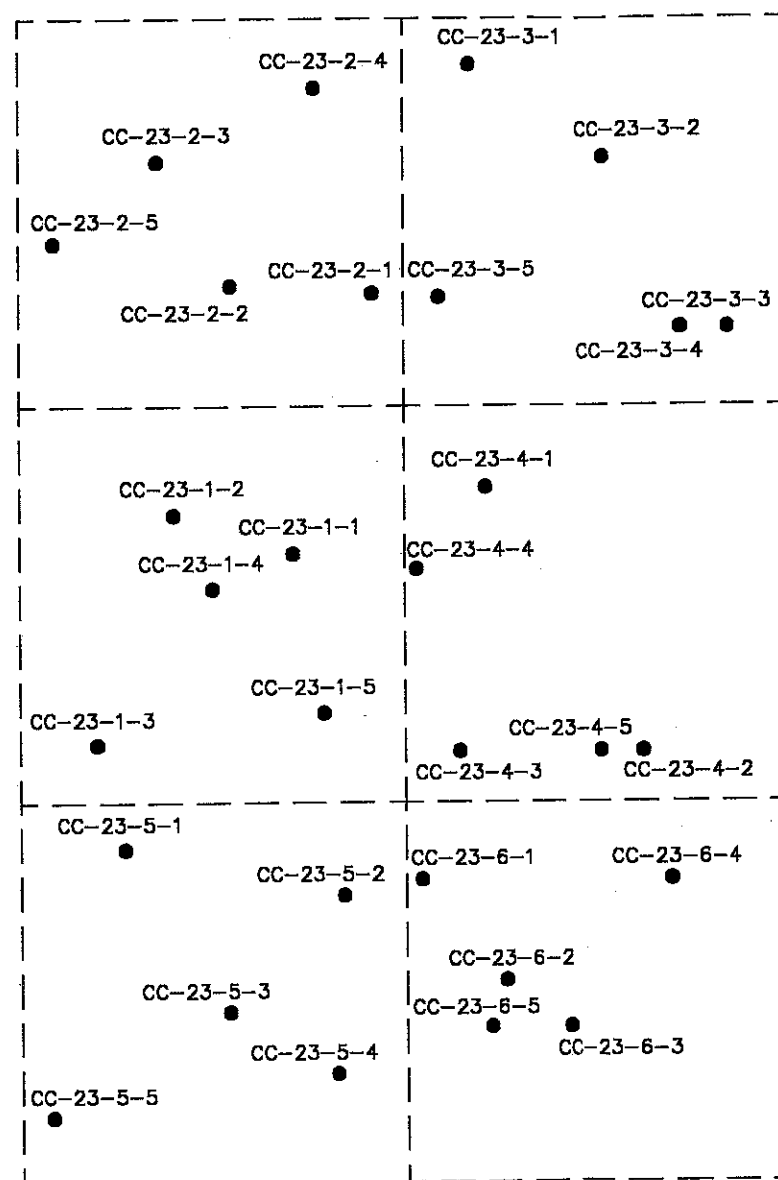
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Prepared by: M.J.S.	Scale: 1"=25'
Project Mgr: J.R.L.	Revision: FINAL
Proj No: 06638T04	File No: 38T04.11

Figure

11

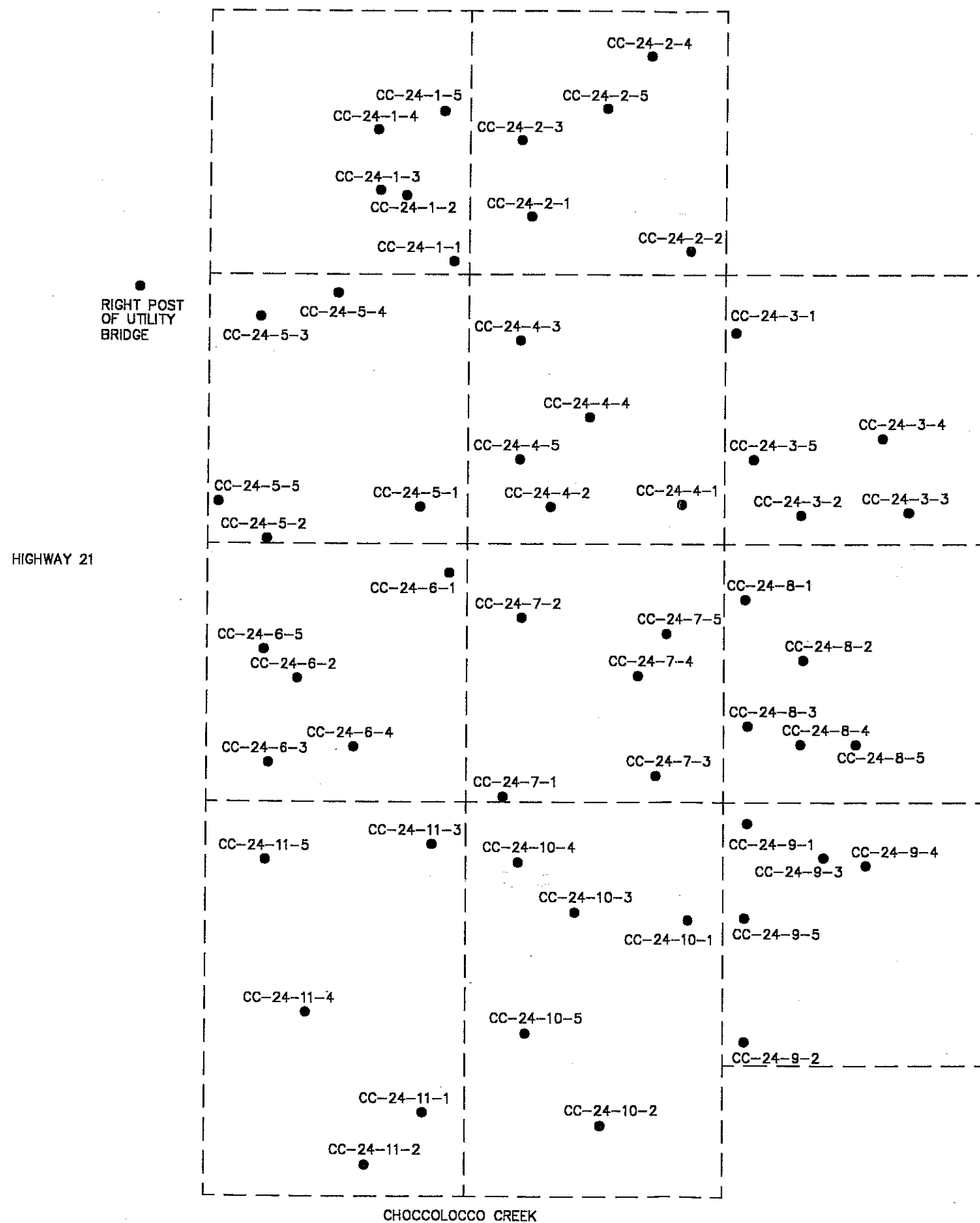


CHOCOLOCCO CREEK

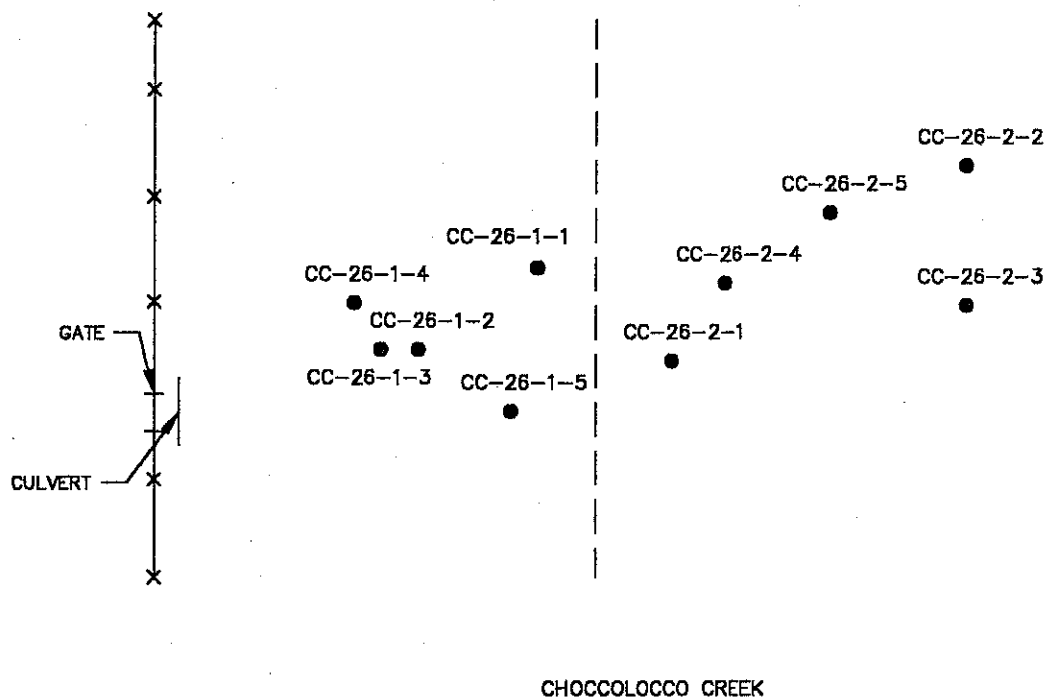


TREE

Title: SAMPLING LOCATIONS DREDGE SPOIL AREA CC-23			
TALLADEGA COUNTY, ALABAMA			
Prepared For: SOLUTIA, INC.			
ROUX ROUX ASSOCIATES INC Environmental Consulting & Management	Compiled by: J.L.S.	Date: 8/99	Figure 12
	Prepared by: M.J.S.	Scale: 1"=25'	
	Project Mgr: J.R.L.	Revision: FINAL	
	Proj No: 06638T04	File No: 38T04.13	



Title: SAMPLING LOCATIONS DREDGE SPOIL AREA CC-24				
TALLADEGA COUNTY, ALABAMA				
Prepared For: SOLUTIA, INC.				
ROUX ROUX ASSOCIATES INC Environmental Consulting & Management	Compiled by: J.L.S.	Date: 8/99	Figure	
	Prepared by: M.J.S.	Scale: 1"=25'	13	
	Project Mgr: J.R.L.	Revision: FINAL		
	Proj No: 06638T04	File No: 38T04.12		



Title:

SAMPLING LOCATIONS
DREDGE SPOIL AREA CC-26

CALHOUN COUNTY, ALABAMA

Prepared For:

SOLUTIA, INC.

ROUX

ROUX ASSOCIATES INC
Environmental Consulting
& Management

Compiled by: J.L.S.

Prepared by: M.J.S.

Project Mgr: J.R.L.

Proj No: 06638T04

Date: 8/99

Scale: 1"=25'

Revision: FINAL

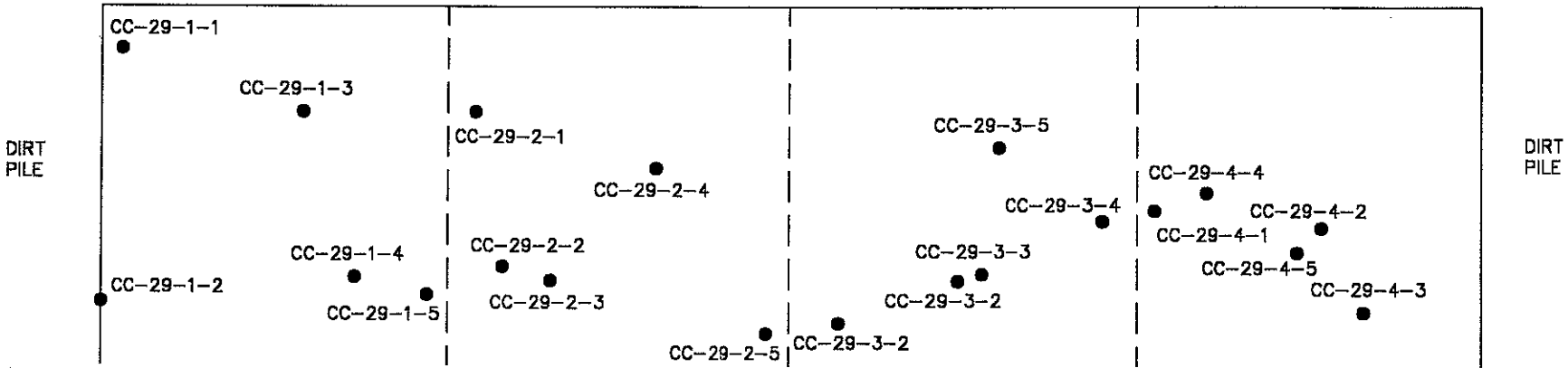
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Figure

14



CHOCOLOCCO CREEK



Title:			
SAMPLING LOCATIONS DREDGE SPOIL AREA CC-29			
CALHOUN COUNTY, ALABAMA			
Prepared For:			
SOLUTIA, INC.			
 ROUX ASSOCIATES INC Environmental Consulting & Management	Compiled by: J.L.S.	Date: 8/99	Figure 15
	Prepared by: M.J.S.	Scale: 1"=25'	
	Project Mgr: J.R.L.	Revision: FINAL	
	Proj No: 06638T04	File No: 38T04.15	

APPENDIX A

REVISED DREDGE SPOIL AREA RFI/CS WORK PLAN

REVISED DREDGE SPOIL AREA RFI/CS WORK PLAN
Snow and Choccolocco Creeks
Calhoun and Talladega Counties, Alabama

Solutia Inc. – Anniston Facility
USEPA I.D. No. ALD 004 019 048

September 13, 1999

Solutia Inc.
300 Birmingham Highway
Anniston, Alabama 36201

CONTENTS

1.0 INTRODUCTION	1
2.0 SCOPE OF WORK.....	1
3.0 SAMPLING STRATEGY.....	1
4.0 SAMPLING METHODS	2
5.0 SAMPLE ANALYSIS	2
6.0 SCHEDULE AND REPORTING	3

TABLES

1. Dredge Spoil Area Sample Information

1.0 INTRODUCTION

In October 1998, Solutia Inc. (Solutia) submitted to the Alabama Department of Environmental Management (ADEM) a *Dredge Spoil Area Evaluation Report* that described Solutia's efforts to locate and evaluate dredge spoil areas along Snow and Choccolocco Creeks in Calhoun and Talladega Counties, Alabama. This report also presented recommendations to ensure the future stability of these areas. ADEM, by correspondence dated April 19, 1999, has requested that Solutia prepare a work plan to address sampling at each dredge spoil area.

2.0 SCOPE OF WORK

The *Dredge Spoil Area Evaluation Report* identified eight (8) dredge spoil areas along Snow Creek and 19 dredge spoil areas along Choccolocco Creek, for a total of 27 areas. In a letter to ADEM dated April 24, 1999 Solutia proposed that three (3) of the dredge spoil areas along Snow Creek (Areas 4, 5, and 6) be removed to permit the City of Anniston to carry out erosion control measures in the near future and that the areas be sampled prior to removal. The 27 dredge spoil areas will be sampled for polychlorinated biphenyls (PCBs) and mercury, as requested by ADEM, in two phases. Phase 1 sampling will include areas to be removed by the City of Anniston; areas to be stabilized, as identified in the *Dredge Spoil Area Evaluation Report*; and stable areas that are less than 25 feet from Snow or Choccolocco Creeks. These areas are Snow Creek Areas 1, 3, 4, 5, 6, 7, and 8; and Choccolocco Creek Areas 7, 9, 23, 24, 26 and 29. The remaining 14 areas will be sampled in Phase 2 as part of the pending flood plain phase of the Off-Site RFI/CS investigation.

3.0 SAMPLING STRATEGY

Twenty-four (24) dredge spoil areas will be sampled in two (2) phases. The location, size, and distance of each area from either Snow or Choccolocco Creek are provided in Table 1. A 50-foot by 50-foot grid was used to determine the number of samples to be collected from each area. A fifty-foot grid spacing was selected to provide representative samples from dredge spoil areas which vary widely in size. Each area was approximated as a rectangle. The maximum length and width of the areas were used as the length and width of the rectangle. The maximum number of samples for each area was defined as

the number of squares of the grid that fell within the rectangle. The squares of the grid represent the boundaries for composite sampling. Each grid sample will be a composite sample consisting of five (5) aliquots of sediment collected at randomly selected locations and depths within the composite boundaries. The maximum number of samples for each area is indicated on Table 1.

Seven areas, Snow Creek Areas 1,2, 3, and 7 and Choccolocco Creek Areas 7, 28B, and 29 are too small to fit within the grid spacing selected. One composite sample will be taken from each of the following areas: Snow Creek Areas 1 through 3, at randomly selected locations and depths at each area. Two (2) composite samples will be taken from Choccolocco Creek Areas 7 and 28B at randomly selected locations and depths. Four (4) composite samples will be taken from Choccolocco Creek Area 29 at randomly selected locations and depths. Nine (9) composite samples will be taken from Snow Creek Area 7 at randomly selected locations and depths. All composite locations will be determined from a known location at each area.

Snow Creek Areas 4, 5, and 6 will be handled differently than the other dredge spoil areas because they are scheduled to be removed by the City of Anniston. Two (2) composite samples of five (5) aliquots each will be taken from each of these areas for waste characterization purposes.

4.0 SAMPLING METHODS

Samples will be collected according to methods described in the Off-Site RFI/CS Work Plan (March 1999). All health and safety, sample handling, documentation, and custody procedures described in this plan will be followed.

5.0 SAMPLE ANALYSIS

All composited samples, duplicates, and blanks will be analyzed for PCBs by USEPA Method SW846 8082. In addition, one composite sample from each dredge spoil area will be analyzed for total mercury by USEPA Method SW846 6010B, with the exception of Snow Creek Areas 4, 5, and 6. All analyses will be conducted as presented in the Off-

Site RFI/CS Work Plan. All data collection, management, review, validation and verification procedures included in the Off-Site RFI/CS Work Plan will be followed.

6.0 SCHEDULE AND REPORTING

Phase 1 sampling will commence within 30 days of ADEM approval of this work plan and receipt of access agreements from affected property owners, whichever is later. Phase 1 sampling will be completed within two (2) weeks. Laboratory analyses will be completed within six (6) weeks of the completion of sampling. Data review, validation, and verification and a report of the results for Phase 1 sampling will be completed within six (6) weeks of receipt of laboratory data. The schedule for Phase 2 sampling will be included in the pending flood plain investigation work plan to be submitted later this year.

The Dredge Spoil Area Phase 1 Sampling Final Report will describe all sampling locations, methods and results. Sample locations will be identified with sufficient detail to allow additional sampling of individual piles if determined necessary. Sample locations and results will be summarized in a table and presented on appropriate figures for documentation purposes. Copies of all analytical results and chain-of-custody forms will be included as an appendix.

Table 1. Dredge Spoil Area Sample Information, Snow and Choccolocco Creeks, Calhoun and Talladega Counties, Alabama.

Dredge Spoil Area	Location Lat. (° N) / Long. (°W)	Distance From Bank (ft)	Height/Depth (H/D) (ft)	Area (length x width) (ft x ft)	Maximum Number of Samples
Snow Creek					
Area 1	33° 39' 17.9800" / 85° 50' 13.1877"	26.6	H ~ 6	57 x 30	1
Area 2	33° 39' 18.0002" / 85° 50' 14.3286"	30	H = 3	50 x 27	1
Area 3	33° 39' 14.1785" / 85° 50' 14.2223"	0	H = 7	40 x 13	1
Area 7	33° 37' 24.7975" / 85° 49' 46.9691"	0	H = 3	450 x 40	9
Area 8	33° 37' 24.8565" / 85° 49' 46.3722"	0	H = 3	550 x 80	11
Choccolocco Creek					
Area 1	33° 34' 48.9501" / 85° 54' 49.7044"	70	D = 4	130 x 100	4
Area 4	33° 34' 59.9733" / 85° 53' 59.5825"	75	D = 3 to 5	100 x 85	2
Area 5	33° 34' 52.4686" / 85° 54' 03.9470"	200	D = 3 to 5	100 x 120	4
Area 7	33° 34' 39.1138" / 85° 54' 07.6704"	500	D = 4	160 x 20	2
Area 9	33° 34' 39.5886" / 85° 54' 07.1254"	0	D = 0 to 7	100 x 75	2
Area 10	33° 34' 33.1961" / 85° 53' 43.2474"	200	H = 2 / D=3	250 x 110	10
Area 12	33° 34' 33.2024" / 85° 53' 22.0937"	80	D = 4 to 5	100 x 90	2
Area 15	33° 34' 34.0765" / 85° 53' 13.1504"	150	D = 3 to 4	70 x 150	3
Area 16	33° 34' 30.8762" / 85° 53' 00.6391"	100	H ~ 2 / D = 2 to 5	165 x 100	6
Area 18	33° 34' 38.1790" / 85° 52' 13.0771"	500	H = 3 / D = 2	130 x 150	6
Area 19	33° 34' 31.3623" / 85° 51' 58.8287"	250	D = 5 to 6	100 x 65	2
Area 23	33° 35' 01.6099" / 85° 51' 09.9273"	20	D = 3	185 x 100	6
Area 24	33° 35' 02.0814" / 85° 50' 54.9943"	~5 (next to flood berm)	H ~10	280 x 165	15
Area 25	33° 35' 05.1703" / 85° 50' 45.5931"	70	D = 4 to 5	110 x 100	4
Area 26	33° 35' 11.6729" / 85° 50' 32.8112"	~ 40	D = 5 to 6	140 x 60	2
Area 28A	33° 35' 20.6653" / 85° 50' 05.1416"	80	D = 5 to 6	240 x 70	4
Area 28B	33° 35' 26.1406" / 85° 49' 59.4665"	80	D = 6 to 7	155 x 45	3
Area 29	33° 35' 37.2064" / 85° 49' 48.6254"	10	D = 4 to 5	215 x 55	4
Area 31	33° 35' 52.9926" / 85° 49' 43.2965"	300	H = 2 / D = 2	135 x 230	8

Maximum Total Number of Samples =

112

APPENDIX B

LABORATORY DATA SHEETS

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

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LOG NO: S9-14052
Received: 19 JUN 99
Reported: 02 JUL 99
REVISED 28 JUL 99
Client PO. No.: 4503076264

Contract No.: S7219
Project: DREDGE SPOIL AREAS
Sampled By: Client
Code: 174690728

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-1	24-1					06-14-99/10:55
14052-2	24-2					06-14-99/11:50
14052-3	24-3					06-14-99/14:35
14052-4	24-4					06-14-99/14:30
14052-5	24-5					06-14-99/16:00
PARAMETER	14052-1	14052-2	14052-3	14052-4	14052-5	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<170	<180	<370	<200	<69	
Aroclor-1221, ug/kg dw	<350	<360	<750	<400	<140	
Aroclor-1232, ug/kg dw	<170	<180	<370	<200	<69	
Aroclor-1242, ug/kg dw	<170	<180	<370	<200	<69	
Aroclor-1248, ug/kg dw	450	590	1300	920	330	
Aroclor-1254, ug/kg dw	890	1600	3400	2000	460	
Aroclor-1260, ug/kg dw	720	1500	3100	2000	380	
Surrogate - TCX	60 %	46 %	*F33	49 %	45 %	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.28.99	06.28.99	06.28.99	06.28.99	
Dilution factor	5.0	5.0	10.0	5.0	2.0	
Batch ID	06220	06220	06220	06220	06220	
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	SGJECD	
Percent Solids	95	92	89	84	96	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-6	24-6					06-14-99/16:20
14052-7	24-7					06-14-99/17:15
14052-8	24-8					06-15-99/16:50
14052-9	24-9					06-15-99/16:40
14052-10	24-11					06-15-99/17:35
PARAMETER	14052-6	14052-7	14052-8	14052-9	14052-10	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<180	<360	<760	<360	<180	
Aroclor-1221, ug/kg dw	<360	<730	<1500	<740	<360	
Aroclor-1232, ug/kg dw	<180	<360	<760	<360	<180	
Aroclor-1242, ug/kg dw	<180	<360	<760	<360	<180	
Aroclor-1248, ug/kg dw	410	840	1700	770	610	
Aroclor-1254, ug/kg dw	650	1400	3500	1700	930	
Aroclor-1260, ug/kg dw	660	1400	3700	1900	750	
Surrogate - TCX	49 %	*F33	*F33	*F33	62 %	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.25.99	06.25.99	06.25.99	06.28.99	06.28.99	
Dilution factor	5.0	10.0	20.0	10.0	5.0	
Batch ID	06220	06220	06220	06220	06220	
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	SGJECD	
Percent Solids	93	91	87	91	94	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED			
14052-11	24-20	06-15-99/14:40			
14052-12	29-1	06-15-99/09:00			
14052-13	29-2	06-15-99/09:05			
14052-14	29-4	06-15-99/09:40			
14052-15	26-2	06-15-99/10:35			
PARAMETER	14052-11	14052-12	14052-13	14052-14	14052-15
PCB's (8082)					
Aroclor-1016, ug/kg dw	<830	<190	<370	<180	<170
Aroclor-1221, ug/kg dw	<1700	<380	<750	<370	<360
Aroclor-1232, ug/kg dw	<830	<190	<370	<180	<170
Aroclor-1242, ug/kg dw	<830	<190	<370	<180	<170
Aroclor-1248, ug/kg dw	1200	510	1400	660	360
Aroclor-1254, ug/kg dw	2500	820	2000	1500	560
Aroclor-1260, ug/kg dw	2600	640	1200	1100	630
Surrogate - TCX	*F33	45 %	*F33	51 %	44 %
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99
Date Analyzed	06.26.99	06.28.99	06.26.99	06.28.99	06.28.99
Dilution factor	20.0	5.0	10.0	5.0	5.0
Batch ID	06220	06220	06220	06220	06220
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	SGJECD
Percent Solids	79	87	89	90	94

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-16	7-1					06-15-99/13:25
14052-17	9-2					06-15-99/14:55
14052-18	9-20					06-15-99/14:58
14052-19	23-1					06-16-99/09:15
14052-20	23-2					06-16-99/09:25
PARAMETER	14052-16	14052-17	14052-18	14052-19	14052-20	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<180	<36	<35	<360	<390	
Aroclor-1221, ug/kg dw	<380	<72	<71	<720	<800	
Aroclor-1232, ug/kg dw	<180	<36	<35	<360	<390	
Aroclor-1242, ug/kg dw	<180	<36	<35	<360	<390	
Aroclor-1248, ug/kg dw	620	62	83	780	1300	
Aroclor-1254, ug/kg dw	990	110	140	1800	2800	
Aroclor-1260, ug/kg dw	760	130	190	1700	2300	
Surrogate - TCX	48 %	45 %	40 %	*F33	*F33	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.25.99	06.25.99	06.28.99	06.28.99	
Dilution factor	5.0	1.0	1.0	10.0	10.0	
Batch ID	06220	06220	06220	06220	06220	
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	SGJECD	
Percent Solids	89	92	94	92	84	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-21	23-3					06-16-99/11:05
14052-22	23-4					06-16-99/10:55
14052-23	23-6					06-16-99/12:45
14052-24	SC-6-1					06-17-99/08:15
14052-25	SC-6-2					06-17-99/09:20
PARAMETER	14052-21	14052-22	14052-23	14052-24	14052-25	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<72	<190	<380	<720	<3800	
Aroclor-1221, ug/kg dw	<140	<380	<770	<1400	<7600	
Aroclor-1232, ug/kg dw	<72	<190	<380	<720	<3800	
Aroclor-1242, ug/kg dw	<72	<190	<380	<720	<3800	
Aroclor-1248, ug/kg dw	370	660	470	2900	<3800	
Aroclor-1254, ug/kg dw	800	1700	2900	12000	21000	
Aroclor-1260, ug/kg dw	800	1500	3400	5000	9300	
Surrogate - TCX	47 %	*F33	*F33	*F33	*F33	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.28.99	06.28.99	06.28.99	06.28.99	
Dilution factor	2.0	5.0	10.0	20.0	100.0	
Batch ID	0622P	0622P	0622P	0622P	0622P	
Instrument ID	SGKECD	SGKECD	SGKECD	SGKECD	SGKECD	
Percent Solids	92	87	87	92	88	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-26	SC-5-1					06-17-99/09:00
14052-50	SC-5-2					06-17-99/09:55
14052-51	SC-4-1					06-17-99/10:58
14052-52	SC-4-2					06-17-99/10:50
14052-53	SC-7-1					06-17-99/16:20
PARAMETER	14052-26	14052-50	14052-51	14052-52	14052-53	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<720	<3600	<350	<700	<370	
Aroclor-1221, ug/kg dw	<1400	<7300	<710	<1400	<750	
Aroclor-1232, ug/kg dw	<720	<3600	<350	<700	<370	
Aroclor-1242, ug/kg dw	<720	<3600	<350	<700	<370	
Aroclor-1248, ug/kg dw	<720	29000	2300	2300	<370	
Aroclor-1254, ug/kg dw	9500	43000	7700	9700	2800	
Aroclor-1260, ug/kg dw	4700	16000	3800	5400	1800	
Surrogate - TCX	*F33	*F33	*F33	*F33	*F33	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.28.99	06.28.99	06.28.99	06.28.99	
Dilution factor	20.0	100.0	10.0	20.0	10.0	
Batch ID	0622P	0622P	0622P	0622P	0622P	
Instrument ID	SGKECD	SGKECD	SGKECD	SGKECD	SGKECD	
Percent Solids	92	92	94	94	89	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-54	SC-7-2					06-17-99/16:25
14052-55	SC-7-3					06-17-99/16:35
14052-56	SC-7-5					06-17-99/17:20
14052-57	SC-7-6					06-17-99/17:30
14052-58	SC-7-7					06-17-99/17:40
PARAMETER	14052-54	14052-55	14052-56	14052-57	14052-58	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<37	<38	<37	<370	<180	
Aroclor-1221, ug/kg dw	<75	<77	<75	<750	<370	
Aroclor-1232, ug/kg dw	<37	<38	<37	<370	<180	
Aroclor-1242, ug/kg dw	<37	<38	<37	<370	<180	
Aroclor-1248, ug/kg dw	44	52	<37	980	340	
Aroclor-1254, ug/kg dw	440	640	240	1800	580	
Aroclor-1260, ug/kg dw	780	840	280	2500	760	
Surrogate - TCX	64 %	58 %	56 %	*F33	54 %	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.25.99	06.25.99	06.29.99	06.26.99	06.29.99	
Dilution factor	1.0	1.0	1.0	10.0	5.0	
Batch ID	0622P	0622P	0622Q	0622Q	0622Q	
Instrument ID	SGKECD	SGKECD	SGJECD	SGJECD	SGJECD	
Percent Solids	89	87	89	89	90	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED			
14052-59	SC-7-8	06-17-99/18:10			
14052-60	SC-7-9	06-17-99/18:15			
14052-61	SC-8-1	06-18-99/09:30			
14052-62	SC-8-2	06-18-99/09:25			
14052-63	SC-8-3	06-18-99/10:00			
PARAMETER	14052-59	14052-60	14052-61	14052-62	14052-63
PCB's (8082)					
Aroclor-1016, ug/kg dw	<72	<1800	<36	<1800	<76
Aroclor-1221, ug/kg dw	<150	<3700	<74	<3600	<150
Aroclor-1232, ug/kg dw	<72	<1800	<36	<1800	<76
Aroclor-1242, ug/kg dw	<72	<1800	<36	<1800	<76
Aroclor-1248, ug/kg dw	270	4700	190	6200	340
Aroclor-1254, ug/kg dw	600	7900	470	13000	1000
Aroclor-1260, ug/kg dw	630	6400	510	9500	860
Surrogate - TCX	52 %	*F33	55 %	*F33	43 %
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99
Date Analyzed	06.29.99	06.29.99	06.28.99	06.29.99	06.28.99
Dilution factor	2.0	50.0	1.0	50.0	2.0
Batch ID	0622Q	0622Q	0622O	0622Q	0622O
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	SGJECD
Percent Solids	91	91	90	92	87

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-64	SC-8-4					06-18-99/10:18
14052-65	SC-8-5					06-18-99/10:52
14052-66	SC-8-6					06-18-99/11:05
14052-67	SC-8-7					06-18-99/11:38
14052-68	SC-8-9					06-18-99/12:52
PARAMETER	14052-64	14052-65	14052-66	14052-67	14052-68	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<38	<73	<380	<750	<370	
Aroclor-1221, ug/kg dw	<77	<150	<760	<1500	<750	
Aroclor-1232, ug/kg dw	<38	<73	<380	<750	<370	
Aroclor-1242, ug/kg dw	<38	<73	<380	<750	<370	
Aroclor-1248, ug/kg dw	140	530	1500	3200	2000	
Aroclor-1254, ug/kg dw	290	1100	3100	5700	3600	
Aroclor-1260, ug/kg dw	320	1000	2200	5100	4300	
Surrogate - TCX	42 %	53 %	*F33	*F33	*F33	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.29.99	06.26.99	06.29.99	06.26.99	
Dilution factor	1.0	2.0	10.0	20.0	10.0	
Batch ID	06220	0622Q	0622Q	0622Q	0622Q	
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	SGJECD	
Percent Solids	87	90	88	88	89	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES				DATE/ TIME SAMPLED
14052-69	SC-8-8				06-18-99/11:58
14052-70	SC-8-11				06-18-99/12:45
14052-71	SC-8-20				06-18-99/09:28
14052-72	SC-8-10B				06-18-99/11:07
PARAMETER	14052-69	14052-70	14052-71	14052-72	
PCB's (8082)					
Aroclor-1016, ug/kg dw	<380	<1900	<1800	<1900	
Aroclor-1221, ug/kg dw	<780	<3800	<3700	<3800	
Aroclor-1232, ug/kg dw	<380	<1900	<1800	<1900	
Aroclor-1242, ug/kg dw	<380	<1900	<1800	<1900	
Aroclor-1248, ug/kg dw	1100	7000	6000	8400	
Aroclor-1254, ug/kg dw	2300	25000	12000	16000	
Aroclor-1260, ug/kg dw	2000	14000	9100	9800	
Surrogate - TCX	*F33	*F33	*F33	*F33	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.26.99	06.29.99	06.29.99	06.29.99	
Dilution factor	10.0	50.0	50.0	50.0	
Batch ID	0622Q	0622Q	0622Q	0622Q	
Instrument ID	SGJECD	SGJECD	SGJECD	SGJECD	
Percent Solids	86	88	90	87	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES					DATE/ TIME SAMPLED
14052-37	24-10					06-15-99/17:15
14052-38	29-3					06-15-99/09:25
14052-39	26-1					06-15-99/10:40
14052-40	7-2					06-15-99/13:55
14052-41	9-1					06-15-99/14:50
PARAMETER	14052-37	14052-38	14052-39	14052-40	14052-41	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<350	<76	<190	<38	<35	
Aroclor-1221, ug/kg dw	<720	<150	<380	<77	<71	
Aroclor-1232, ug/kg dw	<350	<76	<190	<38	<35	
Aroclor-1242, ug/kg dw	<350	<76	<190	<38	<35	
Aroclor-1248, ug/kg dw	550	1100	1500	240	130	
Aroclor-1254, ug/kg dw	2100	750	1500	440	130	
Aroclor-1260, ug/kg dw	2000	600	930	700	140	
Surrogate - TCX	*F33	45 %	*F33	56 %	62 %	
Date Extracted	06.22.99	06.24.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.28.99	06.28.99	06.25.99	06.25.99	
Dilution factor	10.0	2.0	5.0	1.0	1.0	
Batch ID	0622P	06240	0622P	0622P	0622P	
Instrument ID	SGKECD	SGKECD	SGKECD	SGKECD	SGKECD	
Mercury (7471)						
Mercury, mg/kg dw	2.0	3.6	2.6	1.0	3.9	
Preparation Date	06.25.99	06.25.99	06.25.99	06.25.99	06.25.99	
Date Analyzed	06.26.99	06.26.99	06.26.99	06.26.99	06.26.99	
Dilution factor	10	20	20	10	20	
Batch ID	0625T	0625T	0625T	0625T	0625T	

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Mr. Jerry Hopper
Solutia Inc.
300 Birmingham Highway
Anniston, AL 36201

LOG NO: S9-14052
Received: 19 JUN 99
Reported: 02 JUL 99
REVISED 28 JUL 99
Client PO. No.: 4503076264

Contract No.: S7219
Project: DREDGE SPOIL AREAS
Sampled By: Client
Code: 174690728

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14052-37	24-10	06-15-99/17:15
14052-38	29-3	06-15-99/09:25
14052-39	26-1	06-15-99/10:40
14052-40	7-2	06-15-99/13:55
14052-41	9-1	06-15-99/14:50
PARAMETER	14052-37	14052-38
Percent Solids	93	87

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES				DATE/ TIME SAMPLED
14052-42	23-5				06-16-99/12:20
14052-43	SC-3				06-17-99/13:20
14052-44	SC-1				06-17-99/14:15
14052-45	SC-7-4				06-17-99/16:40
PARAMETER	14052-42	14052-43	14052-44	14052-45	
PCB's (8082)					
Aroclor-1016, ug/kg dw	<760	<720	<700	<38	
Aroclor-1221, ug/kg dw	<1500	<1400	<1400	<76	
Aroclor-1232, ug/kg dw	<760	<720	<700	<38	
Aroclor-1242, ug/kg dw	<760	<720	<700	<38	
Aroclor-1248, ug/kg dw	<760	3300	2200	67	
Aroclor-1254, ug/kg dw	6100	15000	12000	580	
Aroclor-1260, ug/kg dw	4700	6600	5400	470	
Surrogate - TCX	*F33	*F33	*F33	51 %	
Date Extracted	06.22.99	06.22.99	06.22.99	06.22.99	
Date Analyzed	06.28.99	06.28.99	06.28.99	06.25.99	
Dilution factor	20.0	20.0	20.0	1.0	
Batch ID	0622P	0622P	0622P	0622P	
Instrument ID	SGKECD	SGKECD	SGKECD	SGKECD	
Mercury (7471)					
Mercury, mg/kg dw	0.65	0.20	0.25	0.19	
Preparation Date	06.25.99	06.25.99	06.25.99	06.25.99	
Date Analyzed	06.26.99	06.26.99	06.26.99	06.26.99	
Dilution factor	5.0	1.0	2.0	1.0	
Batch ID	0625T	0625T	0625T	0625T	
Percent Solids	87	92	94	88	

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Contract No.: S7219
Project: DREDGE SPOIL AREAS
Sampled By: Client
Code: 174690728
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
14052-73	SC-R1	06-17-99/18:20	
14052-74	SC-R2	06-18-99/11:38	
14052-75	SC-R3	06-18-99	
PARAMETER	14052-73	14052-74	14052-75
PCB's (8082)			
Aroclor-1016, ug/l	<1.0	<1.0	<1.0
Aroclor-1221, ug/l	<2.0	<2.0	<2.0
Aroclor-1232, ug/l	<1.0	<1.0	<1.0
Aroclor-1242, ug/l	<1.0	<1.0	<1.0
Aroclor-1248, ug/l	<1.0	<1.0	<1.0
Aroclor-1254, ug/l	<1.0	<1.0	<1.0
Aroclor-1260, ug/l	<1.0	<1.0	<1.0
Surrogate - TCX	55 %	55 %	60 %
Date Extracted	06.22.99	06.22.99	06.22.99
Date Analyzed	06.24.99	06.24.99	06.24.99
Dilution factor	1.0	1.0	1.0
Batch ID	0622R	0622R	0622R
Instrument ID	SGNECD	SGNECD	SGNECD

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Project: DREDGE SPOIL AREAS
Sampled By: Client
Code: 174690728
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID TIME SAMPLED					DATE/
14052-76	Method Blank					
14052-77	Lab Control Standard & Recovery					
14052-78	LCS Accuracy Control Limit (%R)					
14052-88	Analyst Name (First Initial.Last Name)					
14052-90	Method Blank					
PARAMETER	14052-76	14052-77	14052-78	14052-88	14052-90	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<33	48 %	34-138 %	S.Graves	<33	
Aroclor-1221, ug/kg dw	<67	---	---	S.Graves	<66	
Aroclor-1232, ug/kg dw	<33	---	---	S.Graves	<33	
Aroclor-1242, ug/kg dw	<33	---	---	S.Graves	<33	
Aroclor-1248, ug/kg dw	<33	---	---	S.Graves	<33	
Aroclor-1254, ug/kg dw	<33	---	---	S.Graves	<33	
Aroclor-1260, ug/kg dw	<33	55 %	39-138 %	S.Graves	<33	
Surrogate - TCX	45 %	57 %	---	---	51 %	
Date Extracted	06.22.99	06.22.99	---	---	06.24.99	
Date Analyzed	06.25.99	06.25.99	---	---	06.28.99	
Dilution factor	1.0	1.0	---	---	1.0	
Batch ID	0622P	0622P	---	---	0624O	
Instrument ID	SGKECD	SGKECD	---	---	SGKECD	
Mercury (7471)						
Mercury, mg/kg dw	<0.020	85 %	80-120 %	L.REEVES	---	
Preparation Date	06.25.99	06.25.99	---	---	---	
Date Analyzed	06.26.99	06.26.99	---	---	---	
Dilution factor	1.0	1.0	---	---	---	
Batch ID	0625T	0625T	---	---	---	

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REPORT OF RESULTS

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DATE/

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID TIME SAMPLED

14052-91 Lab Control Standard % Recovery
14052-92 Analyst Name (First Initial.Last Name)

PARAMETER 14052-91 14052-92

PCB's (8082)

Aroclor-1016,	48 %	A.MCNEELY
Aroclor-1260,	53 %	A.MCNEELY
Surrogate - TCX	46 %	---
Date Extracted	06.24.99	---
Date Analyzed	06.28.99	---
Dilution factor	1.0	---
Batch ID	06240	---
Instrument ID	SGKECD	---
Aroclor-1221, ug/kg dw	---	A.MCNEELY
Aroclor-1232, ug/kg dw	---	A.MCNEELY
Aroclor-1242, ug/kg dw	---	A.MCNEELY
Aroclor-1248, ug/kg dw	---	A.MCNEELY
Aroclor-1254, ug/kg dw	---	A.MCNEELY

Mercury (7471)

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Sampled By: Client
Code: 174690728

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID					DATE/ TIME SAMPLED
14052-79	Method Blank					
14052-80	Lab Control Standard % Recovery					
14052-81	LCS Accuracy Control Limit (%R)					
14052-82	Method Blank					
14052-83	Lab Control Standard % Recovery					
PARAMETER	14052-79	14052-80	14052-81	14052-82	14052-83	
PCB's (8082)						
Aroclor-1016, ug/kg dw	<33	120 %	34-138 %	<33	73 %	
Aroclor-1221, ug/kg dw	<67	---	---	<67	---	
Aroclor-1232, ug/kg dw	<33	---	---	<33	---	
Aroclor-1242, ug/kg dw	<33	---	---	<33	---	
Aroclor-1248, ug/kg dw	<33	---	---	<33	---	
Aroclor-1254, ug/kg dw	<33	---	---	<33	---	
Aroclor-1260, ug/kg dw	<33	49 %	39-138 %	<33	54 %	
Surrogate - TCX	67 %	58 %	---	45 %	49 %	
Date Extracted	06.22.99	06.22.99	---	06.22.99	06.22.99	
Date Analyzed	06.29.99	06.29.99	---	06.26.99	06.26.99	
Dilution factor	1.0	1.0	---	1.0	1.0	
Batch ID	0622Q	0622Q	---	0622Q	0622Q	
Instrument ID	SGJECD	SGJECD	---	SGJECD	SGJECD	

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Code: 174690728

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REPORT OF RESULTS

DATE/

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID TIME SAMPLED

14052-84 LCS Accuracy Control Limit (%R)

PARAMETER 14052-84

PCB's (8082)

Aroclor-1016, 34-138 %
Aroclor-1260, 39-138 %

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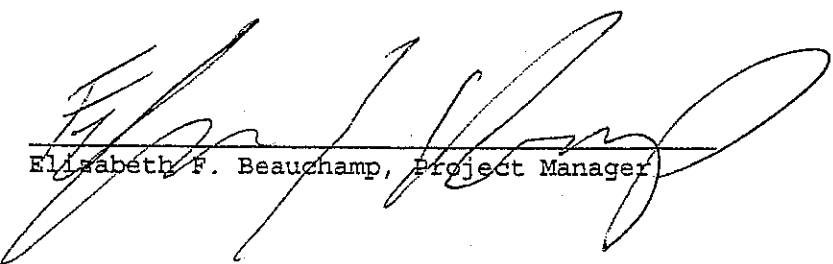
REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/	TIME SAMPLED	
14052-85	Method Blank			
14052-86	Lab Control Standard % Recovery			
14052-87	LCS Accuracy Control Limit (%R)			
14052-89	Analyst Name (First Initial.Last Name)			
PARAMETER	14052-85	14052-86	14052-87	14052-89
PCB's (8082)				
Aroclor-1016, ug/l	<1.0	84 %	45-134 %	B.WREN
Aroclor-1221, ug/l	<2.0	---	---	B.WREN
Aroclor-1232, ug/l	<1.0	---	---	B.WREN
Aroclor-1242, ug/l	<1.0	---	---	B.WREN
Aroclor-1248, ug/l	<1.0	---	---	B.WREN
Aroclor-1254, ug/l	<1.0	---	---	B.WREN
Aroclor-1260, ug/l	<1.0	92 %	41-144 %	B.WREN
Surrogate - TCX	55 %	75 %	30-150 %	B.WREN
Date Extracted	06.22.99	06.22.99	06.22.99	B.WREN
Date Analyzed	06.23.99	06.23.99	06.23.99	B.WREN
Dilution factor	1.0	1.0	1.0	B.WREN
Batch ID	0622R	0622R	0622R	B.WREN
Instrument ID	SGNECD	SGNECD	SGNECD	B.WREN

Methods: EPA SW-846, Update III.

*F33 = Because the sample was diluted prior to analysis, surrogate recoveries are not reported.


Elisabeth F. Beauchamp, Project Manager

Final Page Of Report



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[illegible]

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PROJECT REFERENCE		PROJECT NO.	P.O. NUMBER
Dredge Spoil Areas			4503076264
PROJECT LOG# (State)	SAMPLER(S) NAME	PHONE	FAX
AL	Jeannette Schlichenmayer	281-335-4000	281-335-8100
CLIENT NAME	CLIENT PROJECT MANAGER		
Solutia	Jerry Hopper		
CLIENT ADDRESS (CITY, STATE, ZIP)			
300 Birmingham Highway Anniston AL 36201			
SAMPLE	DATE	TIME	SL NO
SC-8-1	6/18/99	09:30	
SC-8-2	6/18/99	09:25	
SC-8-3	6/18/99	10:00	
SC-8-4	6/18/99	10:18	
SC-8-5	6/18/99	10:53	
SC-8-6	6/18/99	11:05	
SC-8-7	6/18/99	11:38	
SC-8-8	6/18/99	12:52	
SC-8-9	6/18/99	11:58	
SC-8-10	6/18/99	12:45	
SC-8-11	6/18/99	11:38	
SC-8-12	6/18/99		
SC-8-13	6/18/99		
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)
[Signature]	6/18/99		[Signature]
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
[Signature]	6/18/99		[Signature]
LABORATORY USE ONLY			
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT
[Signature]	6/18/99	9:35	☒ YES ☐ NO
CUSTODY SEAL NO.		SL LOG NO.	LABORATORY REMARKS
809587128011		39-14072	

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PROJECT REFERENCE		PROJECT NO.	P.O. NUMBER			
Urethane Spill - Areas			4503070264			
PROJECT LOC. (State)	SAMPLER(S) NAME	PHONE	FAX			
FL	Jeanette Schlichenmeyer	281-335-4000	281-335-8000			
CLIENT NAME	CLIENT PROJECT MANAGER					
Solutia	Jerry Hopper					
CLIENT ADDRESS (CITY, STATE, ZIP)						
300 Birmingham Highway Anniston AL 36201						
SAMPLE	SL NO.	SAMPLE IDENTIFICATION	MATRIX TYPE	REQUIRED ANALYSES	PAGE 4 OF 4	
DATE	TIME					
6/17/99	13:20	SC-3	NON-AQUEOUS LIQUID (oil, solvent, etc)	Mercury		
6/17/99	14:15	SC-1	AIR			
6/17/99	14:20	SC-7-1	SOLID OR SEMISOLID			
6/17/99	14:30	SC-7-2	AQUEOUS (WATER)			
6/17/99	14:35	SC-7-3				
6/17/99	14:40	SC-7-4				
6/17/99	17:20	SC-7-5				
6/17/99	17:30	SC-7-6				
6/17/99	17:40	SC-7-7				
6/17/99	18:10	SC-7-8				
6/17/99	18:15	SC-7-9				
6/17/99	18:20	SC-R1				
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
D. C. ...		6/17/99				
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Jeanette Schlichenmeyer		6/17/99	9:55			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	LABORATORY USE ONLY		
D. C. ...		6/17/99	9:55	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.
				☒ YES ☐ NO		89-14052
LABORATORY REMARKS						

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE		PROJECT NO.	P.O. NUMBER			
Dredge Spoil Areas			4503076264			
PROJECT LOC. (State)	SAMPLER(S) NAME	PHONE				
AL	Jeanette Schlichenmeyer	281-335-4000				
CLIENT NAME	CLIENT PROJECT MANAGER	FAX				
Solutia	Terry Hopper	281-335-8600				
CLIENT ADDRESS (CITY, STATE, ZIP)						
300 Birmingham Highway, Anniston, AL 36201						
SAMPLE	SL NO	SAMPLE IDENTIFICATION	MATRIX TYPE	REQUIRED ANALYSES	PAGE 3 OF 6	
DATE	TIME					
6/16/99	09:15	23-1	NON-AQUEOUS LIQUID (oil, solvent, etc)			
6/16/99	09:25	23-2	AIR			
6/16/99	11:05	23-3	SOLID OR SEMISOLID			
6/16/99	10:55	23-4	PCB			
6/16/99	12:20	23-5				
6/16/99	12:45	23-6				
6/17/99	08:15	SC-4-1				
6/17/99	09:20	SC-4-2				
6/17/99	09:00	SC-5-1				
6/17/99	09:55	SC-5-2				
6/17/99	10:58	SC-6-1				
6/17/99	10:50	SC-6-2				
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	DATE	TIME
[Signature]			6/16/99			
RECEIVED BY: (SIGNATURE)			DATE	TIME	DATE	TIME
[Signature]			6/16/99			
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	DATE	TIME
[Signature]			6/16/99			
RECEIVED BY: (SIGNATURE)			DATE	TIME	DATE	TIME
[Signature]			6/16/99			

LABORATORY USE ONLY				LABORATORY REMARKS	
FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO	SL LOG NO
[Signature]	6/16/99	9:55	☒ YES ☐ NO		57-14052

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PROJECT REFERENCE		PROJECT NO.	P.O. NUMBER	REQUIRED ANALYSES		MATRIX TYPE	PAGE 2 OF 6
Dredge Spoil Areas			4503076264				
PROJECT LOG (State)	SAMPLER(S) NAME	PHONE	FAX				
AL	Jeannette Schlichenmeyer	281-335-4000	281-335-8100				
CLIENT NAME	CLIENT PROJECT MANAGER						
Solutia	Jerry Hopper						
CLIENT ADDRESS (CITY, STATE, ZIP)		300 Birmingham Highway					
Anniston Alabama		36201					
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED		REMARKS	
DATE	TIME	SL NO					
6/15/99	09:00		29-1	X	1		
6/15/99	09:05		29-2	X	1		
6/15/99	09:25		29-3	X	1		Need PCB + Mercury
6/15/99	09:40		29-4	X	1		Need PCB + Mercury
6/15/99	10:40		26-1	X	1		
6/15/99	10:35		26-2	X	1		
6/15/99	13:24		7-1	X	1		
6/15/99	13:55		7-2	X	1		Need PCB + Mercury
6/15/99	14:50		9-1	X	1		Need PCB + Mercury
6/15/99	14:55		9-2	X	1		
6/15/99	14:58		9-20	X	1		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
[Signature]		6/9/99		Jeannette Schlichenmeyer		6/18/99	
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
Jeannette Schlichenmeyer		6/14/99		8095817 128011 FedEx			
LABORATORY USE ONLY		CUSTODY SEAL NO.		CUSTODY INTACT		SL LOG NO.	
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	YES ☒ NO ☐		59-14052	
[Signature]		6/19/99	9:55				
LABORATORY REMARKS							



SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

5102 LaRoche Avenue, Savannah, GA 31404
Phone: (912) 354-7858
Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301
Phone: (904) 878-3994
Fax: (904) 878-9504
900 Lakeside Drive, Mobile, AL 36693
Phone: (334) 666-6633
Fax: (334) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634
Phone: (813) 885-7427
Fax: (813) 885-7049
100 Alpha Drive, Suite 110, Destrehan, LA 70047
Phone: (504) 764-1100
Fax: (504) 725-1163

PROJECT REFERENCE		PROJECT NO.	P.O. NUMBER	REQUIRED ANALYSES		PAGE 1 OF 6
Dredge Spoil Areas			45030716264			
PROJECT LOC. (State)	SAMPLER(S) NAME	PHONE	FAX			
AL	Jeanette Schlichenmeyer	281-335-4000	281-335-8600			
CLIENT NAME		CLIENT PROJECT MANAGER				
Solutia Inc.		Jerry Hopper				
CLIENT ADDRESS (CITY, STATE, ZIP)						
300 Birmingham Highway Anniston, AL 36201						
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED		REMARKS
DATE	TIME	SL NO.				
6/14/99	10:55		24-1	X		
6/14/99	11:50		24-2	X		
6/14/99	14:35		24-3	X		
6/14/99	14:30		24-4	X		
6/14/99	16:00		24-5	X		
6/14/99	16:20		24-6	X		
6/14/99	17:15		24-7	X		
6/15/99	16:50		24-8	X		
6/15/99	16:40		24-9	X		
6/15/99	17:15		24-10	X		
6/15/99	17:35		24-11	X		
6/15/99	14:40		24-20	X		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
S. J. (Signature)		6/14/99		Jeanette Schlichenmeyer	6/19/99	
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Jeanette Schlichenmeyer		6/14/99		8095871280116d8x		
LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.
S. J. (Signature)		6/19/99	9:55	☒ YES ☐ NO		59-14052
LABORATORY REMARKS						
Need PCB & Mercury						

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-15509
Received: 18 AUG 99
Reported: 23 AUG 99

Mr. Jerry Hopper
Solutia Inc.
300 Birmingham Highway
Anniston, AL 36201

Contract No.: S7219
Project: DREDGE SOIL PILES/SC-8-1
Sampled By: Client
Code: 175990823

Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15509-1	SC-8-1	08-17-99
PARAMETER	15509-1	
Mercury (7471)	0.27	
Mercury, mg/kg dw	08.19.99	
Preparation Date	08.19.99	
Date Analyzed	1.0	
Dilution factor	0819R	
Batch ID		
Percent Solids	89	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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LOG NO: S9-15509
Received: 18 AUG 99
Reported: 23 AUG 99

Mr. Jerry Hopper
Solutia Inc.
300 Birmingham Highway
Anniston, AL 36201

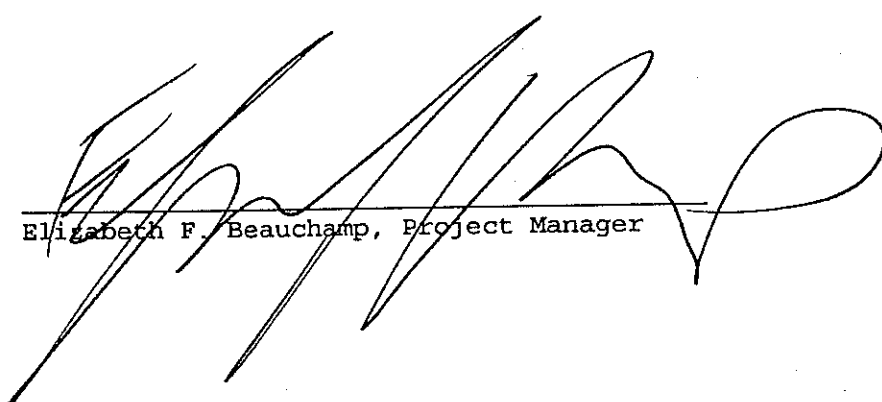
Contract No.: S7219
Project: DREDGE SOIL PILES/SC-8-1
Sampled By: Client
Code: 175990823

REPORT OF RESULTS

Page 2

REPORT OF RESULTS		DATE/		
LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	TIME SAMPLED		
15509-2	Method Blank			
15509-3	Lab Control Standard % Recovery			
15509-4	LCS Accuracy Control Limit (%R)			
15509-5	User Specified			
PARAMETER	15509-2	15509-3	15509-4	15509-5
Mercury (7471)				
Mercury, mg/kg dw	<0.020	87 %	80-120 %	BJB
Preparation Date	08.19.99	08.19.99	---	---
Date Analyzed	08.19.99	08.19.99	---	---
Dilution factor	1.0	1.0	---	---
Batch ID	0819R	0819R	---	---

Methods: EPA SW-846, Update III.


Elisabeth F. Beauchamp, Project Manager

Final Page Of Report

~~MONDAY~~

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

U.S. DEPT. OF JUSTICE

Laboratory Savannah Labs

Sample(s) 5C-8-1

Relinquished to: <u>Don W. Stephens</u>	Organization: <u>HCS Engineering Solutions, Inc.</u>	Date: <u>8/17/98</u> Time: <u>1325</u>	Seal Intact? <u>Yes</u>
Received by: <u>Don W. Stephens</u>	Organization: <u>HCS Engineering Solutions, Inc.</u>	Date: <u>8/17/98</u> Time: <u>1325</u>	Seal Intact? <u>N/A</u>
Relinquished by: <u>Don W. Stephens</u>	Organization: <u>Solutia, Inc.</u>	Date: <u>8/17/98</u> Time: <u>1630</u>	Seal Intact? <u>Yes</u>
Received by: <u>Don W. Stephens</u>	Organization: <u>Solutia, Inc.</u>	Date: <u>8/18/98</u> Time: <u>9:00</u>	Seal Intact? <u>Yes</u>
	Organization: <u>N/A</u>		Seal Intact? <u>N/A</u>

Special Instructions/Remarks:

Sample taken 17 Aug 99 1020 Analyze for Mercury only

☐ In Person

☒ ,

Common Carrier Public Express

☐ Lab Courier☐ Other

SPECIES

812653218173 SF

5915589

APPENDIX C

DATA VALIDATION CALCULATIONS

CLIENT/PROJECT Solutia - Anniston Offsite
 BY MNS DATE 8-5-99
 CHECKED BY JLS DATE 8/17/99
 DESCRIPTION Data Validation

PAGE 1 OF 1
 PROJECT NO. 06638T04

Duplicate Comparisons

Sample ID.

	24-2 (ppb)	24-20 (ppb)
A-1016	< 180	< 830
A-1221	< 360	< 1700
A-1232	< 180	< 830
A-1242	< 180	< 830
A-1248	590	1200
A-1254	1600	2500
A-1260	1500	2600

Moisture (%) 8

21

A-1248
 $x = 24-2$
 $y = 24-20$

$$\frac{(590 - 1200)}{([590 + 1200]/2)} \times 100 = Z$$

$$100 \times \frac{610 \checkmark}{895 \checkmark} = 68.2$$

$$68.2\% = Z$$

Data qualifies as qualitative

$100\% > Z > 60\%$ - Samples diluted

Dilution factors

24-2 5.0

24-20 20.0

$$\frac{A-1254}{96 \checkmark} = \frac{900 \checkmark}{2050 \checkmark} \times 100$$

$$= 43.9\% \checkmark$$

Data - Quantitative

< 60%

$$\frac{A-1260}{\checkmark} = \frac{1100 \checkmark}{2050 \checkmark} \times 100 \checkmark$$

$$= 53.7\% < 60\%$$

Data - Quantitative

CLIENT/PROJECT Solutra - Anniston Offsite
 BY MNS DATE 8-5-99
 CHECKED BY JLS DATE 8/17/99
 DESCRIPTION Data Validation

PAGE 1 OF 1
 PROJECT NO. 06638T04

Duplicate Samples

SC-8-2 (ppb)

SC-8-20 (ppb)

A-1016 <1800
 A-1221 <3600
 A-1232 <1800
 A-1242 <1800
 A-1248 6200
 A-1254 13000
 A-1260 9500

<1800
 <3700
 <1800
 <1800
 6000
 12000
 9100

Moisture 8%

10%

Dilution factor 50.0

50.0

$$\boxed{A-1248} = \frac{200 \text{ V}}{6100 \text{ V}} \times 100 = 3.3\% < 6.0\% \checkmark$$

Data - Quantitative

$$\boxed{A-1254} = \frac{1000 \text{ V}}{12500 \text{ V}} \times 100 = 8\% \checkmark$$

Data - Quantitative

$$\boxed{A-1260} = \frac{400 \text{ V}}{9300 \text{ V}} \times 100 = 4.3\% \checkmark$$

Data - Quantitative

CALCULATION FORM

CLIENT/PROJECT Solutia - Anniston Offsite
 BY MNS

CHECKED BY JLS DATE 8-5-99
 DATE 8/17/99

PAGE 1 OF 1
 PROJECT NO. 06638704

DESCRIPTION Data Validation

Duplicate Comparisons

Sample ID	9-2 (ppb)	9-20 (ppb)
A-1016		
A-1221	<36	<35
A-1232	<72	<71
A-1242	<36	<35
A-1248	<36	<35
A-1254	62	83
A-1260	110	140
	130	190

Moisture % 8 6

Samples Not diluted

A-1248

$$= \frac{21 \text{ V}}{72.5 \text{ V}} \times 100 = 30.0\% \checkmark < 60\%$$

Data - Quantitative

A-1254

$$= \frac{30 \text{ V}}{125 \text{ V}} \times 100 = 24\% \checkmark$$

Data - Quantitative

A-1260

$$= \frac{60 \text{ V}}{160 \text{ V}} \times 100 = 37.5\% \checkmark$$

Data - Quantitative