United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

Jacksonville Environmental Justice Tissue Assessment
Final Report-Revised

Jacksonville, FL
November 15, 2011

SESD Project Identification Number: 11-0109

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Final Report Revision

This revised report replaces the report titled "Jacksonville Environmental Justice Tissue Assessment Final Report" SESD Project Identification Number: 11-0109 issued May 2011. This revision includes additional polynuclear aromatic hydrocarbon (PAH) analysis data from Long Branch and corrected PAH data from Hogan Creek. An explanation of the corrected Hogan Creek data can be found in section 3.3 Quality Control.

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1 Introduction

The city of Jacksonville, Florida was designated by the United States Environmental Protection Agency (EPA) as an Environmental Justice Showcase Community. One of the concerns of the community is whether or not the fish and shellfish are safe to eat from Hogan Creek and Long Branch, two popular fishing streams in downtown Jacksonville. EPA's Science and Ecosystem Support Division (SESD) coordinated efforts to address this concern expressed by the urban core community and the City of Jacksonville, by collecting fish from these waterbodies for tissue contaminant analysis.

2 Methods

2.1 Site Description

Long Branch and Hogan Creek are waterbodies of concern located within the Lower St. Johns River watershed, in the urban core of the City of Jacksonville, Duval County, Florida (Figure 1). The area surrounding these streams is highly urbanized with residential, commercial and light industrial facilities. Both Hogan Creek and Long Branch are listed as impaired for fecal coliform (FDEP 2006, PBS&J 2010).

2.2 Study Design and Sampling Methods

Sampling reach selections were based on accessibility and proximity to popular fishing locations by local anglers along Hogan Creek and Long Branch. Because of limited access along portions of each waterbody, only one reach was sampled in each of the two streams and representative fish samples were collected from each stream. Collection sites are shown in Appendix A: Figure 1. *In situ* water quality parameters (USEPA 2007d) and Global Positioning System coordinates (GPS) (USEPA 2007c) were collected along with fishes (USEPA 2007b). GPS coordinates of sample sites are listed in Table 1. Additionally, photographs were taken at the beginning and end (downstream and upstream) of each sample reach (Appendix C).

Fish were collected from each stream using a tote barge electrofisher (USEPA 2007b). Fish species selected for chemical analysis were based on the most abundant species present at the time of sample collection. Fish were placed directly into a clean livewell with ambient water throughout sample collection. Fish were segregated by species and total lengths were measured. Samples were grouped by size class, bagged accordingly, and placed on wet ice immediately. Samples were taken to a laboratory at the Duval County Health Department where whole fish where weighed, filleted, and fillets weighed. Fish samples were composited (minimum of 3 individuals) by species. The species composites were based on distinct size classes available. Size classes contained individuals of similar size so that the smallest individual was no less than 75 percent of the total length of the largest individual (USEPA 2000). Samples were then wrapped in foil, labeled and frozen. Samples were delivered to the processing laboratory (SESD), where they were homogenized using a high speed blender with pelletized dry ice (USEPA 2007e).

Collection of shellfish (blue crab) was attempted using crab traps baited with carcasses of fish collected from the waterbody being sampled. Crab pots were set out for 24 hours in Hogan Creek and Long Branch. Site locations are shown in Appendix A: Figure 1. No shellfish were captured for this study.

Quality control samples associated with tissue processing included dry ice, equipment and water blanks. Three samples were analyzed for each quality control type. Quality control samples were collected by placing dry ice into 8 ounce, pre-cleaned glass jars for the dry ice blank. Dry ice was placed in a blender, pulverized and transferred to 8 ounce pre-cleaned glass jars for the equipment blank. One liter, pre-cleaned glass bottles were filled directly from the MilliQ® system, used for decontamination of processing equipment (USEPA 2007a), for the water blank.

Table 1

Station	Description	Latitude	Longitude
Hogan	beginning of reach (fish)	30.33361	-81.65382
Hogan	end of reach (fish)	30.33410	-81.65553
Long	beginning of reach (fish)	30.36404	-81.64987
Long	end of reach (fish)	30.36366	-81.65096
Hogan	crab pot 1	30.32817	-81.64765
Hogan	crab pot 2	30.33410	-81.65553
Long	crab pot 1	30.37172	-81.63968
Long	crab pot 2	30.36371	-81.65087

3 Results/Discussion

3.1 *In Situ* Water Quality

In situ water quality data are listed in Table 4. Water quality parameters included dissolved oxygen, specific conductance, salinity, pH, and temperature. These parameters were used to assess the water quality conditions at the time of sampling. All parameters are considered to be within normal ranges. Specific conductance in Hogan Creek is elevated due to the increase in salinity caused by the tidal change.

Table 4

Station	Temperature	Specific Conductance	Dissolved Oxygen	pH	Salinity
	°C	µS/cm	mg/L	S.U.	ppt
Hogan	8.65	1930	7.39	7.07	0.96
Long	11.92	342	6.46	6.96	0.21

3.2 Fish Tissue

Three different fish species were collected for tissue analysis during the sampling effort. Based on electrofishing capture rate, Hogan Creek contained a large population of largemouth bass and striped mullet, whereas Long Branch contained a large population of largemouth bass and blue tilapia. These species were selected as the target species for analysis based on their feeding habits, which included

one bottom-dweller species and one top predator species. The number of fish collected was based upon the amount of tissue required to perform chemical analysis. Sample information is listed in Appendix B: Table 2 for Hogan Creek and Appendix B: Table 3 for Long Branch.

A total of eight composite tissue samples were analyzed for Hogan Creek and eight were analyzed for Long Branch. Samples were analyzed for organochlorine pesticides, total PCBs, mercury, lead, arsenic, selenium and cadmium. In addition, Hogan Creek samples were analyzed for dioxin/furans and polynuclear aromatic hydrocarbons (PAHs). Long Branch tissue samples were subsequently analyzed for PAHs as well.

All tissue analytical results were compared to Florida's Department of Health (FDOH) screening values (SV) for recreational fishermen. Screening value comparisons for Hogan Creek are presented in Appendix B: Table 5. All samples of top predator (largemouth bass) and bottom-dweller (striped mullet) for Hogan Creek exceeded SVs for dieldrin, total PCBs, PAHs for total benzo(a)pyrene equivalence (BAP), and dioxins. Additionally, all bottom-dweller samples exceeded SVs for technical chlordane, heptachlor epoxide, and inorganic arsenic. Top predator sample H-LMB3 exceeded the SV for technical chlordane and sample H-LMB1 exceeded the SV for heptachlor epoxide.

FDOH calculated BAP equivalents for both species in Hogan Creek because there were detects of non-carcinogenic PAHs in the samples. When a non-detect was encountered, a surrogate value of 1/2 the detection limit was used in the BAP equivalent calculation.

Screening value comparisons for Long Branch are presented in Appendix B: Table 6. All samples of top predator (largemouth bass) and bottom-dweller (blue tilapia) for Long Branch exceeded SVs for dieldrin and heptachlor epoxide. Additionally, all top predator samples exceeded the SV for technical chlordane. PAHs were reported as non-detects in all samples from Long Branch therefore no BAP equivalence was calculated.

3.3 Quality Control

No contamination was detected in the water system blanks QAMQB and QAMQB-0111. Lead was detected in the dry ice blank (QADIB) but was not detected in the equipment blank (QABB2). The dry ice used for the blanks came from the same batch. It is assumed the detection of lead is from a source other than dry ice, such as laboratory contamination, since only the dry ice blank and one other sample had a detection of lead. The level of detection was low in the blank therefore did not have an impact on tissue samples. Dioxin was detected in samples QADIB and QABB2. These detects had no impact on screening results of tissue samples since the level of detection was well below the dioxin SV and no tissue samples exceeded the dioxin SV.

During the analyses of the Long Branch tissue samples, it was discovered that the results for one compound, indeno(1,2,3-cd)pyrene, for the Hogan Creek samples were reported in error. The original data reported positive results for this compound, but upon receiving questions from data users, further investigation revealed that the indeno(1,2,3-cd)pyrene results were false positive values. The false positive results were due to an interfering compound, cholesterol, which eluted near the same retention time as indeno(1,2,3-cd)pyrene.

4 Conclusion

In order to provide a context for assessing the results, they were compared to the Florida Department of Health's fish screening values. Florida Department of Health will provide additional data analysis and review to evaluate potential human health effects.

5 References

FDEP 2006. Fecal Coliform TMDL for Hogan Creek (WBID 2252), March 2006, Florida Department of Environmental Protection, Tallahassee, FL

PBS&J 2010. Long Branch Technical Report (WBID2233), Prepared for FDEP, March 2010, Jacksonville, FL

USEPA 2000. Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories: Volume 1, Fish Sampling and Analysis, 3rd Edition, EPA 823-B-00-007

USEPA 2007a. Field Equipment Cleaning and Decontamination SESDPROC-205-R1, Region 4, SESD, Athens, GA

USEPA 2007b. Operating Procedure for Fish Field Sampling SESDPROC-512-R2, Region 4, SESD, Athens, GA

USEPA 2007c. Operating Procedure for Global Position System SESDPROC-110-R2, Region 4, SESD, Athens, GA

USEPA 2007d. Operating Procedure for *In Situ* Water Quality Monitoring, SESDPROC-111-R2, Region 4, SESD, Athens, GA

USEPA 2007e. Operating Procedure for Tissue Sample Handling & Processing SESDPROC-602, R0(In Preparation), Region 4, SESD Athens, GA

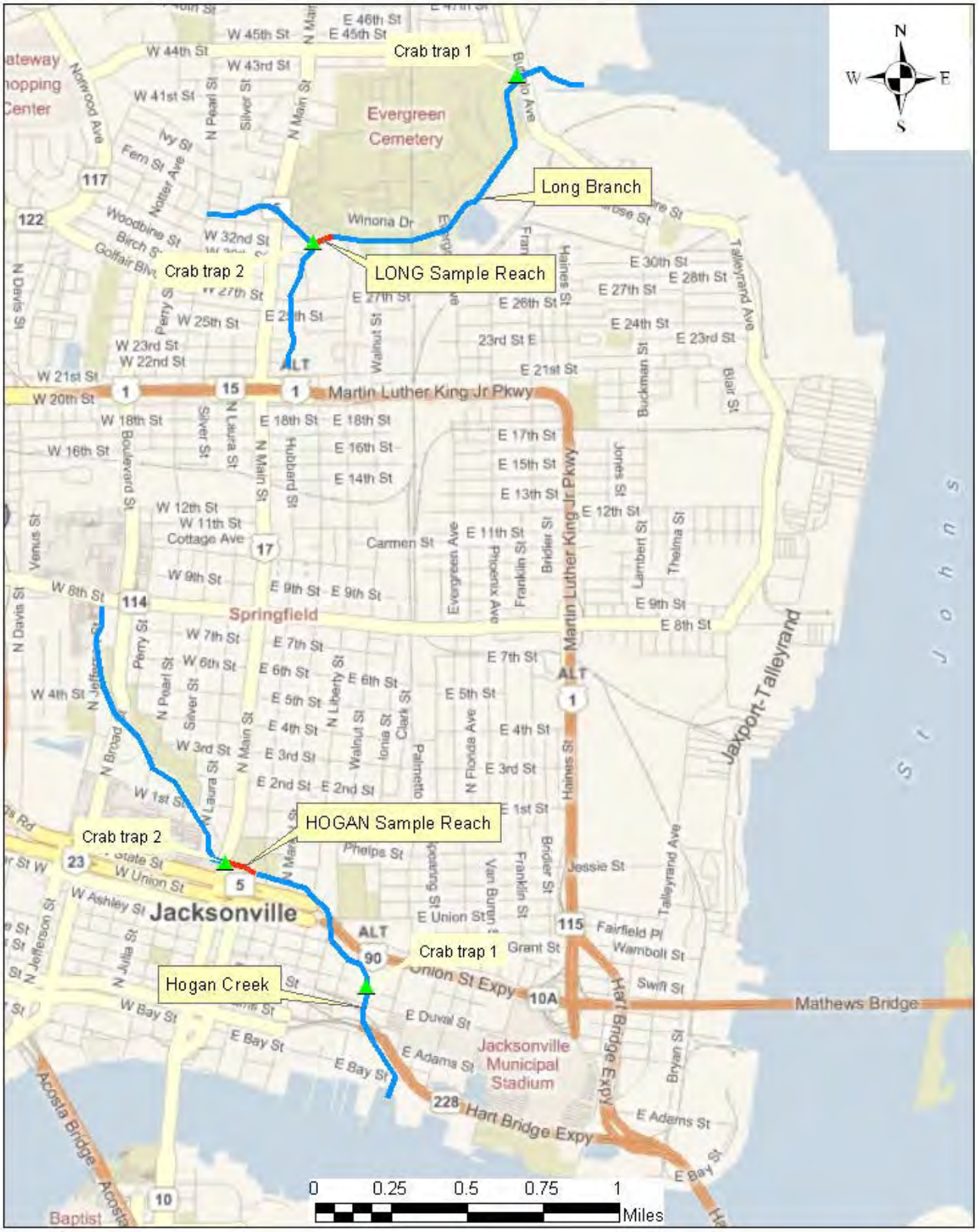
USFDA 1993. Guidance Document for Arsenic in Shellfish. U.S. Department of Health and Human Services, Public Health Service, Office of Seafood (HFS-416), Washington, DC.

Appendix A

(Figures)

Figure 1

Sample Locations



Appendix B

(Tables)

Table 2 Hogan Creek Tissue Processing

Station ID	Species	Common Name	Sample Name	Tissue ID	Total Length (mm)	Total Weight (g)	Fillet Weight (g)	Composite Weight (g)
Hogan	Micropterus salmoides	Largemouth Bass	H-LMB1	LMB1	343	617	250	1005
				LMB2	426	1099	442	
				LMB3	363	759	313	
Hogan	Micropterus salmoides	Largemouth Bass	H-LMB2	LMB4	339	588	237	1051
				LMB5	363	651	258	
				LMB6	375	709	308	
				LMB7	336	597	248	
Hogan	Micropterus salmoides	Largemouth Bass	H-LMB3	LMB11	284	289	117	622
				LMB12	270	259	105	
				LMB13	247	208	84	
				LMB14	238	195	83	
				LMB15	233	173	69	
				LMB16	222	150	60	
				LMB17	217	146	58	
				LMB18	211	124	46	
Hogan	Micropterus salmoides	Largemouth Bass	H-LMB4	LMB19	265	272	111	605
				LMB20	260	259	110	
				LMB21	234	183	72	
				LMB22	232	176	68	
				LMB23	238	195	77	
				LMB24	223	151	56	
				LMB25	220	140	59	
				LMB26	221	134	52	
Hogan	Micropterus salmoides	Largemouth Bass	H-LMB5	LMB8	319	471	190	888
				LMB9	320	472	196	
				LMB10	421	1187	502	
Hogan	Mugil cephalus	Striped Mullet	H-MUL1	MUL1	320	257	86	699
				MUL2	303	257	86	
				MUL3	300	252	89	
				MUL4	294	233	74	
				MUL5	292	256	98	
				MUL6	281	213	78	
				MUL7	266	162	56	
				MUL8	263	149	52	
				MUL9	264	146	40	
				MUL10*	279	163	40	
Hogan	Mugil cephalus	Striped Mullet	H-MUL2	MUL11	314	217	56	691
				MUL12	311	210	57	
				MUL13	296	238	83	
				MUL14	300	262	101	
				MUL15	289	218	73	
				MUL16	274	210	82	
				MUL17	264	186	60	
				MUL18	273	172	59	
				MUL19	264	185	66	
				MUL20	258	167	54	
Hogan	Mugil cephalus	Striped Mullet	H-MUL3	MUL21	222	108	38	354
				MUL22	214	102	39	
				MUL23	213	95	36	
				MUL24	211	95	35	
				MUL25	210	93	30	
				MUL26	217	95	31	
				MUL27	214	87	32	
				MUL28	197	79	29	
				MUL29	185	62	22	
				MUL30	177	50	16	
				MUL31	178	56	18	
				MUL32	164	38	12	
				MUL33	165	44	16	

*Internal - stick like object in muscle tissue

Table 3 Long Branch Tissue Processing

Station ID	Species	Common Name	Sample Name	Tissue ID	Total Length (mm)	Total Weight (g)	Fillet Weight (g)	Composite Weight (g)
Long	Micropterus salmoides	Largemouth Bass	L-LMB1	LMB1	207	114	47	560
				LMB2	220	138	52	
				LMB3	211	111	46	
				LMB4	201	94	38	
				LMB5	230	138	50	
				LMB6*	202	103	42	
				LMB7	219	143	52	
				LMB8	215	122	50	
				LMB9	206	103	39	
				LMB10	198	94	37	
				LMB11	254	184	71	
				LMB12	193	89	36	
Long	Micropterus salmoides	Largemouth Bass	L-LMB2	LMB13	214	122	50	631
				LMB14	229	146	58	
				LMB15	220	144	54	
				LMB16	219	125	53	
				LMB17	209	133	47	
				LMB18	236	163	68	
				LMB19	202	100	38	
				LMB20	216	118	45	
				LMB21	215	132	47	
				LMB22	205	102	41	
				LMB23	197	86	33	
				LMB24	202	94	34	
				LMB25	228	159	63	
Long	Micropterus salmoides	Largemouth Bass	L-LMB3	LMB26	361	765	305	1247
				LMB27	300	387	167	
				LMB28	299	406	178	
Long	Micropterus salmoides	Largemouth Bass	L-LMB4	LMB29	327	578	214	597
				LMB30	310	392	164	
				LMB31	313	500	219	
Long	Oreochromis aureus	Blue Tilapia	L-TIA1	TIA1	314	537	160	656
				TIA2	260	344	106	
				TIA3	264	350	110	
				TIA4	245	288	97	
				TIA5	256	297	90	
				TIA6	250	302	93	
Long	Oreochromis aureus	Blue Tilapia	L-TIA2	TIA7	267	371	120	592
				TIA8	254	303	80	
				TIA9	256	312	87	
				TIA10	246	307	109	
				TIA11	253	319	112	
				TIA12	238	267	84	
Long	Oreochromis aureus	Blue Tilapia	L-TIA3	TIA13	225	223	82	577
				TIA14	205	166	46	
				TIA15	204	168	59	
				TIA16	202	149	53	
				TIA17	223	199	62	
				TIA18	222	210	69	
				TIA19	224	208	67	
				TIA20	224	206	74	
				TIA21	228	191	65	
Long	Oreochromis aureus	Blue Tilapia	L-TIA4	TIA22	218	207	62	610
				TIA23	215	179	93	
				TIA24	210	182	74	
				TIA25	213	179	63	
				TIA26	231	226	70	
				TIA27	219	202	60	
				TIA28	235	230	60	
				TIA29	235	257	59	
				TIA30	222	223	69	

*External lesion

Table 5 Hogan Creek Screening Table

Station ID Sample ID Media Code Sample Date/Time			HOGAN H-LMB1 TI 12/14/2010	HOGAN H-LMB2 TI 12/14/2010	HOGAN H-LMB3 TI 12/14/2010	HOGAN H-LMB4 TI 12/14/2010	HOGAN H-LMB5 TI 12/14/2010	HOGAN H-MUL1 TI 12/14/2010	HOGAN H-MUL2 TI 12/14/2010	HOGAN H-MUL3 TI 12/14/2010
Analyte	**Units**	**Screening Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**
Pesticides										
Total DDT[a]	ug/kg	64	14.6	13.8	13.5	12.8	11.8	50.9	46.2	54.6
Technical Chlordane (sum of cis- and trans-)	ug/kg	17	13	15.8	23.4	16.2	6.8	25	23.4	38
Dieldrin	ug/kg	1.4	6.8	6.7	7.9	7.4	8.3	17	14	37
Endosulfan I and II (sum of alpha and beta)	ug/kg	13000	2.99							
Endrin	ug/kg	700	2							
gamma-BHC (Lindane)	ug/kg	17	0.49							
Heptachlor epoxide	ug/kg	2.4	2.7	2.1			2.2	4.5	3.5	5.9
Toxaphene	ug/kg	100								
PCBs										
Total PCBs[b]	ug/kg	50	100	52	56	50	85	140	130	240
PAHs										
Total Benzo(a)pyrene equivalence[c]	ug/kg	3.0	3.81	3.81	3.81	3.81	3.81	8.26	7.86	5.86
Metals										
Total Arsenic	mg/kg		0.081	0.14	0.051	0.059	0.055	0.46	0.49	0.37
Arsenic (inorganic)[d]	mg/kg	0.015	0.0081	0.014	0.0051	0.0059	0.0055	0.046	0.049	0.037
Cadmium	mg/kg	2								
Lead	mg/kg									0.056
Mercury	mg/kg	0.2	0.065				0.059			
Selenium	mg/kg	11	0.59	0.61	0.54	0.56	0.76	0.25	0.25	0.31
Dioxins										
TEQ (Avian)[e]	ng/kg		1.4	0.83	0.77	0.7	0.9	0.95	1.4	2.2
TEQ (Fish)[f]	ng/kg		0.92	0.46	0.4	0.38	0.66	0.72	0.54	0.83
TEQ (Mammalian)[g]	ng/kg	0.15	0.84	0.41	0.36	0.34	0.6	0.63	0.51	0.76

For the purpose of this table, total DDT and total PCB values were calculated with the assumption that non-detect compounds were zeros.

Blank spaces within this table represent non-detects for the respective analyte.

[a]Total DDT (Sum of 2,4'-DDD, 4,4'-DDD, 2,4'-DDE, 4,4'-DDE, 2,4'-DDT, 4,4'-DDT)

[b]Total PCBs (Sum of PCB congeners)

Highlighted values represent screening value exceedance.

[c]Toxicity equivalence for PAHs are based on Benzo(a)pyrene equivalence (BAP). FDOH calculated BAP equivalents for both species in Hogan Creek because there were detects of non-carcinogenic PAHs in the samples. When a non-detect was encountered, a surrogate value of 1/2 the detection limit was used in the BAP equivalent calculation.

[d]Arsenic (inorganic) (Calculated at 10% of total Arsenic (USFDA 1993))

[e]Avian Toxic. Equiv. Value, WHO TEQ-98

[f]Fish Toxic. Equiv. Value, WHO TEQ-98

[g]Mammalian Toxic. Equiv. Value, WHO TEQ-2005

Table 6 Long Branch Screening Table

Station ID Sample ID Media Code Sample Date/Time			LONG L-LMB1 TI 12/15/2010	LONG L-LMB2 TI 12/15/2010	LONG L-LMB3 TI 12/15/2010	LONG L-LMB4 TI 12/15/2010	LONG L-TIA1 TI 12/15/2010	LONG L-TIA2 TI 12/15/2010	LONG L-TIA3 TI 12/15/2010	LONG L-TIA4 TI 12/15/2010
Analyte	**Units**	**Screening Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**	**Result Value**
Pesticides										
Total DDT[a]	ug/kg	64	22.7	20.9	18.3	24.1	9.7	12	10.8	10.5
Technical Chlordane (sum of cis- and trans-)	ug/kg	17	28.9	24.6	17.5	27.9	7	8.3	6.7	6.8
Dieldrin	ug/kg	1.4	23	19	35	62	18	25	18	19
Endosulfan I and II (sum of alpha and beta)	ug/kg	13000								
Endrin	ug/kg	700								
gamma-BHC (Lindane)	ug/kg	17								
Heptachlor epoxide	ug/kg	2.4	3.8	3.5	5.1	7.9	3.2	3.9	3.2	3.2
Toxaphene	ug/kg	100								
PCBs										
Total PCBs[b]	ug/kg	50	29	24	26	23	0	17	14	15
PAHs										
Total Benzo(a)pyrene equivalence[c]	ug/kg	3								
Metals										
Arsenic	mg/kg		0.027	0.03	0.04	0.046	0.048	0.055	0.037	0.026
Arsenic (inorganic)[d]	mg/kg	0.015	0.0027	0.003	0.004	0.0046	0.0048	0.0055	0.0037	0.0026
Cadmium	mg/kg	2								
Lead	mg/kg									
Mercury	mg/kg	0.2				0.05				
Selenium	mg/kg	11	0.4	0.41	0.49	0.48	0.4	0.42	0.41	0.41

For the purpose of this table, total DDT and total PCB values were calculated with the assumption that non-detect compounds were zeros.

Blank spaces within this table represenct non-detects for the respective analyte/calculation.

[a]Total DDT (Sum of 2,4'-DDD, 4,4'-DDD, 2,4'-DDE, 4,4'-DDE, 2,4'-DDT, 4,4'-DDT)

Highlighted values represent screening value exceedance.

[b]Total PCBs (Sum of PCB congeners)

[c]Toxicity equivalence for PAHs are based on Benzo(a)pyrene equivalence. This value was calculated by FDOH.

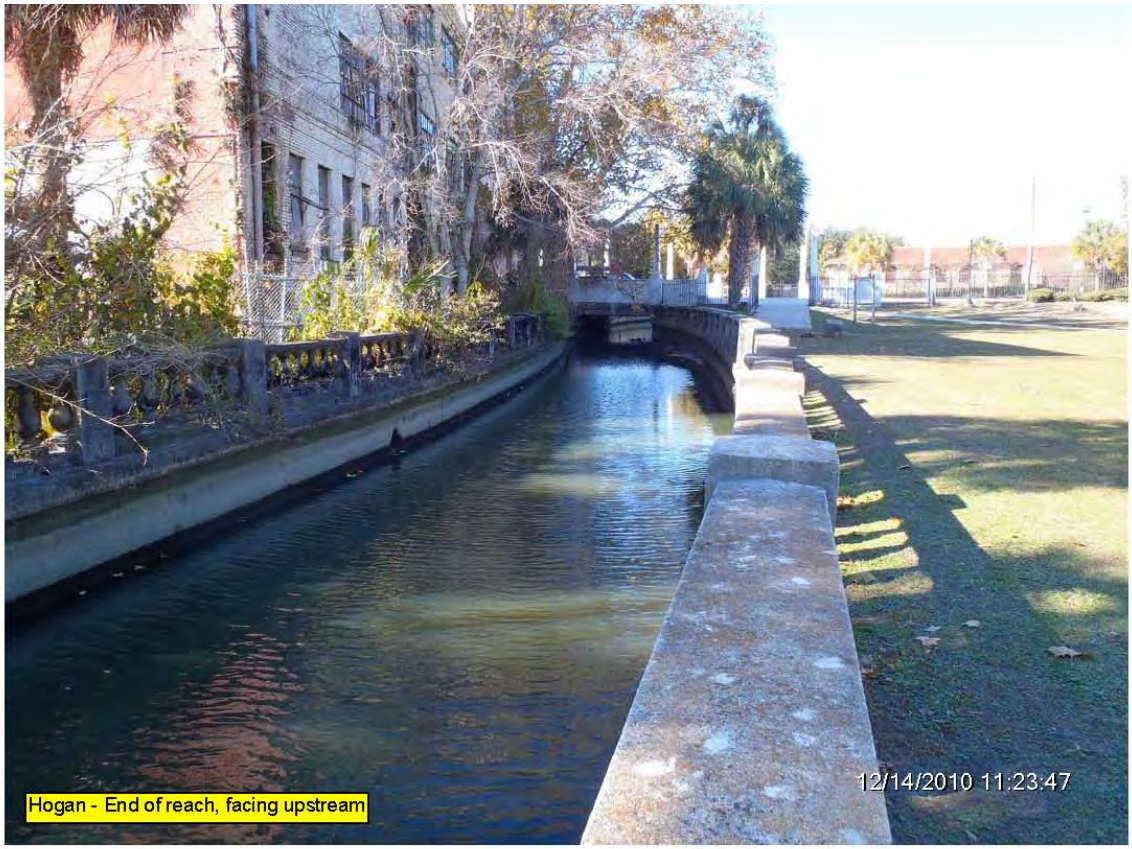
[d]Arsenic (inorganic) (Calculated at 10% of total Arsenic (USFDA 1993))

Appendix C

(Photos)

Hogan - Beginning of reach, facing upstream
12/14/2010 11:05:17

Hogan - Beginning of reach, facing downstream
12/14/2010 11:05:27


Hogan - End of reach, facing upstream
12/14/2010 11:23:47

Hogan - End of reach, facing downstream
12/14/2010 11:23:59

Long - Beginning of reach, facing upstream
12/15/2010 10:17:06

Long - Beginning of reach, facing downstream
12/15/2010 10:17:27

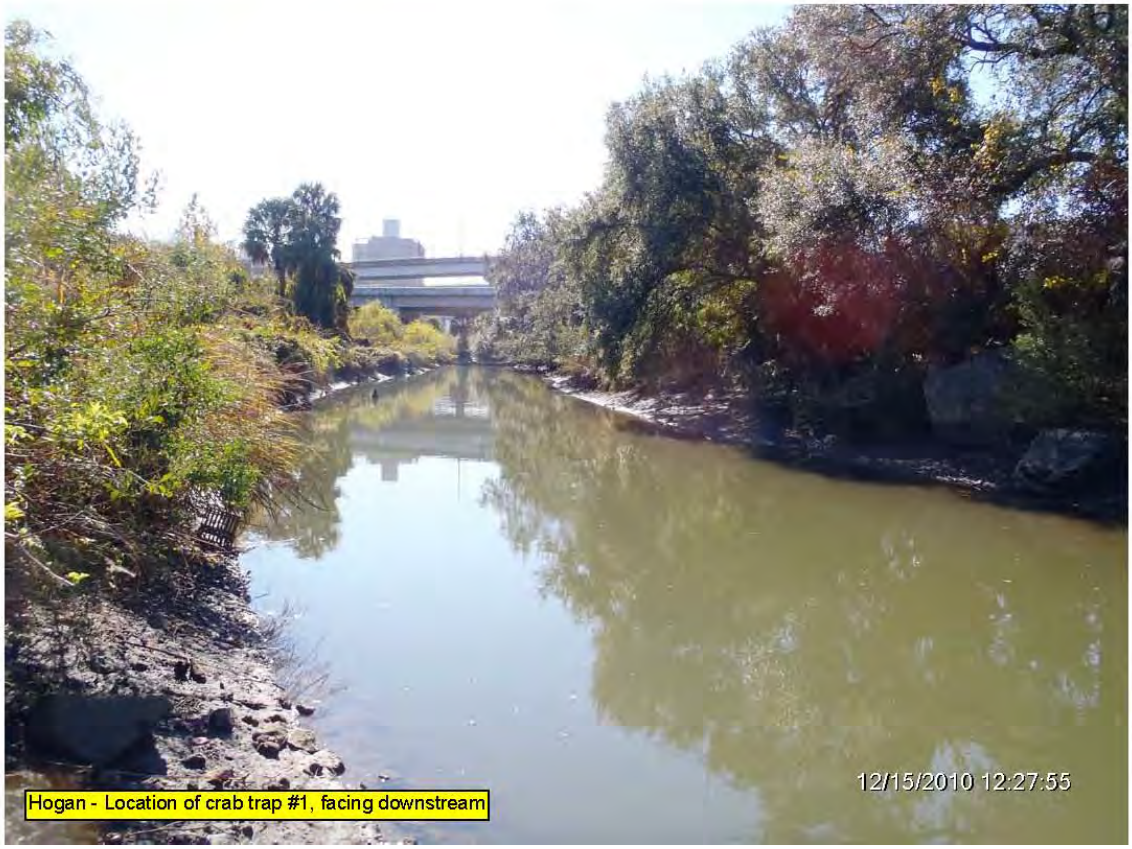
Long - End of reach, facing upstream
12/15/2010 10:20:27

Long - End of reach, facing downstream
12/15/2010 10:20:35

Hogan - Retrieval of crab trap #1
12/15/2010 12:23:05

Hogan - Crab trap #1, empty
12/15/2010 12:23:29

Hogan - Location of crab trap #1, facing upstream
12/15/2010 12:27:45


Hogan - Location of crab trap #1, facing downstream
12/15/2010 12:27:55

Hogan - Crab trap #2
12/15/2010 12:39:55

Hogan - Crab trap #2, empty
12/15/2010 12:40:22

Long - Location of crab trap #1, facing downstream
12/15/2010 13:32:09

Long - Location of crab trap #2, facing downstream
12/15/2010 13:47:13

12/15/2010 13:47:33
Long - Location of crab trap #2, facing upstream

Appendix D

(Field Logbooks)

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

Jacksonville Environmental Justice Tissue Assessment
SESD Project ID: 11-0109
Project Leader: Jerry W. Ackerman

Sonde Calibration Logbook

Inclusive Dates 12/14/10 – 12/15/10

Name	Initials	Duties	Organization
Nathan Mangle	NM	Sonde Calibration	ILS
Jerry W. Ackerman	JWA	Project Lead	US EPA

Procedures:

Operating Procedure for *In Situ* Water Quality Monitoring, SESDPROC-111-R2

Operating Procedure for Logbooks SESDPROC-010-R4

Calibration Standards:

Standard	Manufacturer	Lot # or SESD ID	Expiration
Conductivity 12,500us/cm	Myron L	050600AS	6/22/11
pH 4	Fisher	103204	5/12
pH 7	Fisher	103545	6/12
pH 10	Fisher	103159	5/12
Barometric Pressure	YSI 650MDS	04516143AD	Na
NIST Thermometer	Fisher	020807-09	12/7/11

Data Sonde Calibration Form

Sonde#: 753 (#2)

DATE/TIME	Begin	12/14/10 0630	12/15/10 0620	/	/
	End	12/15/10 1615	12/15/10 1750	/	/
CONDUCTIVITY 12,500 (µs/cm)	PreCal	12,490	12,440		
	End Check	12,440	12,530		
pH 7	PreCal	6.99	7.20		
	End Check	7.20	7.14		
pH 4	PreCal	3.99	4.01		
	End Check	4.01	4.10		
	Cal Reading	4.00	4.00		
pH 10 (Read Only)	Read Only	10.17	10.21		
	End Check	10.21	10.30		
BAROMETRIC PRESSURE (mmHg)	Begin	764.6 mmHg	765.5 mmHg		
	End	765.5 mmHg	763.4		
TEMPERATURE NIST/Thermistor T_{AMP} = 20.8	Begin	19.6 ~~20.8~~ / 19.53	20.5 / 20.41	/	[illegible] /
	End	20.5 / 20.41	20.9 / 20.36	/	/
DISSOLVED OXYGEN %	PreCal	102.8	98.8		
	Cal Reading	100.0	100.0		
	End Check	98.8	96.8		
Dissolved Oxygen (mg/L) (Compare to Chart)	PreCal	8.23 mg/L	8.47 mg/L		
	Chart Value				
	End Check	8.47 mg/L	8.22 mg/L		
	Chart Value				
BATTERY (Volts)	Begin	4.0	4.0		
	End	4.0	4.0		
OPERATOR	Begin	NM/JMT	NM/JMT		
	End	NM/JMT	NM/JMT		

Notes/comments:

T_{AMB} on 12/14/10 = 20.8°C

~~T_{AMB}~~ nm 12/15/10

T_{AMB} on 12/15/10 - 21.4°C

Sonde 753 (#2) pH 10 and check is out of range (± 0.25u)
nm

nm 12/17/10

Sonde (753 (#2) pH 10 and checked again on 12/17/10 at 14:20 and is within limit (± 0.25). It's reading is 10.22u nm 12/17/10

JWK 1/4/11

Data Sonde Calibration Form

Sonde#: 384 (#5)

DATE/TIME	Begin	12/14/10 0630	12/15/10 0620	/	/
	End	12/15/10 0615	12/15/10 1700	/	/
CONDUCTIVITY 12,500 (µs/cm)	PreCal	12,550	12,450		
	End Check	12,450	12,500		
pH 7	PreCal	7.07	7.21		
	End Check	7.21	7.18		
pH 4	PreCal	4.03 ~~3.99~~ mm 12/14/10	4.02		
	End Check	4.02	4.08		
	Cal Reading	4.00	4.00		
pH 10 (Read Only)	Read Only	10.16	10.07		
	End Check	10.07	10.12		
BAROMETRIC PRESSURE (mmHg)	Begin	764.4 mmHg	766 mmHg		
	End	766 mmHg	763.4		
TEMPERATURE NIST/Thermistor T_{AMB} = 20.8	Begin	19.7 ~~20.8~~ / 19.61	20.4 / 20.13	/	/
	End	20.4 / 20.13	20.4 / 20.15	/	/
DISSOLVED OXYGEN %	PreCal	104.2	101.1		
	Cal Reading	99.9	99.9		
	End Check	101.1	100.9		
Dissolved Oxygen (mg/L) (Compare to Chart)	PreCal	8.38 mg/L	8.70		
	Chart Value				
	End Check	8.70	8.47		
	Chart Value				
BATTERY (Volts)	Begin	4.1	4.1		
	End	4.1	4.1		
OPERATOR	Begin	MM/JMA	MM/JMA		
	End	MM/JMA	MM/JMA		

Notes/comments:

Smoke #384 was calibrated as a backup unit only.
No field measurements taken with this unit. JWA
1/4/2011

JWA
1/4/11

End of Logbook JWA 5/5/11

United States Environmental Protection Agency
Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

Jacksonville Environmental Justice Tissue Assessment
SESD Project ID: 11-0109
Project Leader: Jerry W. Ackerman

Field Collection Logbook

Inclusive Dates 12/14/2010 – 12/15/2010

Name	Initials	Duties	Organization
Jerry W. Ackerman	JWA	Project lead/photos/GPS/logbook	US EPA-R4
Nathan Mangle	NM	Water quality/sample collection	ESAT
John Ruiz	JR	Team Lead/Sample collection	EPA
Jim McMahan	JM	Sample Collection	EPA
Bobby Lewis	BL	Sample Collection	EPA
Phyllis Meyer	PMM	Sample Collection/Safety	EPA

Procedures:

Operating Procedure for Fish Field Sampling SESDPROC-512-R2

Operating Procedure for Global Position System SESDPROC-110-R2

Operating Procedure for *In Situ* Water Quality Monitoring, SESDPROC-111-R2

Operating Procedure for Logbooks SESDPROC-010-R4

Equipment log:

Date(s) Used	Equipment	Type/Model #	EPA ID# or Serial Number
12/14-15/2010	sonde	Hydrolab Quanta	753
12/14-15/2010	camera	Olympus Stylus 8100	S15777
12/14-15/2010	GPS unit	Garmin Oregon 450t	S15772
	sonde		
	camera		
	GPS unit		

Station ID: Hegan ~~St~~ JMA 1/4/11 **Date:** 12/14/2010

Stream name: Hegan Creek

Location description: Stream reach at Confederate Park

Weather conditions: Wind NW 5-10 mph, Sunny 36 °F

GPS Log

Description	Latitude (DD)	Longitude (DD)	Accuracy (ft)	Time	Initials
Downstream end of reach	30.33361	-81.65382	8 ft	0930	JMA
Upstream end of reach	30.33410	-81.65553	21 ft	1115	JMA

Photograph Log Date and time is imprinted on photo.

Photo #	Location	Time	Initials
1	☐ upstream end ☑ downstream end ☐ N/A ☐ other:	1105	JMA
Description: Facing upstream			
2	☐ upstream end ☑ downstream end ☐ N/A ☐ other:	1105	JMA
Description: Facing downstream			
3	☑ upstream end ☐ downstream end ☐ N/A ☐ other:	1123	JMA
Description: Facing upstream			
4	☑ upstream end ☐ downstream end ☐ N/A ☐ other:	1123	JMA
Description: Facing downstream			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			

In-situ Water Quality

Time: 1100 Initials: NM

Sonde Depth: 0.7 ft.

	Reading	Units
Temperature	5.65	°C
Specific Conductivity	1,930	µS/cm
Dissolved Oxygen	7.39	mg/L
pH	7.87	S.U.
Salinity	0.96	Ppt
Tide/water depth (Low)	0.7	feet

Collection Method(s): Tote Barge - blocknet upstream and downstream. ~~Set~~ JMA 12/14/10 Shock time 1248 sec

Notes: Collected Largemouth Bass and Striped Mullet. 2 size classes LMB. 1 size class Smallet with barge.
~~Crab pot, chicken and cast net used to collect remaining mullet.~~ JMA 12/14/10
Crab pot set at 1530 - N30.32817° W 81.69765°. Used bass carcass as bait.
JR/BR Checked crab pot on 12/15/10 @ 1230 - No crabs. Photos taken.
Photo 18 @ 12:23 - crab pot
Photo 19 @ 12:23 - empty crab pot
Photo 20 @ 12:27 upstream
Photo 21 @ 12:27 downstream
JMA 1/4/11

Fish Collected

Species Name: Largemouth Bass Replicate Number: 1
Composite Number: H-LMB1 Number of Individuals: 3

Fish #	Length (mm)	Fish #	Length (mm)
001	343	006	
002	426	007	
003	363	008	
004		009	
005		010	

Min. Length 343 / Max. Length 426 x100= 80.5 % (≥75%)

Composite Mean Length 377.3 mm

Notes (e.g., morphological anomalies):

Species Name: Largemouth Bass Replicate Number: 2
Composite Number: H-LMB2 Number of Individuals: 4

Fish #	Length (mm)	Fish #	Length (mm)
001	339	006	
002	363	007	
003	375	008	
004	336	009	
005		010	

Min. Length 336 / Max. Length 375 x100= 89.6 % (≥75%)

Composite Mean Length 353 mm

Notes (e.g., morphological anomalies):

Species Name: Largemouth Bass Replicate Number: 3
Composite Number: H-LMB5 Number of Individuals: 3

Fish #	Length (mm)	Fish #	Length (mm)
001	319	006	
002	320	007	
003	421	008	
004		009	
005		010	

Min. Length 319 / Max. Length 421 x100= 75.8 % (≥75%)

Composite Mean Length 353 mm

Notes (e.g., morphological anomalies):

JWA 5/5/11

Species Name: Largemouth Bass		Replicate Number: 1	
Composite Number: HLMB3		Number of Individuals: 8	
Fish #	Length (mm)	Fish #	Length (mm)
001	284	006	222
002	270	007	217
003	247	008	211
004	238	009	
005	233	010	
Min. Length 211 / Max. Length 284 x100= 74.3 % (≥75%)		Composite Mean Length 240 mm	
Notes (e.g., morphological anomalies):			

Species Name: Largemouth Bass		Replicate Number: 2	
Composite Number: H-LMB4		Number of Individuals:	
Fish #	Length (mm)	Fish #	Length (mm)
001	265	006	223
002	260	007	220
003	234	008	221
004	232	009	
005	238	010	
Min. Length 220 / Max. Length 265 x100= 83 % (≥75%)		Composite Mean Length 236.6 mm	
Notes (e.g., morphological anomalies):			

Notes/sketches: JMA/JR/RL

Crab pot #2 set out @ 1600 at Confederate Park. Upstream end of fish sampling reach. Photos 22 @ 1239 > 17/15/10 Traps pulled at 1245, Empty
23 @ 1240

See pages 9-11 for bottom feeder fish measurements.

Sample team:
John Ruiz
Bobby Lewis
Jon McMahan
Jerry Ackerman
Nathan Mangle
Phyllis Meyer
Jeremy Parrish - FDEP

JMA 5/5/11

Station ID: Long 3 JWA 5/5/11 **Date:** 12/15/10

Stream name: Long Branch

Location description: West of N. Liberty St. Parallel to Winona Dr.

Weather conditions: Sunny, Light winds 5mph Temp 32°F

GPS Log

Description	Latitude (DD)	Longitude (DD)	Accuracy (ft)	Time	Initials
Downstream end	30.36404	-81.64987	23	1019	
Upstream end	30.36366	-81.65096	16	1026	

Photograph Log

Date and time is imprinted on photo.

Photo #	Location	Time	Initials
14	☐ upstream end ☑ downstream end ☐ N/A ☐ other:	1017	JWA
Description: Facing upstream			
15	☐ upstream end ☑ downstream end ☐ N/A ☐ other:	1017	JWA
Description: Facing downstream			
16	☑ upstream end ☐ downstream end ☐ N/A ☐ other:	1020	JWA
Description: Facing upstream. Upper pool.			
17	☑ upstream end ☐ downstream end ☐ N/A ☐ other:	1020	JWA
Description: Facing downstream			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			

In-situ Water Quality

Time: 1020 Initials: NM

Sonde Depth: 0.8 ft

	Reading	Units
Temperature	11.92	°C
Specific Conductivity	342	µS/cm
Dissolved Oxygen	6.46	mg/L
pH	6.96	S.U.
Salinity	0.21	Ppt
Tide/water depth	0.8	feet

Collection Method(s): Tote Barge. Shock time 2482 sec.

Notes: JWA JR Crab pot set at Buffalo Ave crossing at 1320. N 30.37172 W 81.63965 2004
Photo # 24 @ 1332 facing downstream. Used tilapia carcass as bait.

JWA JR Crab pot set at 32nd St bridge. upper reach of Long 3 fish collection site.
N 30.36371 W 81.65087 (off) Photos 25 @ 1347 downstream
26 @ 1347 upstream

JWA 5/5/11

Fish Collected

Species Name: Largemouth Bass Replicate Number: 1
Composite Number: L-LMB1 Number of Individuals: 12

Fish #	Length (mm)	Fish #	Length (mm)
001	207	006	202
002	220	007	219
003	211	008	215
004	201	009	206
005	230	010	198

Min. Length 193 / Max. Length 254 x100= 76 % (≥75%) Composite Mean Length 213 mm

011 - 254 012 - 193

Notes (e.g., morphological anomalies):

Species Name: Largemouth Bass Replicate Number: 2
Composite Number: L-LMB2 Number of Individuals: 13

Fish #	Length (mm)	Fish #	Length (mm)
001	214	006	236
002	229	007	202
003	220	008	216
004	219	009	215
005	209	010	205

Min. Length 197 / Max. Length 236 x100= 83.5 % (≥75%) Composite Mean Length 214.8 mm

011 - 197 012 - 202 013 - 228

Notes (e.g., morphological anomalies):

Species Name: Largemouth Bass Replicate Number: 1
Composite Number: L-LMB3 Number of Individuals: 3

Fish #	Length (mm)	Fish #	Length (mm)
001	361	006	
002	300	007	
003	299	008	
004		009	
005		010	

Min. Length 299 / Max. Length 361 x100= 82.8 % (≥75%) Composite Mean Length 320 mm

Notes (e.g., morphological anomalies):

JMA 5/5/11

Species Name: Largemouth Bass Replicate Number: 2
Composite Number: L-LMB4 Number of Individuals: 3

Fish #	Length (mm)	Fish #	Length (mm)
001	327	006	
002	310	007	
003	313	008	
004		009	
005		010	

Min. Length 310 / Max. Length 327 x100= 94.8 % (≥75%)

Composite Mean Length 316.7 mm

Notes (e.g., morphological anomalies):

Species Name: Blue Tilapia Replicate Number: 1
Composite Number: L-TIA1 Number of Individuals: 6

Fish #	Length (mm)	Fish #	Length (mm)
001	314	006	250
002	260	007	
003	264	008	
004	245	009	
005	256	010	

Min. Length ~~250~~ 245 / Max. Length 314 x100= ~~79.6~~ 78 % (≥75%)

Composite Mean Length 264.8 mm

Notes (e.g., morphological anomalies):

Notes/sketches:

Returned to this location at 1400 hrs to collect additional samples. Other potential access points failed.

See pages 12-14 for continuation of fish measurements.

5/5/11

Station ID: Hogan **Date:** 12/14/10

Stream name: Hogan Creek

Location description: See page 3

Weather conditions: See page 3

GPS Log

Description	Latitude (DD)	Longitude (DD)	Accuracy (ft)	Time	Initials

Photograph Log Date and time is imprinted on photo.

Photo #	Location	Time	Initials
	□ upstream end □ downstream end □ N/A □ other:		
Description:			
	□ upstream end □ downstream end □ N/A □ other:		
Description:			
	□ upstream end □ downstream end □ N/A □ other:		
Description:			
	□ upstream end □ downstream end □ N/A □ other:		
Description:			
	□ upstream end □ downstream end □ N/A □ other:		
Description:			
	□ upstream end □ downstream end □ N/A □ other:		
Description:			

In-situ Water Quality

Time: _____ Initials: _____

Sonde Depth: _____

	Reading	Units
Temperature		°C
Specific Conductivity		µS/cm
Dissolved Oxygen		mg/L
pH		S.U.
Salinity		Ppt
Tide/water depth		feet

Collection Method(s):_____

Notes:

JMA 1/5/11

Fish Collected

Species Name: Striped Mullet Replicate Number: 1
Composite Number: H-MUL 1 Number of Individuals: 10

Fish #	Length (mm)	Fish #	Length (mm)
001	320	006	281
002	303	007	266
003	300	008	263
004	294	009	264
005	292	010	279

Min. Length 263 / Max. Length 320 x100= 82 % (≥75%)

Composite Mean Length ~~262.4~~ 286.2 mm JMA 1/4/11

Notes (e.g., morphological anomalies):

Species Name: Striped Mullet Replicate Number: 2
Composite Number: HMUL 2 Number of Individuals: 10

Fish #	Length (mm)	Fish #	Length (mm)
001	~~319~~ JMA 1/4/10 314	006	274
002	311	007	264
003	296	008	273
004	300	009	264
005	289	010	258

Min. Length 258 / Max. Length 314 x100= 82.2 % (≥75%)

Composite Mean Length 284.3 mm

Notes (e.g., morphological anomalies):

Species Name: Striped Mullet Replicate Number: 1
Composite Number: H-MUL3 Number of Individuals: 13

Fish #	Length (mm)	Fish #	Length (mm)
001	222	006	217
002	214	007	214
003	213	008	197
004	211	009	185
005	210	010	177.

Min. Length 164 / Max. Length 222 x100= 74 % (≥75%)

Composite Mean Length 197.5 mm

011 - 178 012 - 164 013 - 165

Notes (e.g., morphological anomalies):

JMA 5/5/11

Species Name:_____ Replicate Number:_____
Composite Number:_____ Number of Individuals:_____

Fish #	Length (mm)	Fish #	Length (mm)
001		006	
002		007	
003		008	
004		009	
005		010	

Min. Length / Max. Length x100=_____% (≥75%) Composite Mean Length_____mm

Notes (e.g., morphological anomalies):

JWA 1/4/11

Species Name:_____ Replicate Number:_____
Composite Number:_____ Number of Individuals:_____

Fish #	Length (mm)	Fish #	Length (mm)
001		006	
002		007	
003		008	
004		009	
005		010	

Min. Length / Max. Length x100=_____% (≥75%) Composite Mean Length_____mm

Notes (e.g., morphological anomalies):

Notes/sketches:

JWA 1/4/11

JWA 5/5/11

Station ID: Long **Date:** 12/15/10

Stream name: Long Branch

Location description: See page 6.

Weather conditions: Page 6

GPS Log

Description	Latitude (DD)	Longitude (DD)	Accuracy (ft)	Time	Initials

Photograph Log Date and time is imprinted on photo.

Photo #	Location	Time	Initials
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			
	☐ upstream end ☐ downstream end ☐ N/A ☐ other:		
Description:			

In-situ Water Quality

JWA 1/4/11

Time: _____ Initials: _____

Sonde Depth: _____

	Reading	Units
Temperature		°C
Specific Conductivity		µS/cm
Dissolved Oxygen		mg/L
pH		S.U.
Salinity		Ppt
Tide/water depth		feet

Collection Method(s): _____

Notes:

JWA 5/5/11

Fish Collected

Species Name: Blue Tilapia Replicate Number: 2
Composite Number: L-TIA2 Number of Individuals: 6

Fish #	Length (mm)	Fish #	Length (mm)
001	267	006	238
002	254	007	
003	256	008	
004	246	009	
005	253	010	

Min. Length 238 / Max. Length 267 x100= 89.1 % (≥75%)
Composite Mean Length 252.3 mm

Notes (e.g., morphological anomalies):

Species Name: Blue Tilapia Replicate Number: 1
Composite Number: L-TIA3 Number of Individuals: 9

Fish #	Length (mm)	Fish #	Length (mm)
001	225	006	222
002	205	007	224
003	204	008	224
004	202	009	228
005	223	010	

Min. Length 202 / Max. Length 228 x100= 88.6 % (≥75%)
Composite Mean Length 217.4 mm

Notes (e.g., morphological anomalies):

Species Name: Blue Tilapia Replicate Number: 2
Composite Number: L-TIA4 Number of Individuals: 9

Fish #	Length (mm)	Fish #	Length (mm)
001	218	006	219
002	215	007	235
003	210	008	235
004	213	009	222
005	231	010	

Min. Length 210 / Max. Length 235 x100= 89.4 % (≥75%)
Composite Mean Length 222 mm

Notes (e.g., morphological anomalies):

JWH 5/5/11

Species Name:_____ Replicate Number:_____
Composite Number:_____ Number of Individuals:_____

Fish #	Length (mm)	Fish #	Length (mm)
001		006	
002		007	
003		008	
004		009	
005		010	

Min. Length / Max. Length x100=_____% (≥75%)	Composite Mean Length_____mm

Notes (e.g., morphological anomalies):

Species Name:_____ Replicate Number:_____
Composite Number:_____ Number of Individuals:_____

Fish #	Length (mm)	Fish #	Length (mm)
001		006	
002		007	
003		008	
004		009	
005		010	

Min. Length / Max. Length x100=_____% (≥75%)	Composite Mean Length_____mm

Notes (e.g., morphological anomalies):

JMA 1/4/11

Notes/sketches:

End of Log book

JMA 5/5/11

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

Jacksonville Environmental Justice Tissue Assessment
SESD Project ID: 11-0109
Project Leader: Jerry W. Ackerman

Tissue Processing Logbook

Name	Initials	Duties	Organization
Jerry Ackerman	JWA	Processing	EPA
Phyllis Meyer	PM	Fillet / Processing	EPA
Nathan Mangle	NM	Fillet / Processing	ESAT
Bobby Lewis	BL	Processing	
John Ruiz	JR	Processing	
Jon McMahan	JM	Processing	

Procedures:

Field Equipment Cleaning and Decontamination SESDPROC-205-R1, 2007, Region 4, SESD, Athens, GA

Operating Procedure for Tissue Sample Handling & Processing SESDPROC-602-R0 (In Preparation), Region 4, SESD Athens, GA

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
Hogan	LMB1	12/14/10	12/14/10	343	617	250		PM/NM	
Hogan	LMB2			426	1099	442			
Hogan	LMB3			363	759	313			
Hogan	LMB4			339	588	237			
Hogan	LMB5			363	651	258			
Hogan	LMB6			375	709	308			
	LMB7			336	597	248			
	LMB8			319	471	190			
	LMB9			320	472	196			
	LMB10			421	1187	502			
	LMB11			284	289	117			
	LMB12			270	259	105			
	LMB13			247	208	84			
	LMB14			238	195	83			
	LMB15			233	173	69			
	LMB16			222	150	60			
	LMB17			217	146	58			
	LMB18			211	124	46			
	LMB19			265	272	111			
Hogan	LMB20	12/14/10	12/14/10	260	259	110			

JMA
5/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
Hogan	LMB21	12/14/10	12/14/10	234	183	72		FM/NM	
	LMB22			232	176	68			
	LMB23			238	195	77			
	LMB24			223	151	56			
	LMB25			220	140	59			
	LMB26			221	134	52			
Hogan	MUL 1			320	257	86			
	MUL 2			303	257	86			
	MUL 3			300	252	89			
	MUL 4			294	233	74			
	MUL 5			292	256	98			
	MUL 6			281	213	78			
	MUL 7			266	162	56			
	MUL 8			263	149	52			
	MUL 9			264	146	40			
	MUL 10			279	163	40	Internal		Approx. 5mm diameter x 50mm long Brown stick-like object embedded in muscle tissue.
	MUL 11			314	217	56			
	MUL 12			311	210	57			
	MUL 13			296	238	83			
Hogan	MUL 14	12/14/10	12/14/10	300	262	101		FM/NM	

JWA 1/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
Hogan	MUL15	12/14/10	12/14/10	284	218	73		PM/NM	
	MUL16			274	210	82			
	MUL17			264	186	60			
	MUL18			273	172	59			
	MUL19			264	185	66			
	MUL20			258	167	54			
	MUL21			222	108	38			
	MUL22			214	102	39			
	MUL23			213	95	36			
	MUL24			211	95	35			
	MUL25			210	93	30			
	MUL26			217	95	31			
	MUL27			214	87	32			
	MUL28			197	79	29			
	MUL29			185	62	22			
	MUL30			177	50	16			
	MUL31			178	56	18			
	MUL32			164	38	12			
Hogan	MUL33	12/14/10	12/14/10	165	44	16			
JMA	12/14/10								

JMA 5/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
Long	TIA 1	12/15/10	12/15/10	314	537	160		PM/NM	
	TIA 2			260	344	106			
	TIA 3			264	350	110			
	TIA 4			245	288	97			
	TIA 5			256	297	90			
	TIA 6			250	302	93			
	TIA 7			267	371	120			
	TIA 8			254	303	80			
	TIA 9			256	312	87			
	TIA 10			246	307	109			
	TIA 11			253	319	112			
	TIA 12			238	267	84			
	TIA 13			225	223	82			
	TIA 14			205	166	46			
	TIA 15			204	168	59			
	TIA 16			202	149	53			
	TIA 17			223	199	62			
	TIA 18			222	210	69			
	TIA 19			224	208	67			
Long	TIA 20	12/15/10	12/15/10	224 ~~206~~ JWT 12/15/10	JWT 12/15/10 ~~2~~ 206	74			

JWT 5/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
Long	TIA21	12/15/10	12/15/10	228	191	65		PM/NM	
	TIA22			218	207	62			
	TIA23			215	179	93			
	TIA24			210	182	74			
	TIA25			213	179	63			
	TIA26			231	226	70			
	TIA27			219	202	60			
	TIA28			235	230	60			
	TIA29			235	257	59			
	TIA30			222	223	69			
	LMB1			207	114	47			
	LMB2			220	138	52			
	LMB3			211	111	46			
	LMB4			201	94	38			
	LMB5			230	138	50			
	LMB6			202	103	42	lesion		
	LMB7			219	143	52			
	LMB8			215	122	50			
	LMB9			206	103	39			
Long	LMB10	12/15/10	12/15/10	198	94	37			

NA 5/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
LONG	LMB11	12/15/10	12/15/10	254	184	71		PM/NM	
	LMB12			193	89	36			
	LMB13			214	122	50			
	LMB14			229	146	58			
	LMB15			220	144	54			
	LMB16			219	125	53			
	LMB17			209	133	47			
	LMB18			236	163	68			
	LMB19			202	100	38			
	LMB20			216	118	45			
	LMB21			215	132	47			
	LMB22			205	102	41			
	LMB23			197	86	33			
	LMB24			202	94	34			
	LMB25			228	159	63			
	LMB26			361	765	305			
	LMB27			300	387	167			
	LMB28			299	406	178			
	LMB29			327	578	214			
Long	LMB30	12/15/10	12/15/10	310	392	164			

JWA 5/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments
Long	LMB31	12/15/10	12/15/10	313	500	219		PM/NM	
						JWA 12/15/10			

JWA 5/5/11

Initial Processing (Filleting)

Station ID	Tissue ID	Date Collected	Date Filleted	Total Length (mm)	Total Weight (g)	Total Fillet Weight (g)	Anomalies	Processor	Comments

JWH 12/13/10

JWH 5.5.11

Grinding / Homogenizing

Station ID	Tissue ID	Composite ID	Date Collected	Date Ground	Blender #	Composite Weight (g)	Processor	Comments
Hogan	MUL1 to MUL10	H-MUL-1	12/14/10	12/17/10	1	699	PAM	Mullet # 1-10 MUL1 - MUL10
Hogan	MUL11 to MUL20	H-MUL-2	12/14/10	12/17/10	2	691	NM	Mullet # 11-20
Hogan	MUL21 to MUL33	H-MUL-3	12/14/10	12/17/10	3	354	PAM	Mullet # 21-33
Long	TIA 13 to TIA 21	L-TIA-3	12/15/10	12/17/10	5	577	JR	Tilapia # 13-21
Long	TIA 22 to TIA 30	L-TIA-4	12/15/10	12/17/10	4	610	JR	Tilapia # 22-30
Long	TIA 7 to TIA 12	L-TIA-2	12/15/10	12/17/10	6	592	JM	Tilapia # 7-12
Long	TIA 1 to TIA 6	L-TIA-1	12/15/10	12/17/10	7	656	NM	Tilapia # 1-6
Hogan	LMB 14 to LMB 22	H-LMB-4	12/14/10	12/17/10	9	605	NM	Largemouth bass # 19-26
Hogan	LMB 11 to LMB 18	H-LMB-3	12/14/10	12/17/10	8	622	JM	Largemouth bass # 11-18
Long	LMB 1 to LMB 3	L-LMB-3	12/15/10	12/17/10	10	650	JR	Largemouth bass # ~~1-3~~ 26-28 JWA 1/5/11
Long	LMB 4 to LMB 6	L-LMB-4	12/15/10	12/17/10	2	~~888~~ 597 JWA 2/21/11	BL	Largemouth bass # ~~4-6~~ 29-31 JWA 1/5/11
Hogan	LMB 8 to LMB 10	H-LMB-5	12/14/10	12/17/10	3	888	JM	Largemouth bass # 8-10
Hogan	LMB 4 to LMB 7	H-LMB-2	12/14/10	12/17/10	5	1050	NM	Largemouth bass # 4-7
Hogan	LMB 1 to LMB 3	H-LMB-1	12/14/10	12/17/10	10	1005	BL	Largemouth bass # 1-3
Long	LMB 1 to LMB 12	L-LMB-1	12/15/10	12/17/10	7	560	JM	Largemouth bass # 1-12
Long	LMB 13 to LMB 31	L-LMB-2	12/15/10	12/17/10	4	631	JWA	Largemouth bass # 13-~~31~~ 25 JWA 1/5/11
				JWA	12/30/10			

End of Log Book
5/5/11
JWA

Appendix E

(Analytical Reports)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0109
Project: 11-0178, Environmental Justice Jacksonville - Reported by Jeffrey Hendel

April 27, 2011

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0178, Environmental Justice Jacksonville
Surface Water Protection

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Jerry Ackerman

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Dioxin (DIO)	
Dioxin	Contract SOW

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 11-0178, Environmental Justice Jacksonville - Reported by Jeffrey Hendel

Report Narrative for Work Order C111501, Project: 11-0178
Site Name: Environmental Justice Jacksonville, Jacksonville, FL
ELEMENT Sample Nos. C111501-01 through C111501-10

Dioxin Analysis: Cape Fear Analytical, LLC, Wilmington, NC

The ESAT Work Team reviewed data for the project cited above consisting of eight tissue samples and two dry ice blanks, which were all analyzed per statement of work DLM02.2 for dioxins and furans. The samples were collected between 12/14/10 and 12/20/10, and received by the laboratory on 03/11/11. The final data package was received by the USEPA Quality Assurance Section, Region 4 SESD/MTSB on 04/01/11. A Stage 4 validation consisting of a manual review (S4VM) was performed on the dioxin samples submitted for this case.

Certain results among these data are reported as not detected at an elevated detection limit. In general, this may occur when method blank contamination is evident, or when one or more of the qualitative identification criteria have not been met. In the event of method blank contamination, detection limits may be raised as much as five times the level of contamination in order to discount false positive results. If qualitative identification criteria are not met for an analyte, an estimated maximum possible concentration (EMPC) value is reported, and is qualified as non-detect ("U" flag).

The method reporting limit (MRL), as defined elsewhere in this document, is used in dioxin/furan analyses to report the analyte concentration which corresponds to the lowest quantitative point on the calibration curve. Any positive results less than this value are qualified as estimates ("J" flag). The value reported for a 2,3,7,8-substituted PCDD/PCDF analyte that is not detected is either an estimated detection limit (EDL), which is calculated from the instrument signal vs. system noise, or an EMPC value as described above, qualified with a "U" flag.

Toxic equivalent quantities (TEQ) have been reported for these data which have been derived form the most recently available set of toxic equivalent factors (TEF). For mammalian TEQs, these factors were published in 2005 by the World Health Organization (WHO). In the case of the TEQs for birds and fish, the factors were published in 1998, also by WHO.

Toxic equivalent values for non-detect results are determined using the EDL or the EMPC as a proxy value. Thus a sample with non-detect results for all PCDD/PCDF congeners will still have a positive TEQ value. The TEQ is qualified as estimated ("J") when the sum of the contributions from the various PCDD/PCDF analytes that are themselves reported as either estimated ("J") or non-detect ("U") exceeds 10% of the TEQ total. If no positive results are present for any of the 2,3,7,8 congeners, the TEQ is reported as not detected with an estimated detection limit ("UJ").

Low recovery of the labeled 2,3,7,8-TCDF standard was observed in the opening continuing calibration standard (TCDFCS3) analyzed on 03/29/11 using the DB-225 column. The confirmed result for 2,3,7,8-TCDF in sample C111501-10 was "J" qualified (QC-3).

All data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

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D.A.R.T. Id: 11-0109
Project: 11-0178, Environmental Justice Jacksonville - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 11-0178, Environmental Justice Jacksonville

Sample ID	Laboratory ID	Matrix	Date Collected
QABB2	C111501-01	Dry Ice Blank	12/20/10 14:35
QADIB	C111501-02	Dry Ice Blank	12/20/10 14:30
H-LMB1	C111501-03	Tissue	12/14/10 10:00
H-LMB2	C111501-04	Tissue	12/14/10 10:00
H-LMB3	C111501-05	Tissue	12/14/10 10:00
H-LMB4	C111501-06	Tissue	12/14/10 10:00
H-LMB5	C111501-07	Tissue	12/14/10 10:00
H-MUL1	C111501-08	Tissue	12/14/10 10:00
H-MUL2	C111501-09	Tissue	12/14/10 10:00
H-MUL3	C111501-10	Tissue	12/14/10 10:00

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP10	2,3,7,8-TCDF confirmed by second column.
CLP18	Estimated Maximum Possible Concentration (EMPC) Reported
CLP24	Result has not been confirmed by second column analysis.
D-5	Estimated quantitation for one or more individual constituents comprising >10% of the total.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-3	Instrument not calibrated for all constituents of the total concentration result.
QC-3	Analyte calibration criteria not met

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Project: 11-0178, Environmental Justice Jacksonville - Reported by Jeffrey Hendel

Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: QABB2 **Lab ID:** C111501-01

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 12/20/10 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.00075	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00034	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00055	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.00048	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00033	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.00047	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00031	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.00050	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00030	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.00037	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.00025	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00044	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.00025	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.00040	U	ng	0.010	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.00034	U	ng	0.010	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	0.00075	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.00034	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.00047	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.00030	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.00098	U	ng	0.10	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.00091	U	ng	0.10	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.00037	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	0.00025	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.0016	U, J, D-5	ng	0.0016	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.0013	U, J, D-5	ng	0.0013	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.0012	U, J, D-5	ng	0.0012	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.00040	U, J, Q-3	ng	0.010	3/21/11	3/26/11	CL DLM02.0
30402-14-3	Tetrachlorodibenzofuran (Total)	0.00034	U, J, Q-3	ng	0.010	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: QADIB
Lab ID: C111501-02
Station ID:
Matrix: Dry Ice Blank

Date Collected: 12/20/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.00032	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00030	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00048	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.00057	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00027	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.00057	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00028	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.00060	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00027	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.00037	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.00034	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00040	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.00033	U	ng	0.050	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.00034	U	ng	0.010	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.00094	J, CLP01, CLP24	ng	0.010	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	0.00032	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.00030	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.00057	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.00027	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.0010	U	ng	0.10	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.0012	U	ng	0.10	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.00037	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	0.00033	U, J, Q-3	ng	0.050	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.0022	J, D-5	ng	0.0022	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.0014	J, D-5	ng	0.0014	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.0012	J, D-5	ng	0.0012	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.00034	U, J, Q-3	ng	0.010	3/21/11	3/26/11	CL DLM02.0
30402-14-3	Tetrachlorodibenzofuran (Total)	0.0025	J, Q-3	ng	0.010	3/21/11	3/26/11	CL DLM02.0

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D.A.R.T. Id: 11-0109
Project: 11-0178, Environmental Justice Jacksonville - Reported by Jeffrey Hendel

Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-LMB1 **Lab ID:** C111501-03
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.1		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.43	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.43	J, CLP01	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.088	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.10	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.089	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.25	J	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.27	J, CLP01	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.11	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.13	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.37	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.071	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.098	U	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.45	J	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.19	U, CLP18	ng/kg	0.80	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.30	J, CLP01, CLP24	ng/kg	0.80	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	0.25	J, Q-3	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.52	J, Q-3	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	2.5	J, Q-3	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	1.4	J, Q-3	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.60	U	ng/kg	8.0	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.12	U	ng/kg	8.0	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.56	J, Q-3	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	3.8	J, Q-3	ng/kg	4.0	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	1.4	J, D-5	ng/kg	1.4	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.92	J, D-5	ng/kg	0.92	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.84	J, D-5	ng/kg	0.84	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.19	J, Q-3	ng/kg	0.80	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-LMB1** **Lab ID:** **C111501-03**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	4.8	J, Q-3	ng/kg	0.80	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-LMB2 **Lab ID:** C111501-04
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.40		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.26	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.16	U, CLP18	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.069	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.11	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.055	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.15	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.066	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.11	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.077	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.14	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.056	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.056	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.22	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.083	J, CLP01	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.31	J, CLP01, CLP24	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1.4	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.31	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.15	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.16	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.45	U	ng/kg	8.5	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.090	U	ng/kg	8.5	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.20	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	0.88	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.83	J, D-5	ng/kg	0.83	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.46	J, D-5	ng/kg	0.46	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.41	J, D-5	ng/kg	0.41	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.083	J, Q-3	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-LMB2** **Lab ID:** **C111501-04**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	1.7	J, Q-3	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-LMB3 **Lab ID:** C111501-05
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.60		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.20	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.18	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.082	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.074	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.054	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.077	J, CLP01	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.070	J, CLP01	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.078	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.074	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.10	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.065	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.056	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.18	U	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.11	U, CLP18	ng/kg	0.88	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.32	J, CLP01, CLP24	ng/kg	0.88	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	0.38	J, Q-3	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.18	J, Q-3	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.077	J, Q-3	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.37	J, Q-3	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.28	U	ng/kg	8.8	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.096	U	ng/kg	8.8	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.10	J, Q-3	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	0.95	J, Q-3	ng/kg	4.4	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.77	J, D-5	ng/kg	0.77	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.40	J, D-5	ng/kg	0.40	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.36	J, D-5	ng/kg	0.36	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.15	J, Q-3	ng/kg	0.88	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-LMB3** **Lab ID:** **C111501-05**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	1.6	J, Q-3	ng/kg	0.88	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-LMB4 **Lab ID:** C111501-06
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.70		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.15	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.13	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.076	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.074	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.040	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.075	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.047	J, CLP01	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.078	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.056	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.098	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.051	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.044	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.17	U	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.085	U, CLP18	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.27	J, CLP01, CLP24	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	0.98	J, Q-3	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.13	J, Q-3	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.083	J, Q-3	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.28	J, Q-3	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.22	U	ng/kg	8.5	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.092	U	ng/kg	8.5	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.098	J, Q-3	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	0.70	J, Q-3	ng/kg	4.3	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.70	J, D-5	ng/kg	0.70	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.38	J, D-5	ng/kg	0.38	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.34	J, D-5	ng/kg	0.34	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.085	J, Q-3	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-LMB4** **Lab ID:** **C111501-06**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	1.4	J, Q-3	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-LMB5 **Lab ID:** C111501-07
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.50		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.43	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.23	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.43	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.25	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.17	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.23	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.16	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.25	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.29	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.18	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.12	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.18	J, CLP01	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.12	U	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.19	U, CLP18	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.28	J, CLP01, CLP24	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	0.78	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.18	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.22	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	1.0	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.99	U	ng/kg	8.5	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.99	U	ng/kg	8.5	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.57	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	4.0	J, Q-3	ng/kg	4.2	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.90	J, D-5	ng/kg	0.90	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.66	J, D-5	ng/kg	0.66	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.60	J, D-5	ng/kg	0.60	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.12	J, Q-3	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0

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Project: 11-0178, Environmental Justice Jacksonville - Reported by Jeffrey Hendel

Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-LMB5** **Lab ID:** **C111501-07**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	5.7	J, Q-3	ng/kg	0.85	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-MUL1 **Lab ID:** C111501-08
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.4		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.54	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.30	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.56	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.34	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.17	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.32	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.16	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.34	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.28	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.20	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.14	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.19	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.12	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.16	J, CLP01	ng/kg	0.90	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.30	J, CLP24, CLP01	ng/kg	0.90	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1.7	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.22	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.040	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.78	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	1.3	J, CLP01	ng/kg	9.0	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	1.0	U	ng/kg	9.0	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.37	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	2.9	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.95	J, D-5	ng/kg	0.95	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.72	J, D-5	ng/kg	0.72	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.63	J, D-5	ng/kg	0.63	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.17	J, Q-3	ng/kg	0.90	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-MUL1** **Lab ID:** **C111501-08**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	3.9	J, Q-3	ng/kg	0.90	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-MUL2 **Lab ID:** C111501-09
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.2		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.12	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.21	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.080	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.076	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.040	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.073	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.062	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.078	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.052	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.15	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.074	J, CLP01	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.039	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.30	J, CLP01	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.12	U, CLP18	ng/kg	0.89	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.74	J, CLP01, CLP24	ng/kg	0.89	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	4.2	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.29	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.74	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	0.74	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.17	U, CLP18	ng/kg	8.9	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.11	U	ng/kg	8.9	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.27	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	2.5	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	1.4	J, D-5	ng/kg	1.4	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.54	J, D-5	ng/kg	0.54	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.51	J, D-5	ng/kg	0.51	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.12	J, Q-3	ng/kg	0.89	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-MUL2** **Lab ID:** **C111501-09**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	3.1	J, Q-3	ng/kg	0.89	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: H-MUL3 **Lab ID:** C111501-10
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	2.7		%		3/21/11	3/26/11	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.14	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.42	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.060	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.080	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.052	J, CLP01	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.16	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.14	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.084	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.075	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.23	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.099	U, CLP18	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.074	J, CLP01	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.58	U	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.14	J, CLP01	ng/kg	0.91	3/21/11	3/26/11	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.1	CLP10, QC-3	ng/kg	0.91	3/21/11	3/26/11	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	5.4	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	0.51	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	0.34	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	1.6	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	0.23	U	ng/kg	9.1	3/21/11	3/26/11	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	0.11	U	ng/kg	9.1	3/21/11	3/26/11	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	0.52	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	4.9	J, Q-3	ng/kg	4.5	3/21/11	3/26/11	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	2.2	J, D-5	ng/kg	2.2	3/21/11	3/26/11	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.83	J, D-5	ng/kg	0.83	3/21/11	3/26/11	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.76	J, D-5	ng/kg	0.76	3/21/11	3/26/11	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.22	J, Q-3	ng/kg	0.91	3/21/11	3/26/11	CL DLM02.0

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Dioxin

Project: 11-0178, Environmental Justice Jacksonville

Sample ID: **H-MUL3** **Lab ID:** **C111501-10**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: **12/14/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
30402-14-3	Tetrachlorodibenzofuran (Total)	5.1	J, Q-3	ng/kg	0.91	3/21/11	3/26/11	CL DLM02.0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

April 4, 2011

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0109, Environmental Justice Jacksonville
Surface Water Protection

FROM: Jeannie Williamson
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: Jerry Ackerman

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Organochlorine Pesticides (OCP)	
Organochlorine pesticides	EPA 8081
PCB Aroclors (PCBA)	
PCB aroclors	EPA 8082

Report Narrative for Work Order E105301, Project: 11-0109

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

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SAMPLES INCLUDED IN THIS REPORT

Project: 11-0109, Environmental Justice Jacksonville

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
QABB2	E105301-01	Equipment Rinse Blank	12/20/10 14:35	12/28/10 9:40
QADIB	E105301-02	Dry Ice Blank	12/20/10 14:30	12/28/10 9:40
QAMQB	E105301-03	Organic Free Water Blank	12/28/10 09:05	12/28/10 9:40
H-LMB1	E105301-04	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB2	E105301-05	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB3	E105301-06	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB4	E105301-07	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB5	E105301-08	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL1	E105301-09	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL2	E105301-10	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL3	E105301-11	Tissue	12/14/10 10:00	12/28/10 9:40
L-LMB1	E105301-12	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB2	E105301-13	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB3	E105301-14	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB4	E105301-15	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA1	E105301-16	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA2	E105301-17	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA3	E105301-18	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA4	E105301-19	Tissue	12/15/10 10:00	12/28/10 9:40

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
CR	Due to interferences, analyte concentration is over highest standard.
CRa	T. Chlordane result is an estimate. Constituents metabolized or degraded in sample, resulting in an altered pattern.
D-4	MRL elevated due to interferences.
H-8	Recommended analytical holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-4	Greater than 40 % difference between primary and confirmatory GC columns
QM-1	Matrix Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.
QS-3	Surrogate recovery is lower than established control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QABB2 **Lab ID:** E105301-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 12/20/10 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.020	U	ug/Blank	0.020	3/02/11 13:11	3/08/11 16:44	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.010	U	ug/Blank	0.010	3/02/11 13:11	3/08/11 16:44	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.020	U	ug/Blank	0.020	3/02/11 13:11	3/08/11 16:44	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.020	U	ug/Blank	0.020	3/02/11 12:51	3/25/11 12:56	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 12:56	EPA 8081
309-00-2	Aldrin	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
319-84-6	alpha-BHC	0.0050	U	ug/Blank	0.0050	3/02/11 12:51	3/25/11 12:56	EPA 8081
5103-71-9	alpha-Chlordane	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
319-85-7	beta-BHC	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
57-74-9	Chlordane	0.062	U	ug/Blank	0.062	3/02/11 13:10	3/14/11 20:03	EPA 8081
319-86-8	delta-BHC	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
60-57-1	Dieldrin	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
959-98-8	Endosulfan I (alpha)	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
33213-65-9	Endosulfan II (beta)	0.020	U	ug/Blank	0.020	3/02/11 12:51	3/25/11 12:56	EPA 8081
1031-07-8	Endosulfan Sulfate	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 12:56	EPA 8081
72-20-8	Endrin	0.020	U	ug/Blank	0.020	3/02/11 12:51	3/25/11 12:56	EPA 8081
7421-93-4	Endrin aldehyde	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 12:56	EPA 8081
53494-70-5	Endrin ketone	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 12:56	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.0050	U	ug/Blank	0.0050	3/02/11 12:51	3/25/11 12:56	EPA 8081
5566-34-7	gamma-Chlordane	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
76-44-8	Heptachlor	0.0075	U	ug/Blank	0.0075	3/02/11 12:51	3/25/11 12:56	EPA 8081
1024-57-3	Heptachlor epoxide	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 12:56	EPA 8081
72-43-5	Methoxychlor	0.050	U	ug/Blank	0.050	3/02/11 12:51	3/25/11 12:56	EPA 8081
8001-35-2	Toxaphene	1.0	U	ug/Blank	1.0	3/02/11 13:08	3/03/11 21:12	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QABB2 **Lab ID:** E105301-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 12/20/10 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.25	U	ug/Blank	0.25	3/02/11 12:52	3/10/11 19:53	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 19:53	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QADIB
Lab ID: E105301-02
Station ID:
Matrix: Dry Ice Blank

Date Collected: 12/20/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.020	U	ug/Blank	0.020	3/02/11 13:11	3/08/11 17:17	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.010	U	ug/Blank	0.010	3/02/11 13:11	3/08/11 17:17	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.020	U	ug/Blank	0.020	3/02/11 13:11	3/08/11 17:17	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.020	U	ug/Blank	0.020	3/02/11 12:51	3/25/11 13:13	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 13:13	EPA 8081
309-00-2	Aldrin	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
319-84-6	alpha-BHC	0.0050	U	ug/Blank	0.0050	3/02/11 12:51	3/25/11 13:13	EPA 8081
5103-71-9	alpha-Chlordane	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
319-85-7	beta-BHC	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
57-74-9	Chlordane	0.062	U	ug/Blank	0.062	3/02/11 13:10	3/14/11 20:19	EPA 8081
319-86-8	delta-BHC	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
60-57-1	Dieldrin	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
959-98-8	Endosulfan I (alpha)	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
33213-65-9	Endosulfan II (beta)	0.020	U	ug/Blank	0.020	3/02/11 12:51	3/25/11 13:13	EPA 8081
1031-07-8	Endosulfan Sulfate	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 13:13	EPA 8081
72-20-8	Endrin	0.020	U	ug/Blank	0.020	3/02/11 12:51	3/25/11 13:13	EPA 8081
7421-93-4	Endrin aldehyde	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 13:13	EPA 8081
53494-70-5	Endrin ketone	0.025	U	ug/Blank	0.025	3/02/11 12:51	3/25/11 13:13	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.0050	U	ug/Blank	0.0050	3/02/11 12:51	3/25/11 13:13	EPA 8081
5566-34-7	gamma-Chlordane	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
76-44-8	Heptachlor	0.0075	U	ug/Blank	0.0075	3/02/11 12:51	3/25/11 13:13	EPA 8081
1024-57-3	Heptachlor epoxide	0.010	U	ug/Blank	0.010	3/02/11 12:51	3/25/11 13:13	EPA 8081
72-43-5	Methoxychlor	0.050	U	ug/Blank	0.050	3/02/11 12:51	3/25/11 13:13	EPA 8081
8001-35-2	Toxaphene	1.0	U	ug/Blank	1.0	3/02/11 13:08	3/03/11 21:28	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QADIB
Lab ID: E105301-02
Station ID:
Matrix: Dry Ice Blank

Date Collected: 12/20/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.25	U	ug/Blank	0.25	3/02/11 12:52	3/10/11 20:10	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.12	U	ug/Blank	0.12	3/02/11 12:52	3/10/11 20:10	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QAMQB **Lab ID:** E105301-03

Station ID: **Matrix:** Organic Free Water Blank

Date Collected: 12/28/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.038	U	ug/L	0.038	1/04/11 8:42	1/25/11 19:58	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 19:58	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.038	U	ug/L	0.038	1/04/11 8:42	1/25/11 19:58	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.038	U	ug/L	0.038	1/04/11 8:42	1/25/11 1:53	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.048	U	ug/L	0.048	1/04/11 8:42	1/25/11 1:53	EPA 8081
309-00-2	Aldrin	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
319-84-6	alpha-BHC	0.0096	U	ug/L	0.0096	1/04/11 8:42	1/25/11 1:53	EPA 8081
5103-71-9	alpha-Chlordane	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
319-85-7	beta-BHC	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
319-86-8	delta-BHC	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
60-57-1	Dieldrin	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
959-98-8	Endosulfan I (alpha)	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
33213-65-9	Endosulfan II (beta)	0.038	U	ug/L	0.038	1/04/11 8:42	1/25/11 1:53	EPA 8081
1031-07-8	Endosulfan Sulfate	0.048	U	ug/L	0.048	1/04/11 8:42	1/25/11 1:53	EPA 8081
72-20-8	Endrin	0.038	U	ug/L	0.038	1/04/11 8:42	1/25/11 1:53	EPA 8081
7421-93-4	Endrin aldehyde	0.048	U	ug/L	0.048	1/04/11 8:42	1/25/11 1:53	EPA 8081
53494-70-5	Endrin ketone	0.048	U	ug/L	0.048	1/04/11 8:42	1/25/11 1:53	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.0096	U	ug/L	0.0096	1/04/11 8:42	1/25/11 1:53	EPA 8081
5566-34-7	gamma-Chlordane	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
76-44-8	Heptachlor	0.014	U	ug/L	0.014	1/04/11 8:42	1/25/11 1:53	EPA 8081
1024-57-3	Heptachlor epoxide	0.019	U	ug/L	0.019	1/04/11 8:42	1/25/11 1:53	EPA 8081
72-43-5	Methoxychlor	0.096	U	ug/L	0.096	1/04/11 8:42	1/25/11 1:53	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QAMQB **Lab ID:** E105301-03

Station ID: **Matrix:** Organic Free Water Blank

Date Collected: 12/28/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.48	U	ug/L	0.48	1/04/11 8:43	1/19/11 21:31	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.24	U	ug/L	0.24	1/04/11 8:43	1/19/11 21:31	EPA 8082

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB1 **Lab ID:** E105301-04
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0020	U, J, H-8, QS-3	mg/kg	0.0020	2/08/11 11:19	3/22/11 14:06	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0057	J, QS-3, H-8	mg/kg	0.00099	2/08/11 11:19	3/22/11 14:06	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0024	J, H-8, Q-4, QS-3	mg/kg	0.0020	2/08/11 11:19	3/22/11 14:06	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U, J, QS-3	mg/kg	0.0020	2/08/11 21:49	3/17/11 7:56	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0065	J, QS-3	mg/kg	0.0049	2/08/11 21:49	3/17/11 2:15	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U, J, QS-3	mg/kg	0.0025	2/08/11 21:49	3/17/11 7:56	EPA 8081
309-00-2	Aldrin	0.00099	U, J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
319-84-6	alpha-BHC	0.00049	U, J, QS-3	mg/kg	0.00049	2/08/11 21:49	3/17/11 7:56	EPA 8081
5103-71-9	alpha-Chlordane	0.010	J, Q-4, QS-3	mg/kg	0.0049	2/08/11 21:49	3/17/11 2:15	EPA 8081
319-85-7	beta-BHC	0.00099	U, J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
57-74-9	Chlordane	0.078	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 18:40	EPA 8081
319-86-8	delta-BHC	0.00099	U, J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
60-57-1	Dieldrin	0.0068	J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
959-98-8	Endosulfan I (alpha)	0.00099	U, J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U, J, QS-3	mg/kg	0.0020	2/08/11 21:49	3/17/11 7:56	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U, J, QS-3	mg/kg	0.0025	2/08/11 21:49	3/17/11 7:56	EPA 8081
72-20-8	Endrin	0.0020	U, J, QS-3	mg/kg	0.0020	2/08/11 21:49	3/17/11 7:56	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U, J, QS-3	mg/kg	0.0025	2/08/11 21:49	3/17/11 7:56	EPA 8081
53494-70-5	Endrin ketone	0.0025	U, J, QS-3	mg/kg	0.0025	2/08/11 21:49	3/17/11 7:56	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00049	U, J, QS-3	mg/kg	0.00049	2/08/11 21:49	3/17/11 7:56	EPA 8081
5566-34-7	gamma-Chlordane	0.0030	J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
76-44-8	Heptachlor	0.00074	U, J, QS-3	mg/kg	0.00074	2/08/11 21:49	3/17/11 7:56	EPA 8081
1024-57-3	Heptachlor epoxide	0.0027	J, QS-3	mg/kg	0.00099	2/08/11 21:49	3/17/11 7:56	EPA 8081
72-43-5	Methoxychlor	0.0049	U, J, QS-3	mg/kg	0.0049	2/08/11 21:49	3/17/11 7:56	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 12:53	EPA 8081

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB1 **Lab ID:** E105301-04
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 16:43	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 16:43	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 16:43	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 16:43	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 16:43	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.11	U	mg/kg	0.11	2/08/11 21:52	2/24/11 16:43	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.10		mg/kg	0.062	2/08/11 21:52	2/24/11 16:43	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.11	U	mg/kg	0.11	2/08/11 21:52	2/24/11 16:43	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.11	U	mg/kg	0.11	2/08/11 21:52	2/24/11 16:43	EPA 8082

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Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB2 **Lab ID:** E105301-05
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0048	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 14:38	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0039	J, H-8	mg/kg	0.0010	2/08/11 11:19	3/22/11 14:38	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0021	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 14:38	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 8:29	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0030		mg/kg	0.0010	2/08/11 21:49	3/17/11 8:29	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 8:29	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 8:29	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 8:29	EPA 8081
5103-71-9	alpha-Chlordane	0.013		mg/kg	0.0050	2/08/11 21:49	3/17/11 2:32	EPA 8081
319-85-7	beta-BHC	0.0035	U, D-4	mg/kg	0.0035	2/08/11 21:49	3/17/11 8:29	EPA 8081
57-74-9	Chlordane	0.031	J, CRa	mg/kg	0.0062	2/17/11 16:02	3/22/11 16:03	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 8:29	EPA 8081
60-57-1	Dieldrin	0.0067		mg/kg	0.0050	2/08/11 21:49	3/17/11 2:32	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 8:29	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 8:29	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 8:29	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 8:29	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 8:29	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 8:29	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.0025	U, D-4	mg/kg	0.0025	2/08/11 21:49	3/17/11 2:32	EPA 8081
5566-34-7	gamma-Chlordane	0.0028		mg/kg	0.0010	2/08/11 21:49	3/17/11 8:29	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 8:29	EPA 8081
1024-57-3	Heptachlor epoxide	0.0021		mg/kg	0.0010	2/08/11 21:49	3/17/11 8:29	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 8:29	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 13:40	EPA 8081

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB2 **Lab ID:** E105301-05
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 17:00	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 17:00	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 17:00	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 17:00	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 17:00	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.053	U	mg/kg	0.053	2/08/11 21:52	2/17/11 12:14	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.052		mg/kg	0.013	2/08/11 21:52	2/17/11 12:14	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.053	U	mg/kg	0.053	2/08/11 21:52	2/17/11 12:14	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.053	U	mg/kg	0.053	2/08/11 21:52	2/17/11 12:14	EPA 8082

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB3 **Lab ID:** E105301-06
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0064	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 15:11	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0044	J, H-8	mg/kg	0.0010	2/08/11 11:19	3/22/11 15:11	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 15:11	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 9:02	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0027	J, QM-1	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:02	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 9:02	EPA 8081
5103-71-9	alpha-Chlordane	0.020	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 2:48	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
57-74-9	Chlordane	0.026	J, CRa	mg/kg	0.0063	2/17/11 16:02	3/22/11 16:18	EPA 8081
319-86-8	delta-BHC	0.0010	U, J, QM-1	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
60-57-1	Dieldrin	0.0079		mg/kg	0.0050	2/08/11 21:49	3/17/11 2:48	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 9:02	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:02	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 9:02	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:02	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:02	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 9:02	EPA 8081
5566-34-7	gamma-Chlordane	0.0034		mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 9:02	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:02	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 9:02	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 13:56	EPA 8081

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB3 **Lab ID:** E105301-06
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:17	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 17:17	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:17	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:17	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:17	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.057	U	mg/kg	0.057	2/08/11 21:52	2/17/11 12:48	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.056		mg/kg	0.012	2/08/11 21:52	2/17/11 12:48	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.057	U	mg/kg	0.057	2/08/11 21:52	2/17/11 12:48	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.057	U	mg/kg	0.057	2/08/11 21:52	2/17/11 12:48	EPA 8082

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB4 **Lab ID:** E105301-07
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0062	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 15:43	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0043	J, H-8	mg/kg	0.0010	2/08/11 11:19	3/22/11 15:43	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 15:43	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 9:34	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0023	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:34	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 9:34	EPA 8081
5103-71-9	alpha-Chlordane	0.014		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:04	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
57-74-9	Chlordane	0.035	J, CRa	mg/kg	0.0063	2/17/11 16:02	3/22/11 16:34	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
60-57-1	Dieldrin	0.0074		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:04	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 9:34	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:34	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 9:34	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:34	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 9:34	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 9:34	EPA 8081
5566-34-7	gamma-Chlordane	0.0022	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 9:34	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 9:34	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 9:34	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 14:11	EPA 8081

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB4 **Lab ID:** E105301-07
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:33	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 17:33	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:33	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:33	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:33	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.051	U	mg/kg	0.051	2/08/11 21:52	2/17/11 13:22	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.050		mg/kg	0.012	2/08/11 21:52	2/17/11 13:22	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.051	U	mg/kg	0.051	2/08/11 21:52	2/17/11 13:22	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.051	U	mg/kg	0.051	2/08/11 21:52	2/17/11 13:22	EPA 8082

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Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB5 **Lab ID:** E105301-08
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0026	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 16:15	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0040	J, H-8	mg/kg	0.0010	2/08/11 11:19	3/22/11 16:15	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0023	J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 16:15	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 10:07	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0029	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:07	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 10:07	EPA 8081
5103-71-9	alpha-Chlordane	0.0049	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
57-74-9	Chlordane	0.031	J, CRa	mg/kg	0.0063	2/17/11 16:02	3/22/11 16:49	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
60-57-1	Dieldrin	0.0083		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:20	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 10:07	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:07	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 10:07	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:07	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:07	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 10:07	EPA 8081
5566-34-7	gamma-Chlordane	0.0019		mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 10:07	EPA 8081
1024-57-3	Heptachlor epoxide	0.0022		mg/kg	0.0010	2/08/11 21:49	3/17/11 10:07	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 10:07	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 14:27	EPA 8081

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB5 **Lab ID:** E105301-08
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:50	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 17:50	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:50	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:50	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 17:50	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.086	U	mg/kg	0.086	2/08/11 21:52	2/24/11 17:50	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.085		mg/kg	0.062	2/08/11 21:52	2/24/11 17:50	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.086	U	mg/kg	0.086	2/08/11 21:52	2/24/11 17:50	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.086	U	mg/kg	0.086	2/08/11 21:52	2/24/11 17:50	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL1 **Lab ID:** E105301-09
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.011	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 16:48	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0076	J, H-8, Q-4	mg/kg	0.00099	2/08/11 11:19	3/22/11 16:48	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.025	J, H-8, Q-4	mg/kg	0.020	2/08/11 11:19	2/22/11 21:15	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 10:40	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0073		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:36	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:40	EPA 8081
309-00-2	Aldrin	0.00099	U	mg/kg	0.00099	2/08/11 21:49	3/17/11 10:40	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 10:40	EPA 8081
5103-71-9	alpha-Chlordane	0.015		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:36	EPA 8081
319-85-7	beta-BHC	0.013	U, D-4	mg/kg	0.013	2/08/11 21:49	3/17/11 10:40	EPA 8081
57-74-9	Chlordane	0.099	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 18:56	EPA 8081
319-86-8	delta-BHC	0.0065	U, D-4	mg/kg	0.0065	2/08/11 21:49	3/17/11 10:40	EPA 8081
60-57-1	Dieldrin	0.017		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:36	EPA 8081
959-98-8	Endosulfan I (alpha)	0.00099	U	mg/kg	0.00099	2/08/11 21:49	3/17/11 10:40	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 10:40	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:40	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 10:40	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:40	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 10:40	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 10:40	EPA 8081
5566-34-7	gamma-Chlordane	0.010	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 3:36	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 10:40	EPA 8081
1024-57-3	Heptachlor epoxide	0.0045		mg/kg	0.00099	2/08/11 21:49	3/17/11 10:40	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 10:40	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 14:43	EPA 8081

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL1 **Lab ID:** E105301-09
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:07	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 18:07	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:07	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:07	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:07	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.15	U	mg/kg	0.15	2/08/11 21:52	2/24/11 18:07	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.14		mg/kg	0.062	2/08/11 21:52	2/24/11 18:07	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.15	U	mg/kg	0.15	2/08/11 21:52	2/24/11 18:07	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.15	U	mg/kg	0.15	2/08/11 21:52	2/24/11 18:07	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL2 **Lab ID:** E105301-10
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0073	J, Q-4, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 17:20	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0050	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 17:20	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.026	J, H-8, Q-4	mg/kg	0.020	2/08/11 11:19	2/22/11 21:31	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 11:12	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0079		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:53	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:12	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 11:12	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 11:12	EPA 8081
5103-71-9	alpha-Chlordane	0.014	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 3:53	EPA 8081
319-85-7	beta-BHC	0.0087	U, D-4	mg/kg	0.0087	2/08/11 21:49	3/17/11 11:12	EPA 8081
57-74-9	Chlordane	0.087	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 19:12	EPA 8081
319-86-8	delta-BHC	0.0056	U, D-4	mg/kg	0.0056	2/08/11 21:49	3/17/11 11:12	EPA 8081
60-57-1	Dieldrin	0.014		mg/kg	0.0050	2/08/11 21:49	3/17/11 3:53	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 11:12	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 11:12	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:12	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 11:12	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:12	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:12	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 11:12	EPA 8081
5566-34-7	gamma-Chlordane	0.0094	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 3:53	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 11:12	EPA 8081
1024-57-3	Heptachlor epoxide	0.0035		mg/kg	0.0010	2/08/11 21:49	3/17/11 11:12	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 11:12	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 15:45	EPA 8081

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL2 **Lab ID:** E105301-10
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:24	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 18:24	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:24	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:24	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:24	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.14	U	mg/kg	0.14	2/08/11 21:52	2/24/11 18:24	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.13		mg/kg	0.062	2/08/11 21:52	2/24/11 18:24	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.14	U	mg/kg	0.14	2/08/11 21:52	2/24/11 18:24	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.14	U	mg/kg	0.14	2/08/11 21:52	2/24/11 18:24	EPA 8082

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL3 **Lab ID:** E105301-11
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0099	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 17:53	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0087	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 17:53	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.024	J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 17:53	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 11:45	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.012	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 4:09	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:45	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 11:45	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 11:45	EPA 8081
5103-71-9	alpha-Chlordane	0.022	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 4:09	EPA 8081
319-85-7	beta-BHC	0.015	U, D-4	mg/kg	0.015	2/08/11 21:49	3/17/11 11:45	EPA 8081
57-74-9	Chlordane	0.14	J, CRa	mg/kg	0.032	2/17/11 16:02	3/28/11 19:27	EPA 8081
319-86-8	delta-BHC	0.0088	U, D-4	mg/kg	0.0088	2/08/11 21:49	3/17/11 11:45	EPA 8081
60-57-1	Dieldrin	0.037		mg/kg	0.010	2/08/11 21:49	3/16/11 22:45	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 11:45	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 11:45	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:45	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 11:45	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:45	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 11:45	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 11:45	EPA 8081
5566-34-7	gamma-Chlordane	0.016		mg/kg	0.0050	2/08/11 21:49	3/17/11 4:09	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 11:45	EPA 8081
1024-57-3	Heptachlor epoxide	0.0059		mg/kg	0.0010	2/08/11 21:49	3/17/11 11:45	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 11:45	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 16:00	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL3 **Lab ID:** E105301-11
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:40	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 18:40	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:40	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:40	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:40	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.25	U	mg/kg	0.25	2/08/11 21:52	2/24/11 18:40	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.24		mg/kg	0.062	2/08/11 21:52	2/24/11 18:40	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.25	U	mg/kg	0.25	2/08/11 21:52	2/24/11 18:40	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.25	U	mg/kg	0.25	2/08/11 21:52	2/24/11 18:40	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB1 **Lab ID:** E105301-12
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.011	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 18:58	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0050	J, H-8	mg/kg	0.0010	2/08/11 11:19	3/22/11 18:58	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 18:58	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 13:06	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0047		mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:06	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 13:06	EPA 8081
5103-71-9	alpha-Chlordane	0.026		mg/kg	0.0050	2/08/11 21:49	3/17/11 4:25	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
57-74-9	Chlordane	0.069	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 19:43	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
60-57-1	Dieldrin	0.023		mg/kg	0.0050	2/08/11 21:49	3/17/11 4:25	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 13:06	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:06	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 13:06	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:06	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:06	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 13:06	EPA 8081
5566-34-7	gamma-Chlordane	0.0029	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 13:06	EPA 8081
1024-57-3	Heptachlor epoxide	0.0038		mg/kg	0.0010	2/08/11 21:49	3/17/11 13:06	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 13:06	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 16:16	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB1 **Lab ID:** E105301-12
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:57	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 18:57	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:57	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:57	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 18:57	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.030	U	mg/kg	0.030	2/08/11 21:52	2/17/11 16:10	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.029		mg/kg	0.012	2/08/11 21:52	2/17/11 16:10	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.030	U	mg/kg	0.030	2/08/11 21:52	2/17/11 16:10	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.030	U	mg/kg	0.030	2/08/11 21:52	2/17/11 16:10	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB2 **Lab ID:** E105301-13
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.011	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 19:30	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0040	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 19:30	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 19:30	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 13:39	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0039		mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:39	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 13:39	EPA 8081
5103-71-9	alpha-Chlordane	0.022		mg/kg	0.0050	2/08/11 21:49	3/17/11 4:41	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
57-74-9	Chlordane	0.070	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 19:58	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
60-57-1	Dieldrin	0.019		mg/kg	0.0050	2/08/11 21:49	3/17/11 4:41	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 13:39	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:39	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 13:39	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:39	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 13:39	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 13:39	EPA 8081
5566-34-7	gamma-Chlordane	0.0026	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 13:39	EPA 8081
1024-57-3	Heptachlor epoxide	0.0035		mg/kg	0.0010	2/08/11 21:49	3/17/11 13:39	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 13:39	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 16:32	EPA 8081

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Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB2 **Lab ID:** E105301-13
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:14	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 19:14	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:14	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:14	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:14	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.025	U	mg/kg	0.025	2/08/11 21:52	2/17/11 17:17	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.024		mg/kg	0.012	2/08/11 21:52	2/17/11 17:17	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.025	U	mg/kg	0.025	2/08/11 21:52	2/17/11 17:17	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.025	U	mg/kg	0.025	2/08/11 21:52	2/17/11 17:17	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB3 **Lab ID:** E105301-14
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0052	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 20:03	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0063	J, H-8	mg/kg	0.0010	2/08/11 11:19	3/22/11 20:03	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 20:03	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 14:11	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0048	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:11	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 14:11	EPA 8081
5103-71-9	alpha-Chlordane	0.014	J, Q-4	mg/kg	0.0050	2/08/11 21:49	3/17/11 4:58	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
57-74-9	Chlordane	0.084	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 20:14	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
60-57-1	Dieldrin	0.035		mg/kg	0.010	2/08/11 21:49	3/16/11 23:33	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 14:11	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:11	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 14:11	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:11	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:11	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.0025	U, D-4	mg/kg	0.0025	2/08/11 21:49	3/17/11 4:58	EPA 8081
5566-34-7	gamma-Chlordane	0.0035		mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 14:11	EPA 8081
1024-57-3	Heptachlor epoxide	0.0051		mg/kg	0.0010	2/08/11 21:49	3/17/11 14:11	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 14:11	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 16:47	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB3 **Lab ID:** E105301-14
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:31	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 19:31	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:31	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:31	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 19:31	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.027	U	mg/kg	0.027	2/08/11 21:52	2/17/11 17:50	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.026		mg/kg	0.012	2/08/11 21:52	2/17/11 17:50	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.027	U	mg/kg	0.027	2/08/11 21:52	2/17/11 17:50	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.027	U	mg/kg	0.027	2/08/11 21:52	2/17/11 17:50	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB4 **Lab ID:** E105301-15
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0071	J, H-8, Q-4	mg/kg	0.0020	2/08/11 11:19	3/22/11 20:35	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.010	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 20:35	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 20:35	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 14:44	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0050		mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:44	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 14:44	EPA 8081
5103-71-9	alpha-Chlordane	0.023		mg/kg	0.0050	2/08/11 21:49	3/17/11 5:14	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
57-74-9	Chlordane	0.15	J, CRa	mg/kg	0.031	2/17/11 16:02	3/28/11 20:30	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
60-57-1	Dieldrin	0.062		mg/kg	0.010	2/08/11 21:49	3/16/11 23:49	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 14:44	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:44	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 14:44	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:44	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 14:44	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 14:44	EPA 8081
5566-34-7	gamma-Chlordane	0.0049		mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 14:44	EPA 8081
1024-57-3	Heptachlor epoxide	0.0079		mg/kg	0.0010	2/08/11 21:49	3/17/11 14:44	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 14:44	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 17:03	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB4 **Lab ID:** E105301-15
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 19:47	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 19:47	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 19:47	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 19:47	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.063	U, D-4	mg/kg	0.063	2/08/11 21:52	2/24/11 19:47	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.024	U	mg/kg	0.024	2/08/11 21:52	2/17/11 18:24	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.023		mg/kg	0.013	2/08/11 21:52	2/17/11 18:24	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.024	U	mg/kg	0.024	2/08/11 21:52	2/17/11 18:24	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.024	U	mg/kg	0.024	2/08/11 21:52	2/17/11 18:24	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA1 **Lab ID:** E105301-16
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 21:08	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0033	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 21:08	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 21:08	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 15:17	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0024		mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:17	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
319-84-6	alpha-BHC	0.0011	U, D-4	mg/kg	0.0011	2/08/11 21:49	3/17/11 15:17	EPA 8081
5103-71-9	alpha-Chlordane	0.0051	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
57-74-9	Chlordane	0.041	J, CRa	mg/kg	0.0063	2/17/11 16:02	3/22/11 19:25	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
60-57-1	Dieldrin	0.018		mg/kg	0.0050	2/08/11 21:49	3/17/11 5:30	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 15:17	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:17	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 15:17	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:17	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:17	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 15:17	EPA 8081
5566-34-7	gamma-Chlordane	0.0019	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 15:17	EPA 8081
1024-57-3	Heptachlor epoxide	0.0032		mg/kg	0.0010	2/08/11 21:49	3/17/11 15:17	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 15:17	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 17:18	EPA 8081

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Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA1 **Lab ID:** E105301-16
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:04	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 20:04	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:04	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:04	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:04	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.012	U	mg/kg	0.012	2/08/11 21:52	2/17/11 18:58	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.012	U	mg/kg	0.012	2/08/11 21:52	2/17/11 18:58	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.012	U	mg/kg	0.012	2/08/11 21:52	2/17/11 18:58	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.012	U	mg/kg	0.012	2/08/11 21:52	2/17/11 18:58	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA2 **Lab ID:** E105301-17
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 21:40	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0045	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 21:40	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 21:40	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 15:49	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0035		mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:49	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
319-84-6	alpha-BHC	0.0012	U	mg/kg	0.0012	2/08/11 21:49	3/17/11 15:49	EPA 8081
5103-71-9	alpha-Chlordane	0.0062	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
57-74-9	Chlordane	0.058	J, CRa	mg/kg	0.0062	2/17/11 16:02	3/22/11 19:41	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
60-57-1	Dieldrin	0.025		mg/kg	0.0050	2/08/11 21:49	3/17/11 5:46	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 15:49	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:49	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 15:49	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:49	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 15:49	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 15:49	EPA 8081
5566-34-7	gamma-Chlordane	0.0021		mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 15:49	EPA 8081
1024-57-3	Heptachlor epoxide	0.0039		mg/kg	0.0010	2/08/11 21:49	3/17/11 15:49	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 15:49	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 17:34	EPA 8081

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Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA2 **Lab ID:** E105301-17
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:21	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 20:21	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:21	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:21	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:21	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.018	U	mg/kg	0.018	2/08/11 21:52	2/17/11 19:31	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.017		mg/kg	0.012	2/08/11 21:52	2/17/11 19:31	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.018	U	mg/kg	0.018	2/08/11 21:52	2/17/11 19:31	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.018	U	mg/kg	0.018	2/08/11 21:52	2/17/11 19:31	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA3 **Lab ID:** E105301-18
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 22:13	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0039	J, Q-4, H-8	mg/kg	0.00099	2/08/11 11:19	3/22/11 22:13	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 22:13	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 16:22	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0029		mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:22	EPA 8081
309-00-2	Aldrin	0.00099	U	mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 16:22	EPA 8081
5103-71-9	alpha-Chlordane	0.0048	J, Q-4	mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
319-85-7	beta-BHC	0.00099	U	mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
57-74-9	Chlordane	0.053	J, CRa	mg/kg	0.0063	2/17/11 16:02	3/22/11 19:57	EPA 8081
319-86-8	delta-BHC	0.00099	U	mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
60-57-1	Dieldrin	0.018		mg/kg	0.0050	2/08/11 21:49	3/17/11 6:03	EPA 8081
959-98-8	Endosulfan I (alpha)	0.00099	U	mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 16:22	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:22	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 16:22	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:22	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:22	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 16:22	EPA 8081
5566-34-7	gamma-Chlordane	0.0019	J, Q-4	mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
76-44-8	Heptachlor	0.00074	U	mg/kg	0.00074	2/08/11 21:49	3/17/11 16:22	EPA 8081
1024-57-3	Heptachlor epoxide	0.0032		mg/kg	0.00099	2/08/11 21:49	3/17/11 16:22	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 16:22	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 17:50	EPA 8081

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA3 **Lab ID:** E105301-18
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:37	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 20:37	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:37	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:37	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:37	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.015	U	mg/kg	0.015	2/08/11 21:52	2/17/11 20:05	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.014		mg/kg	0.012	2/08/11 21:52	2/17/11 20:05	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.015	U	mg/kg	0.015	2/08/11 21:52	2/17/11 20:05	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.015	U	mg/kg	0.015	2/08/11 21:52	2/17/11 20:05	EPA 8082

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA4 **Lab ID:** E105301-19
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
53-19-0	2,4'-DDD (o,p'-DDD)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 22:45	EPA 8081
3424-82-6	2,4'-DDE (o,p'-DDE)	0.0038	J, H-8, Q-4	mg/kg	0.0010	2/08/11 11:19	3/22/11 22:45	EPA 8081
789-02-6	2,4'-DDT (o,p'-DDT)	0.0020	U, J, H-8	mg/kg	0.0020	2/08/11 11:19	3/22/11 22:45	EPA 8081
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 16:55	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0027	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:55	EPA 8081
309-00-2	Aldrin	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 16:55	EPA 8081
5103-71-9	alpha-Chlordane	0.0049	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
57-74-9	Chlordane	0.051	J, CRa	mg/kg	0.0063	2/17/11 16:02	3/22/11 20:12	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
60-57-1	Dieldrin	0.019		mg/kg	0.0050	2/08/11 21:49	3/17/11 6:19	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 16:55	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:55	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	2/08/11 21:49	3/17/11 16:55	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:55	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	2/08/11 21:49	3/17/11 16:55	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	2/08/11 21:49	3/17/11 16:55	EPA 8081
5566-34-7	gamma-Chlordane	0.0019	J, Q-4	mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	2/08/11 21:49	3/17/11 16:55	EPA 8081
1024-57-3	Heptachlor epoxide	0.0032		mg/kg	0.0010	2/08/11 21:49	3/17/11 16:55	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	2/08/11 21:49	3/17/11 16:55	EPA 8081
8001-35-2	Toxaphene	0.10	U	mg/kg	0.10	2/17/11 15:43	3/03/11 18:05	EPA 8081

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PCB Aroclors

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA4 **Lab ID:** E105301-19
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:54	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	0.12	U, D-4	mg/kg	0.12	2/08/11 21:52	2/24/11 20:54	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:54	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:54	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	0.062	U, D-4	mg/kg	0.062	2/08/11 21:52	2/24/11 20:54	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	0.016	U	mg/kg	0.016	2/08/11 21:52	2/17/11 20:39	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	0.015		mg/kg	0.012	2/08/11 21:52	2/17/11 20:39	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	0.016	U	mg/kg	0.016	2/08/11 21:52	2/17/11 20:39	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	0.016	U	mg/kg	0.016	2/08/11 21:52	2/17/11 20:39	EPA 8082

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September 23, 2011

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0109, Environmental Justice Jacksonville
Surface Water Protection

FROM: Janet Muse
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: Jerry Ackerman

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Physical Properties (PHYSP)	
Physical Properties	ASB E100
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	EPA 8270 SIM

Report Narrative for Work Order E105301, Project: 11-0109

9/23/11 jm Semivolatiles: Upon semivolatile analysis of the fish samples from Long Branch, the identification of indeno(1,2,3-cd)pyrene in the Hogan Creek samples was reviewed. Further analysis by full scan showed that this compound was misidentified due to matrix interferences in the fish tissue. The data is being rereported with indeno(1,2,3-cd)pyrene as a non-detect at the method reporting limit. All other results are unchanged.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

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SAMPLES INCLUDED IN THIS REPORT

Project: 11-0109, Environmental Justice Jacksonville

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
QABB2	E105301-01	Equipment Rinse Blank	12/20/10 14:35	12/28/10 9:40
QADIB	E105301-02	Dry Ice Blank	12/20/10 14:30	12/28/10 9:40
QAMQB	E105301-03	Organic Free Water Blank	12/28/10 09:05	12/28/10 9:40
H-LMB1	E105301-04	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB2	E105301-05	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB3	E105301-06	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB4	E105301-07	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB5	E105301-08	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL1	E105301-09	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL2	E105301-10	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL3	E105301-11	Tissue	12/14/10 10:00	12/28/10 9:40
L-LMB1	E105301-12	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB2	E105301-13	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA1	E105301-16	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA2	E105301-17	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA3	E105301-18	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA4	E105301-19	Tissue	12/15/10 10:00	12/28/10 9:40

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QL-1	Laboratory Control Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QABB2 **Lab ID:** E105301-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 12/20/10 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
83-32-9	Acenaphthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
208-96-8	Acenaphthylene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
120-12-7	Anthracene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
218-01-9	Chrysene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
206-44-0	Fluoranthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
86-73-7	Fluorene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
91-20-3	Naphthalene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
85-01-8	Phenanthrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM
129-00-0	Pyrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 22:42	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QADIB
Lab ID: E105301-02
Station ID:
Matrix: Dry Ice Blank

Date Collected: 12/20/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
83-32-9	Acenaphthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
208-96-8	Acenaphthylene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
120-12-7	Anthracene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
218-01-9	Chrysene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
206-44-0	Fluoranthene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
86-73-7	Fluorene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
91-20-3	Naphthalene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
85-01-8	Phenanthrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM
129-00-0	Pyrene	0.10	U	ug/Blank	0.10	2/28/11 12:46	3/17/11 23:07	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QAMQB **Lab ID:** E105301-03

Station ID: **Matrix:** Organic Free Water Blank

Date Collected: 12/28/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
83-32-9	Acenaphthene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
208-96-8	Acenaphthylene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
120-12-7	Anthracene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
86-74-8	Carbazole	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
218-01-9	Chrysene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
206-44-0	Fluoranthene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
86-73-7	Fluorene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
91-20-3	Naphthalene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
85-01-8	Phenanthrene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM
129-00-0	Pyrene	0.098	U	ug/L	0.098	1/04/11 8:41	1/25/11 20:58	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB1 **Lab ID:** E105301-04
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0078		mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
83-32-9	Acenaphthene	0.38		mg/kg	0.033	2/22/11 8:52	3/29/11 16:29	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
120-12-7	Anthracene	0.0037	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
86-73-7	Fluorene	0.015		mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
91-20-3	Naphthalene	0.0068		mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
85-01-8	Phenanthrene	0.0058		mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM
129-00-0	Pyrene	0.0081		mg/kg	0.0033	2/22/11 8:52	3/18/11 11:40	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB1** **Lab ID:** **E105301-04**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.1		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB2 **Lab ID:** E105301-05
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0094		mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
83-32-9	Acenaphthene	0.28		mg/kg	0.033	2/22/11 8:52	3/29/11 17:25	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
120-12-7	Anthracene	0.0034	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
86-73-7	Fluorene	0.0091		mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
91-20-3	Naphthalene	0.0057		mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
85-01-8	Phenanthrene	0.0054		mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM
129-00-0	Pyrene	0.0061		mg/kg	0.0033	2/22/11 8:52	3/18/11 12:29	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB2** **Lab ID:** **E105301-05**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.40		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB3 **Lab ID:** E105301-06
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0098		mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
83-32-9	Acenaphthene	0.40		mg/kg	0.033	2/22/11 8:52	3/29/11 18:21	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0041		mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
120-12-7	Anthracene	0.0047	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
86-73-7	Fluorene	0.012		mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
91-20-3	Naphthalene	0.0047		mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
85-01-8	Phenanthrene	0.0057		mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM
129-00-0	Pyrene	0.0078		mg/kg	0.0033	2/22/11 8:52	3/18/11 13:17	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB3** **Lab ID:** **E105301-06**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.60		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB4 **Lab ID:** E105301-07
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0081		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
83-32-9	Acenaphthene	0.41		mg/kg	0.033	2/22/11 8:52	3/29/11 19:17	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
120-12-7	Anthracene	0.0047	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
86-73-7	Fluorene	0.010		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
91-20-3	Naphthalene	0.0054		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
85-01-8	Phenanthrene	0.0077		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM
129-00-0	Pyrene	0.0081		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:06	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB4** **Lab ID:** **E105301-07**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.70		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB5 **Lab ID:** E105301-08
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.010		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
83-32-9	Acenaphthene	0.31		mg/kg	0.033	2/22/11 8:52	3/29/11 20:13	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0037		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
120-12-7	Anthracene	0.0034	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
86-73-7	Fluorene	0.010		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
91-20-3	Naphthalene	0.0061		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
85-01-8	Phenanthrene	0.0054		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM
129-00-0	Pyrene	0.0040		mg/kg	0.0033	2/22/11 8:52	3/18/11 14:55	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB5** **Lab ID:** **E105301-08**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.50		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL1 **Lab ID:** E105301-09
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.014		mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0044		mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
83-32-9	Acenaphthene	0.57		mg/kg	0.033	2/22/11 8:52	3/29/11 21:08	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0057		mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
120-12-7	Anthracene	0.0047	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0061	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
86-73-7	Fluorene	0.015		mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
91-20-3	Naphthalene	0.010		mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
85-01-8	Phenanthrene	0.0095		mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 15:43	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-MUL1** **Lab ID:** **E105301-09**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.4		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL2 **Lab ID:** E105301-10
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.012		mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0040		mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
83-32-9	Acenaphthene	0.50		mg/kg	0.033	2/22/11 8:52	3/29/11 22:04	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0040		mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
120-12-7	Anthracene	0.0034	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0057	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
86-73-7	Fluorene	0.012		mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
91-20-3	Naphthalene	0.0094		mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
85-01-8	Phenanthrene	0.0054		mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 16:32	EPA 8270 SIM

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-MUL2** **Lab ID:** **E105301-10**
Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.2		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL3 **Lab ID:** E105301-11
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.027		mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0090		mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
83-32-9	Acenaphthene	0.99		mg/kg	0.066	2/22/11 8:52	3/29/11 23:00	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0064		mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
120-12-7	Anthracene	0.0047	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0037	J, QL-1	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
86-73-7	Fluorene	0.022		mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
91-20-3	Naphthalene	0.022		mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
85-01-8	Phenanthrene	0.0080		mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	2/22/11 8:52	3/18/11 17:21	EPA 8270 SIM

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Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-MUL3** **Lab ID:** **E105301-11**
Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	2.7		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-LMB1** **Lab ID:** **E105301-12**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.40		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-LMB2** **Lab ID:** **E105301-13**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	1.0		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-TIA1** **Lab ID:** **E105301-16**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.70		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-TIA2** **Lab ID:** **E105301-17**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.50		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-TIA3** **Lab ID:** **E105301-18**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.70		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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Physical Properties

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-TIA4** **Lab ID:** **E105301-19**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
66455-18-3	% Lipids	0.70		%		2/10/11 7:58	2/11/11 11:06	ASB E100

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September 23, 2011

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0109, Environmental Justice Jacksonville
Surface Water Protection

FROM: Janet Muse
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: Jerry Ackerman

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	EPA 8270 SIM

Report Narrative for Work Order E105301, Project: 11-0109

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

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SAMPLES INCLUDED IN THIS REPORT

Project: 11-0109, Environmental Justice Jacksonville

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
L-LMB1	E105301-12	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB2	E105301-13	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB3	E105301-14	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB4	E105301-15	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA1	E105301-16	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA2	E105301-17	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA3	E105301-18	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA4	E105301-19	Tissue	12/15/10 10:00	12/28/10 9:40

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QL-1	Laboratory Control Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB1 **Lab ID:** E105301-12
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
83-32-9	Acenaphthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
120-12-7	Anthracene	0.0033	U, J, QL-1	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1, QR-1	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
86-73-7	Fluorene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
91-20-3	Naphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
85-01-8	Phenanthrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/14/11 23:53	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB2 **Lab ID:** E105301-13
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
83-32-9	Acenaphthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
120-12-7	Anthracene	0.0033	U, J, QL-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1, QR-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
86-73-7	Fluorene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
91-20-3	Naphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
85-01-8	Phenanthrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 0:20	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB3 **Lab ID:** E105301-14
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
83-32-9	Acenaphthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
120-12-7	Anthracene	0.0034	U, J, QL-1	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0034	U, J, QR-1, QL-1	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
218-01-9	Chrysene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
206-44-0	Fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
86-73-7	Fluorene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
91-20-3	Naphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
85-01-8	Phenanthrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM
129-00-0	Pyrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 0:48	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB4 **Lab ID:** E105301-15
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
83-32-9	Acenaphthene	0.0038		mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
120-12-7	Anthracene	0.0034	U, J, QL-1	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0034	U, J, QL-1, QR-1	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
218-01-9	Chrysene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
206-44-0	Fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
86-73-7	Fluorene	0.0034		mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
91-20-3	Naphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
85-01-8	Phenanthrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM
129-00-0	Pyrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 1:16	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA1 **Lab ID:** E105301-16
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
83-32-9	Acenaphthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
120-12-7	Anthracene	0.0034	U, J, QL-1	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0034	U, J, QL-1, QR-1	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
218-01-9	Chrysene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
206-44-0	Fluoranthene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
86-73-7	Fluorene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
91-20-3	Naphthalene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
85-01-8	Phenanthrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM
129-00-0	Pyrene	0.0034	U	mg/kg	0.0034	8/05/11 13:00	9/15/11 2:11	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA2 **Lab ID:** E105301-17
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
83-32-9	Acenaphthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
120-12-7	Anthracene	0.0033	U, J, QL-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1, QR-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
86-73-7	Fluorene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
91-20-3	Naphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
85-01-8	Phenanthrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 3:06	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA3 **Lab ID:** E105301-18
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
83-32-9	Acenaphthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
120-12-7	Anthracene	0.0033	U, J, QL-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QR-1, QL-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
86-73-7	Fluorene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
91-20-3	Naphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
85-01-8	Phenanthrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:01	EPA 8270 SIM

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Semi Volatile Organics

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA4 **Lab ID:** E105301-19
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
91-57-6	2-Methylnaphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
83-32-9	Acenaphthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
208-96-8	Acenaphthylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
120-12-7	Anthracene	0.0033	U, J, QL-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
56-55-3	Benzo(a)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
50-32-8	Benzo(a)pyrene	0.0033	U, J, QL-1, QR-1	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
205-99-2	Benzo(b)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
191-24-2	Benzo(g,h,i)perylene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
207-08-9	Benzo(k)fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
218-01-9	Chrysene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
53-70-3	Dibenz(a,h)anthracene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
206-44-0	Fluoranthene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
86-73-7	Fluorene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
118-74-1	Hexachlorobenzene (HCB)	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
193-39-5	Indeno (1,2,3-cd) pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
91-20-3	Naphthalene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
85-01-8	Phenanthrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM
129-00-0	Pyrene	0.0033	U	mg/kg	0.0033	8/05/11 13:00	9/15/11 4:56	EPA 8270 SIM

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1108027 - E 3550 Tissue										
Blank (1108027-BLK1)				Prepared: 08/05/11 Analyzed: 09/14/11						
EPA 8270 SIM										
Surrogate: 2-Methylnaphthalene-d10	*0.0367*		*mg/kg*	*0.033344*		*110*	*50-150*			
Surrogate: Fluoranthene-d10	*0.0390*		*"*	*0.033344*		*117*	*50-150*			
2-Methylnaphthalene	U	0.0033	"							U
1-Methylnaphthalene	U	0.0033	"							U
Naphthalene	U	0.0033	"							U
Acenaphthylene	U	0.0033	"							U
Acenaphthene	U	0.0033	"							U
Fluorene	U	0.0033	"							U
Hexachlorobenzene (HCB)	U	0.0033	"							U
Phenanthrene	U	0.0033	"							U
Anthracene	U	0.0033	"							U
Fluoranthene	U	0.0033	"							U
Pyrene	U	0.0033	"							U
Benzo(a)anthracene	U	0.0033	"							U
Chrysene	U	0.0033	"							U
Benzo(b)fluoranthene	U	0.0033	"							U
Benzo(k)fluoranthene	U	0.0033	"							U
Benzo(a)pyrene	U	0.0033	"							U
Indeno (1,2,3-cd) pyrene	U	0.0033	"							U
Dibenz(a,h)anthracene	U	0.0033	"							U
Benzo(g,h,i)perylene	U	0.0033	"							U
LCS (1108027-BS1)				Prepared: 08/05/11 Analyzed: 09/14/11						
EPA 8270 SIM										
Surrogate: 2-Methylnaphthalene-d10	*0.0360*		*mg/kg*	*0.033344*		*108*	*50-150*			
Surrogate: Fluoranthene-d10	*0.0393*		*"*	*0.033344*		*118*	*50-150*			
2-Methylnaphthalene	0.029843	0.0033	"	0.033344		89.5	50-150			
1-Methylnaphthalene	0.023908	0.0033	"	0.033344		71.7	50-150			
Naphthalene	0.025542	0.0033	"	0.033344		76.6	50-150			
Acenaphthylene	0.026342	0.0033	"	0.033344		79.0	50-150			
Acenaphthene	0.027709	0.0033	"	0.033344		83.1	50-150			
Fluorene	0.034078	0.0033	"	0.033344		102	50-150			
Hexachlorobenzene (HCB)	0.021974	0.0033	"	0.033344		65.9	50-150			
Phenanthrene	0.034578	0.0033	"	0.033344		104	50-150			
Anthracene	0.015338	0.0033	"	0.033344		46.0	50-150			QL-1
Fluoranthene	0.032211	0.0033	"	0.033344		96.6	50-150			
Pyrene	0.026409	0.0033	"	0.033344		79.2	50-150			
Benzo(a)anthracene	0.037813	0.0033	"	0.033344		113	50-150			

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1108027 - E 3550 Tissue										
LCS (1108027-BS1)				Prepared: 08/05/11 Analyzed: 09/14/11						
Chrysene	0.027776	0.0033	mg/kg	0.033344		83.3	50-150			
Benzo(b)fluoranthene	0.037846	0.0033	"	0.033344		114	50-150			
Benzo(k)fluoranthene	0.035312	0.0033	"	0.033344		106	50-150			
Benzo(a)pyrene	0.011470	0.0033	"	0.033344		34.4	50-150			QL-1
Indeno (1,2,3-cd) pyrene	0.035145	0.0033	"	0.033344		105	50-150			
Dibenz(a,h)anthracene	0.037846	0.0033	"	0.033344		114	50-150			
Benzo(g,h,i)perylene	0.029843	0.0033	"	0.033344		89.5	50-150			
LCS Dup (1108027-BSD1)				Prepared: 08/05/11 Analyzed: 09/14/11						
EPA 8270 SIM										
Surrogate: 2-Methylnaphthalene-d10	*0.0323*		*mg/kg*	*0.033344*		*97.0*	*50-150*			
Surrogate: Fluoranthene-d10	*0.0340*		*"*	*0.033344*		*102*	*50-150*			
2-Methylnaphthalene	0.027242	0.0033	"	0.033344		81.7	50-150	9.11	20	
1-Methylnaphthalene	0.022041	0.0033	"	0.033344		66.1	50-150	8.13	20	
Naphthalene	0.023308	0.0033	"	0.033344		69.9	50-150	9.15	20	
Acenaphthylene	0.023675	0.0033	"	0.033344		71.0	50-150	10.7	20	
Acenaphthene	0.024542	0.0033	"	0.033344		73.6	50-150	12.1	20	
Fluorene	0.030744	0.0033	"	0.033344		92.2	50-150	10.3	20	
Hexachlorobenzene (HCB)	0.019740	0.0033	"	0.033344		59.2	50-150	10.7	20	
Phenanthrene	0.030577	0.0033	"	0.033344		91.7	50-150	12.3	20	
Anthracene	0.014238	0.0033	"	0.033344		42.7	50-150	7.44	20	QL-1
Fluoranthene	0.030610	0.0033	"	0.033344		91.8	50-150	5.10	20	
Pyrene	0.023808	0.0033	"	0.033344		71.4	50-150	10.4	20	
Benzo(a)anthracene	0.034045	0.0033	"	0.033344		102	50-150	10.5	20	
Chrysene	0.024375	0.0033	"	0.033344		73.1	50-150	13.0	20	
Benzo(b)fluoranthene	0.035645	0.0033	"	0.033344		107	50-150	5.99	20	
Benzo(k)fluoranthene	0.031477	0.0033	"	0.033344		94.4	50-150	11.5	20	
Benzo(a)pyrene	0.011637	0.0033	"	0.033344		34.9	50-150	1.44	20	QL-1
Indeno (1,2,3-cd) pyrene	0.031244	0.0033	"	0.033344		93.7	50-150	11.8	20	
Dibenz(a,h)anthracene	0.034078	0.0033	"	0.033344		102	50-150	10.5	20	
Benzo(g,h,i)perylene	0.026776	0.0033	"	0.033344		80.3	50-150	10.8	20	

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1108027 - E 3550 Tissue										
Duplicate (1108027-DUP1)		**Source: E105301-15**		Prepared: 08/05/11 Analyzed: 09/15/11						
EPA 8270 SIM										
Surrogate: 2-Methylnaphthalene-d10	*0.0603*		*mg/kg*	*0.033887*		*178*	*50-150*			*QS-5*
Surrogate: Fluoranthene-d10	*0.0352*		*"*	*0.033887*		*104*	*50-150*			
2-Methylnaphthalene	U	0.0034	"		U				200	U
1-Methylnaphthalene	U	0.0034	"		U				200	U
Naphthalene	U	0.0034	"		U				200	U
Acenaphthylene	U	0.0034	"		U				200	U
Acenaphthene	U	0.0034	"		0.0038305				200	U
Fluorene	U	0.0034	"		0.0034237				200	U
Hexachlorobenzene (HCB)	U	0.0034	"		U				200	U
Phenanthrene	U	0.0034	"		U				200	U
Anthracene	U	0.0034	"		U				200	U
Fluoranthene	U	0.0034	"		U				200	U
Pyrene	U	0.0034	"		U				200	U
Benzo(a)anthracene	U	0.0034	"		U				200	U
Chrysene	U	0.0034	"		U				200	U
Benzo(b)fluoranthene	U	0.0034	"		U				200	U
Benzo(k)fluoranthene	U	0.0034	"		U				200	U
Benzo(a)pyrene	U	0.0034	"		U				200	U
Indeno (1,2,3-cd) pyrene	3.3277	0.34	"		U				200	
Dibenz(a,h)anthracene	U	0.0034	"		U				200	U
Benzo(g,h,i)perylene	U	0.0034	"		U				200	U
MRL Verification (1108027-PS1)				Prepared: 08/05/11 Analyzed: 09/14/11						
EPA 8270 SIM										
Surrogate: 2-Methylnaphthalene-d10	*0.0290*		*mg/kg*	*0.033300*		*87.0*	*50-150*			
Surrogate: Fluoranthene-d10	*0.0326*		*"*	*0.033300*		*98.0*	*50-150*			
2-Methylnaphthalene	0.0024642	0.0033	"	0.0033300		74.0	30-170			MRL-4, J
1-Methylnaphthalene	0.0026973	0.0033	"	0.0033300		81.0	30-170			MRL-4, J
Naphthalene	0.0025308	0.0033	"	0.0033300		76.0	30-170			MRL-4, J
Acenaphthylene	0.0020313	0.0033	"	0.0033300		61.0	30-170			MRL-4, J
Acenaphthene	0.0020646	0.0033	"	0.0033300		62.0	30-170			MRL-4, J
Fluorene	0.0026640	0.0033	"	0.0033300		80.0	30-170			MRL-4, J
Hexachlorobenzene (HCB)	0.0024642	0.0033	"	0.0033300		74.0	30-170			MRL-4, J
Phenanthrene	0.0028305	0.0033	"	0.0033300		85.0	30-170			MRL-4, J
Anthracene	0.0012321	0.0033	"	0.0033300		37.0	30-170			MRL-4, J
Fluoranthene	0.0028638	0.0033	"	0.0033300		86.0	30-170			MRL-4, J
Pyrene	0.0022644	0.0033	"	0.0033300		68.0	30-170			MRL-4, J
Benzo(a)anthracene	0.0031635	0.0033	"	0.0033300		95.0	30-170			MRL-4, J

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1108027 - E 3550 Tissue										
MRL Verification (1108027-PS1)				Prepared: 08/05/11 Analyzed: 09/14/11						
Chrysene	0.0022311	0.0033	mg/kg	0.0033300		67.0	30-170			MRL-4, J
Benzo(b)fluoranthene	0.0030303	0.0033	"	0.0033300		91.0	30-170			MRL-4, J
Benzo(k)fluoranthene	0.0027306	0.0033	"	0.0033300		82.0	30-170			MRL-4, J
Benzo(a)pyrene	0.00096570	0.0033	"	0.0033300		29.0	30-170			MRL-4, QR-1, J
Indeno (1,2,3-cd) pyrene	0.0027306	0.0033	"	0.0033300		82.0	30-170			MRL-4, J
Dibenz(a,h)anthracene	0.0029970	0.0033	"	0.0033300		90.0	30-170			MRL-4, J
Benzo(g,h,i)perylene	0.0023643	0.0033	"	0.0033300		71.0	30-170			MRL-4, J
MRL Verification (1108027-PS2)				Prepared: 08/05/11 Analyzed: 09/14/11						
EPA 8270 SIM										
Surrogate: 2-Methylnaphthalene-d10	*0.0360*		*mg/kg*	*0.033356*		*108*	*50-150*			
Surrogate: Fluoranthene-d10	*0.0384*		*"*	*0.033356*		*115*	*50-150*			
2-Methylnaphthalene	0.0060374	0.0033	"	0.0066711		90.5	30-170			MRL-4
1-Methylnaphthalene	0.0056037	0.0033	"	0.0066711		84.0	30-170			MRL-4
Naphthalene	0.0054036	0.0033	"	0.0066711		81.0	30-170			MRL-4
Acenaphthylene	0.0048366	0.0033	"	0.0066711		72.5	30-170			MRL-4
Acenaphthene	0.0053369	0.0033	"	0.0066711		80.0	30-170			MRL-4
Fluorene	0.0067378	0.0033	"	0.0066711		101	30-170			MRL-4
Hexachlorobenzene (HCB)	0.0051034	0.0033	"	0.0066711		76.5	30-170			MRL-4
Phenanthrene	0.0068712	0.0033	"	0.0066711		103	30-170			MRL-4
Anthracene	0.0020013	0.0033	"	0.0066711		30.0	30-170			MRL-4, J
Fluoranthene	0.0069046	0.0033	"	0.0066711		104	30-170			MRL-4
Pyrene	0.0053035	0.0033	"	0.0066711		79.5	30-170			MRL-4
Benzo(a)anthracene	0.0069380	0.0033	"	0.0066711		104	30-170			MRL-4
Chrysene	0.0056037	0.0033	"	0.0066711		84.0	30-170			MRL-4
Benzo(b)fluoranthene	0.0074716	0.0033	"	0.0066711		112	30-170			MRL-4
Benzo(k)fluoranthene	0.0073382	0.0033	"	0.0066711		110	30-170			MRL-4
Benzo(a)pyrene	0.0012008	0.0033	"	0.0066711		18.0	30-170			MRL-4, QR-1, J
Indeno (1,2,3-cd) pyrene	0.0068379	0.0033	"	0.0066711		102	30-170			MRL-4
Dibenz(a,h)anthracene	0.0073049	0.0033	"	0.0066711		110	30-170			MRL-4
Benzo(g,h,i)perylene	0.0058039	0.0033	"	0.0066711		87.0	30-170			MRL-4

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-4	MRL verification for Tissue matrix
QL-1	Laboratory Control Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.
QS-5	Surrogate recovery is higher than established control limits

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February 7, 2011

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0109, Environmental Justice Jacksonville
Surface Water Protection

FROM: Terri White
ASB Inorganic Chemistry Section, Acting Chief

THRU: Jenny Scifres, Acting Chief
Analytical Support Branch

TO: Jerry Ackerman

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Total Metals (TMTL)	
Total Mercury	EPA 245.1
Total Mercury	EPA 7473
Total Metals	EPA 200.8

Report Narrative for Work Order E105301, Project: 11-0109

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

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SAMPLES INCLUDED IN THIS REPORT

Project: 11-0109, Environmental Justice Jacksonville

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
QABB2	E105301-01	Equipment Rinse Blank	12/20/10 14:35	12/28/10 9:40
QADIB	E105301-02	Dry Ice Blank	12/20/10 14:30	12/28/10 9:40
QAMQB	E105301-03	Organic Free Water Blank	12/28/10 09:05	12/28/10 9:40
H-LMB1	E105301-04	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB2	E105301-05	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB3	E105301-06	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB4	E105301-07	Tissue	12/14/10 10:00	12/28/10 9:40
H-LMB5	E105301-08	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL1	E105301-09	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL2	E105301-10	Tissue	12/14/10 10:00	12/28/10 9:40
H-MUL3	E105301-11	Tissue	12/14/10 10:00	12/28/10 9:40
L-LMB1	E105301-12	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB2	E105301-13	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB3	E105301-14	Tissue	12/15/10 10:00	12/28/10 9:40
L-LMB4	E105301-15	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA1	E105301-16	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA2	E105301-17	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA3	E105301-18	Tissue	12/15/10 10:00	12/28/10 9:40
L-TIA4	E105301-19	Tissue	12/15/10 10:00	12/28/10 9:40

DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QABB2 **Lab ID:** E105301-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 12/20/10 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.020	U	ug/Blank	0.020	1/06/11 14:53	1/06/11 15:11	EPA 245.1
7440-38-2	Arsenic	0.050	U	ug/Blank	0.050	1/19/11 7:24	1/27/11 14:41	EPA 200.8
7440-43-9	Cadmium	0.025	U	ug/Blank	0.025	1/19/11 7:24	1/27/11 14:41	EPA 200.8
7439-92-1	Lead	0.050	U	ug/Bottle	0.050	1/19/11 7:24	1/27/11 14:41	EPA 200.8
7782-49-2	Selenium	0.10	U	ug/Blank	0.10	1/19/11 7:24	1/27/11 14:41	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QADIB
Lab ID: E105301-02
Station ID:
Matrix: Dry Ice Blank

Date Collected: 12/20/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.020	U	ug/Blank	0.020	1/06/11 14:53	1/06/11 15:12	EPA 245.1
7440-38-2	Arsenic	0.050	U	ug/Blank	0.050	1/19/11 7:24	1/27/11 14:46	EPA 200.8
7440-43-9	Cadmium	0.025	U	ug/Blank	0.025	1/19/11 7:24	1/27/11 14:46	EPA 200.8
7439-92-1	Lead	0.057		ug/Bottle	0.050	1/19/11 7:24	1/27/11 14:46	EPA 200.8
7782-49-2	Selenium	0.10	U	ug/Blank	0.10	1/19/11 7:24	1/27/11 14:46	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: QAMQB **Lab ID:** E105301-03

Station ID: **Matrix:** Organic Free Water Blank

Date Collected: 12/28/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	ug/L	0.10	1/18/11 8:56	1/18/11 15:24	EPA 245.1
7440-38-2	Arsenic	1.0	U	ug/L	1.0	1/19/11 7:22	1/27/11 14:28	EPA 200.8
7440-43-9	Cadmium	0.50	U	ug/L	0.50	1/19/11 7:22	1/27/11 14:28	EPA 200.8
7439-92-1	Lead	1.0	U	ug/L	1.0	1/19/11 7:22	1/27/11 14:28	EPA 200.8
7782-49-2	Selenium	2.0	U	ug/L	2.0	1/19/11 7:22	1/27/11 14:28	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Terri White

Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB1 **Lab ID:** E105301-04
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.065		mg/kg	0.047	1/18/11 11:30	1/18/11 12:28	EPA 7473
7440-38-2	Arsenic	0.081		mg/kg	0.050	1/20/11 14:39	1/27/11 15:12	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:12	EPA 200.8
7439-92-1	Lead	0.050	U	mg/kg	0.050	1/20/11 14:39	1/27/11 15:12	EPA 200.8
7782-49-2	Selenium	0.59		mg/kg	0.10	1/20/11 14:39	1/27/11 15:12	EPA 200.8

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Terri White

Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB2** **Lab ID:** **E105301-05**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.046	U	mg/kg	0.046	1/18/11 11:30	1/18/11 12:53	EPA 7473
7440-38-2	Arsenic	0.14		mg/kg	0.051	1/20/11 14:39	1/27/11 15:17	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:17	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:39	1/27/11 15:17	EPA 200.8
7782-49-2	Selenium	0.61		mg/kg	0.10	1/20/11 14:39	1/27/11 15:17	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB3 **Lab ID:** E105301-06
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U	mg/kg	0.048	1/18/11 11:30	1/18/11 13:02	EPA 7473
7440-38-2	Arsenic	0.051		mg/kg	0.050	1/20/11 14:39	1/27/11 15:21	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:21	EPA 200.8
7439-92-1	Lead	0.050	U	mg/kg	0.050	1/20/11 14:39	1/27/11 15:21	EPA 200.8
7782-49-2	Selenium	0.54		mg/kg	0.10	1/20/11 14:39	1/27/11 15:21	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-LMB4 **Lab ID:** E105301-07
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.049	U	mg/kg	0.049	1/18/11 11:30	1/18/11 13:10	EPA 7473
7440-38-2	Arsenic	0.059		mg/kg	0.051	1/20/11 14:39	1/27/11 15:26	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:26	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:39	1/27/11 15:26	EPA 200.8
7782-49-2	Selenium	0.56		mg/kg	0.10	1/20/11 14:39	1/27/11 15:26	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **H-LMB5** **Lab ID:** **E105301-08**

Station ID: **HOGAN** **Matrix:** **Tissue**

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.059		mg/kg	0.050	1/18/11 11:30	1/18/11 13:18	EPA 7473
7440-38-2	Arsenic	0.055		mg/kg	0.020	1/20/11 14:39	2/04/11 18:32	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:39	EPA 200.8
7439-92-1	Lead	0.050	U	mg/kg	0.050	1/20/11 14:39	1/27/11 15:39	EPA 200.8
7782-49-2	Selenium	0.76		mg/kg	0.10	1/20/11 14:39	1/27/11 15:39	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL1 **Lab ID:** E105301-09
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U	mg/kg	0.048	1/18/11 11:30	1/18/11 13:26	EPA 7473
7440-38-2	Arsenic	0.46		mg/kg	0.050	1/20/11 14:39	1/27/11 15:43	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:43	EPA 200.8
7439-92-1	Lead	0.050	U	mg/kg	0.050	1/20/11 14:39	1/27/11 15:43	EPA 200.8
7782-49-2	Selenium	0.25		mg/kg	0.10	1/20/11 14:39	1/27/11 15:43	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL2 **Lab ID:** E105301-10
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U	mg/kg	0.050	1/18/11 11:30	1/18/11 13:35	EPA 7473
7440-38-2	Arsenic	0.49		mg/kg	0.050	1/20/11 14:39	1/27/11 15:48	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 15:48	EPA 200.8
7439-92-1	Lead	0.050	U	mg/kg	0.050	1/20/11 14:39	1/27/11 15:48	EPA 200.8
7782-49-2	Selenium	0.25		mg/kg	0.10	1/20/11 14:39	1/27/11 15:48	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: H-MUL3 **Lab ID:** E105301-11
Station ID: HOGAN **Matrix:** Tissue

Date Collected: 12/14/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.046	U	mg/kg	0.046	1/18/11 11:30	1/18/11 13:43	EPA 7473
7440-38-2	Arsenic	0.37		mg/kg	0.050	1/20/11 14:39	1/27/11 16:01	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 16:01	EPA 200.8
7439-92-1	Lead	0.056		mg/kg	0.050	1/20/11 14:39	1/27/11 16:01	EPA 200.8
7782-49-2	Selenium	0.31		mg/kg	0.10	1/20/11 14:39	1/27/11 16:01	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB1 **Lab ID:** E105301-12
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U	mg/kg	0.048	1/18/11 11:30	1/18/11 13:51	EPA 7473
7440-38-2	Arsenic	0.027		mg/kg	0.020	1/20/11 14:39	2/04/11 18:35	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 16:05	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:39	1/27/11 16:05	EPA 200.8
7782-49-2	Selenium	0.40		mg/kg	0.10	1/20/11 14:39	1/27/11 16:05	EPA 200.8

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Region 4 Science and Ecosystem Support Division
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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB2 **Lab ID:** E105301-13
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U	mg/kg	0.048	1/18/11 11:30	1/18/11 14:00	EPA 7473
7440-38-2	Arsenic	0.030		mg/kg	0.020	1/20/11 14:39	2/04/11 18:39	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:39	1/27/11 16:10	EPA 200.8
7439-92-1	Lead	0.050	U	mg/kg	0.050	1/20/11 14:39	1/27/11 16:10	EPA 200.8
7782-49-2	Selenium	0.41		mg/kg	0.099	1/20/11 14:39	1/27/11 16:10	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-LMB3 **Lab ID:** E105301-14
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U	mg/kg	0.048	1/14/11 11:30	1/18/11 15:25	EPA 7473
7440-38-2	Arsenic	0.040		mg/kg	0.020	1/20/11 14:53	2/04/11 18:42	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:53	1/27/11 17:06	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:53	1/27/11 17:06	EPA 200.8
7782-49-2	Selenium	0.49		mg/kg	0.10	1/20/11 14:53	1/27/11 17:06	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **L-LMB4** **Lab ID:** **E105301-15**

Station ID: **LONG** **Matrix:** **Tissue**

Date Collected: **12/15/10 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050		mg/kg	0.042	1/14/11 11:30	1/18/11 15:51	EPA 7473
7440-38-2	Arsenic	0.046		mg/kg	0.020	1/20/11 14:53	2/04/11 18:59	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:53	1/27/11 17:28	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:53	1/27/11 17:28	EPA 200.8
7782-49-2	Selenium	0.48		mg/kg	0.10	1/20/11 14:53	1/27/11 17:28	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA1 **Lab ID:** E105301-16
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.049	U	mg/kg	0.049	1/14/11 11:30	1/18/11 15:59	EPA 7473
7440-38-2	Arsenic	0.048		mg/kg	0.020	1/20/11 14:53	2/04/11 19:03	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:53	1/27/11 17:32	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:53	1/27/11 17:32	EPA 200.8
7782-49-2	Selenium	0.40		mg/kg	0.10	1/20/11 14:53	1/27/11 17:32	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA2 **Lab ID:** E105301-17
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.047	U	mg/kg	0.047	1/14/11 11:30	1/18/11 16:08	EPA 7473
7440-38-2	Arsenic	0.055		mg/kg	0.020	1/20/11 14:53	2/04/11 19:06	EPA 200.8
7440-43-9	Cadmium	0.026	U	mg/kg	0.026	1/20/11 14:53	1/27/11 17:37	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:53	1/27/11 17:37	EPA 200.8
7782-49-2	Selenium	0.42		mg/kg	0.10	1/20/11 14:53	1/27/11 17:37	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA3 **Lab ID:** E105301-18
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.049	U	mg/kg	0.049	1/14/11 11:30	1/18/11 16:16	EPA 7473
7440-38-2	Arsenic	0.037		mg/kg	0.020	1/20/11 14:53	2/04/11 19:10	EPA 200.8
7440-43-9	Cadmium	0.025	U	mg/kg	0.025	1/20/11 14:53	1/27/11 17:41	EPA 200.8
7439-92-1	Lead	0.051	U	mg/kg	0.051	1/20/11 14:53	1/27/11 17:41	EPA 200.8
7782-49-2	Selenium	0.41		mg/kg	0.10	1/20/11 14:53	1/27/11 17:41	EPA 200.8

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Total Metals

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: L-TIA4 **Lab ID:** E105301-19
Station ID: LONG **Matrix:** Tissue

Date Collected: 12/15/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U	mg/kg	0.048	1/14/11 11:30	1/18/11 16:24	EPA 7473
7440-38-2	Arsenic	0.026		mg/kg	0.023	1/20/11 14:53	2/04/11 19:13	EPA 200.8
7440-43-9	Cadmium	0.028	U	mg/kg	0.028	1/20/11 14:53	1/27/11 17:45	EPA 200.8
7439-92-1	Lead	0.057	U	mg/kg	0.057	1/20/11 14:53	1/27/11 17:45	EPA 200.8
7782-49-2	Selenium	0.41		mg/kg	0.11	1/20/11 14:53	1/27/11 17:45	EPA 200.8

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D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

April 5, 2011

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0109, Environmental Justice Jacksonville
Surface Water Protection

FROM: Jeannie Williamson
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: Jerry Ackerman

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Organochlorine Pesticides (OCP)	
Organochlorine pesticides	EPA 8081

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0109
Project: 11-0109, Environmental Justice Jacksonville - Reported by Jeannie Williamson

SAMPLES INCLUDED IN THIS REPORT

Project: 11-0109, Environmental Justice Jacksonville

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
QAMQB-0111	E110201-01	Organic Free Water Blank	1/3/11 16:00	1/4/11 13:10

DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Organochlorine Pesticides

Project: 11-0109, Environmental Justice Jacksonville

Sample ID: **QAMQB-0111** **Lab ID:** **E110201-01**

Station ID: **Matrix:** **Organic Free Water Blank**

Date Collected: 1/3/11 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-74-9	Chlordane	0.12	U	ug/L	0.12	1/05/11 9:24	1/18/11 16:23	EPA 8081
8001-35-2	Toxaphene	2.0	U	ug/L	2.0	1/05/11 9:43	1/27/11 19:00	EPA 8081

End of Report