

Today's date			<b>Phase II</b>		
			UNDILUTED		
Analyte	Parameter	TEF	Flags	Concentration	
				pg/g	
1368-TCDD	1, 3, 6, 8-tetrachlorodibenzo-p-dioxin	0			
1379-TCDD	1, 3, 7, 9-tetrachlorodibenzo-p-dioxin	0			
2378-TCDD	2, 3, 7, 8-tetrachlorodibenzo-p-dioxin	1			
12378-PeCDD	1, 2, 3, 7, 8-pentachlorodibenzo-p-dioxin	0.5			
123478-HxCDD	1, 2, 3, 4, 7, 8-hexachlorodibenzo-p-dioxin	0.1			
123678-HxCDD	1, 2, 3, 6, 7, 8-hexachlorodibenzo-p-dioxin	0.1			
123789-HxCDD	1, 2, 3, 7, 8, 9-hexachlorodibenzo-p-dioxin	0.1			
1234678-HpCDD	1, 2, 3, 4, 6, 7, 8-heptachlorodibenzo-p-dioxin	0.01			
12346789-OCDD	1, 2, 3, 4, 5, 6, 7, 8-octachlorodibenzo-p-dioxin	0.001			
1368-TCDF	1, 3, 6, 8-tetrachlorodibenzofuran	0			
2378TCDF	2, 3, 7, 8-tetrachlorodibenzofuran	0.1			
12378-PeCDF	1, 2, 3, 7, 8-pentachlorodibenzofuran	0.05			
23478-PeCDF	2, 3, 4, 7, 8-pentachlorodibenzofuran	0.5			
123478-HxCDF	1, 2, 3, 4, 7, 8-hexachlorodibenzofuran	0.1			
123678-HxCDF	1, 2, 3, 6, 7, 8-hexachlorodibenzofuran	0.1			
234678-HxCDF	2, 3, 4, 6, 7, 8-hexachlorodibenzofuran	0.1			
123789-HxCDF	1, 2, 3, 7, 8, 9-hexachlorodibenzodioxin	0.1			
1234678-HpCDF	1, 2, 3, 4, 6, 7, 8-heptachlorodibenzofuran	0.01			
1234789-HpCDF	1, 2, 3, 4, 7, 8, 9-heptachlorodibenzofuran	0.01			
12346789-OCDF	1, 2, 3, 4, 6, 7, 8, 9-octachlorodibenzofuran	0.001			
nondetects = detection limit					
<i>nondetects = 1/2 d.l.</i>					
nondetects = zero					
			Flags	Concentration	Number
				pg/g	
TOTAL TCDD	total tetrachlorodibenzo-p-dioxin				
TOTAL PeCDD	total pentachlorodibenzo-p-dioxin				
TOTAL HxCDD	total hexachlorodibenzo-p-dioxin				
TOTAL HpCDD	total heptachlorodibenzo-p-dioxin				
TOTAL TCDF	total tetrachlorodibenzofuran				
TOTAL PeCDF	total perchlorodibenzofuran				
TOTAL HxCDF	total hexachlorodibenzofuran				
TOTAL HpCDF	total heptachlorodibenzofuran				
<b>% Finer than #200 Sieve</b>					
<b>% Total Organic Carbon</b>					
<b>% Solids</b>					
Latitude					
Longitude					
Northing (MiGeoRef)					
Easting (MiGeoRef)					
Elevation (NAVD 1929 in feet)					



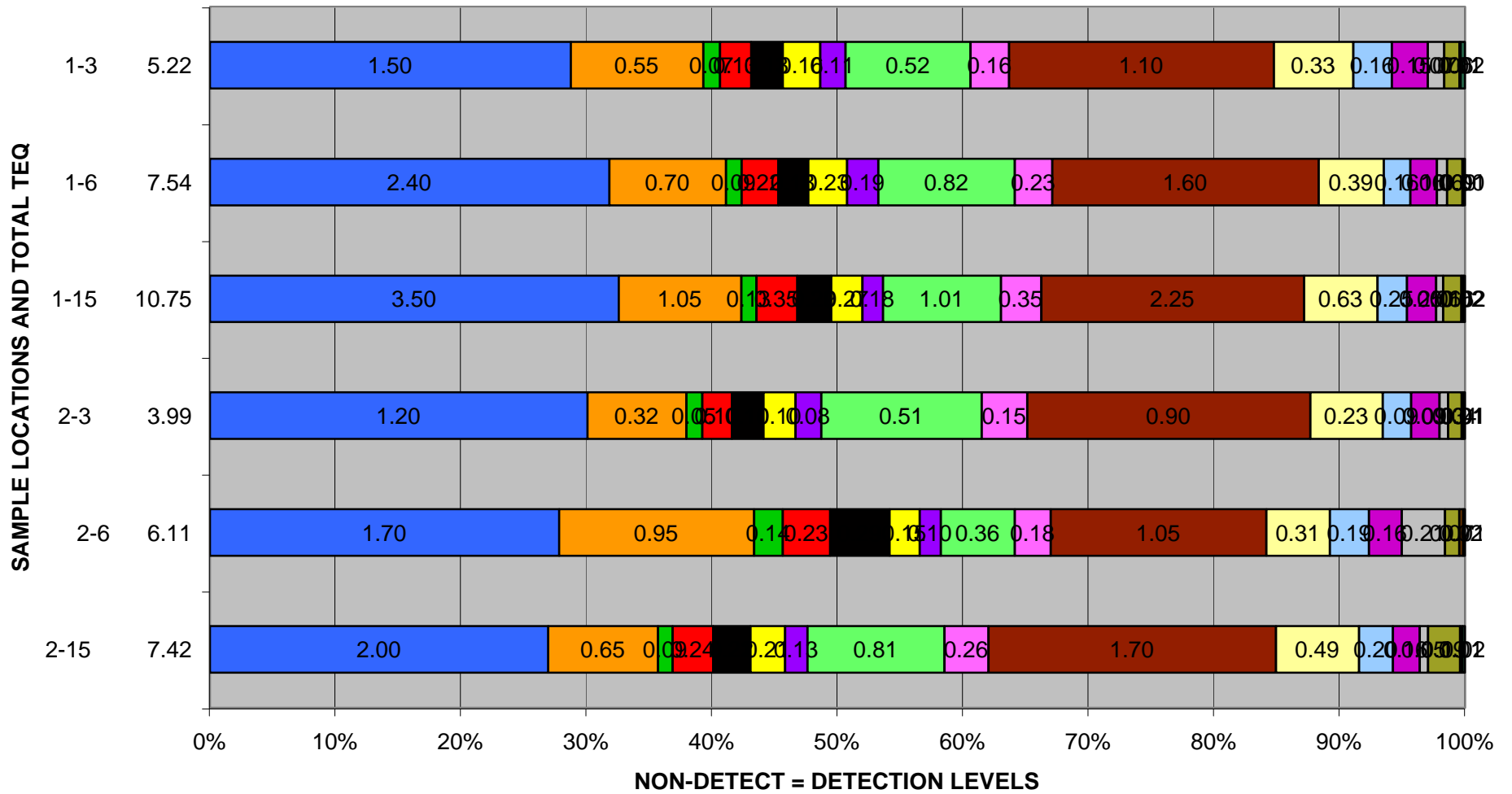
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CHIPPEWA RIVER, MIDLAND COUNTY SOIL SAMPLES																			
		4/30/02					II CHW 1-3 FINAL					II CHW 1-6 FINAL					II CHW 1-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero					
1368-TCDD	0		4.30	0.00	0.00	0.00		10.10	0.00	0.00	0.00		9.60	0.00	0.00	0.00					
1379-TCDD	0		1.90	0.00	0.00	0.00		3.40	0.00	0.00	0.00		4.00	0.00	0.00	0.00					
2378-TCDD	1	ND	1.50	1.50	0.75	0.00		2.40	2.40	2.40	2.40		3.50	3.50	3.50	3.50					
12378-PeCDD	0.5	J	1.10	0.55	0.55	0.55	J	1.40	0.70	0.70	0.70	J	2.10	1.05	1.05	1.05					
123478-HxCDD	0.1	ND	0.70	0.07	0.04	0.00	J	0.94	0.09	0.09	0.09	J	1.30	0.13	0.13	0.13					
123678-HxCDD	0.1	ND	1.30	0.13	0.07	0.00	J	2.20	0.22	0.22	0.22	J	3.50	0.35	0.35	0.35					
123789-HxCDD	0.1	ND	1.30	0.13	0.07	0.00	J	1.80	0.18	0.18	0.18	J	2.90	0.29	0.29	0.29					
1234678-HpCDD	0.01		15.60	0.16	0.16	0.16		23.40	0.23	0.23	0.23		26.60	0.27	0.27	0.27					
12346789-OCDD	0.001		105.00	0.11	0.11	0.11		187.00	0.19	0.19	0.19		177.00	0.18	0.18	0.18					
1368-TCDF	0	ND	0.10	0.00	0.00	0.00	ND	0.09	0.00	0.00	0.00	ND	0.08	0.00	0.00	0.00					
2378TCDF	0.1		5.20	0.52	0.52	0.52		8.20	0.82	0.82	0.82		10.10	1.01	1.01	1.01					
12378-PeCDF	0.05	ND	3.20	0.16	0.08	0.00	J	4.50	0.23	0.23	0.23		6.90	0.35	0.35	0.35					
23478-PeCDF	0.5	J	2.20	1.10	1.10	1.10	J	3.20	1.60	1.60	1.60	J	4.50	2.25	2.25	2.25					
123478-HxCDF	0.1	J	3.30	0.33	0.33	0.33	J	3.90	0.39	0.39	0.39		6.30	0.63	0.63	0.63					
123678-HxCDF	0.1	J	1.60	0.16	0.16	0.16	ND	1.60	0.16	0.08	0.00	J	2.50	0.25	0.25	0.25					
234678-HxCDF	0.1	J	1.50	0.15	0.15	0.15	J	1.60	0.16	0.16	0.16	J	2.50	0.25	0.25	0.25					
123789-HxCDF	0.1	J	0.68	0.07	0.07	0.07	ND	0.60	0.06	0.03	0.00	J	0.60	0.06	0.06	0.06					
1234678-HpCDF	0.01		6.30	0.06	0.06	0.06		9.30	0.09	0.09	0.09		15.70	0.16	0.16	0.16					
1234789-HpCDF	0.01	ND	0.50	0.01	0.00	0.00	ND	0.40	0.00	0.00	0.00	J	1.50	0.02	0.02	0.02					
12346789-OCDF	0.001		18.20	0.02	0.02	0.02		11.70	0.01	0.01	0.01		16.10	0.02	0.02	0.02					
nondetects = detection limit			TEQ=	5.22				TEQ=	7.54				TEQ=	10.75							
nondetects = 1/2 d.l.			teq=		4.22			teq=		7.43			teq=		10.75						
nondetects = zero			teq=			3.22		teq=			7.31		teq=			10.75					
Totals		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number							
TOTAL TCDD			7.20	4.00				19.40	5.00				22.90	7.00							
TOTAL PeCDD			2.80	2.00				7.40	3.00				17.20	8.00							
TOTAL HxCDD			5.40	2.00				18.50	6.00				27.30	6.00							
TOTAL HpCDD			30.20	2.00				45.20	2.00				49.50	2.00							
TOTAL TCDF			18.80	9.00				63.50	8.00				91.40	12.00							
TOTAL PeCDF			19.30	11.00				32.90	10.00				50.50	12.00							
TOTAL HxCDF			20.40	7.00				17.30	4.00				34.40	10.00							
TOTAL HpCDF			16.00	2.00				16.50	2.00				28.80	3.00							
% Finer than #200 Sieve			35.4					39.4					38.5								
% Total Organic Carbon			1.5					1.5					1.1								
% Solids			81					81					82								
4, 4' -DDD mg/kg dry			<0.020					<0.020					<0.020								
4, 4' -DDE mg/kg dry			<0.020					<0.020					<0.020								
2, 4' -DDT mg/kg dry			<0.020					<0.020					<0.020								
4, 4' -DDT mg/kg dry			<0.020					<0.020					<0.020								
PBB (BP-6) mg/kg dry			<0.050					<0.050					<0.050								
Latitude			43.603721797N																		
Longitude			84.302449656W																		
Northing (MiGeoRef)			340584.86m																		
Easting (MiGeoRef)			636844.58m																		
Elevation (NAVD 1929 in feet)																					

**TITABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - CHIPPEWA RIVER, MIDLAND COUNTY SOIL SAMPLES														
Analyte	TEF	Flags	II CHW 2-3 FINAL				II CHW 2-6 FINAL					II CHW 2-15 FINAL				
			Concentration	nondetect	nondetect	nondetect	Concentration	nondetect	nondetect	nondetect	Concentration	nondetect	nondetect	nondetect		
			pg/g	detection level	1/2 d.l.	zero	pg/g	detection level	1/2 d.l.	zero	pg/g	detection level	1/2 d.l.	zero		
1368-TCDD	0		2.20	0.00	0.00	0.00		3.70	0.00	0.00	0.00		6.30	0.00	0.00	0.00
1379-TCDD	0	ND	1.10	0.00	0.00	0.00		1.60	0.00	0.00	0.00		2.50	0.00	0.00	0.00
2378-TCDD	1		1.20	1.20	1.20	1.20		1.70	1.70	1.70	1.70		2.00	2.00	2.00	2.00
12378-PeCDD	0.5	J	0.63	0.32	0.32	0.32	J	1.90	0.95	0.95	0.95	ND	1.30	0.65	0.33	0.00
123478-HxCDD	0.1	ND	0.50	0.05	0.03	0.00	J	1.40	0.14	0.14	0.14	J	0.86	0.09	0.09	0.09
123678-HxCDD	0.1	J	0.95	0.10	0.10	0.10	J	2.30	0.23	0.23	0.23	J	2.40	0.24	0.24	0.24
123789-HxCDD	0.1	J	1.00	0.10	0.10	0.10	J	2.90	0.29	0.29	0.29	J	2.20	0.22	0.22	0.22
1234678-HpCDD	0.01		10.20	0.10	0.10	0.10		14.70	0.15	0.15	0.15		20.50	0.21	0.21	0.21
12346789-OCDD	0.001		81.60	0.08	0.08	0.08		102.00	0.10	0.10	0.10		132.00	0.13	0.13	0.13
1368-TCDF	0	ND	0.30	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00
2378TCDF	0.1		5.10	0.51	0.51	0.51		3.60	0.36	0.36	0.36		8.10	0.81	0.81	0.81
12378-PeCDF	0.05	J	2.90	0.15	0.15	0.15	J	3.50	0.18	0.18	0.18		5.20	0.26	0.26	0.26
23478-PeCDF	0.5	J	1.80	0.90	0.90	0.90	J	2.10	1.05	1.05	1.05	J	3.40	1.70	1.70	1.70
123478-HxCDF	0.1	J	2.30	0.23	0.23	0.23	J	3.10	0.31	0.31	0.31	J	4.90	0.49	0.49	0.49
123678-HxCDF	0.1	ND	0.90	0.09	0.05	0.00	J	1.90	0.19	0.19	0.19	J	2.00	0.20	0.20	0.20
234678-HxCDF	0.1	J	0.90	0.09	0.09	0.09	J	1.60	0.16	0.16	0.16	J	1.60	0.16	0.16	0.16
123789-HxCDF	0.1	J	0.28	0.03	0.03	0.03	J	2.10	0.21	0.21	0.21	J	0.49	0.05	0.05	0.05
1234678-HpCDF	0.01	J	4.30	0.04	0.04	0.04		7.00	0.07	0.07	0.07		18.90	0.19	0.19	0.19
1234789-HpCDF	0.01	ND	0.50	0.01	0.00	0.00	J	1.90	0.02	0.02	0.02	J	1.40	0.01	0.01	0.01
12346789-OCDF	0.001	J	5.40	0.01	0.01	0.01	J	8.90	0.01	0.01	0.01		15.10	0.02	0.02	0.02
nondetects = detection limit			TEQ=	3.99				TEQ=	6.11				TEQ=	7.42		
nondetects = 1/2 d.l.			teq=		3.92			teq=		6.11			teq=		7.10	
nondetects = zero			teq=			3.85		teq=			6.11		teq=			6.77
<b>Totals</b>		<b>Flags</b>	<b>Concentration</b>	<b>Number</b>			<b>Flags</b>	<b>Concentration</b>	<b>Number</b>			<b>Flags</b>	<b>Concentration</b>	<b>Number</b>		
			pg/g					pg/g					pg/g			
TOTAL TCDD			3.40	2.00				8.50	5.00				12.30	4.00		
TOTAL PeCDD			2.70	3.00				1.90	1.00				7.90	5.00		
TOTAL HxCDD			7.50	5.00				13.50	5.00				19.50	6.00		
TOTAL HpCDD			19.20	2.00				27.90	2.00				38.40	2.00		
TOTAL TCDF			18.40	4.00				21.00	3.00				43.90	5.00		
TOTAL PeCDF			13.30	8.00				11.20	8.00				31.20	10.00		
TOTAL HxCDF			9.60	6.00				16.30	7.00				25.40	8.00		
TOTAL HpCDF			8.00	2.00				14.00	3.00				32.80	4.00		
% Finer than #200 Sieve			43.6					45.1					46.5			
% Total Organic Carbon			2.3					1.7					1.4			
% Solids			75					78					84			
4, 4' -DDD mg/kg dry			<0.020					<0.020					<0.020			
4, 4' -DDE mg/kg dry			<0.020					<0.020					<0.020			
2, 4' -DDT mg/kg dry			<0.020					<0.020					<0.020			
4, 4' -DDT mg/kg dry			<0.020					<0.020					<0.020			
PBB (BP-6) mg/kg dry			<0.050					<0.050					<0.050			
Latitude			43.603723853N													
Longitude			84.302293175W													
Northing (MiGeoRef)			340585.35m													
Easting (MiGeoRef)			636857.20m													
Elevation (NAVD 1929 in feet)																

# TITTABAWASSEE RIVER PROJECT - CHIPPEWA RIVER, MIDLAND COUNTY SOIL SAMPLES FOR DIOXIN



2378-TCDD	12378-PeCDD	123478-HxCDD	123678-HxCDD	123789-HxCDD	1234678-HpCDD
12346789-OCDD	2378TCDF	12378-PeCDF	23478-PeCDF	123478-HxCDF	123678-HxCDF
234678-HxCDF	123789-HxCDF	1234678-HpCDF	1234789-HpCDF	12346789-OCDF	

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - PINE RIVER, MIDLAND COUNTY SOIL SAMPLES																			
		4/30/02					II PNE 1-3 FINAL					II PNE 1-6 FINAL					II PNE 1-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero					
1368-TCDD	0		2.40	0.00	0.00	0.00		2.80	0.00	0.00	0.00		8.20	0.00	0.00	0.00					
1379-TCDD	0	ND	1.10	0.00	0.00	0.00	J	0.99	0.00	0.00	0.00		3.10	0.00	0.00	0.00					
2378-TCDD	1	J	0.93	0.93	0.93	0.93	J	0.89	0.89	0.89	0.89		3.30	3.30	3.30	3.30					
12378-PeCDD	0.5	J	0.79	0.40	0.40	0.40	ND,J	0.70	0.35	0.18	0.00	J	1.80	0.90	0.90	0.90					
123478-HxCDD	0.1	J	0.51	0.05	0.05	0.05	J	0.45	0.05	0.05	0.05	J	1.10	0.11	0.11	0.11					
123678-HxCDD	0.1	J	1.40	0.14	0.14	0.14	J	1.40	0.14	0.14	0.14	J	3.80	0.38	0.38	0.38					
123789-HxCDD	0.1	J	1.30	0.13	0.13	0.13	J	1.20	0.12	0.12	0.12	ND	3.50	0.35	0.18	0.00					
1234678-HpCDD	0.01		17.90	0.18	0.18	0.18		19.00	0.19	0.19	0.19		52.20	0.52	0.52	0.52					
12346789-OCDD	0.001		148.00	0.15	0.15	0.15		155.00	0.16	0.16	0.16		430.00	0.43	0.43	0.43					
1368-TCDF	0	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00					
2378TCDF	0.1	ND	0.50	0.05	0.03	0.00		1.30	0.13	0.13	0.13	ND	3.30	0.33	0.17	0.00					
12378-PeCDF	0.05	J	0.82	0.04	0.04	0.04	J	0.81	0.04	0.04	0.04	J	1.70	0.09	0.09	0.09					
23478-PeCDF	0.5	ND	0.70	0.35	0.18	0.00	J	0.58	0.29	0.29	0.29	J	1.70	0.85	0.85	0.85					
123478-HxCDF	0.1	J	2.30	0.23	0.23	0.23	J	2.40	0.24	0.24	0.24		6.50	0.65	0.65	0.65					
123678-HxCDF	0.1	J	1.10	0.11	0.11	0.11	J	0.98	0.10	0.10	0.10	J	2.60	0.26	0.26	0.26					
234678-HxCDF	0.1	ND	0.90	0.09	0.05	0.00	J	0.85	0.09	0.09	0.09	J	2.30	0.23	0.23	0.23					
123789-HxCDF	0.1	J	0.32	0.03	0.03	0.03	J	0.43	0.04	0.04	0.04	J	0.53	0.05	0.05	0.05					
1234678-HpCDF	0.01		11.10	0.11	0.11	0.11		11.60	0.12	0.12	0.12		31.20	0.31	0.31	0.31					
1234789-HpCDF	0.01	J	0.82	0.01	0.01	0.01	ND,J	0.60	0.01	0.00	0.00	J	1.80	0.02	0.02	0.02					
12346789-OCDF	0.001		13.50	0.01	0.01	0.01		14.90	0.01	0.01	0.01		39.80	0.04	0.04	0.04					
nondetects = detection limit			TEQ=	3.01				TEQ=	2.95				TEQ=	8.82							
nondetects = 1/2 d.l.			teq=		2.76			teq=		2.78			teq=		8.48						
nondetects = zero			teq=			2.52		teq=			2.60		teq=			8.14					
Totals		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number							
TOTAL TCDD			4.80	5.00			Q	6.10	5.00				17.30	5.00							
TOTAL PeCDD			2.00	2.00			Q	2.60	4.00			Q	8.50	6.00							
TOTAL HxCDD			9.90	5.00				9.80	5.00				28.60	5.00							
TOTAL HpCDD			33.90	2.00				35.50	2.00				95.90	2.00							
TOTAL TCDF			15.10	7.00			X	26.80	8.00			X	54.80	12.00							
TOTAL PeCDF			9.80	5.00				19.00	11.00			QX	31.00	10.00							
TOTAL HxCDF		X	15.10	9.00				17.50	11.00				45.30	12.00							
TOTAL HpCDF			21.10	4.00				20.10	2.00				57.30	4.00							
% Finer than #200 Sieve			67.3					61.3					64.9								
% Total Organic Carbon			3.6					2.5					2.2								
% Solids			70					74					74								
4, 4' -DDD mg/kg dry			<0.024					<0.020					0.021								
4, 4' -DDE mg/kg dry			<0.024					<0.020					0.066								
2, 4' -DDT mg/kg dry			<0.024					<0.020					<0.020								
4, 4' -DDT mg/kg dry			0.084					0.026					0.05								
PBB (BP-6) mg/kg dry			<0.060					<0.050					0.061								
Latitude			43.600675946N																		
Longitude			84.298750643W																		
Northing (MiGeoRef)			340252.81m																		
Easting (MiGeoRef)			637150.05m																		
Elevation (NAVD 1929 in feet)																					



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - PINE RIVER, MIDLAND COUNTY SOIL SAMPLES													
		II PNE 2-3 FINAL					II PNE 2-6 FINAL					II PNE 2-15 FINAL			
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.
1368-TCDD	0		8.90	0.00	0.00	0.00		15.20	0.00	0.00	0.00		18.10	0.00	0.00
1379-TCDD	0		3.40	0.00	0.00	0.00		5.00	0.00	0.00	0.00		6.60	0.00	0.00
2378-TCDD	1		3.40	3.40	3.40	3.40		5.00	5.00	5.00	5.00		5.00	5.00	5.00
12378-PeCDD	0.5	J	2.50	1.25	1.25	1.25	J	2.50	1.25	1.25	1.25	J	2.90	1.45	1.45
123478-HxCDD	0.1	ND	1.50	0.15	0.08	0.00	J	1.30	0.13	0.13	0.13	J	1.80	0.18	0.18
123678-HxCDD	0.1	J	3.90	0.39	0.39	0.39	J	4.70	0.47	0.47	0.47	J	6.70	0.67	0.67
123789-HxCDD	0.1	J	4.00	0.40	0.40	0.40	J	3.40	0.34	0.34	0.34	J	4.80	0.48	0.48
1234678-HpCDD	0.01		39.50	0.40	0.40	0.40		54.70	0.55	0.55	0.55		69.30	0.69	0.69
12346789-OCDD	0.001		317.00	0.32	0.32	0.32		452.00	0.45	0.45	0.45		555.00	0.56	0.56
1368-TCDF	0	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.10	0.00	0.00
2378TCDF	0.1		1.50	0.15	0.15	0.15		4.10	0.41	0.41	0.41		4.40	0.44	0.44
12378-PeCDF	0.05	J	2.20	0.11	0.11	0.11	J	1.60	0.08	0.08	0.08	J	1.30	0.07	0.07
23478-PeCDF	0.5	ND	0.07	0.04	0.02	0.00	J	1.60	0.80	0.80	0.80	J	2.00	1.00	1.00
123478-HxCDF	0.1	J	4.90	0.49	0.49	0.49	J	6.20	0.62	0.62	0.62	J	6.10	0.61	0.61
123678-HxCDF	0.1	J	2.50	0.25	0.25	0.25	J	2.50	0.25	0.25	0.25	J	2.60	0.26	0.26
234678-HxCDF	0.1	J	2.60	0.26	0.26	0.26	J	2.70	0.27	0.27	0.27	J	3.60	0.36	0.36
123789-HxCDF	0.1	J	2.00	0.20	0.20	0.20	J	0.42	0.04	0.04	0.04	X,J	0.96	0.10	0.10
1234678-HpCDF	0.01		25.10	0.25	0.25	0.25		34.50	0.35	0.35	0.35		40.90	0.41	0.41
1234789-HpCDF	0.01	J	2.50	0.03	0.03	0.03	J	1.80	0.02	0.02	0.02	J	2.50	0.03	0.03
12346789-OCDF	0.001		30.20	0.03	0.03	0.03		42.40	0.04	0.04	0.04		45.50	0.05	0.05
nondetects = detection limit			TEQ=	8.10				TEQ=	11.07				TEQ=	12.34	
nondetects = 1/2 d.l.			teq=		8.01			teq=		11.07			teq=		12.34
nondetects = zero			teq=			7.92		teq=			11.07		teq=		
Totals		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number	
TOTAL TCDD			20.30	5.00			Q	32.50	6				40.40	6.00	
TOTAL PeCDD		Q	13.60	7.00			Q	16.00	7			Q	26.10	9.00	
TOTAL HxCDD			27.10	5.00				31.50	5				49.60	7.00	
TOTAL HpCDD			71.9	2.00				101.00	2				126.00	2.00	
TOTAL TCDF		X	62.00	9.00				74.60	10			X	118.00	11.00	
TOTAL PeCDF		X	30.40	11.00				36.40	11			X	50.70	13.00	
TOTAL HxCDF			37.30	11.00				50.20	12				61.80	12.00	
TOTAL HpCDF			49.30	4.00				67.80	4				92.10	4.00	
% Finer than #200 Sieve			68.1					66.1					63.9		
% Total Organic Carbon			3.3					2.7					1.8		
% Solids			73					75					77		
4, 4' -DDD mg/kg dry			0.044					0.04					0.15		
4, 4' -DDE mg/kg dry			0.24					0.26					0.58		
2, 4' -DDT mg/kg dry			0.036					0.048					0.34		
4, 4' -DDT mg/kg dry			0.18					0.13					0.44		
PBB (BP-6) mg/kg dry			<0.057					<0.056					<0.27		
Latitude			43.600742314N												
Longitude			84.298703125W												
Northing (MiGeoRef)			340260.26m												
Easting (MiGeoRef)			637153.73m												
Elevation (NAVD 1929 in feet)															



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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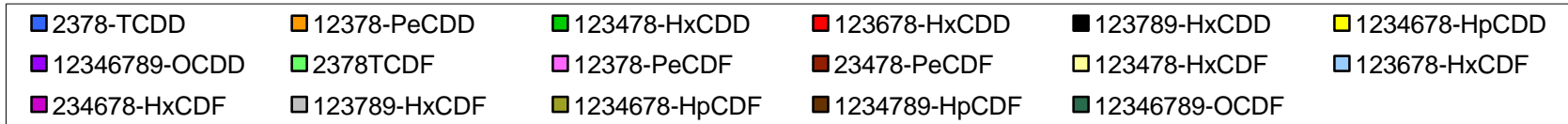
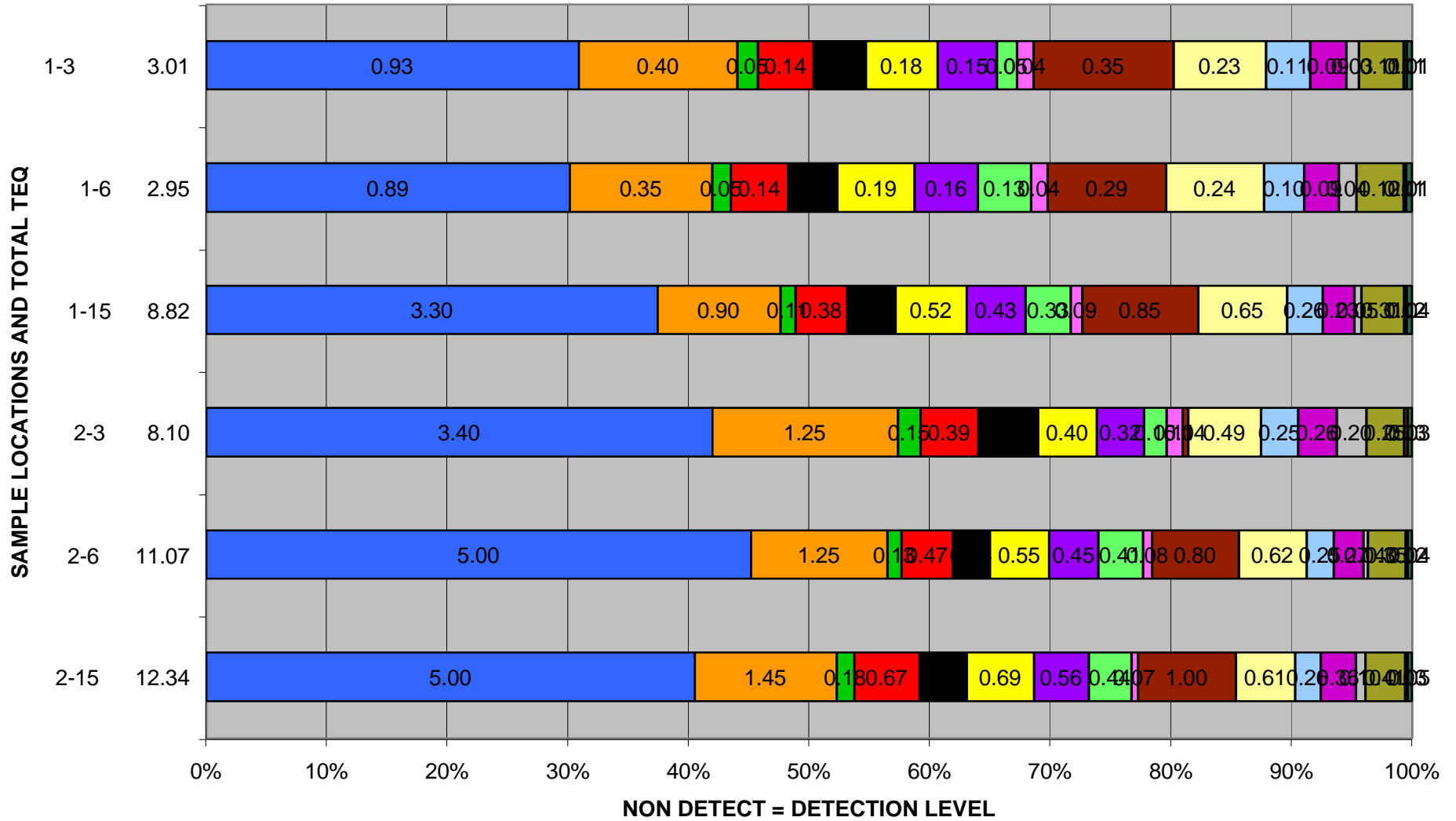
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		
Analyte	TEF	nondetect zero
1368-TCDD	0	0.00
1379-TCDD	0	0.00
2378-TCDD	1	5.00
12378-PeCDD	0.5	1.45
123478-HxCDD	0.1	0.18
123678-HxCDD	0.1	0.67
123789-HxCDD	0.1	0.48
1234678-HpCDD	0.01	0.69
12346789-OCDD	0.001	0.56
1368-TCDF	0	0.00
2378TCDF	0.1	0.44
12378-PeCDF	0.05	0.07
23478-PeCDF	0.5	1.00
123478-HxCDF	0.1	0.61
123678-HxCDF	0.1	0.26
234678-HxCDF	0.1	0.36
123789-HxCDF	0.1	0.10
1234678-HpCDF	0.01	0.41
1234789-HpCDF	0.01	0.03
12346789-OCDF	0.001	0.05
nondetects = detection limit		
nondetects = 1/2 d.l.		
nondetects = zero		12.34
Totals		
TOTAL TCDD		
TOTAL PeCDD		
TOTAL HxCDD		
TOTAL HpCDD		
TOTAL TCDF		
TOTAL PeCDF		
TOTAL HxCDF		
TOTAL HpCDF		
% Finer than #200 Sieve		
% Total Organic Carbon		
% Solids		
4, 4' -DDD mg/kg dry		
4, 4' -DDE mg/kg dry		
2, 4' -DDT mg/kg dry		
4, 4' -DDT mg/kg dry		
PBB (BP-6) mg/kg dry		
Latitude		
Longitude		
Northing (MiGeoRef)		
Easting (MiGeoRef)		
Elevation (NAVD 1929 in feet)		

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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# TITTABAWASSEE RIVER PROJECT, PINE RIVER, MIDLAND COUNTY SOIL SAMPLES FOR DIOXIN



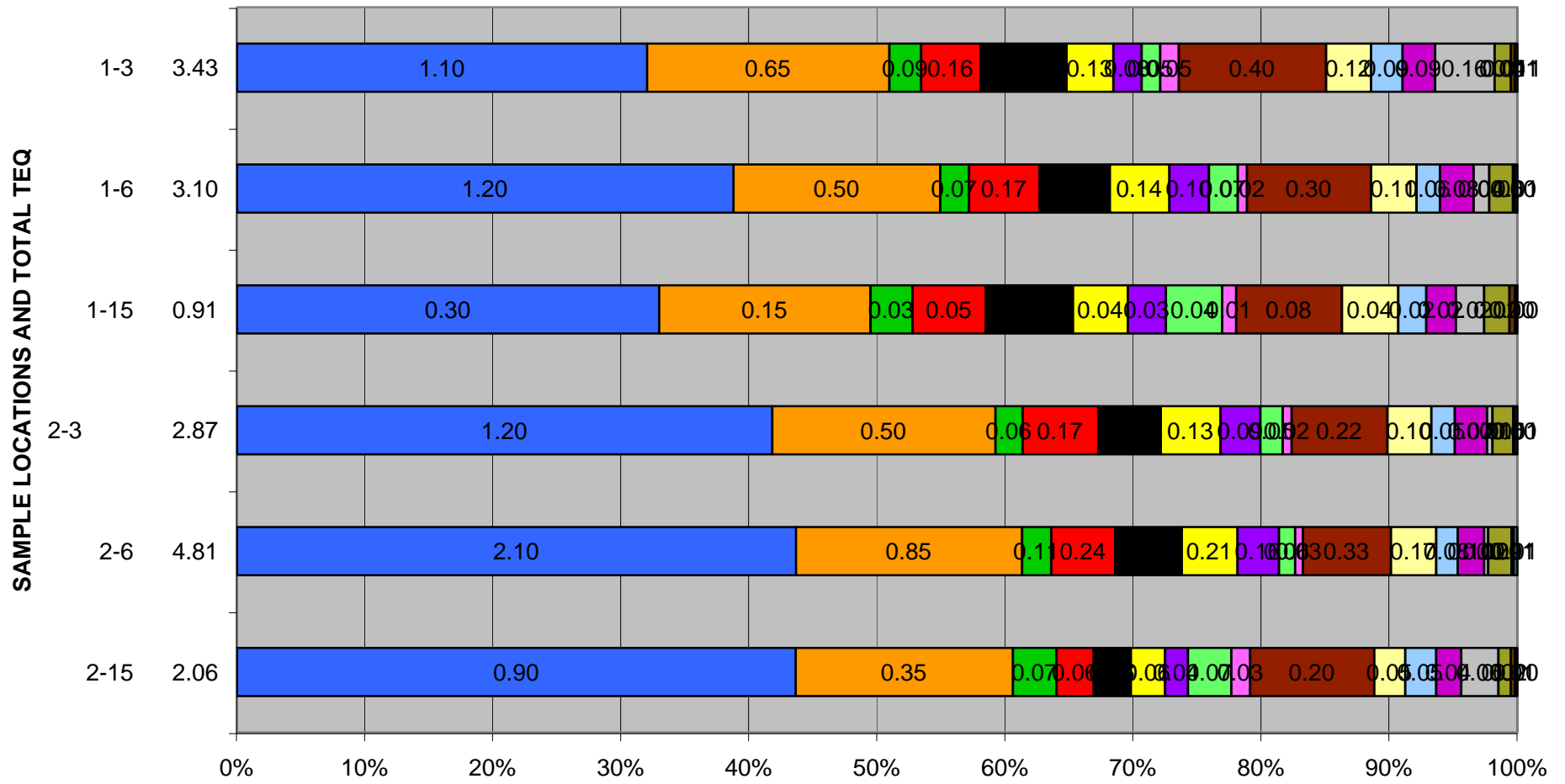
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - TITTABAWASSEE RIVER AT SANFORD, MIDLAND COUNTY SOIL SAMPLES																			
		4/30/02					II SFD 1-3					II SFD 1-6					II SFD 1-15				
		<i>FINAL</i>					<i>FINAL</i>					<i>FINAL</i>									
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	<i>nondetect</i> <i>1/2 d.l.</i>	nondetect zero	Flags	Concentration pg/g	nondetect detection level	<i>nondetect</i> <i>1/2 d.l.</i>	nondetect zero	Flags	Concentration pg/g	nondetect detection level	<i>nondetect</i> <i>1/2 d.l.</i>	nondetect zero					
1368-TCDD	0		2.50	0.00	0.00	0.00		4.50	0.00	0.00	0.00		1.20	0.00	0.00	0.00					
1379-TCDD	0		1.20	0.00	0.00	0.00		2.10	0.00	0.00	0.00	ND	0.70	0.00	0.00	0.00					
2378-TCDD	1		1.10	1.10	1.10	1.10		1.20	1.20	1.20	1.20	ND	0.30	0.30	0.15	0.00					
12378-PeCDD	0.5	J	1.30	0.65	0.65	0.65	J	1.00	0.50	0.50	0.50	ND	0.30	0.15	0.08	0.00					
123478-HxCDD	0.1	J	0.85	0.09	0.09	0.09	J	0.70	0.07	0.07	0.07	ND	0.30	0.03	0.02	0.00					
123678-HxCDD	0.1	J	1.60	0.16	0.16	0.16	J	1.70	0.17	0.17	0.17	J	0.52	0.05	0.05	0.05					
123789-HxCDD	0.1	J	2.30	0.23	0.23	0.23	J	1.70	0.17	0.17	0.17	J	0.62	0.06	0.06	0.06					
1234678-HpCDD	0.01		12.60	0.13	0.13	0.13		14.40	0.14	0.14	0.14	J	3.90	0.04	0.04	0.04					
12346789-OCDD	0.001		75.50	0.08	0.08	0.08		95.30	0.10	0.10	0.10		26.90	0.03	0.03	0.03					
1368-TCDF	0	ND	1.00	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00					
2378TCDF	0.1	ND	0.50	0.05	0.03	0.00	ND	0.70	0.07	0.04	0.00	ND	0.40	0.04	0.02	0.00					
12378-PeCDF	0.05	J	1.00	0.05	0.05	0.05	J	0.44	0.02	0.02	0.02	ND	0.20	0.01	0.01	0.00					
23478-PeCDF	0.5	J	0.79	0.40	0.40	0.40	ND	0.60	0.30	0.15	0.00	J	0.15	0.08	0.08	0.08					
123478-HxCDF	0.1	J,B	1.20	0.12	0.12	0.12	J	1.10	0.11	0.11	0.11	J,B	0.40	0.04	0.04	0.04					
123678-HxCDF	0.1	J	0.85	0.09	0.09	0.09	J	0.57	0.06	0.06	0.06	ND	0.20	0.02	0.01	0.00					
234678-HxCDF	0.1	J	0.87	0.09	0.09	0.09	J	0.81	0.08	0.08	0.08	J	0.21	0.02	0.02	0.02					
123789-HxCDF	0.1	J	1.60	0.16	0.16	0.16	J	0.38	0.04	0.04	0.04	ND	0.20	0.02	0.01	0.00					
1234678-HpCDF	0.01	J	4.30	0.04	0.04	0.04	J	5.70	0.06	0.06	0.06	J	1.80	0.02	0.02	0.02					
1234789-HpCDF	0.01	J	1.10	0.01	0.01	0.01	J	0.45	0.00	0.00	0.00	ND	0.40	0.00	0.00	0.00					
12346789-OCDF	0.001	J	7.20	0.01	0.01	0.01	J	6.70	0.01	0.01	0.01	J	1.80	0.00	0.00	0.00					
nondetects = detection limit		TEQ=	TEQ=	3.43				TEQ=	3.10				TEQ=	0.91							
nondetects = 1/2 d.l.		teq=	teq=		3.41			teq=		2.91			teq=		0.62						
nondetects = zero		teq=	teq=			3.38		teq=			2.73		teq=			0.34					
Totals		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number							
TOTAL TCDD			5.50	4.00				9.60	5.00				1.20	1.00							
TOTAL PeCDD			4.20	5.00				5.20	5.00				1.40	4.00							
TOTAL HxCDD			10.00	5.00				14.60	6.00				3.60	4.00							
TOTAL HpCDD			24.20	2.00				27.10	2.00				7.30	2.00							
TOTAL TCDF			12.20	2.00				25.10	5.00				4.60	1.00							
TOTAL PeCDF			6.70	7.00				9.10	8.00				1.80	3.00							
TOTAL HxCDF			8.90	7.00				9.70	7.00				2.50	5.00							
TOTAL HpCDF			9.00	3.00				11.20	4.00				3.10	2.00							
% Finer than #200 Sieve			29.7					29.9					25.9								
% Total Organic Carbon			2.00					1.7					0.87								
% Solids			78					81					88								
Latitude			43.668889140N																		
Longitude			84.384442347W																		
Northing (MiGeoRef)			347688.1m																		
Eastng (MiGeoRef)			630086.4m																		
Elevation (NAVD 1929 in feet)																					

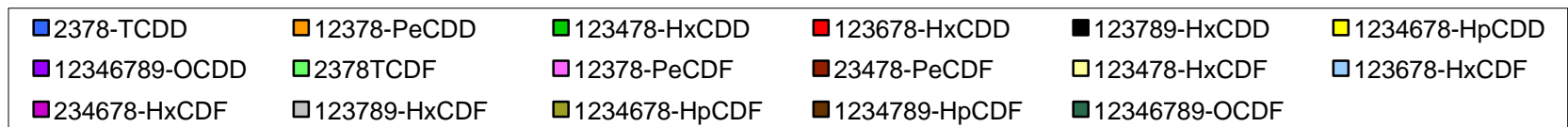
**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II TITTABAWASSEE RIVER AT SANFORD, MIDLAND COUNTY SOIL SAMPLES														
		II SFD 2-3					II SFD 2-6					II SFD 2-15				
		FINAL					FINAL					FINAL				
Analyte	TEF	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect
			pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		4.00	0.00	0.00	0.00		7.10	0.00	0.00	0.00		1.50	0.00	0.00	0.00
1379-TCDD	0		1.80	0.00	0.00	0.00		3.10	0.00	0.00	0.00	ND	0.90	0.00	0.00	0.00
2378-TCDD	1		1.20	1.20	1.20	1.20		2.10	2.10	2.10	2.10	ND	0.90	0.90	0.45	0.00
12378-PeCDD	0.5	J	1.00	0.50	0.50	0.50	ND,J	1.70	0.85	0.43	0.00	ND	0.70	0.35	0.18	0.00
123478-HxCDD	0.1	J	0.61	0.06	0.06	0.06	J	1.10	0.11	0.11	0.11	ND	0.70	0.07	0.04	0.00
123678-HxCDD	0.1	J	1.70	0.17	0.17	0.17	J	2.40	0.24	0.24	0.24	ND	0.60	0.06	0.03	0.00
123789-HxCDD	0.1	J	1.40	0.14	0.14	0.14	J	2.50	0.25	0.25	0.25	ND	0.60	0.06	0.03	0.00
1234678-HpCDD	0.01		13.40	0.13	0.13	0.13		21.00	0.21	0.21	0.21		5.50	0.06	0.06	0.06
12346789-OCDD	0.001		89.20	0.09	0.09	0.09		156.00	0.16	0.16	0.16		36.80	0.04	0.02	0.00
1368-TCDF	0	ND	0.10	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.70	0.00	0.00	0.00
2378TCDF	0.1	ND	0.50	0.05	0.03	0.00	ND	0.60	0.06	0.03	0.00	ND	0.70	0.07	0.04	0.00
12378-PeCDF	0.05	J	0.40	0.02	0.02	0.02	ND,J	0.60	0.03	0.02	0.00	ND	0.60	0.03	0.02	0.00
23478-PeCDF	0.5	J	0.43	0.22	0.22	0.22	J	0.66	0.33	0.33	0.33	ND	0.40	0.20	0.10	0.00
123478-HxCDF	0.1	J	0.98	0.10	0.10	0.10	J,B	1.70	0.17	0.17	0.17	ND	0.50	0.05	0.03	0.00
123678-HxCDF	0.1	J	0.53	0.05	0.05	0.05	J	0.81	0.08	0.08	0.08	ND	0.50	0.05	0.03	0.00
234678-HxCDF	0.1	J	0.72	0.07	0.07	0.07	J	1.00	0.10	0.10	0.10	ND	0.40	0.04	0.02	0.00
123789-HxCDF	0.1	J	0.12	0.01	0.01	0.01	J	0.15	0.02	0.02	0.02	ND	0.60	0.06	0.03	0.00
1234678-HpCDF	0.01	J	4.70	0.05	0.05	0.05		8.80	0.09	0.09	0.09	ND	2.00	0.02	0.01	0.00
1234789-HpCDF	0.01	J	0.31	0.00	0.00	0.00	J	0.72	0.01	0.01	0.01	ND	0.70	0.01	0.00	0.00
12346789-OCDF	0.001	J	6.30	0.01	0.01	0.01		14.80	0.01	0.01	0.01	ND	3.80	0.00	0.00	0.00
nondetects = detection limit			TEQ=	2.87				TEQ=	4.81				TEQ=	2.06		
nondetects = 1/2 d.l.			teq=		2.85			teq=		4.34			teq=		1.06	
nondetects = zero			teq=			2.82		teq=			3.87		teq=			0.06
Totals		Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number		
			pg/g					pg/g					pg/g			
TOTAL TCDD			8.80	5.00				15.90	6.00				1.50	1.00		
TOTAL PeCDD			8.00	9.00				12.30	9.00			ND	0.70			
TOTAL HxCDD			12.70	6.00				21.80	7.00				3.80	2.00		
TOTAL HpCDD			24.60	2.00				39.30	2.00				10.70	2.00		
TOTAL TCDF			25.30	6.00				40.00	4.00				7.40	1.00		
TOTAL PeCDF		X	5.70	8.00				11.30	8.00			ND	0.80			
TOTAL HxCDF			8.00	10.00				13.30	8.00				1.30	1.00		
TOTAL HpCDF			9.20	4.00				18.40	4.00				2.10	1.00		
% Finer than #200 Sieve			25.9					17.6					26.7			
% Total Organic Carbon			4.7					2.8					1.1			
% Solids			73					72					89			
Latitude			43.668928461N													
Longitude			84.384474954W													
Northing (MiGeoRef)			347692.4m													
Easting (MiGeoRef)			630083.7m													
Elevation (NAVD 1929 in feet)																

## TITTABAWASSEE RIVER PROJECT - T. RIVER AT SANFORD, MIDLAND COUNTY SOIL SAMPLES FOR DIOXIN



NON-DETECT = DETECTION LEVEL



TITABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - EMERSON PARK, MIDLAND COUNTY SOIL SAMPLES													
		II EMP 1-1 FINAL					II EMP 1-3 FINAL					II EMP 1-6 FINAL			
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.
1368-TCDD	0	ND	1.40	0.00	0.00	0.00	ND,Q	1.60	0.00	0.00	0.00	ND	1.10	0.00	0.00
1379-TCDD	0		3.80	0.00	0.00	0.00		2.90	0.00	0.00	0.00	ND	0.10	0.00	0.00
2378-TCDD	1		3.70	3.70	3.70	3.70	ND	3.00	3.00	1.50	0.00		1.60	1.60	1.60
12378-PeCDD	0.5	J	2.20	1.10	1.10	1.10	J	1.80	0.90	0.90	0.90	J	0.99	0.50	0.50
123478-HxCDD	0.1	J	1.80	0.18	0.18	0.18	J	1.50	0.15	0.15	0.15	J	0.76	0.08	0.08
123678-HxCDD	0.1	J	4.40	0.44	0.44	0.44	J	4.10	0.41	0.41	0.41	J	2.30	0.23	0.23
123789-HxCDD	0.1	J	4.40	0.44	0.44	0.44	J	3.50	0.35	0.35	0.35	J	1.90	0.19	0.19
1234678-HpCDD	0.01		57.50	0.58	0.58	0.58		47.40	0.47	0.47	0.47		43.30	0.43	0.43
12346789-OCDD	0.001		429.00	0.43	0.43	0.43		382.00	0.38	0.38	0.38		401.00	0.40	0.40
1368-TCDF	0	ND	0.07	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.09	0.00	0.00
2378TCDF	0.1		2.50	0.25	0.25	0.25		2.20	0.22	0.22	0.22		1.60	0.16	0.16
12378-PeCDF	0.05	J	2.10	0.11	0.11	0.11	J	2.60	0.13	0.13	0.13	J	1.50	0.08	0.08
23478-PeCDF	0.5	J	2.10	1.05	1.05	1.05	J	2.10	1.05	1.05	1.05	J	1.30	0.65	0.65
123478-HxCDF	0.1		5.60	0.56	0.56	0.56		5.70	0.57	0.57	0.57	J	3.00	0.30	0.30
123678-HxCDF	0.1	J	2.20	0.22	0.22	0.22	J	2.40	0.24	0.24	0.24	J	1.20	0.12	0.12
234678-HxCDF	0.1	J	2.60	0.26	0.26	0.26	J	3.00	0.30	0.30	0.30	J	1.60	0.16	0.16
123789-HxCDF	0.1	ND	0.20	0.02	0.01	0.00	J	0.23	0.02	0.02	0.02	J	0.14	0.01	0.01
1234678-HpCDF	0.01		29.50	0.30	0.30	0.30		27.00	0.27	0.27	0.27	J	17.40	0.17	0.17
1234789-HpCDF	0.01	J	1.50	0.02	0.02	0.02	J	1.30	0.01	0.01	0.01	J	0.97	0.01	0.01
12346789-OCDF	0.001		31.80	0.03	0.03	0.03		29.50	0.03	0.03	0.03		30.90	0.03	0.03
nondetects = detection limit			TEQ=	9.67				TEQ=	8.51				TEQ=	5.12	
nondetects = 1/2 d.l.			teq=		9.66			teq=		7.01			teq=		5.12
nondetects = zero			teq=			9.65		teq=			5.51		teq=		
Totals		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number	
TOTAL TCDD		Q	18.10	8.00			Q	11.10	5.00				9.10	8.00	
TOTAL PeCDD			19.80	10.00				18.30	9.00				10.80	10.00	
TOTAL HxCDD			51.50	7.00				46.30	6.00				24.60	7.00	
TOTAL HpCDD			108.00	2.00				87.90	2.00				70.90	2.00	
TOTAL TCDF			70.30	8.00				45.30	9.00				29.30	7.00	
TOTAL PeCDF		X	25.40	11.00				22.10	8.00				11.60	6.00	
TOTAL HxCDF			30.80	10.00				29.60	9.00				18.50	11.00	
TOTAL HpCDF			63.30	3.00				55.50	3.00				42.90	3.00	
% Finer than #200 Sieve			NS					57.7					55.4		
% Total Organic Carbon			NS					2.1					1.6		
% Solids			NS					72					84		
Latitude			43.618779223N												
Longitude			84.254056424W												
Northing (MiGeoRef)			342338.44m												
Easting (MiGeoRef)			640714.06m												
Elevation (NAVD 1929 in feet)															



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - EMERSON PARK, MIDLAND COUNTY SOIL SAMPLES													
		II EMP 1-15 FINAL						II EMP 2-1 FINAL						II EMP 2-3 FINAL	
Analyte	TEF	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level
1368-TCDD	0	0.00	ND,Q	7.60	0.00	0.00	0.00		8.50	0.00	0.00	0.00	ND,Q	2.50	0.00
1379-TCDD	0	0.00		7.60	0.00	0.00	0.00		8.20	0.00	0.00	0.00		3.20	0.00
2378-TCDD	1	1.60		8.90	8.90	8.90	8.90		6.30	6.30	6.30	6.30		5.70	5.70
12378-PeCDD	0.5	0.50	J	4.60	2.30	2.30	2.30	J	3.80	1.90	1.90	1.90	J	2.90	1.45
123478-HxCDD	0.1	0.08	J	3.30	0.33	0.33	0.33	J	2.90	0.29	0.29	0.29	J	2.50	0.25
123678-HxCDD	0.1	0.23		8.60	0.86	0.86	0.86		8.60	0.86	0.86	0.86		6.50	0.65
123789-HxCDD	0.1	0.19	J	8.20	0.82	0.82	0.82	J	7.40	0.74	0.74	0.74	J	6.60	0.66
1234678-HpCDD	0.01	0.43		86.80	0.87	0.87	0.87		120.00	1.20	1.20	1.20		95.80	0.96
12346789-OCDD	0.001	0.40		692.00	0.69	0.69	0.69		958.00	0.96	0.96	0.96		710.00	0.71
1368-TCDF	0	0.00	ND	0.10	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00
2378TCDF	0.1	0.16		8.20	0.82	0.82	0.82		15.70	1.57	1.57	1.57		27.60	2.76
12378-PeCDF	0.05	0.08	J	4.60	0.23	0.23	0.23		12.20	0.61	0.61	0.61		26.50	1.33
23478-PeCDF	0.5	0.65	J	3.80	1.90	1.90	1.90		5.50	2.75	2.75	2.75		10.90	5.45
123478-HxCDF	0.1	0.30		10.90	1.09	1.09	1.09		35.70	3.57	3.57	3.57		60.50	6.05
123678-HxCDF	0.1	0.12	J	4.20	0.42	0.42	0.42	B	7.00	0.70	0.70	0.70		10.40	1.04
234678-HxCDF	0.1	0.16		5.10	0.51	0.51	0.51		6.20	0.62	0.62	0.62		5.70	0.57
123789-HxCDF	0.1	0.01	J	1.10	0.11	0.11	0.11	J	0.58	0.06	0.06	0.06	ND,J	0.80	0.08
1234678-HpCDF	0.01	0.17		58.00	0.58	0.58	0.58		73.20	0.73	0.73	0.73		70.00	0.70
1234789-HpCDF	0.01	0.01	J	3.50	0.04	0.04	0.04		8.20	0.08	0.08	0.08		11.90	0.12
12346789-OCDF	0.001	0.03		56.70	0.06	0.06	0.06		128.00	0.13	0.13	0.13		115.00	0.12
nondetects = detection limit				TEQ=	20.52				TEQ=	23.07				TEQ=	28.59
nondetects = 1/2 d.l.				teq=		20.52			teq=		23.07			teq=	
nondetects = zero		5.12		teq=			20.52		teq=			23.07		teq=	
Totals			Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number
				pg/g					pg/g					pg/g	
TOTAL TCDD			Q	31.70	4.00			Q	36.70	7.00			Q	14.40	6.00
TOTAL PeCDD				36.90	12.00				27.40	8.00				21.00	13.00
TOTAL HxCDD				99.40	7.00				65.40	7.00				65.10	9.00
TOTAL HpCDD				162.00	2.00				225.00	2.00				176.00	2.00
TOTAL TCDF				128.00	10.00				113.00	11.00				84.80	9.00
TOTAL PeCDF				33.90	9.00				53.10	12.00				74.60	12.00
TOTAL HxCDF				51.90	11.00				97.40	10.00				112.00	9.00
TOTAL HpCDF				118.00	3.00				151.00	4.00				158.00	3.00
% Finer than #200 Sieve				74.4					NS					27.1	
% Total Organic Carbon				2.2					NS					1.2	
% Solids				79					NS					90	
Latitude									43.618126703N						
Longitude									84.253732471W						
Northing (MiGeoRef)									342266.54m						
Easting (MiGeoRef)									640741.73m						
Elevation (NAVD 1929 in feet)															

TITABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - EMERSON PARK, MIDLAND COUNTY SOIL SAMPLES													
						II EMP 2-6 FINAL				II EMP 2-15 FINAL					
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g
1368-TCDD	0	0.00	0.00	ND,Q	5.90	0.00	0.00	0.00		53.20	0.00	0.00	0.00		7.30
1379-TCDD	0	0.00	0.00		10.50	0.00	0.00	0.00		14.80	0.00	0.00	0.00		3.90
2378-TCDD	1	5.70	5.70		15.10	15.10	15.10	15.10		17.10	17.10	17.10	17.10		3.90
12378-PeCDD	0.5	1.45	1.45		5.20	2.60	2.60	2.60		9.30	4.65	4.65	4.65	J	3.20
123478-HxCDD	0.1	0.25	0.25	J	3.60	0.36	0.36	0.36		5.90	0.59	0.59	0.59	J	2.30
123678-HxCDD	0.1	0.65	0.65		10.80	1.08	1.08	1.08		18.20	1.82	1.82	1.82		7.30
123789-HxCDD	0.1	0.66	0.66	J	9.90	0.99	0.99	0.99		13.50	1.35	1.35	1.35	J	6.30
1234678-HpCDD	0.01	0.96	0.96		153.00	1.53	1.53	1.53		227.00	2.27	2.27	2.27		110.00
12346789-OCDD	0.001	0.71	0.71		1230.00	1.23	1.23	1.23		1840.00	1.84	1.84	1.84		871.00
1368-TCDF	0	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.50
2378TCDF	0.1	2.76	2.76		45.10	4.51	4.51	4.51		91.80	9.18	9.18	9.18		5.00
12378-PeCDF	0.05	1.33	1.33		41.30	2.07	2.07	2.07		92.20	4.61	4.61	4.61	ND	5.20
23478-PeCDF	0.5	5.45	5.45		16.00	8.00	8.00	8.00		54.40	27.20	27.20	27.20	J	4.70
123478-HxCDF	0.1	6.05	6.05		110.00	11.00	11.00	11.00		217.00	21.70	21.70	21.70		8.40
123678-HxCDF	0.1	1.04	1.04		17.20	1.72	1.72	1.72		33.20	3.32	3.32	3.32	J	3.90
234678-HxCDF	0.1	0.57	0.57		9.80	0.98	0.98	0.98		24.20	2.42	2.42	2.42		6.10
123789-HxCDF	0.1	0.04	0.00	J	1.10	0.11	0.11	0.11	J	3.10	0.31	0.31	0.31	ND	0.50
1234678-HpCDF	0.01	0.70	0.70		118.00	1.18	1.18	1.18		269.00	2.69	2.69	2.69		44.20
1234789-HpCDF	0.01	0.12	0.12		22.10	0.22	0.22	0.22		45.20	0.45	0.45	0.45	ND	2.60
12346789-OCDF	0.001	0.12	0.12		235.00	0.24	0.24	0.24		615.00	0.62	0.62	0.62		74.10
nondetects = detection limit					TEQ=	52.91				TEQ=	102.12				TEQ=
nondetects = 1/2 d.l.		28.55			teq=		52.91			teq=		102.12			teq=
nondetects = zero			28.51		teq=			52.91		teq=			102.12		teq=
Totals				Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g
TOTAL TCDD				Q	52.70	7				113.00	9				20.00
TOTAL PeCDD					41.50	11				84.60	10				21.20
TOTAL HxCDD					99.90	8				140.00	7				58.80
TOTAL HpCDD					283.00	2				415.00	2				212.00
TOTAL TCDF					196.00	13				477.00	15				63.80
TOTAL PeCDF					118.00	12				425.00	12				55.10
TOTAL HxCDF					206.00	12				506.00	13				83.50
TOTAL HpCDF					257.00	3				571.00	4				99.20
% Finer than #200 Sieve					35.3					36.7					NS
% Total Organic Carbon					1.4					1.0					NS
% Solids					87					76					NS
Latitude															43.618046341N
Longitude															84.257070167W
Northing (MiGeoRef)															342251.91m
Easting (MiGeoRef)															640472.66m
Elevation (NAVD 1929 in feet)															

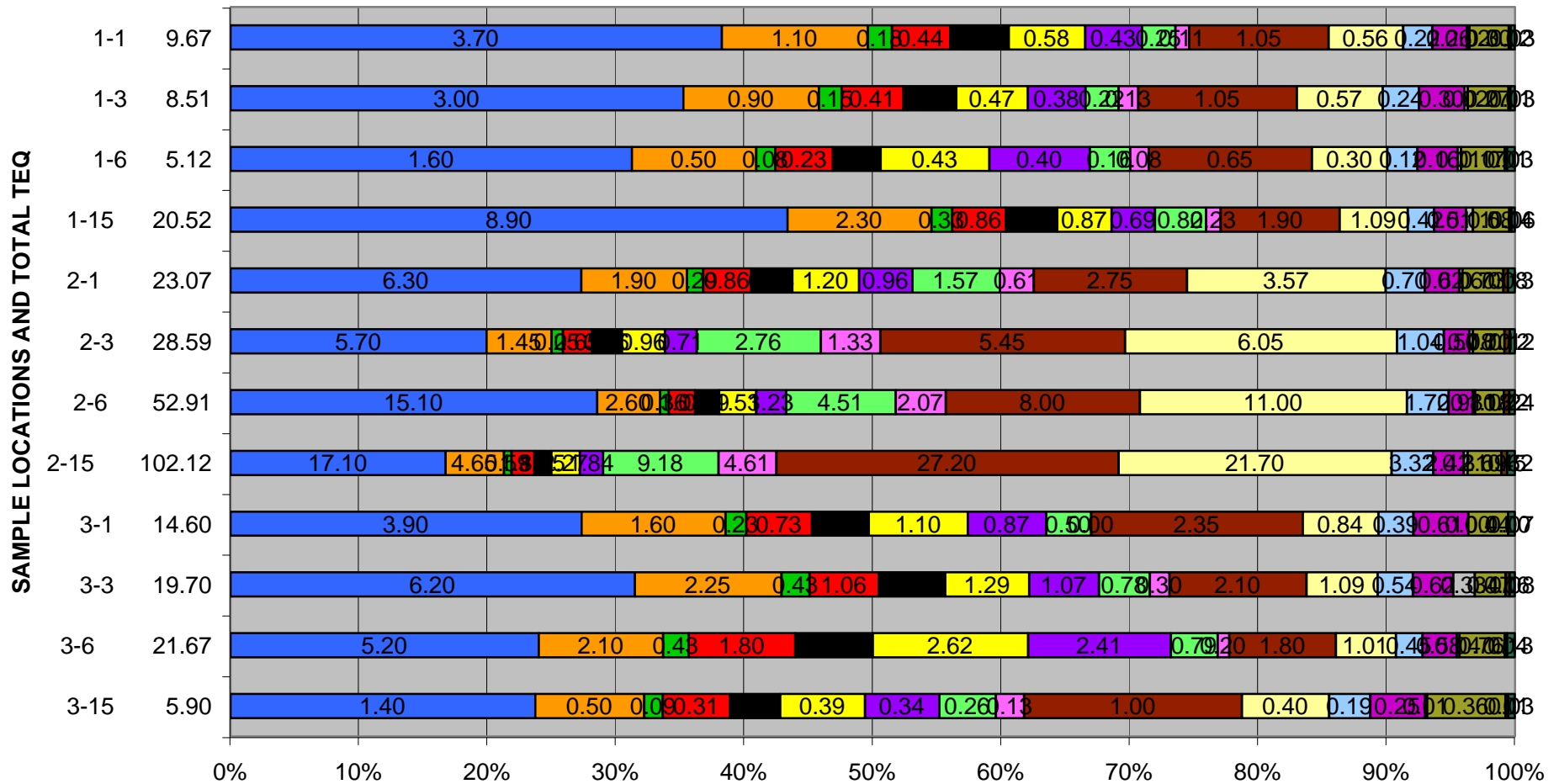
**TITABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - EMERSON PARK, MIDLAND COUNTY SOIL SAMPLES														
		II EMP 3-1 FINAL				II EMP 3-3 FINAL				II EMP 3-6 FINAL						
Analyte	TEF	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g
1368-TCDD	0	0.00	0.00	0.00		3.80	0.00	0.00	0.00		5.90	0.00	0.00	0.00	ND,J	0.90
1379-TCDD	0	0.00	0.00	0.00		3.40	0.00	0.00	0.00		6.00	0.00	0.00	0.00		1.30
2378-TCDD	1	3.90	3.90	3.90		6.20	6.20	6.20	6.20		5.20	5.20	5.20	5.20		1.40
12378-PeCDD	0.5	1.60	1.60	1.60	J	4.50	2.25	2.25	2.25	J	4.20	2.10	2.10	2.10	ND,J	1.00
123478-HxCDD	0.1	0.23	0.23	0.23	J	4.30	0.43	0.43	0.43	J	4.30	0.43	0.43	0.43	J	0.85
123678-HxCDD	0.1	0.73	0.73	0.73		10.60	1.06	1.06	1.06		18.00	1.80	1.80	1.80	J	3.10
123789-HxCDD	0.1	0.63	0.63	0.63		10.20	1.02	1.02	1.02		13.10	1.31	1.31	1.31	J	2.30
1234678-HpCDD	0.01	1.10	1.10	1.10		129.00	1.29	1.29	1.29		262.00	2.62	2.62	2.62		38.90
12346789-OCDD	0.001	0.87	0.87	0.87		1070.00	1.07	1.07	1.07		2410.00	2.41	2.41	2.41		341.00
1368-TCDF	0	0.00	0.00	0.00	ND	0.07	0.00	0.00	0.00	ND	0.09	0.00	0.00	0.00	ND	0.20
2378TCDF	0.1	0.50	0.50	0.50		7.80	0.78	0.78	0.78		7.90	0.79	0.79	0.79		2.60
12378-PeCDF	0.05	0.26	0.13	0.00		6.00	0.30	0.30	0.30	J	3.90	0.20	0.20	0.20	J	2.60
23478-PeCDF	0.5	2.35	2.35	2.35	J	4.20	2.10	2.10	2.10	J	3.60	1.80	1.80	1.80	J	2.00
123478-HxCDF	0.1	0.84	0.84	0.84		10.90	1.09	1.09	1.09		10.10	1.01	1.01	1.01	J	4.00
123678-HxCDF	0.1	0.39	0.39	0.39		5.40	0.54	0.54	0.54	J	4.50	0.45	0.45	0.45	J	1.90
234678-HxCDF	0.1	0.61	0.61	0.61		6.20	0.62	0.62	0.62		5.80	0.58	0.58	0.58	J	2.50
123789-HxCDF	0.1	0.05	0.07	0.00	J	3.30	0.33	0.33	0.33	J	0.42	0.04	0.04	0.04	J	0.11
1234678-HpCDF	0.01	0.44	0.44	0.44		47.00	0.47	0.47	0.47		76.30	0.76	0.76	0.76		35.90
1234789-HpCDF	0.01	0.03	0.01	0.00		6.40	0.06	0.06	0.06	J	4.30	0.04	0.04	0.04	J	1.20
12346789-OCDF	0.001	0.07	0.07	0.07		82.30	0.08	0.08	0.08		131.00	0.13	0.13	0.13		31.50
nondetects = detection limit		14.60				TEQ=	19.70				TEQ=	21.67				TEQ=
nondetects = 1/2 d.l.			14.48			teq=		19.70			teq=		21.67			teq=
nondetects = zero				14.27		teq=			19.70		teq=			21.67		teq=
Totals		Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g
TOTAL TCDD		4			Q	26.6	7				44.2	10			Q	7.4
TOTAL PeCDD		5				30.4	11				65.8	10				9.7
TOTAL HxCDD		6				73.4	7				126.0	7				33.3
TOTAL HpCDD		2				240.0	2				520.0	2				72.2
TOTAL TCDF		7			X	80.5	17			X	112.0	15			Q,X	31.6
TOTAL PeCDF		6			X	36.2	12				46.5	11				18.7
TOTAL HxCDF		7				57.1	12				80.9	11				27.4
TOTAL HpCDF		2				118.0	4				188.0	4				66.9
% Finer than #200 Sieve						28.4					33.5					25.7
% Total Organic Carbon						1.5					0.9					0.4
% Solids						88					88					92
Latitude																
Longitude																
Northing (MiGeoRef)																
Easting (MiGeoRef)																
Elevation (NAVD 1929 in feet)																

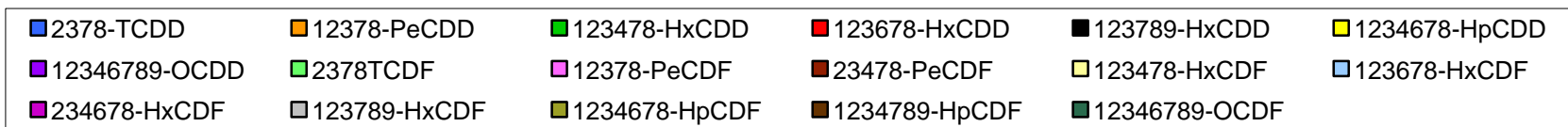
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02				
		II EMP 3-15		
		FINAL		
Analyte	TEF	nondetect	nondetect	nondetect
		detection level	1/2 d.l.	zero
1368-TCDD	0	0.00	0.00	0.00
1379-TCDD	0	0.00	0.00	0.00
2378-TCDD	1	1.40	1.40	1.40
12378-PeCDD	0.5	0.50	0.25	0.00
123478-HxCDD	0.1	0.09	0.09	0.09
123678-HxCDD	0.1	0.31	0.31	0.31
123789-HxCDD	0.1	0.23	0.23	0.23
1234678-HpCDD	0.01	0.39	0.39	0.39
12346789-OCDD	0.001	0.34	0.34	0.34
1368-TCDF	0	0.00	0.00	0.00
2378TCDF	0.1	0.26	0.26	0.26
12378-PeCDF	0.05	0.13	0.13	0.13
23478-PeCDF	0.5	1.00	1.00	1.00
123478-HxCDF	0.1	0.40	0.40	0.40
123678-HxCDF	0.1	0.19	0.19	0.19
234678-HxCDF	0.1	0.25	0.25	0.25
123789-HxCDF	0.1	0.01	0.01	0.01
1234678-HpCDF	0.01	0.36	0.36	0.36
1234789-HpCDF	0.01	0.01	0.01	0.01
12346789-OCDF	0.001	0.03	0.03	0.03
nondetects = detection limit		5.90		
nondetects = 1/2 d.l.			5.65	
nondetects = zero				5.40
Totals		Number		
TOTAL TCDD		7.0000		
TOTAL PeCDD		6.0000		
TOTAL HxCDD		6.0000		
TOTAL HpCDD		2.0000		
TOTAL TCDF		8.0000		
TOTAL PeCDF		10.0000		
TOTAL HxCDF		9.0000		
TOTAL HpCDF		3.0000		
% Finer than #200 Sieve				
% Total Organic Carbon				
% Solids				
Latitude				
Longitude				
Northing (MiGeoRef)				
Easting (MiGeoRef)				
Elevation (NAVD 1929 in feet)				

## TITTABAWASSEE RIVER PROJECT - EMERSON PARK, MIDLAND COUNTY SOIL SAMPLES FOR DIOXIN



NON-DETECT = DETECTION LEVEL



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 1-1 UNDILUTED			II CBL 1-1 DILUTED					II CBL 1-1 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		4.3						4.3	0.00	0.00	0.00
1379-TCDD	0		1.5						1.5	0.00	0.00	0.00
2378-TCDD	1	J	0.91					J	0.91	0.91	0.91	0.91
12378-PeCDD	0.5	ND	1.1					ND	1.1	0.55	0.28	0.00
123478-HxCDD	0.1	J	0.66					J	0.66	0.07	0.07	0.07
123678-HxCDD	0.1	J	3.1					J	3.1	0.31	0.31	0.31
123789-HxCDD	0.1	J	1.9					J	1.9	0.19	0.19	0.19
1234678-HpCDD	0.01		65.3						65.3	0.65	0.65	0.65
12346789-OCDD	0.001		598						598	0.60	0.60	0.60
1368-TCDF	0	ND	0.2					ND	0.2	0.00	0.00	0.00
2378TCDF	0.1		85.6						85.6	8.56	8.56	8.56
12378-PeCDF	0.05		42						42	2.10	2.10	2.10
23478-PeCDF	0.5		31.4						31.4	15.70	15.70	15.70
123478-HxCDF	0.1		45.6						45.6	4.56	4.56	4.56
123678-HxCDF	0.1		8.8						8.8	0.88	0.88	0.88
234678-HxCDF	0.1		5.8						5.8	0.58	0.58	0.58
123789-HxCDF	0.1	J	0.72					J	0.72	0.07	0.07	0.07
1234678-HpCDF	0.01		86.8						86.8	0.87	0.87	0.87
1234789-HpCDF	0.01		7.6						7.6	0.08	0.08	0.08
12346789-OCDF	0.001		147						147	0.15	0.15	0.15
nondetects = detection limit									TEQ=	36.82		
nondetects = 1/2 d.l.									teq=		36.55	
nondetects = zero									teq=			36.27
<b>Totals</b>		<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>	<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>	<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>		
TOTAL TCDD			7.9	4.0		7.9	4		7.9	4		
TOTAL PeCDD			8.3	4.0		8.3	4		8.3	4		
TOTAL HxCDD			21.0	6.0		21.0	6		21.0	6		
TOTAL HpCDD			118.0	2.0		118.0	2		118.0	2		
TOTAL TCDF			207.0	13.0		207.0	13		207.0	13		
TOTAL PeCDF			148.0	9.0		148.0	9		148.0	9		
TOTAL HxCDF			111.0	10.0		111.0	10		111.0	10		
TOTAL HpCDF			208.0	3.0		208.0	3		208.0	3		
<b>% Finer than #200 Sieve</b>									NS			
<b>% Total Organic Carbon</b>									NS			
<b>% Solids</b>									NS			
Latitude									43.570056197N			
Longitude									84.194778133W			
Northing (MiGeoRef)									337031.34m			
Easting (MiGeoRef)									645614.55m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 1-3 UNDILUTED			II CBL 1-3 DILUTED					II CBL 1-3 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		5.1						5.1	0.00	0.00	0.00
1379-TCDD	0		1.8						1.8	0.00	0.00	0.00
2378-TCDD	1		2.8						2.8	2.80	2.80	2.80
12378-PeCDD	0.5	J	2.6					J	2.6	1.30	1.30	1.30
123478-HxCDD	0.1	J	2.2					J	2.2	0.22	0.22	0.22
123678-HxCDD	0.1		16.6						16.6	1.66	1.66	1.66
123789-HxCDD	0.1	J	7.2					J	7.2	0.72	0.72	0.72
1234678-HpCDD	0.01		281						281	2.81	2.81	2.81
12346789-OCDD	0.001		3470						3470	3.47	3.47	3.47
1368-TCDF	0	ND	0.1					ND	0.1	0.00	0.00	0.00
2378TCDF	0.1		332						332	33.20	33.20	33.20
12378-PeCDF	0.05		234						234	11.70	11.70	11.70
23478-PeCDF	0.5		119						119	59.50	59.50	59.50
123478-HxCDF	0.1		169						169	16.90	16.90	16.90
123678-HxCDF	0.1		39.6						39.6	3.96	3.96	3.96
234678-HxCDF	0.1		20						20	2.00	2.00	2.00
123789-HxCDF	0.1		5.1						5.1	0.51	0.51	0.51
1234678-HpCDF	0.01		344						344	3.44	3.44	3.44
1234789-HpCDF	0.01		33.9						33.9	0.34	0.34	0.34
12346789-OCDF	0.001		658						658	0.66	0.66	0.66
nondetects = detection limit									TEQ=	145.19		
nondetects = 1/2 d.l.									teq=		145.19	
nondetects = zero									teq=			145.19
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
						pg/g			pg/g			
TOTAL TCDD			23.9	11.0					23.9	11.0		
TOTAL PeCDD			188.0	5.0					188.0	5.0		
TOTAL HxCDD			116.0	7.0					116.0	7.0		
TOTAL HpCDD			505.0	2.0					505.0	2.0		
TOTAL TCDF			712.0	15.0					712.0	15.0		
TOTAL PeCDF			546.0	14.0					546.0	14.0		
TOTAL HxCDF			388.0	12.0					388.0	12.0		
TOTAL HpCDF			961.0	3.0					961.0	3.0		
% Finer than #200 Sieve									37.1			
% Total Organic Carbon									1.6			
% Solids									77			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 1-6 UNDILUTED			II CBL 1-6 DILUTED			II CBL 1-6 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		3.40						3.40	0.00	0.00	0.00
1379-TCDD	0		3.10						3.10	0.00	0.00	0.00
2378-TCDD	1		3.30						3.30	3.30	3.30	3.30
12378-PeCDD	0.5		6.90						6.90	3.45	3.45	3.45
123478-HxCDD	0.1		6.10						6.10	0.61	0.61	0.61
123678-HxCDD	0.1		45.20						45.20	4.52	4.52	4.52
123789-HxCDD	0.1		19.80						19.80	1.98	1.98	1.98
1234678-HpCDD	0.01		539.00						539.00	5.39	5.39	5.39
12346789-OCDD	0.001	E	6310.00			4130			4130.00	4.13	4.13	4.13
1368-TCDF	0	ND	0.10					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	342.00			215			215.00	21.50	21.50	21.50
12378-PeCDF	0.05		180.00						180.00	9.00	9.00	9.00
23478-PeCDF	0.5		127.00						127.00	63.50	63.50	63.50
123478-HxCDF	0.1		151.00						151.00	15.10	15.10	15.10
123678-HxCDF	0.1		36.40						36.40	3.64	3.64	3.64
234678-HxCDF	0.1		26.40						26.40	2.64	2.64	2.64
123789-HxCDF	0.1	J	4.00					J	4.00	0.40	0.40	0.40
1234678-HpCDF	0.01		479.00						479.00	4.79	4.79	4.79
1234789-HpCDF	0.01		56.70						56.70	0.57	0.57	0.57
12346789-OCDF	0.001		1240.00						1240.00	1.24	1.24	1.24
nondetects = detection limit									TEQ=	145.76		
nondetects = 1/2 d.l.									teq=		145.76	
nondetects = zero									teq=			145.76
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			28.1	9.0					28.1	9.0		
TOTAL PeCDD			79.9	9.0					79.9	9.0		
TOTAL HxCDD			342.0	7.0					342.0	7.0		
TOTAL HpCDD			911.0	2.0					911.0	2.0		
TOTAL TCDF		E	857.0	11.0		493.0	3.0		493.0	3.0		
TOTAL PeCDF			549.0	11.0					549.0	11.0		
TOTAL HxCDF			515.0	10.0					515.0	10.0		
TOTAL HpCDF			1770.0	4.0					1770.0	4.0		
% Finer than #200 Sieve									31			
% Total Organic Carbon									1.2			
% Solids									80			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 1-15 UNDILUTED			II CBL 1-15 DILUTED			II CBL 1-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		1.10						1.10	0.00	0.00	0.00
1379-TCDD	0		2.90						2.90	0.00	0.00	0.00
2378-TCDD	1		3.00						3.00	3.00	3.00	3.00
12378-PeCDD	0.5	J	3.20					J	3.20	1.60	1.60	1.60
123478-HxCDD	0.1	J	1.80					J	1.80	0.18	0.18	0.18
123678-HxCDD	0.1		18.30						18.30	1.83	1.83	1.83
123789-HxCDD	0.1	J	7.40					J	7.40	0.74	0.74	0.74
1234678-HpCDD	0.01		327.00						327.00	3.27	3.27	3.27
12346789-OCDD	0.001		3590.00						3590.00	3.59	3.59	3.59
1368-TCDF	0	ND	0.10					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	834.00			637			637.00	63.70	63.70	63.70
12378-PeCDF	0.05		390.00						390.00	19.50	19.50	19.50
23478-PeCDF	0.5		266.00						266.00	133.00	133.00	133.00
123478-HxCDF	0.1		257.00						257.00	25.70	25.70	25.70
123678-HxCDF	0.1		57.70						57.70	5.77	5.77	5.77
234678-HxCDF	0.1		37.70						37.70	3.77	3.77	3.77
123789-HxCDF	0.1		5.50						5.50	0.55	0.55	0.55
1234678-HpCDF	0.01		689.00						689.00	6.89	6.89	6.89
1234789-HpCDF	0.01		39.40						39.40	0.39	0.39	0.39
12346789-OCDF	0.001		1050.00						1050.00	1.05	1.05	1.05
nondetects = detection limit									TEQ=	274.53		
nondetects = 1/2 d.l.									teq=		274.53	
nondetects = zero									teq=			274.53
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			12.2	5.0					12.2	5.0		
TOTAL PeCDD			35.6	6.0					35.6	6.0		
TOTAL HxCDD			136.0	7.0					136.0	7.0		
TOTAL HpCDD			571.0	2.0					571.0	2.0		
TOTAL TCDF		E	1800.0	12.0		1530.0	5.0		1530.0	5.0		
TOTAL PeCDF			1030.0	11.0					1030.0	11.0		
TOTAL HxCDF			59.0	10.0					59.0	10.0		
TOTAL HpCDF			1530.0	4.0					1530.0	4.0		
% Finer than #200 Sieve									40.3			
% Total Organic Carbon									0.91			
% Solids									82			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 2-1 UNDILUTED			II CBL 2-1 DILUTED			II CBL 2-1 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		14.8						14.8	0.00	0.00	0.00
1379-TCDD	0		7.5						7.5	0.00	0.00	0.00
2378-TCDD	1		4.6						4.6	4.60	4.60	4.60
12378-PeCDD	0.5		5.4						5.4	2.70	2.70	2.70
123478-HxCDD	0.1	J	3.4				J	J	3.4	0.34	0.34	0.34
123678-HxCDD	0.1		23.8						23.8	2.38	2.38	2.38
123789-HxCDD	0.1	J	9.5				J	J	9.5	0.95	0.95	0.95
1234678-HpCDD	0.01		393						393	3.93	3.93	3.93
12346789-OCDD	0.001		3520						3520	3.52	3.52	3.52
1368-TCDF	0	ND	0.2				ND	ND	0.2	0.00	0.00	0.00
2378TCDF	0.1		322						322	32.20	32.20	32.20
12378-PeCDF	0.05		202						202	10.10	10.10	10.10
23478-PeCDF	0.5		140						140	70.00	70.00	70.00
123478-HxCDF	0.1		238						238	23.80	23.80	23.80
123678-HxCDF	0.1		44.8						44.8	4.48	4.48	4.48
234678-HxCDF	0.1		27.2						27.2	2.72	2.72	2.72
123789-HxCDF	0.1	J	4.7				J	J	4.7	0.47	0.47	0.47
1234678-HpCDF	0.01		833						833	8.33	8.33	8.33
1234789-HpCDF	0.01		42.3						42.3	0.42	0.42	0.42
12346789-OCDF	0.001		907						907	0.91	0.91	0.91
nondetects = detection limit									TEQ=	171.85		
nondetects = 1/2 d.l.									teq=		171.85	
nondetects = zero									teq=			171.85
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			40.7	7					40.7	7		
TOTAL PeCDD			48.4	9					48.4	9		
TOTAL HxCDD			122.0	6					122.0	6		
TOTAL HpCDD			693.0	2					693.0	2		
TOTAL TCDF			724.0	11					724.0	11		
TOTAL PeCDF			654.0	14					654.0	14		
TOTAL HxCDF			631.0	11					631.0	11		
TOTAL HpCDF			1830.0	3					1830.0	3		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude									43.570318477N			
Longitude									84.194127167W			
Northing (MiGeoRef)									337061.62m			
Easting (MiGeoRef)									645666.46m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 2-3 UNDILUTED			II CBL 2-3 DILUTED			II CBL 2-3 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		18.0						18	0.00	0.00	0.00
1379-TCDD	0		11.1						11.1	0.00	0.00	0.00
2378-TCDD	1		6.2						6.2	6.20	6.20	6.20
12378-PeCDD	0.5		7.8						7.8	3.90	3.90	3.90
123478-HxCDD	0.1		5.9						5.9	0.59	0.59	0.59
123678-HxCDD	0.1		27.2						27.2	2.72	2.72	2.72
123789-HxCDD	0.1		15.6						15.6	1.56	1.56	1.56
1234678-HpCDD	0.01		536.0						536	5.36	5.36	5.36
12346789-OCDD	0.001	E	5140.0			6270			6270	6.27	6.27	6.27
1368-TCDF	0	ND	0.2					ND	0.2	0.00	0.00	0.00
2378TCDF	0.1		361.0						361	36.10	36.10	36.10
12378-PeCDF	0.05		185.0						185	9.25	9.25	9.25
23478-PeCDF	0.5		141.0						141	70.50	70.50	70.50
123478-HxCDF	0.1		227.0						227	22.70	22.70	22.70
123678-HxCDF	0.1		45.2						45.2	4.52	4.52	4.52
234678-HxCDF	0.1		30.0						30	3.00	3.00	3.00
123789-HxCDF	0.1		5.1						5.1	0.51	0.51	0.51
1234678-HpCDF	0.01		934.0						934	9.34	9.34	9.34
1234789-HpCDF	0.01		50.9						50.9	0.51	0.51	0.51
12346789-OCDF	0.001		11.5						11.5	0.01	0.01	0.01
nondetects = detection limit									TEQ=	183.04		
nondetects = 1/2 d.l.									teq=		183.04	
nondetects = zero									teq=			183.04
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			53.8	6					53.8	6		
TOTAL PeCDD			63.8	8					63.8	8		
TOTAL HxCDD			169.0	7					169.0	7		
TOTAL HpCDD			912.0	2					912.0	2		
TOTAL TCDF			808.0	13					808.0	13		
TOTAL PeCDF			661.0	12					661.0	12		
TOTAL HxCDF			691.0	10					691.0	10		
TOTAL HpCDF			1970.0	3					1970.0	3		
% Finer than #200 Sieve									60.5			
% Total Organic Carbon									2.5			
% Solids									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

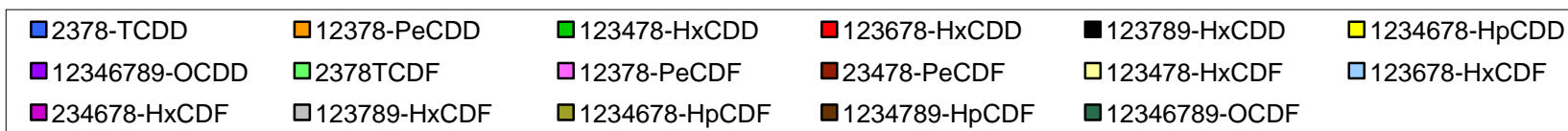
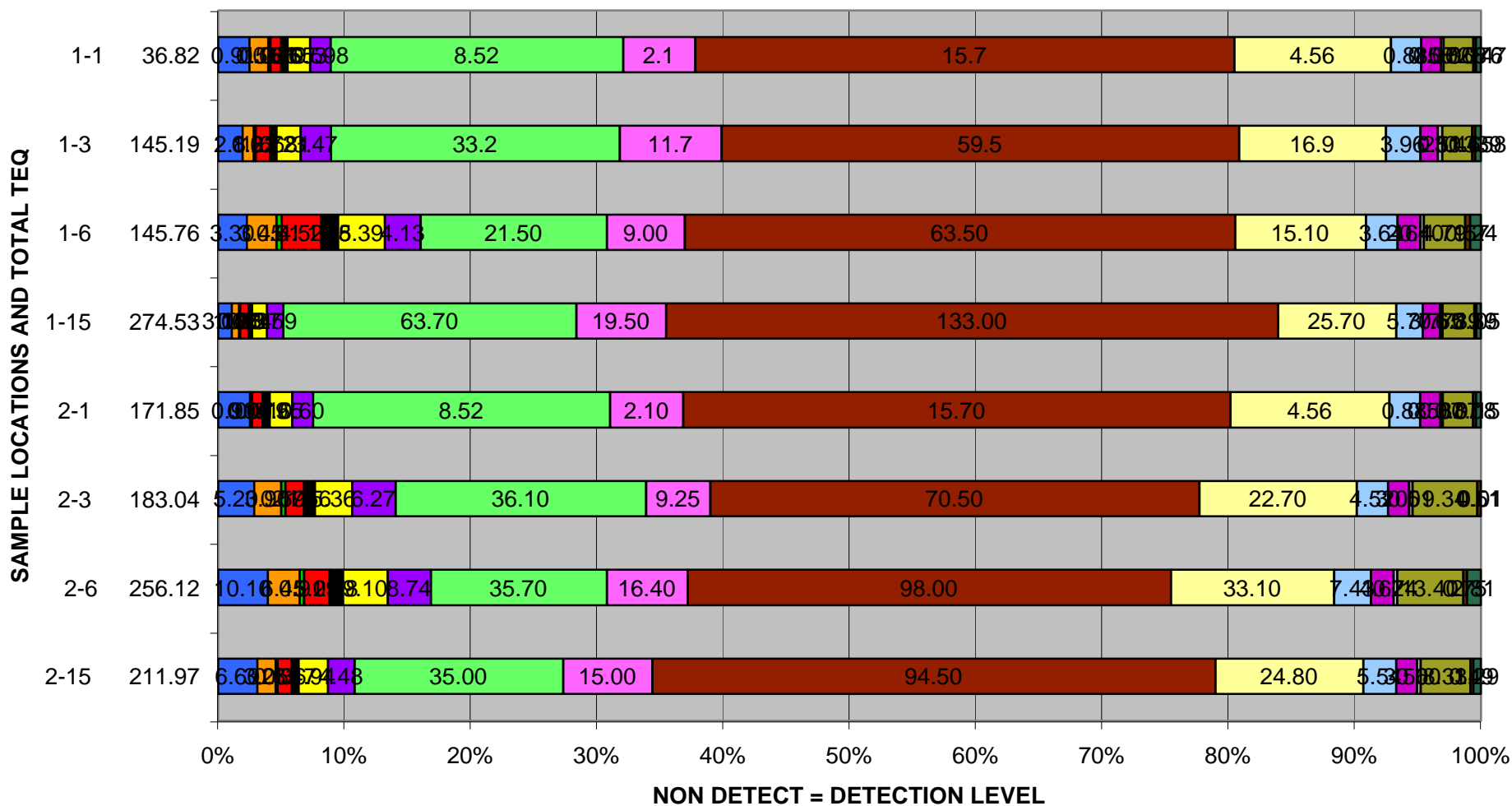
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 2-6 UNDILUTED			II CBL 2-6 DILUTED			II CBL 2-6 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	7.4					ND	7.4	0.00	0.00	0.00
1379-TCDD	0		15.1						15.1	0.00	0.00	0.00
2378-TCDD	1		10.1						10.1	10.10	10.10	10.10
12378-PeCDD	0.5		12.9						12.9	6.45	6.45	6.45
123478-HxCDD	0.1		9.1						9.1	0.91	0.91	0.91
123678-HxCDD	0.1		50.9						50.9	5.09	5.09	5.09
123789-HxCDD	0.1		27.8						27.8	2.78	2.78	2.78
1234678-HpCDD	0.01		910						910	9.10	9.10	9.10
12346789-OCDD	0.001	E	9160			8740			8740	8.74	8.74	8.74
1368-TCDF	0	ND	0.1					ND	0.1	0.00	0.00	0.00
2378TCDF	0.1	E	513			357			357	35.70	35.70	35.70
12378-PeCDF	0.05		328						328	16.40	16.40	16.40
23478-PeCDF	0.5		196						196	98.00	98.00	98.00
123478-HxCDF	0.1		331						331	33.10	33.10	33.10
123678-HxCDF	0.1		74.3						74.3	7.43	7.43	7.43
234678-HxCDF	0.1		46.2						46.2	4.62	4.62	4.62
123789-HxCDF	0.1		7.4						7.4	0.74	0.74	0.74
1234678-HpCDF	0.01	E	2370			1340			1340	13.40	13.40	13.40
1234789-HpCDF	0.01		75.3						75.3	0.75	0.75	0.75
12346789-OCDF	0.001		2810						2810	2.81	2.81	2.81
nondetects = detection limit									TEQ=	256.12		
nondetects = 1/2 d.l.									teq=		256.12	
nondetects = zero									teq=			256.12
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			73.0	9.0					73.0	9.0		
TOTAL PeCDD			135.0	8.0					135.0	8.0		
TOTAL HxCDD			417.0	9.0					417.0	9.0		
TOTAL HpCDD			1570.0	2.0					1570.0	2.0		
TOTAL TCDF		E	1180.0	14.0		944.0	9.0		944.0	9.0		
TOTAL PeCDF			913.0	16.0					913.0	16.0		
TOTAL HxCDF			1090.0	13.0					1090.0	13.0		
TOTAL HpCDF		E	5060.0	4.0		3280.0	3.0		3280.0	3.0		
% Finer than #200 Sieve										58.9		
% Total Organic Carbon										1.4		
% Solids										82		
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES										
		II CBL 2-15 UNDILUTED			II CBL 2-15 DILUTED			II CBL 2-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		3.6						3.60	0.00	0.00	0.00
1379-TCDD	0		4.2						4.20	0.00	0.00	0.00
2378-TCDD	1		6.6						6.60	6.60	6.60	6.60
12378-PeCDD	0.5		6.1						6.10	3.05	3.05	3.05
123478-HxCDD	0.1	J	3.2				J	J	3.20	0.32	0.32	0.32
123678-HxCDD	0.1		23.6						23.60	2.36	2.36	2.36
123789-HxCDD	0.1		11.7						11.70	1.17	1.17	1.17
1234678-HpCDD	0.01		494						494.00	4.94	4.94	4.94
12346789-OCDD	0.001	E	5130			4480			4480.00	4.48	4.48	4.48
1368-TCDF	0	ND	0.1					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	570			350			350.00	35.00	35.00	35.00
12378-PeCDF	0.05		300						300.00	15.00	15.00	15.00
23478-PeCDF	0.5		189						189.00	94.50	94.50	94.50
123478-HxCDF	0.1		248						248.00	24.80	24.80	24.80
123678-HxCDF	0.1		55.4						55.40	5.54	5.54	5.54
234678-HxCDF	0.1		35						35.00	3.50	3.50	3.50
123789-HxCDF	0.1	ND	6					ND	6.00	0.60	0.30	0.00
1234678-HpCDF	0.01		833						833.00	8.33	8.33	8.33
1234789-HpCDF	0.01		49.2						49.20	0.49	0.49	0.49
12346789-OCDF	0.001		1290						1290.00	1.29	1.29	1.29
nondetects = detection limit									TEQ=	211.97		
nondetects = 1/2 d.l.									teq=		211.67	
nondetects = zero									teq=			211.37
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			41.5	6.0					41.5	6.0		
TOTAL PeCDD			86.8	7.0					86.8	7.0		
TOTAL HxCDD			218.0	7.0					218.0	7.0		
TOTAL HpCDD			879.0	2.0					879.0	2.0		
TOTAL TCDF		E	1240.0	13.0		820.0	7.0		820.0	7.0		
TOTAL PeCDF			875.0	13.0					875.0	13.0		
TOTAL HxCDF			630.0	12.0					630.0	12.0		
TOTAL HpCDF			1890.0	4.0					1890.0	4.0		
% Finer than #200 Sieve									44.9			
% Total Organic Carbon									0.15			
% Solids									88			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

## TITTABAWASSEE RIVER PROJECT - CALDWELL BOAT LAUNCH, MIDLAND COUNTY SOIL SAMPLES FOR DIOXIN



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II FFP 1-1 UNDILUTED			II FFP 1-1 DILUTED			5/23/02	II FFP 1-1 FINAL			
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		10.30					10.30	0.00	0.000	0.000	
1379-TCDD	0		4.10					4.10	0.00	0.000	0.000	
2378-TCDD	1		3.2					3.2	3.20	3.200	3.200	
12378-PeCDD	0.5	J	3.2				J	3.2	1.60	1.600	1.600	
123478-HxCDD	0.1	J	2.7				J	2.7	0.27	0.270	0.270	
123678-HxCDD	0.1		10.3					10.3	1.03	1.030	1.030	
123789-HxCDD	0.1	J	5.9				J	5.9	0.59	0.590	0.590	
1234678-HpCDD	0.01		209					209	2.09	2.090	2.090	
12346789-OCDD	0.001		1980					1980	1.98	1.980	1.980	
1368-TCDF	0	ND	0.1				ND	0.1	0.00	0.000	0.000	
2378TCDF	0.1	E	2380		2870			2870.0	287.00	287.000	287.000	
12378-PeCDF	0.05	E	2120		1730			1730.0	86.50	86.500	86.500	
23478-PeCDF	0.5		1800					1800	900.00	900.000	900.000	
123478-HxCDF	0.1		1210					1210	121.00	121.000	121.000	
123678-HxCDF	0.1		235					235	23.50	23.500	23.500	
234678-HxCDF	0.1		170					170	17.00	17.000	17.000	
123789-HxCDF	0.1		19.8					19.8	1.98	1.980	1.980	
1234678-HpCDF	0.01		460					460	4.60	4.600	4.600	
1234789-HpCDF	0.01		71.5					71.5	0.72	0.715	0.715	
12346789-OCDF	0.001		586					586	0.59	0.586	0.586	
nondetects = detection limit								TEQ=	1453.64			
nondetects = 1/2 d.l.								teq=		1453.64		
nondetects = zero								teq=			1453.64	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			24.0	6.0					24.0	6.0		
TOTAL PeCDD			27.6	6.0					27.6	6.0		
TOTAL HxCDD			65.7	6.0					65.7	6.0		
TOTAL HpCDD			369.0	2.0					369.0	2.0		
TOTAL TCDF		E	7770.0	13.0	5960.0	7.0			5960.0	7.0		
TOTAL PeCDF		E	7180.0	11.0	5670.0	7.0			5670.0	7.0		
TOTAL HxCDF			2230.0	10.0					2230.0	10.0		
TOTAL HpCDF			890.0	4.0					890.0	4.0		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude									43.526594146N			
Longitude									84.128383491W			
Northing (MiGeoRef)									332324.98m			
Easting (MiGeoRef)									651084.38m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 1-3			II FFP 1-3			II FFP 1-3			
		UNDILUTED			DILUTED			FINAL			
Analyte	TEF	Flags	Concentration	Flags	Concentration	Flags	Concentration	nondetect	nondetect	nondetect	
		pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		10.50				10.50	0.00	0.00	0.00	
1379-TCDD	0		3.50				3.50	0.00	0.00	0.00	
2378-TCDD	1		3.4				3.4	3.40	3.40	3.40	
12378-PeCDD	0.5	J	3.3			J	3.3	1.65	1.65	1.65	
123478-HxCDD	0.1	J	2.3			J	2.3	0.23	0.23	0.23	
123678-HxCDD	0.1		8.3				8.3	0.83	0.83	0.83	
123789-HxCDD	0.1	J	5.3			J	5.3	0.53	0.53	0.53	
1234678-HpCDD	0.01		152				152	1.52	1.52	1.52	
12346789-OCDD	0.001		1450				1450	1.45	1.45	1.45	
1368-TCDF	0	ND	0.1			ND	0.1	0.00	0.00	0.00	
2378TCDF	0.1	SE	1770		3080		3080	308.00	308.00	308.00	
12378-PeCDF	0.05		1960				1960	98.00	98.00	98.00	
23478-PeCDF	0.5		1670				1670	835.00	835.00	835.00	
123478-HxCDF	0.1		1070				1070	107.00	107.00	107.00	
123678-HxCDF	0.1		204				204	20.40	20.40	20.40	
234678-HxCDF	0.1		145				145	14.50	14.50	14.50	
123789-HxCDF	0.1		20.3				20.3	2.03	2.03	2.03	
1234678-HpCDF	0.01		364				364	3.64	3.64	3.64	
1234789-HpCDF	0.01		55.6				55.6	0.56	0.56	0.56	
12346789-OCDF	0.001		404				404	0.40	0.40	0.40	
nondetects = detection limit							TEQ=	1399.14			
nondetects = 1/2 d.l.							teq=		1399.14		
nondetects = zero							teq=			1399.14	
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number	
			pg/g			pg/g			pg/g		
TOTAL TCDD			19.2	4.0					19.2	4.0	
TOTAL PeCDD			25.2	6.0					25.2	6.0	
TOTAL HxCDD			57.4	7.0					57.4	7.0	
TOTAL HpCDD			266.0	2.0					266.0	2.0	
TOTAL TCDF		S,E	7770.0	15.0		6260.0	8.0		6260.0	8.0	
TOTAL PeCDF			6780.0	12.0					6780.0	12.0	
TOTAL HxCDF			1960.0	11.0					1960.0	11.0	
TOTAL HpCDF			704.0	4.0					704.0	4.0	
% Finer than #200 Sieve									51		
% Total Organic Carbon									1.8		
% Solids									86		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES										
		II FFP 1-6 UNDILUTED			II FFP 1-6 DILUTED			II FFP 1-6 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	20.50					ND	20.50	0.00	0.00	0.00
1379-TCDD	0		7.70						7.70	0.00	0.00	0.00
2378-TCDD	1		5.9						5.9	5.90	5.90	5.90
12378-PeCDD	0.5		5.7						5.7	2.85	2.85	2.85
123478-HxCDD	0.1	J	4.6					J	4.6	0.46	0.46	0.46
123678-HxCDD	0.1		18.2						18.2	1.82	1.82	1.82
123789-HxCDD	0.1		10						10	1.00	1.00	1.00
1234678-HpCDD	0.01		351						351	3.51	3.51	3.51
12346789-OCDD	0.001		3480						3480	3.48	3.48	3.48
1368-TCDF	0	J	0.45					J	0.45	0.00	0.00	0.00
2378TCDF	0.1	E	3090			7380			7380	738.00	738.00	738.00
12378-PeCDF	0.05	ND,S,E	3790			3370			3370	168.50	168.50	168.50
23478-PeCDF	0.5	S,E	3360			2740			2740	1370.00	1370.00	1370.00
123478-HxCDF	0.1	S,E	2640			2660			2660	266.00	266.00	266.00
123678-HxCDF	0.1		515						515	51.50	51.50	51.50
234678-HxCDF	0.1		341						341	34.10	34.10	34.10
123789-HxCDF	0.1		47						47	4.70	4.70	4.70
1234678-HpCDF	0.01		896						896	8.96	8.96	8.96
1234789-HpCDF	0.01		138						138	1.38	1.38	1.38
12346789-OCDF	0.001		925						925	0.93	0.93	0.93
nondetects = detection limit									TEQ=	2663.09		
nondetects = 1/2 d.l.									teq=		2663.09	
nondetects = zero									teq=			2663.09
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			26.7	6.0					26.7	6.0		
TOTAL PeCDD			54.6	6.0					54.6	6.0		
TOTAL HxCDD			113.0	6.0					113.0	6.0		
TOTAL HpCDD			619.0	2.0					619.0	2.0		
TOTAL TCDF		S,E	5910.0	15.0		17170.0	12.0		17170.0	12.0		
TOTAL PeCDF		S,E	9960.0	12.0		11420.0	8.0		11470.0	8.0		
TOTAL HxCDF		S,E	4710.0	11.0		4590.0	7.0		4590.0	7.0		
TOTAL HpCDF			1780.0	4.0					1780.0	4.0		
% Finer than #200 Sieve									50.6			
% Total Organic Carbon									2.3			
% Solids									84			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 1-15			II FFP 1-15			II FFP 1-15			
		UNDILUTED			DILUTED			FINAL			
Analyte	TEF	Flags	Concentration	Flags	Concentration	Flags	Concentration	nondetect	nondetect	nondetect	
		pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		11.20				11.20	0.00	0.00	0.00	
1379-TCDD	0		11.40				11.40	0.00	0.00	0.00	
2378-TCDD	1		7.3				7.3	7.30	7.30	7.30	
12378-PeCDD	0.5		8.2				8.2	4.10	4.10	4.10	
123478-HxCDD	0.1		5.5				5.5	0.55	0.55	0.55	
123678-HxCDD	0.1		28.9				28.9	2.89	2.89	2.89	
123789-HxCDD	0.1		13.4				13.4	1.34	1.34	1.34	
1234678-HpCDD	0.01		488				488	4.88	4.88	4.88	
12346789-OCDD	0.001	E	5000		4280		4280	4.28	4.28	4.28	
1368-TCDF	0	ND	0.1			ND	0.1	0.00	0.00	0.00	
2378TCDF	0.1	S,E	9530		9720		9720	972.00	972.00	972.00	
12378-PeCDF	0.05	E	6420		4500		4500	225.00	225.00	225.00	
23478-PeCDF	0.5	E	4090		3380		3380	1690.00	1690.00	1690.00	
123478-HxCDF	0.1	E	3440		2970		2970	297.00	297.00	297.00	
123678-HxCDF	0.1		778				778	77.80	77.80	77.80	
234678-HxCDF	0.1		470				470	47.00	47.00	47.00	
123789-HxCDF	0.1		59.1				59.1	5.91	5.91	5.91	
1234678-HpCDF	0.01		1300				1300	13.00	13.00	13.00	
1234789-HpCDF	0.01		189				189	1.89	1.89	1.89	
12346789-OCDF	0.001		1380				1380	1.38	1.38	1.38	
nondetects = detection limit							TEQ=	3356.32			
nondetects = 1/2 d.l.							teq=		3356.32		
nondetects = zero							teq=			3356.32	
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number	
			pg/g			pg/g			pg/g		
TOTAL TCDD			29.9	3.00					29.9	3.00	
TOTAL PeCDD			65.7	6.00					65.7	6.00	
TOTAL HxCDD			162.0	6.00					162.0	6.00	
TOTAL HpCDD			841.0	2.00					841.0	2.00	
TOTAL TCDF		S,E	12040.0	11.00		23280.0	8.00		23280.0	8.00	
TOTAL PeCDF		E	18360.0	12.00		13840.0	9.00		13840.0	9.00	
TOTAL HxCDF		E	6170.0	10.00		5600.0	7.00		5600.0	7.00	
TOTAL HpCDF			2670.0	4.00					2670.0	4.00	
% Finer than #200 Sieve									45.3		
% Total Organic Carbon									2.2		
% Solids									83		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES											
		II FFP 2-1			II FFP 2-1			II FFP 2-1					
		UNDILUTED			DILUTED			FINAL					
Analyte	TEF	Flags	Concentration	Flags	Concentration	Flags	Concentration	nondetect	nondetect	nondetect			
		pg/g			pg/g			pg/g			detection level	1/2 d.l.	zero
1368-TCDD	0		54.6				54.6	0.00	0.00	0.00			
1379-TCDD	0		15				15	0.00	0.00	0.00			
2378-TCDD	1		11.3				11.3	11.30	11.30	11.30			
12378-PeCDD	0.5		10.6				10.6	5.30	5.30	5.30			
123478-HxCDD	0.1		8.8				8.8	0.88	0.88	0.88			
123678-HxCDD	0.1		56.2				56.2	5.62	5.62	5.62			
123789-HxCDD	0.1		22.9				22.9	2.29	2.29	2.29			
1234678-HpCDD	0.01		1310				1310	13.10	13.10	13.10			
12346789-OCDD	0.001	S,E	11300		12550		12550	12.55	12.55	12.55			
1368-TCDF	0	ND,J	0.3			ND,J	0.3	0.00	0.00	0.00			
2378TCDF	0.1	SE	3300		2470		2470	247.00	247.00	247.00			
12378-PeCDF	0.05		1590				1590	79.50	79.50	79.50			
23478-PeCDF	0.5		1360				1360	680.00	680.00	680.00			
123478-HxCDF	0.1		1030				1030	103.00	103.00	103.00			
123678-HxCDF	0.1		200				200	20.00	20.00	20.00			
234678-HxCDF	0.1		141				141	14.10	14.10	14.10			
123789-HxCDF	0.1		18.8				18.8	1.88	1.88	1.88			
1234678-HpCDF	0.01		1640				1640	16.40	16.40	16.40			
1234789-HpCDF	0.01		136				136	1.36	1.36	1.36			
12346789-OCDF	0.001		3540				3540	3.54	3.54	3.54			
nondetects = detection limit								TEQ=	1217.82				
nondetects = 1/2 d.l.								teq=		1217.82			
nondetects = zero								teq=			1217.82		
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number			
			pg/g			pg/g			pg/g				
TOTAL TCDD			91.0	4.0					91.0	4.0			
TOTAL PeCDD			98.3	5.0					98.3	5.0			
TOTAL HxCDD			328.0	7.0					328.0	7.0			
TOTAL HpCDD			2170.0	2.0					2170.0	2.0			
TOTAL TCDF		S,E	6800.0	15.0		4760.0	7.0		4760.0	7.0			
TOTAL PeCDF			5850.0	14.0					5850.0	14.0			
TOTAL HxCDF			2430.0	13.0					2430.0	13.0			
TOTAL HpCDF			4300.0	4.0					4300.0	4.0			
% Finer than #200 Sieve									NS				
% Total Organic Carbon									NS				
% Solids									NS				
Latitude									43.526578828N				
Longitude									84.127767438W				
Northing (MiGeoRef)									332324.41m				
Easting (MiGeoRef)									651134.19m				
Elevation (NAVD 1929 in feet)													

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 2-3			II FFP 2-3			II FFP 2-3			
		UNDILUTED			DILUTED			FINAL			
Analyte	TEF	Flags	Concentration	Flags	Concentration	Flags	Concentration	nondetect	nondetect	nondetect	
		pg/g		pg/g		pg/g		detection level	1/2 d.l.	zero	
1368-TCDD	0		54.8				54.8	0.00	0.00	0.00	
1379-TCDD	0		15.3				15.3	0.00	0.00	0.00	
2378-TCDD	1		11.4				11.4	11.40	11.40	11.40	
12378-PeCDD	0.5		11.5				11.5	5.75	5.75	5.75	
123478-HxCDD	0.1		8.9				8.9	0.89	0.89	0.89	
123678-HxCDD	0.1		63.3				63.3	6.33	6.33	6.33	
123789-HxCDD	0.1		22.7				22.7	2.27	2.27	2.27	
1234678-HpCDD	0.01		1570				1570	15.70	15.70	15.70	
12346789-OCDD	0.001	S,E	13180		14520		14520	14.52	14.52	14.52	
1368-TCDF	0	J	0.87			J	0.87	0.00	0.00	0.00	
2378TCDF	0.1	E	4210		3380		3380	338.00	338.00	338.00	
12378-PeCDF	0.05		1940				1940	97.00	97.00	97.00	
23478-PeCDF	0.5		1690				1690	845.00	845.00	845.00	
123478-HxCDF	0.1		1210				1210	121.00	121.00	121.00	
123678-HxCDF	0.1		237				237	23.70	23.70	23.70	
234678-HxCDF	0.1		166				166	16.60	16.60	16.60	
123789-HxCDF	0.1		26.8				26.8	2.68	2.68	2.68	
1234678-HpCDF	0.01		1700				1700	17.00	17.00	17.00	
1234789-HpCDF	0.01		142				142	1.42	1.42	1.42	
12346789-OCDF	0.001	E	4130		3390		3390	3.39	3.39	3.39	
nondetects = detection limit							TEQ=	1522.65			
nondetects = 1/2 d.l.							teq=		1522.65		
nondetects = zero							teq=			1522.65	
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number	
			pg/g			pg/g			pg/g		
TOTAL TCDD			81.5	3.0					81.5	3.0	
TOTAL PeCDD			104.0	7.0					104.0	7.0	
TOTAL HxCDD			321.0	7.0					321.0	7.0	
TOTAL HpCDD			2650.0	2.0					2650.0	2.0	
TOTAL TCDF		S,E	8090.0	15.0		6940.0	9.0		6940.0	9.0	
TOTAL PeCDF			6970.0	13.0					6970.0	13.0	
TOTAL HxCDF			2850.0	14.0					2850.0	14.0	
TOTAL HpCDF			4850.0	4.0					4850.0	4.0	
% Finer than #200 Sieve									26.3		
% Total Organic Carbon									2.8		
% Solids									80		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 2-6 UNDILUTED			II FFP 2-6 DILUTED			II FFP 2-6 FINAL			
Analyte	TEF	Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	
1368-TCDD	0		14				14.00	0.00	0.00	0.00	
1379-TCDD	0		16				16.00	0.00	0.00	0.00	
2378-TCDD	1		16.8				16.80	16.80	16.80	16.80	
12378-PeCDD	0.5		14.6				14.60	7.30	7.30	7.30	
123478-HxCDD	0.1		13.3				13.30	1.33	1.33	1.33	
123678-HxCDD	0.1		82.3				82.30	8.23	8.23	8.23	
123789-HxCDD	0.1		34.3				34.30	3.43	3.43	3.43	
1234678-HpCDD	0.01		1850				1850.00	18.50	18.50	18.50	
12346789-OCDD	0.001	S,E	18020		16600		16600.00	16.60	16.60	16.60	
1368-TCDF	0	ND	0.4			ND	0.40	0.00	0.00	0.00	
2378TCDF	0.1	S,E	4380		3780		3780.00	378.00	378.00	378.00	
12378-PeCDF	0.05	E	2440		1540		1540.00	77.00	77.00	77.00	
23478-PeCDF	0.5		1610				1610.00	805.00	805.00	805.00	
123478-HxCDF	0.1		1560				1560.00	156.00	156.00	156.00	
123678-HxCDF	0.1		381				381.00	38.10	38.10	38.10	
234678-HxCDF	0.1		220				220.00	22.00	22.00	22.00	
123789-HxCDF	0.1		32.9				32.90	3.29	3.29	3.29	
1234678-HpCDF	0.01	E	2170		1250		1250.00	12.50	12.50	12.50	
1234789-HpCDF	0.01		184				184.00	1.84	1.84	1.84	
12346789-OCDF	0.001	E	3990		4480		4480.00	4.48	4.48	4.48	
nondetects = detection limit							TEQ=	1570.40			
nondetects = 1/2 d.l.							teq=		1570.40		
nondetects = zero							teq=			1570.40	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD			59.3	4.0		59.3	4.0		59.3	4.0	
TOTAL PeCDD			79.7	6.0		79.7	6.0		79.7	6.0	
TOTAL HxCDD			515.0	8.0		515.0	8.0		515.0	8.0	
TOTAL HpCDD			3190.0	2.0		3190.0	2.0		3190.0	2.0	
TOTAL TCDF		S,E	10810.0	11.0		8800.0	7.0		8800.0	7.0	
TOTAL PeCDF		E	6870.0	11.0		4650.0	8.0		4650.0	8.0	
TOTAL HxCDF			3490.0	10.0		3490.0	10.0		3490.0	10.0	
TOTAL HpCDF		E	6490.0	4.0		4240.0	2.0		4240.0	2.0	
% Finer than #200 Sieve									25.4		
% Total Organic Carbon									2.1		
% Solids									85		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 2-15 UNDILUTED			II FFP 2-15 DILUTED			II FFP 2-15 FINAL			
Analyte	TEF	Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	
1368-TCDD	0		6.7				6.7	0.00	0.00	0.00	
1379-TCDD	0		9.4				9.4	0.00	0.00	0.00	
2378-TCDD	1		10.5				10.5	10.50	10.50	10.50	
12378-PeCDD	0.5		9.6				9.6	4.80	4.80	4.80	
123478-HxCDD	0.1	ND	10.2			ND	10.2	1.02	0.51	0.00	
123678-HxCDD	0.1		155				155	15.50	15.50	15.50	
123789-HxCDD	0.1		48.2				48.2	4.82	4.82	4.82	
1234678-HpCDD	0.01	E	2290		2180		2180	21.80	21.80	21.80	
12346789-OCDD	0.001	E	15310		13250		13250	13.25	13.25	13.25	
1368-TCDF	0	ND	0.2			ND	0.2	0.00	0.00	0.00	
2378TCDF	0.1	E	6450		7130		7130	713.00	713.00	713.00	
12378-PeCDF	0.05	E	3990		2780		2780	139.00	139.00	139.00	
23478-PeCDF	0.5	E	2590		2410		2410	1205.00	1205.00	1205.00	
123478-HxCDF	0.1	E	2600		1440		1440	144.00	144.00	144.00	
123678-HxCDF	0.1		615				615	61.50	61.50	61.50	
234678-HxCDF	0.1		350				350	35.00	35.00	35.00	
123789-HxCDF	0.1		62.5				62.5	6.25	6.25	6.25	
1234678-HpCDF	0.01	E	2650		1350		1350	13.50	13.50	13.50	
1234789-HpCDF	0.01		346				346	3.46	3.46	3.46	
12346789-OCDF	0.001	E	5450		4680		4680	4.68	4.68	4.68	
nondetects = detection limit							TEQ=	2397.08			
nondetects = 1/2 d.l.							teq=		2396.57		
nondetects = zero							teq=			2396.06	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD			56.7	6		56.7	6		56.7	6	
TOTAL PeCDD			119	7		119	7		119	7	
TOTAL HxCDD			999	6		999	6		999	6	
TOTAL HpCDD		E	3870	2		3730.0	2.0		3730.0	2.0	
TOTAL TCDF		E	16840	11		17610.0	10.0		17610.0	10.0	
TOTAL PeCDF		E	11350	12		8780.0	8.0		8780.0	8.0	
TOTAL HxCDF		E	5350	10		3110.0	5.0		3110.0	5.0	
TOTAL HpCDF		E	7890	4		5020.0	3.0		5020.0	3.0	
% Finer than #200 Sieve									21.1		
% Total Organic Carbon									0.81		
% Solids									90		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES											
		II FFP 3-1 UNDILUTED			II FFP 3-1 DILUTED			II FFP 3-1 FINAL					
Analyte	TEF	Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero			
1368-TCDD	0		5.2				5.2	0.00	0.00	0.00			
1379-TCDD	0		6.5				6.5	0.00	0.00	0.00			
2378-TCDD	1		6.1				6.1	6.10	6.10	6.10			
12378-PeCDD	0.5		5.3				5.3	2.65	2.65	2.65			
123478-HxCDD	0.1	J	4.2			J	4.2	0.42	0.42	0.42			
123678-HxCDD	0.1		30.5				30.5	3.05	3.05	3.05			
123789-HxCDD	0.1		11.2				11.2	1.12	1.12	1.12			
1234678-HpCDD	0.01		613				613	6.13	6.13	6.13			
12346789-OCDD	0.001	E	6080		5600		5600	5.60	5.60	5.60			
1368-TCDF	0	ND	0.2			ND	0.2	0.00	0.00	0.00			
2378TCDF	0.1	E	1080		763		763	76.30	76.30	76.30			
12378-PeCDF	0.05		546				546	27.30	27.30	27.30			
23478-PeCDF	0.5		340				340	170.00	170.00	170.00			
123478-HxCDF	0.1		374				374	37.40	37.40	37.40			
123678-HxCDF	0.1		88.9				88.9	8.89	8.89	8.89			
234678-HxCDF	0.1		53.7				53.7	5.37	5.37	5.37			
123789-HxCDF	0.1		7.8				7.8	0.78	0.78	0.78			
1234678-HpCDF	0.01		667				667	6.67	6.67	6.67			
1234789-HpCDF	0.01		52				52	0.52	0.52	0.52			
12346789-OCDF	0.001		1790				1790	1.79	1.79	1.79			
nondetects = detection limit								TEQ=	360.09				
nondetects = 1/2 d.l.								teq=		360.09			
nondetects = zero								teq=			360.09		
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number			
TOTAL TCDD			33.8	6.0		33.8	6.0		33.8	6.0			
TOTAL PeCDD			57.9	9.0		57.9	9.0		57.9	9.0			
TOTAL HxCDD			189.0	8.0		189.0	8.0		189.0	8.0			
TOTAL HpCDD			1030.0	2.0		1030.0	2.0		1030.0	2.0			
TOTAL TCDF		E	2140.0	12.0		1830.0	11.0		1830.0	11.0			
TOTAL PeCDF			1480.0	11.0		1480.0	11.0		1480.0	11.0			
TOTAL HxCDF			862.0	12.0		862.0	12.0		862.0	12.0			
TOTAL HpCDF			1920.0	4.0		1920.0	4.0		1920.0	4.0			
% Finer than #200 Sieve									NS				
% Total Organic Carbon									NS				
% Solids									NS				
Latitude									43.526357937N				
Longitude									84.127395911W				
Northing (MiGeoRef)									332300.56m				
Easting (MiGeoRef)									651164.76m				
Elevation (NAVD 1929 in feet)													

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 3-3 UNDILUTED			II FFP 3-3 DILUTED			II FFP 3-3 FINAL			
Analyte	TEF	Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	
1368-TCDD	0		4.3				4.3	0.00	0.00	0.00	
1379-TCDD	0		5.9				5.9	0.00	0.00	0.00	
2378-TCDD	1		6.4				6.4	6.40	6.40	6.40	
12378-PeCDD	0.5		5.4				5.4	2.70	2.70	2.70	
123478-HxCDD	0.1	J	3.6			J	3.6	0.36	0.36	0.36	
123678-HxCDD	0.1		32.9				32.9	3.29	3.29	3.29	
123789-HxCDD	0.1		12.4				12.4	1.24	1.24	1.24	
1234678-HpCDD	0.01		704				704	7.04	7.04	7.04	
12346789-OCDD	0.001	E	6590		6190		6190	6.19	6.19	6.19	
1368-TCDF	0	ND	0.1			ND	0.1	0.00	0.00	0.00	
2378TCDF	0.1	E	1110		790		790	79.00	79.00	79.00	
12378-PeCDF	0.05		543				543	27.15	27.15	27.15	
23478-PeCDF	0.5		343				343	171.50	171.50	171.50	
123478-HxCDF	0.1		368				368	36.80	36.80	36.80	
123678-HxCDF	0.1		84.2				84.2	8.42	8.42	8.42	
234678-HxCDF	0.1		52.6				52.6	5.26	5.26	5.26	
123789-HxCDF	0.1		9.1				9.1	0.91	0.91	0.91	
1234678-HpCDF	0.01		645				645	6.45	6.45	6.45	
1234789-HpCDF	0.01		63.5				63.5	0.64	0.64	0.64	
12346789-OCDF	0.001		1840				1840	1.84	1.84	1.84	
nondetects = detection limit							TEQ=	365.19			
nondetects = 1/2 d.l.							teq=		365.19		
nondetects = zero							teq=			365.19	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD			37.1	8.0		37.1	8.0		37.1	8.0	
TOTAL PeCDD			56.5	8.0		56.5	8.0		56.5	8.0	
TOTAL HxCDD			214.0	7.0		214.0	7.0		214.0	7.0	
TOTAL HpCDD			1220.0	2.0		1220.0	2.0		1220.0	2.0	
TOTAL TCDF		E	2280.0	12.0	1830.0	7.0	1830.0	7.0	1830.0	7.0	
TOTAL PeCDF			1450.0	11.0		1450.0	11.0		1450.0	11.0	
TOTAL HxCDF			850.0	10.0		850.0	10.0		850.0	10.0	
TOTAL HpCDF			2010.0	4.0		2010.0	4.0		2010.0	4.0	
% Finer than #200 Sieve							38.5				
% Total Organic Carbon							1.6				
% Solids							83				
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											



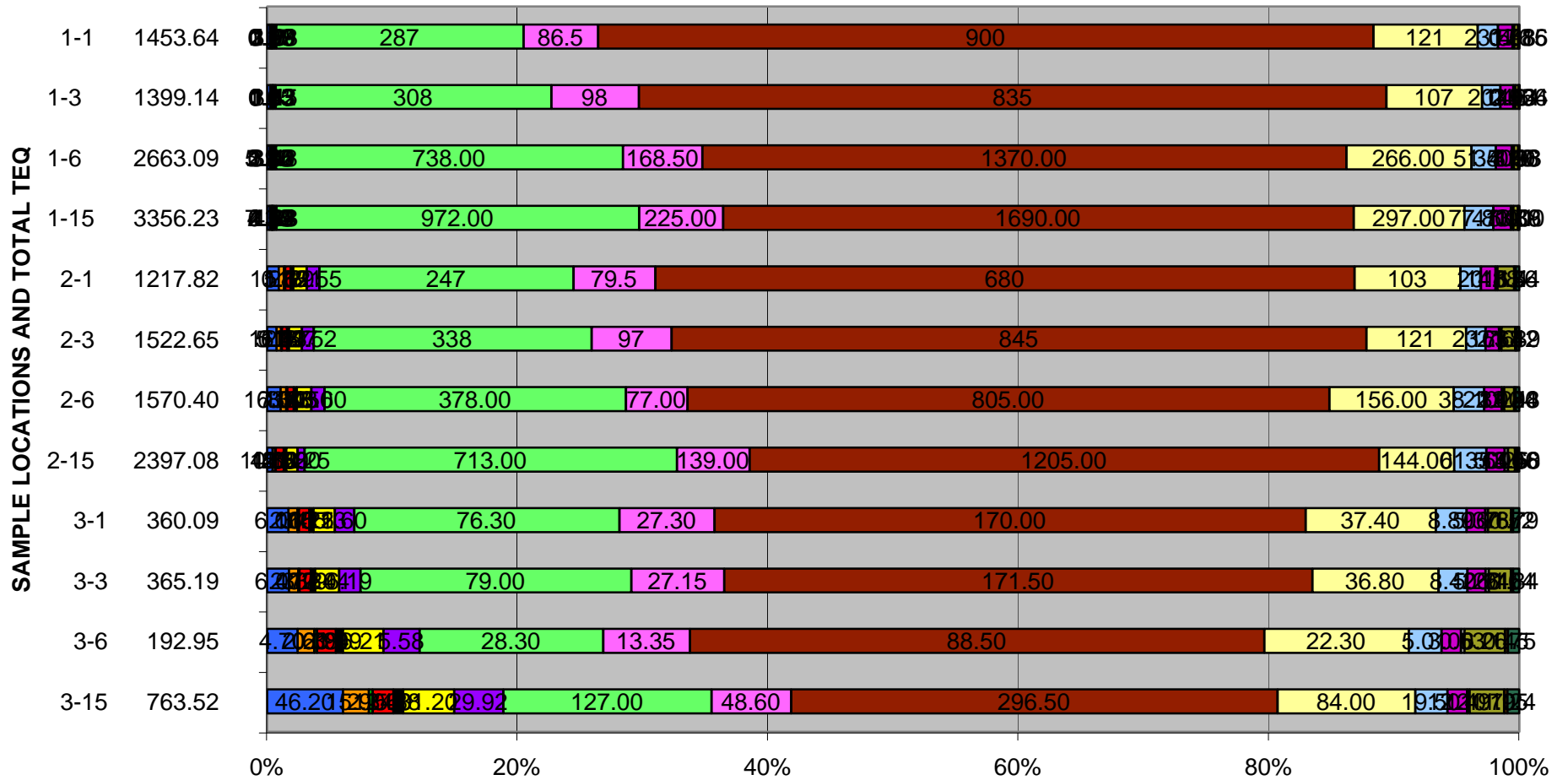
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 3-6 UNDILUTED			II FFP 3-6 DILUTED			II FFP 3-6 FINAL			
Analyte	TEF	Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	
1368-TCDD	0		3.1				3.10	0.00	0.00	0.00	
1379-TCDD	0		4				4.00	0.00	0.00	0.00	
2378-TCDD	1		4.7				4.70	4.70	4.70	4.70	
12378-PeCDD	0.5	ND	5.2			ND	5.20	2.60	1.30	1.30	
123478-HxCDD	0.1	J	3.8			J	3.80	0.38	0.38	0.38	
123678-HxCDD	0.1		29.4				29.40	2.94	2.94	2.94	
123789-HxCDD	0.1		10.9				10.90	1.09	1.09	1.09	
1234678-HpCDD	0.01		621				621.00	6.21	6.21	6.21	
12346789-OCDD	0.001	E	6630		5580		5580.00	5.58	5.58	5.58	
1368-TCDF	0	ND	0.1			ND	0.10	0.00	0.00	0.00	
2378TCDF	0.1	E	493		283		283.00	28.30	28.30	28.30	
12378-PeCDF	0.05		267				267.00	13.35	13.35	13.35	
23478-PeCDF	0.5		177				177.00	88.50	88.50	88.50	
123478-HxCDF	0.1		223				223.00	22.30	22.30	22.30	
123678-HxCDF	0.1		50.1				50.10	5.01	5.01	5.01	
234678-HxCDF	0.1		30				30.00	3.00	3.00	3.00	
123789-HxCDF	0.1		5.3				5.30	0.53	0.53	0.53	
1234678-HpCDF	0.01		626				626.00	6.26	6.26	6.26	
1234789-HpCDF	0.01		44.8				44.80	0.45	0.45	0.45	
12346789-OCDF	0.001		1750				1750.00	1.75	1.75	1.75	
nondetects = detection limit							TEQ=	192.95			
nondetects = 1/2 d.l.							teq=		191.65		
nondetects = zero							teq=			191.65	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD			27.6	7.0		27.6	7.0		27.6	7.0	
TOTAL PeCDD			48.3	6.0		48.3	6.0		48.3	6.0	
TOTAL HxCDD			183.0	7.0		183.0	7.0		183.0	7.0	
TOTAL HpCDD			1040.0	2.0		1040.0	2.0		1040.0	2.0	
TOTAL TCDF		E	1060.0	11.0		794.0	7.0		794.0	7.0	
TOTAL PeCDF			713.0	9.0		713.0	9.0		713.0	9.0	
TOTAL HxCDF			562.0	11.0		562.0	11.0		562.0	11.0	
TOTAL HpCDF			1930.0	4.0		1930.0	4.0		1930.0	4.0	
% Finer than #200 Sieve									29.6		
% Total Organic Carbon									0.98		
% Solids									87		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

TITABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES									
		II FFP 3-15			II FFP 3-15			II FFP 3-15			
		UNDILUTED			DILUTED			FINAL			
Analyte	TEF	Flags	Concentration	Flags	Concentration	Flags	Concentration	nondetect	nondetect	nondetect	
		pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		14				14	0.00	0.00	0.00	
1379-TCDD	0		32.8				32.8	0.00	0.00	0.00	
2378-TCDD	1		46.2				46.2	46.20	46.20	46.20	
12378-PeCDD	0.5		31.8				31.8	15.90	15.90	15.90	
123478-HxCDD	0.1		23.4				23.4	2.34	2.34	2.34	
123678-HxCDD	0.1		126				126	12.60	12.60	12.60	
123789-HxCDD	0.1		58.8				58.8	5.88	5.88	5.88	
1234678-HpCDD	0.01	E	2980			3120	3120	31.20	31.20	31.20	
12346789-OCDD	0.001	E	29120			29920	29920	29.92	29.92	29.92	
1368-TCDF	0	ND	0.1				0.1	0.00	0.00	0.00	
2378TCDF	0.1	E	1850			1270	1270	127.00	127.00	127.00	
12378-PeCDF	0.05		972				972	48.60	48.60	48.60	
23478-PeCDF	0.5		593				593	296.50	296.50	296.50	
123478-HxCDF	0.1		840				840	84.00	84.00	84.00	
123678-HxCDF	0.1		195				195	19.50	19.50	19.50	
234678-HxCDF	0.1		121				121	12.10	12.10	12.10	
123789-HxCDF	0.1		14.9				14.9	1.49	1.49	1.49	
1234678-HpCDF	0.01	E	3270			2110	2110	21.10	21.10	21.10	
1234789-HpCDF	0.01		195				195	1.95	1.95	1.95	
12346789-OCDF	0.001	E	7730			7240	7240	7.24	7.24	7.24	
nondetects = detection limit								TEQ=	763.52		
nondetects = 1/2 d.l.								teq=		763.52	
nondetects = zero								teq=		763.52	
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number	
		pg/g			pg/g			pg/g			
TOTAL TCDD			178.0	7.0					178.0	7.0	
TOTAL PeCDD			281.0	8.0					281.0	8.0	
TOTAL HxCDD			908.0	10.0					908.0	10.0	
TOTAL HpCDD		E	5160.0	2.0		5320.0	2.0		5320.0	2.0	
TOTAL TCDF		E	3650.0	12.0		3060.0	7.0		3060.0	7.0	
TOTAL PeCDF			2710.0	15.0					2710.0	15.0	
TOTAL HxCDF			2390.0	14.0					2390.0	14.0	
TOTAL HpCDF		E	9140.0	4.0		6880.0	3.0		6880.0	3.0	
% Finer than #200 Sieve									34.2		
% Total Organic Carbon									0.77		
% Solids									86		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

## TITTABAWASSEE RIVER PROJECT - FREELAND FESTIVAL PARK, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



NON- DETECT = DETECTION LEVEL

- |                 |                |                 |                 |                 |                 |
|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| ■ 2378-TCDD     | ■ 12378-PeCDD  | ■ 123478-HxCDD  | ■ 123678-HxCDD  | ■ 123789-HxCDD  | ■ 1234678-HpCDD |
| ■ 12346789-OCDD | ■ 2378TCDF     | ■ 12378-PeCDF   | ■ 23478-PeCDF   | ■ 123478-HxCDF  | ■ 123678-HxCDF  |
| ■ 234678-HxCDF  | ■ 123789-HxCDF | ■ 1234678-HpCDF | ■ 1234789-HpCDF | ■ 12346789-OCDF |                 |

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES													
		I LIVE 1-3					II LIVE 1-6					II LIVE 1-15			
		FINAL					FINAL					FINAL			
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.
1368-TCDD	0	ND	0.50	0.00	0.00	0.00	ND	1.30	0.00	0.00	0.00	ND	0.30	0.00	0.00
1379-TCDD	0	ND	0.50	0.00	0.00	0.00	ND	0.60	0.00	0.00	0.00	ND	0.30	0.00	0.00
2378-TCDD	1	ND	0.50	0.50	0.25	0.00	ND	0.60	0.60	0.30	0.00	ND	0.30	0.30	0.15
12378-PeCDD	0.5	ND	0.50	0.25	0.13	0.00	ND	0.60	0.30	0.15	0.00	ND	0.20	0.10	0.05
123478-HxCDD	0.1	ND	0.60	0.06	0.03	0.00	ND	0.70	0.07	0.04	0.00	ND	0.30	0.03	0.02
123678-HxCDD	0.1	ND	0.60	0.06	0.03	0.00	J	1.00	0.10	0.10	0.10	ND	0.20	0.02	0.01
123789-HxCDD	0.1	ND	0.60	0.06	0.03	0.00	ND	0.70	0.07	0.04	0.00	ND	0.20	0.02	0.01
1234678-HpCDD	0.01		9.70	0.10	0.10	0.10		12.80	0.13	0.13	0.13	J	1.70	0.02	0.02
12346789-OCDD	0.001		69.20	0.07	0.07	0.07		89.40	0.09	0.09	0.09		12.20	0.01	0.01
1368-TCDF	0	ND	0.50	0.00	0.00	0.00	ND	0.50	0.00	0.00	0.00	ND	0.20	0.00	0.00
2378TCDF	0.1	ND	1.80	0.18	0.09	0.00		1.90	0.19	0.19	0.19	ND	0.80	0.08	0.04
12378-PeCDF	0.05	ND	0.80	0.04	0.02	0.00	J	1.10	0.06	0.06	0.06	ND	0.50	0.03	0.01
23478-PeCDF	0.5	J	0.50	0.25	0.25	0.25	J	0.59	0.30	0.30	0.30	ND	0.20	0.10	0.05
123478-HxCDF	0.1	J	0.96	0.10	0.10	0.10	ND	1.10	0.11	0.06	0.00	J	0.32	0.03	0.03
123678-HxCDF	0.1	ND	0.50	0.05	0.03	0.00	ND	0.50	0.05	0.03	0.00	ND	0.20	0.02	0.01
234678-HxCDF	0.1	J	0.34	0.03	0.03	0.03	ND	0.50	0.05	0.03	0.00	ND	0.20	0.02	0.01
123789-HxCDF	0.1	ND	0.60	0.06	0.03	0.00	ND	0.60	0.06	0.03	0.00	ND	0.20	0.02	0.01
1234678-HpCDF	0.01		5.00	0.05	0.05	0.05		6.60	0.07	0.07	0.07	J	0.88	0.01	0.01
1234789-HpCDF	0.01	ND	0.70	0.01	0.00	0.00	ND	0.90	0.01	0.00	0.00	ND	0.30	0.00	0.00
12346789-OCDF	0.001	ND	10.20	0.01	0.01	0.00	J	8.50	0.01	0.01	0.01	J	1.00	0.00	0.00
nondetects = detection limit			TEQ=	1.87				TEQ=	2.25				TEQ=	0.81	
nondetects = 1/2 d.l.			teq=	1.23				teq=	1.59				teq=	0.44	
nondetects = zero			teq=	0.60				teq=	0.93				teq=		
<b>Totals</b>		<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>			<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>			<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>	
TOTAL TCDD		ND	0.80				ND	1.30				ND	0.30		
TOTAL PeCDD			0.80	1.00				2.40	2.00			ND	0.20		
TOTAL HxCDD			4.30	2.00				8.90	4.00			ND	0.20		
TOTAL HpCDD			18.10	2.00				24.90	2.00				3.60	2.00	
TOTAL TCDF			5.00	2.00				7.70	3.00				0.72	1.00	
TOTAL PeCDF			1.00	2.00				1.70	2.00			ND	0.50		
TOTAL HxCDF			3.90	4.00				2.10	1.00				0.71	2.00	
TOTAL HpCDF			10.60	2.00				12.50	2.00				1.50	2.00	
<b>% Finer than #200 Sieve</b>			65.70					54.80					53.10		
<b>% Total Organic Carbon</b>			5.40					3.70					2.80		
<b>% Solids</b>			68.00					76.00					74.00		
Latitude			43.510389526N												
Longitude			84.124452792W												
Northing (MiGeoRef)			330532.91m												
Easting (MiGeoRef)			651442.84m												
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES													
		II LIVE 2-3 FINAL						II LIVE 2-6 FINAL						II LIVE 2-15 FINAL	
Analyte	TEF	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level
1368-TCDD	0	0.00		2.50	0.00	0.00	0.00		1.20	0.00	0.00	0.00	ND	0.10	0.00
1379-TCDD	0	0.00		1.10	0.00	0.00	0.00	ND	1.10	0.00	0.00	0.00	ND	0.10	0.00
2378-TCDD	1	0.00		1.50	1.50	1.50	1.50		1.40	1.40	1.40	1.40	ND	0.10	0.10
12378-PeCDD	0.5	0.00	J	0.95	0.48	0.48	0.48	ND	0.80	0.40	0.20	0.00	ND	0.10	0.05
123478-HxCDD	0.1	0.00	J	0.85	0.09	0.09	0.09	J	0.71	0.07	0.07	0.07	ND	0.10	0.01
123678-HxCDD	0.1	0.00	J	2.00	0.20	0.20	0.20	J	1.50	0.15	0.15	0.15	ND	0.10	0.01
123789-HxCDD	0.1	0.00	J	1.90	0.19	0.19	0.19	J	1.30	0.13	0.13	0.13	ND	0.10	0.01
1234678-HpCDD	0.01	0.02		30.30	0.30	0.30	0.30		16.70	0.17	0.17	0.17	J	1.20	0.01
12346789-OCDD	0.001	0.01		225.00	0.23	0.23	0.23		109.00	0.11	0.11	0.11		9.60	0.01
1368-TCDF	0	0.00	ND	0.10	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.10	0.00
2378TCDF	0.1	0.00	ND	2.20	0.22	0.11	0.00		1.20	0.12	0.12	0.12	J	0.75	0.08
12378-PeCDF	0.05	0.00	J	1.40	0.07	0.07	0.07	J	0.82	0.04	0.04	0.04	ND	0.10	0.01
23478-PeCDF	0.5	0.00	ND	1.00	0.50	0.25	0.00	ND	0.70	0.35	0.18	0.00	J	0.22	0.11
123478-HxCDF	0.1	0.03	J	1.70	0.17	0.17	0.17	J	1.40	0.14	0.14	0.14	J	0.25	0.03
123678-HxCDF	0.1	0.00	J	0.75	0.08	0.08	0.08	ND	0.60	0.06	0.03	0.00	ND	0.10	0.01
234678-HxCDF	0.1	0.00	J	0.95	0.10	0.10	0.10	J	0.76	0.08	0.08	0.08	ND	0.09	0.01
123789-HxCDF	0.1	0.00	ND	0.20	0.02	0.01	0.00	ND	0.10	0.01	0.01	0.00	ND	0.10	0.01
1234678-HpCDF	0.01	0.01		11.90	0.12	0.12	0.12		9.40	0.09	0.09	0.09	J	0.73	0.01
1234789-HpCDF	0.01	0.00	ND	0.80	0.01	0.00	0.00	ND	0.60	0.01	0.00	0.00	ND	0.20	0.00
12346789-OCDF	0.001	0.00		25.10	0.03	0.03	0.03		14.40	0.01	0.01	0.01	J	1.10	0.00
nondetects = detection limit				TEQ=	4.28				TEQ=	3.34				TEQ=	0.46
nondetects = 1/2 d.l.				teq=		3.91			teq=		2.93			teq=	
nondetects = zero		0.07		teq=			3.53		teq=			2.51		teq=	
Totals			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number
TOTAL TCDD				5.70	4.00				4.10	4.00			ND	0.30	
TOTAL PeCDD				3.90	4.00				3.60	4.00			ND	0.10	
TOTAL HxCDD				17.40	7.00				13.80	6.00				0.51	2.00
TOTAL HpCDD				58.60	2.00				31.30	2.00				2.40	2.00
TOTAL TCDF				14.60	5.00				10.90	4.00				1.20	2.00
TOTAL PeCDF				4.30	4.00				2.60	3.00				0.22	1.00
TOTAL HxCDF				10.80	6.00				7.00	4.00				0.63	3.00
TOTAL HpCDF				26.50	2.00				19.60	2.00				0.73	1.00
% Finer than #200 Sieve				30.60					29.40					26.90	
% Total Organic Carbon				3.70					3.00					0.75	
% Solids				76.00					81.00					84.00	
Latitude				43.510378040N											
Longitude				84.124261689W											
Northing (MiGeoRef)				330531.98m											
Easting (MiGeoRef)				651458.31m											
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02				PHASE II - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES												
				II LIVE 3-3				II LIVE 3-6				II LIVE 3-15				
				FINAL				FINAL				FINAL				
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level
1368-TCDD	0	0.00	0.00		1.10	0.00	0.00	0.00		1.90	0.00	0.00	0.00	ND	0.30	0.00
1379-TCDD	0	0.00	0.00	ND	0.90	0.00	0.00	0.00		1.20	0.00	0.00	0.00	ND	0.30	0.00
2378-TCDD	1	0.05	0.00	J	0.84	0.84	0.84	0.84		1.90	1.90	1.90	1.90	ND	0.30	0.30
123478-HxCDD	0.5	0.03	0.00	J	0.59	0.30	0.30	0.30	J	0.75	0.38	0.38	0.38	ND	0.20	0.10
123478-HxCDD	0.1	0.01	0.00	J	0.58	0.06	0.06	0.06	J	0.71	0.07	0.07	0.07	ND	0.20	0.02
123678-HxCDD	0.1	0.01	0.00	J	1.30	0.13	0.13	0.13	J	1.90	0.19	0.19	0.19	ND	0.30	0.03
123789-HxCDD	0.1	0.01	0.00	J	1.40	0.14	0.14	0.14	J	1.60	0.16	0.16	0.16	ND	0.20	0.02
1234678-HpCDD	0.01	0.01	0.01		18.10	0.18	0.18	0.18		21.30	0.21	0.21	0.21	J	3.30	0.03
12346789-OCDD	0.001	0.01	0.01		131.00	0.13	0.13	0.13		144.00	0.14	0.14	0.14		21.80	0.02
1368-TCDF	0	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.20	0.00
2378TCDF	0.1	0.08	0.08		3.60	0.36	0.36	0.36		4.50	0.45	0.45	0.45	ND	0.80	0.08
12378-PeCDF	0.05	0.00	0.00	J	2.20	0.11	0.11	0.11	J	2.90	0.15	0.15	0.15	ND	0.60	0.03
23478-PeCDF	0.5	0.11	0.11	J	1.50	0.75	0.75	0.75	J	1.60	0.80	0.80	0.80	J	0.37	0.19
123478-HxCDF	0.1	0.03	0.03	J	1.90	0.19	0.19	0.19	J	2.40	0.24	0.24	0.24	J	0.52	0.05
123678-HxCDF	0.1	0.01	0.00	J	0.78	0.08	0.08	0.08	J	0.80	0.08	0.08	0.08	J	0.24	0.02
234678-HxCDF	0.1	0.00	0.00	J	0.79	0.08	0.08	0.08	ND	0.80	0.08	0.04	0.00	ND	0.20	0.02
123789-HxCDF	0.1	0.01	0.00	ND	0.10	0.01	0.01	0.00	J	0.19	0.02	0.02	0.02	ND	0.20	0.02
1234678-HpCDF	0.01	0.01	0.01		9.20	0.09	0.09	0.09		11.50	0.12	0.12	0.12	J	3.00	0.03
1234789-HpCDF	0.01	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND,J	0.50	0.01	0.00	0.00	ND	0.30	0.00
12346789-OCDF	0.001	0.00	0.00		10.90	0.01	0.01	0.01		13.70	0.01	0.01	0.01	J	2.70	0.00
nondetects = detection limit					TEQ=	3.46				TEQ=	5.00				TEQ=	0.97
nondetects = 1/2 d.l.		0.35			teq=		3.45			teq=		4.96			teq=	
nondetects = zero			0.24		teq=			3.44		teq=			4.92		teq=	
Totals				Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number
TOTAL TCDD					1.90	2.00				5.40	4.00			ND	0.30	
TOTAL PeCDD					3.70	5.00				2.70	3.00			ND	0.20	
TOTAL HxCDD					13.20	7.00				13.00	5.00			ND	2.70	
TOTAL HpCDD					35.50	2.00				40.70	2.00				6.30	2.00
TOTAL TCDF					13.60	5.00				15.50	3.00				3.20	3.00
TOTAL PeCDF					8.40	7.00				11.30	8.00				0.93	2.00
TOTAL HxCDF					8.20	6.00				10.40	7.00				0.75	2.00
TOTAL HpCDF					16.90	2.00				21.10	2.00				5.40	2.00
% Finer than #200 Sieve					38.20					38.90					39.60	
% Total Organic Carbon					3.50					2.50					1.70	
% Solids					75.00					79.00					79.00	
Latitude					43.510364024N											
Longitude					84.123832212W											
Northing (MiGeoRef)					330531.21m											
Easting (MiGeoRef)					651493.06m											
Elevation (NAVD 1929 in feet)																

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02				PHASE II - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES											
				II LIVE 4-3					II LIVE 4-6						
				FINAL					FINAL						
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g
1368-TCDD	0	0.00	0.00	ND	1.20	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20
1379-TCDD	0	0.00	0.00	ND	0.80	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20
2378-TCDD	1	0.15	0.00	J	0.64	0.64	0.64	0.64	ND	0.10	0.10	0.05	0.00	ND	0.20
12378-PeCDD	0.5	0.05	0.00	ND	0.40	0.20	0.10	0.00	ND	0.10	0.05	0.03	0.00	ND	0.10
123478-HxCDD	0.1	0.01	0.00	J	0.50	0.05	0.05	0.05	ND	0.30	0.03	0.02	0.00	ND	0.20
123678-HxCDD	0.1	0.02	0.00	J	1.10	0.11	0.11	0.11	ND	0.10	0.01	0.01	0.00	ND	0.20
123789-HxCDD	0.1	0.01	0.00	J	1.20	0.12	0.12	0.12	J	0.15	0.02	0.02	0.02	ND	0.20
1234678-HpCDD	0.01	0.03	0.03		16.90	0.17	0.17	0.17	J	2.00	0.02	0.02	0.02	ND,J	1.90
12346789-OCDD	0.001	0.02	0.02		151.00	0.15	0.15	0.15		16.40	0.02	0.02	0.02		16.00
1368-TCDF	0	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.10
2378TCDF	0.1	0.04	0.00		5.20	0.52	0.52	0.52		2.50	0.25	0.25	0.25		0.96
12378-PeCDF	0.05	0.02	0.00	J	3.00	0.15	0.15	0.15	J	1.20	0.06	0.06	0.06	J	0.60
23478-PeCDF	0.5	0.19	0.19	J	1.70	0.85	0.85	0.85	J	0.90	0.45	0.45	0.45	ND	0.30
123478-HxCDF	0.1	0.05	0.05	J	2.30	0.23	0.23	0.23	J	0.79	0.08	0.08	0.08	J	0.42
123678-HxCDF	0.1	0.02	0.02	J	0.72	0.07	0.07	0.07	ND	0.20	0.02	0.01	0.00	ND	0.10
234678-HxCDF	0.1	0.01	0.00	J	0.74	0.07	0.07	0.07	ND	0.09	0.01	0.00	0.00	ND	0.10
123789-HxCDF	0.1	0.01	0.00	ND	0.20	0.02	0.01	0.00	ND	0.10	0.01	0.01	0.00	ND	0.20
1234678-HpCDF	0.01	0.03	0.03		10.60	0.11	0.11	0.11	J	1.40	0.01	0.01	0.01	ND	1.10
1234789-HpCDF	0.01	0.00	0.00	ND	0.80	0.01	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.20
12346789-OCDF	0.001	0.00	0.00		15.00	0.02	0.02	0.02	J	2.00	0.00	0.00	0.00	J	2.60
nondetects = detection limit					TEQ=	3.49				TEQ=	1.14				TEQ=
nondetects = 1/2 d.l.		0.66			teq=		3.37			teq=		1.02			teq=
nondetects = zero			0.35		teq=			3.26		teq=			0.91		teq=
Totals				Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g
TOTAL TCDD					0.64	1.00			ND	0.30				ND	0.20
TOTAL PeCDD				ND	2.80					0.26	1.00			ND	0.10
TOTAL HxCDD					11.50	7.00				0.76	3.00				0.79
TOTAL HpCDD					57.20	2.00				6.10	2.00				3.40
TOTAL TCDF					12.60	3.00				4.80	3.00				2.20
TOTAL PeCDF					9.50	6.00				3.10	4.00				0.84
TOTAL HxCDF					9.80	7.00				1.50	3.00				0.76
TOTAL HpCDF					21.00	2.00				2.70	2.00			ND	2.50
% Finer than #200 Sieve					50.70					54.30					64.40
% Total Organic Carbon					1.90					1.50					0.83
% Solids					81.00					76.00					83.00
Latitude					43.510356218N										
Longitude					84.123324510W										
Northing (MiGeoRef)					330531.28m										
Easting (MiGeoRef)					651534.10m										
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES													
		II LLIVE 4-15				II LIVE 5-3					II LIVE 5-6				
		FINAL				FINAL					FINAL				
Analyte	TEF	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags
		detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero	
1368-TCDD	0	0.00	0.00	0.00	J	0.85	0.00	0.00	0.00	ND	0.70	0.00	0.00	0.00	ND
1379-TCDD	0	0.00	0.00	0.00	J	0.58	0.00	0.00	0.00	ND	0.50	0.00	0.00	0.00	ND
2378-TCDD	1	0.20	0.10	0.00	J	0.60	0.60	0.60	0.60	J	0.34	0.34	0.34	0.34	ND
12378-PeCDD	0.5	0.05	0.03	0.00	J	0.42	0.21	0.21	0.21	ND	0.30	0.15	0.08	0.00	ND
123478-HxCDD	0.1	0.02	0.01	0.00	J	0.38	0.04	0.04	0.04	J	0.26	0.03	0.03	0.03	ND
123678-HxCDD	0.1	0.02	0.01	0.00	J	1.00	0.10	0.10	0.10	J	0.73	0.07	0.07	0.07	ND
123789-HxCDD	0.1	0.02	0.01	0.00	J	0.86	0.09	0.09	0.09	J	0.58	0.06	0.06	0.06	J
1234678-HpCDD	0.01	0.02	0.01	0.00		14.70	0.15	0.15	0.15		10.40	0.10	0.10	0.10	J
12346789-OCDD	0.001	0.02	0.02	0.02		139.00	0.14	0.14	0.14		92.00	0.09	0.09	0.09	
1368-TCDF	0	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND
2378TCDF	0.1	0.10	0.10	0.10		11.40	1.14	1.14	1.14		5.60	0.56	0.56	0.56	
12378-PeCDF	0.05	0.03	0.03	0.03	J	4.40	0.22	0.22	0.22		3.80	0.19	0.19	0.19	J
23478-PeCDF	0.5	0.15	0.08	0.00	J	3.80	1.90	1.90	1.90	J	2.30	1.15	1.15	1.15	J
123478-HxCDF	0.1	0.04	0.04	0.04	J	3.60	0.36	0.36	0.36	J	3.10	0.31	0.31	0.31	J
123678-HxCDF	0.1	0.01	0.01	0.00	ND	1.10	0.11	0.06	0.00	J	0.91	0.09	0.09	0.09	J
234678-HxCDF	0.1	0.01	0.01	0.00	J	0.82	0.08	0.08	0.08	J	0.63	0.06	0.06	0.06	J
123789-HxCDF	0.1	0.02	0.01	0.00	ND	0.09	0.01	0.00	0.00	ND	0.09	0.01	0.00	0.00	ND
1234678-HpCDF	0.01	0.01	0.01	0.00		16.60	0.17	0.17	0.17	ND	14.40	0.14	0.07	0.00	J
1234789-HpCDF	0.01	0.00	0.00	0.00	J	0.71	0.01	0.01	0.01		0.57	0.01	0.01	0.01	J
12346789-OCDF	0.001	0.00	0.00	0.00		20.00	0.02	0.02	0.02	J	18.70	0.02	0.02	0.02	J
nondetects = detection limit		0.72				TEQ=	5.33				TEQ=	3.38			
nondetects = 1/2 d.l.			0.45			teq=		5.27			teq=		3.23		
nondetects = zero				0.19		teq=			5.22		teq=			3.08	
Totals		Number			Flags	Concentration	Number			Flags	Concentration	Number			Flags
						pg/g					pg/g				
TOTAL TCDD						2.30	4.00				0.34	1.00			ND
TOTAL PeCDD						2.30	4.00				0.51	1.00			ND
TOTAL HxCDD		2.00				7.60	5.00				5.60	6.00			
TOTAL HpCDD		1.00				28.60	2.00				18.90	2.00			
TOTAL TCDF		3.00				27.60	6.00				13.60	7.00			
TOTAL PeCDF		2.00				14.90	8.00				10.90	7.00			
TOTAL HxCDF		2.00				11.90	6.00				10.40	7.00			
TOTAL HpCDF						31.60	3.00				27.30	3.00			
% Finer than #200 Sieve						50.20					50.20				
% Total Organic Carbon						2.10					1.70				
% Solids						79.00					76.00				
Latitude						43.510299607N									
Longitude						84.123204987W									
Northing (MiGeoRef)						330525.21m									
Easting (MiGeoRef)						651543.91m									
Elevation (NAVD 1929 in feet)															



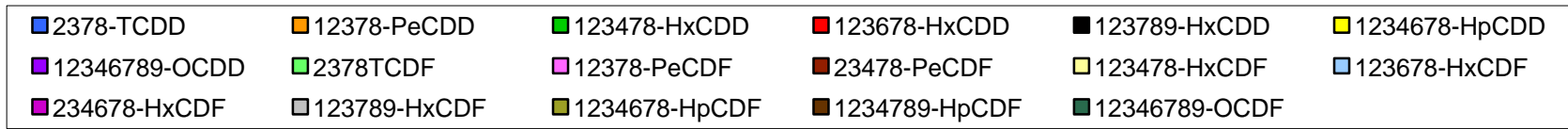
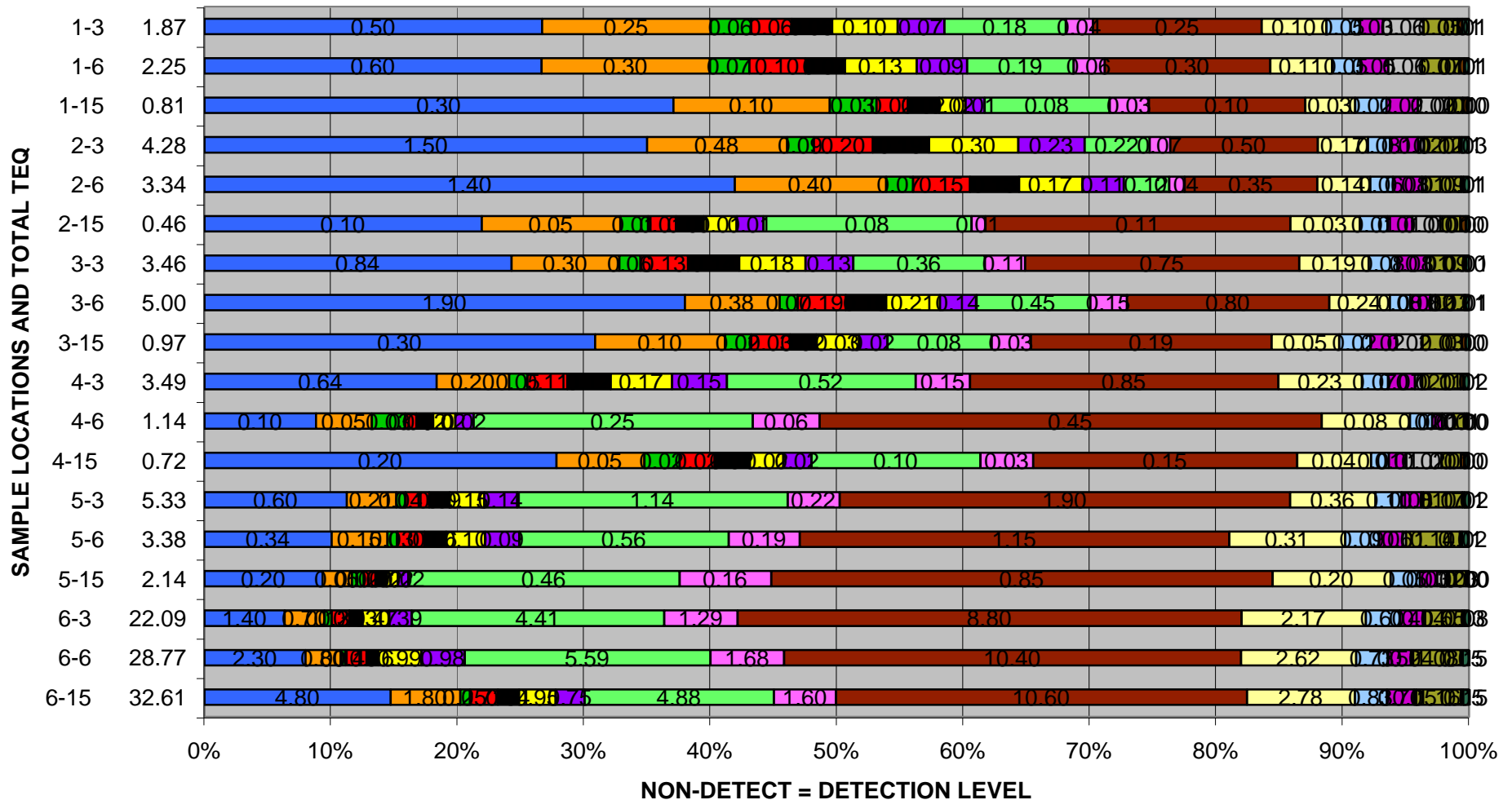
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02						PHASE II - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES														
						II LIVE 5-15					II LIVE 6-3					II LIVE 6-6				
						FINAL					FINAL					FINAL				
Analyte	TEF	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	0.20	0.00	0.00	0.00		4.20	0.00	0.00	0.00		5.30	0.00	0.00	0.00		5.30	0.00	0.00	0.00
1379-TCDD	0	0.20	0.00	0.00	0.00		2.40	0.00	0.00	0.00		3.90	0.00	0.00	0.00		3.90	0.00	0.00	0.00
2378-TCDD	1	0.20	0.20	0.10	0.00		1.40	1.40	1.40	1.40		2.30	2.30	2.30	2.30		2.30	2.30	2.30	2.30
12378-PeCDD	0.5	0.10	0.05	0.03	0.00	J	1.40	0.70	0.70	0.70	J	1.60	0.80	0.80	0.80		1.60	0.80	0.80	0.80
123478-HxCDD	0.1	0.20	0.02	0.01	0.00	J	1.20	0.12	0.12	0.12	J	1.10	0.11	0.11	0.11		1.10	0.11	0.11	0.11
123678-HxCDD	0.1	0.20	0.02	0.01	0.00	J	3.10	0.31	0.31	0.31	J	4.80	0.48	0.48	0.48		4.80	0.48	0.48	0.48
123789-HxCDD	0.1	0.18	0.02	0.02	0.02	J	2.30	0.23	0.23	0.23	J	2.60	0.26	0.26	0.26		2.60	0.26	0.26	0.26
1234678-HpCDD	0.01	2.00	0.02	0.02	0.02		46.80	0.47	0.47	0.47		98.80	0.99	0.99	0.99		98.80	0.99	0.99	0.99
12346789-OCDD	0.001	17.80	0.02	0.02	0.02		391.00	0.39	0.39	0.39		983.00	0.98	0.98	0.98		983.00	0.98	0.98	0.98
1368-TCDF	0	0.10	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.07	0.00	0.00	0.00		0.07	0.00	0.00	0.00
2378TCDF	0.1	4.60	0.46	0.46	0.46		44.10	4.41	4.41	4.41		55.90	5.59	5.59	5.59		55.90	5.59	5.59	5.59
12378-PeCDF	0.05	3.10	0.16	0.16	0.16		25.70	1.29	1.29	1.29		33.50	1.68	1.68	1.68		33.50	1.68	1.68	1.68
23478-PeCDF	0.5	1.70	0.85	0.85	0.85		17.60	8.80	8.80	8.80		20.80	10.40	10.40	10.40		20.80	10.40	10.40	10.40
123478-HxCDF	0.1	2.00	0.20	0.20	0.20		21.70	2.17	2.17	2.17		26.20	2.62	2.62	2.62		26.20	2.62	2.62	2.62
123678-HxCDF	0.1	0.50	0.05	0.05	0.05		6.00	0.60	0.60	0.60		7.30	0.73	0.73	0.73		7.30	0.73	0.73	0.73
234678-HxCDF	0.1	0.29	0.03	0.03	0.03	J	4.00	0.40	0.40	0.40		5.20	0.52	0.52	0.52		5.20	0.52	0.52	0.52
123789-HxCDF	0.1	0.20	0.02	0.01	0.00	J	0.35	0.04	0.04	0.04	J	0.43	0.04	0.04	0.04		0.43	0.04	0.04	0.04
1234678-HpCDF	0.01	2.90	0.03	0.03	0.03		65.10	0.65	0.65	0.65		108.00	1.08	1.08	1.08		108.00	1.08	1.08	1.08
1234789-HpCDF	0.01	0.20	0.00	0.00	0.00	J	3.30	0.03	0.03	0.03	J	4.80	0.05	0.05	0.05		4.80	0.05	0.05	0.05
12346789-OCDF	0.001	3.00	0.00	0.00	0.00		83.70	0.08	0.08	0.08		145.00	0.15	0.15	0.15		145.00	0.15	0.15	0.15
nondetects = detection limit		TEQ=	2.14				TEQ=	22.09				TEQ=	28.77				TEQ=	28.77		
nondetects = 1/2 d.l.		teq=		1.99			teq=		22.09			teq=		28.77			teq=		28.77	
nondetects = zero		teq=			1.83		teq=			22.09		teq=					teq=			28.77
Totals		Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number		
TOTAL TCDD		0.20					11.00	6.00				16.70	7.00				16.70	7.00		
TOTAL PeCDD		0.10					9.40	6.00				16.30	9.00				16.30	9.00		
TOTAL HxCDD		1.20	3.00				24.30	7.00				34.70	7.00				34.70	7.00		
TOTAL HpCDD		3.80	2.00				82.80	2.00				177.00	2.00				177.00	2.00		
TOTAL TCDF		10.70	7.00				138.00	13.00				172.00	12.00				172.00	12.00		
TOTAL PeCDF		7.60	5.00				90.50	11.00				108.00	12.00				108.00	12.00		
TOTAL HxCDF		4.00	5.00				64.60	9.00				87.60	9.00				87.60	9.00		
TOTAL HpCDF		5.00	3.00				127.00	4.00				219.00	3.00				219.00	3.00		
% Finer than #200 Sieve		51.20					63.60					61.20					61.20			
% Total Organic Carbon		0.81					3					3.80					3.80			
% Solids		83.00					77					73.00					73.00			
Latitude							43.510400572N													
Longitude							84.122889416W													
Northing (MiGeoRef)							330537.00m													
Easting (MiGeoRef)							651569.15m													
Elevation (NAVD 1929 in feet)																				

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02						
				II LIVE 6-15		
				FINAL		
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		15.30	0.00	0.00	0.00
1379-TCDD	0		8.40	0.00	0.00	0.00
2378-TCDD	1		4.80	4.80	4.80	4.80
12378-PeCDD	0.5	J	3.60	1.80	1.80	1.80
123478-HxCDD	0.1	J	2.50	0.25	0.25	0.25
123678-HxCDD	0.1		7.20	0.72	0.72	0.72
123789-HxCDD	0.1	J	5.40	0.54	0.54	0.54
1234678-HpCDD	0.01		94.70	0.95	0.95	0.95
12346789-OCDD	0.001		746.00	0.75	0.75	0.75
1368-TCDF	0	ND	0.10	0.00	0.00	0.00
2378TCDF	0.1		48.80	4.88	4.88	4.88
12378-PeCDF	0.05		32.00	1.60	1.60	1.60
23478-PeCDF	0.5		21.20	10.60	10.60	10.60
123478-HxCDF	0.1		27.80	2.78	2.78	2.78
123678-HxCDF	0.1		8.30	0.83	0.83	0.83
234678-HxCDF	0.1		7.00	0.70	0.70	0.70
123789-HxCDF	0.1	J	0.54	0.05	0.05	0.05
1234678-HpCDF	0.01		116.00	1.16	1.16	1.16
1234789-HpCDF	0.01		5.00	0.05	0.05	0.05
12346789-OCDF	0.001		149.00	0.15	0.15	0.15
nondetects = detection limit			TEQ=	32.61		
nondetects = 1/2 d.l.			teq=		32.61	
nondetects = zero			teq=			32.61
Totals		Flags	Concentration pg/g	Number		
TOTAL TCDD			40.80	8.00		
TOTAL PeCDD			33.50	8.00		
TOTAL HxCDD			63.20	7.00		
TOTAL HpCDD			181.00	2.00		
TOTAL TCDF			227.00	13.00		
TOTAL PeCDF			129.00	10.00		
TOTAL HxCDF			117.00	10.00		
TOTAL HpCDF			232.00	3.00		
% Finer than #200 Sieve			NS			
% Total Organic Carbon			NS			
% Solids			NS			
Latitude						
Longitude						
Northing (MiGeoRef)						
Easting (MiGeoRef)						
Elevation (NAVD 1929 in feet)						

# TITTABAWASSEE RIVER PROJECT - LIVESTOCK FARM, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 1-3 UNDILUTED			II IMP 1-3 DILUTED			5/6/2002		II IMP 1-3 <i>FINAL</i>		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		40.60						40.60	0.00	0.00	0.00
1379-TCDD	0		25.30						25.30	0.00	0.00	0.00
2378-TCDD	1		16.00						16.00	16.00	16.00	16.00
12378-PeCDD	0.5		17.60						17.60	8.80	8.80	8.80
123478-HxCDD	0.1		14.00						14.00	1.40	1.40	1.40
123678-HxCDD	0.1		88.70						88.70	8.87	8.87	8.87
123789-HxCDD	0.1		35.00						35.00	3.50	3.50	3.50
1234678-HpCDD	0.01		1950.00						1950.00	19.50	19.50	19.50
12346789-OCDD	0.001	E	18250.00			14320.00			14320.00	14.32	14.32	14.32
1368-TCDF	0	ND	0.20					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	4480.00			2690.00			2690.00	269.00	269.00	269.00
12378-PeCDF	0.05	E	2290.00			1610.00			1610.00	80.50	80.50	80.50
23478-PeCDF	0.5		1370.00						1370.00	685.00	685.00	685.00
123478-HxCDF	0.1		1590.00						1590.00	159.00	159.00	159.00
123678-HxCDF	0.1		397.00						397.00	39.70	39.70	39.70
234678-HxCDF	0.1		218.00						218.00	21.80	21.80	21.80
123789-HxCDF	0.1		28.90						28.90	2.89	2.89	2.89
1234678-HpCDF	0.01	E	2950.00			1710.00			1710.00	17.10	17.10	17.10
1234789-HpCDF	0.01		200.00						200.00	2.00	2.00	2.00
12346789-OCDF	0.001	E	5110.00			4060.00			4060.00	4.06	4.06	4.06
nondetects = detection limit									TEQ=	1353.44		
nondetects = 1/2 d.l.									teq=		1353.44	
nondetects = zero									teq=			1353.44
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			131.00	6.00					131.00	6.00		
TOTAL PeCDD			177.00	6.00					177.00	6.00		
TOTAL HxCDD			631.00	8.00					631.00	8.00		
TOTAL HpCDD			3300.00	2.00					3300.00	2.00		
TOTAL TCDF		E	10610.00	16.00		6810.00	10		6810.00	10.00		
TOTAL PeCDF		E	6610.00	10.00		4720.00	8		4720.00	8.00		
TOTAL HxCDF			3670.00	10.00					3670.00	10.00		
TOTAL HpCDF		E	7100.00	4.00		4200.00	2		4200.00	2.00		
% Finer than #200 Sieve									67.5			
% Total Organic Carbon									2.8			
% Solids									77			
Latitude									43.453430907N			
Longitude									84.081867058W			
Northing (MiGeoRef)									324287.68m			
Easting (MiGeoRef)									655031.26m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 1-6 UNDILUTED			II IMP 1-6 DILUTED			II IMP 1-6 FINAL				
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		70.30					70.30	0.00	0.00	0.00	
1379-TCDD	0		30.70					30.70	0.00	0.00	0.00	
2378-TCDD	1		18.70					18.70	18.70	18.70	18.70	
12378-PeCDD	0.5		21.80					21.80	10.90	10.90	10.90	
123478-HxCDD	0.1		15.40					15.40	1.54	1.54	1.54	
123678-HxCDD	0.1		85.20					85.20	8.52	8.52	8.52	
123789-HxCDD	0.1		39.90					39.90	3.99	3.99	3.99	
1234678-HpCDD	0.01		1370.00					1370.00	13.70	13.70	13.70	
12346789-OCDD	0.001	E	13250.00			12200.00		12200.00	12.20	12.20	12.20	
1368-TCDF	0	ND	0.40				ND	0.40	0.00	0.00	0.00	
2378TCDF	0.1	E	8350.00			6140.00		6140.00	614.00	614.00	614.00	
12378-PeCDF	0.05	E	4420.00			3540.00		3540.00	177.00	177.00	177.00	
23478-PeCDF	0.5	E	2610.00			2310.00		2310.00	1155.00	1155.00	1155.00	
123478-HxCDF	0.1	E	2990.00			2300.00		2300.00	230.00	230.00	230.00	
123678-HxCDF	0.1		755.00					755.00	75.50	75.50	75.50	
234678-HxCDF	0.1		394.00					394.00	39.40	39.40	39.40	
123789-HxCDF	0.1		67.60					67.60	6.76	6.76	6.76	
1234678-HpCDF	0.01	E	2960.00			2160.00		2160.00	21.60	21.60	21.60	
1234789-HpCDF	0.01		256.00					256.00	2.56	2.56	2.56	
12346789-OCDF	0.001		3990.00					3990.00	3.99	3.99	3.99	
nondetects = detection limit								TEQ=	2395.36			
nondetects = 1/2 d.l.								teq=		2395.36		
nondetects = zero								teq=			2395.36	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			177.00	7					177.00	7.00		
TOTAL PeCDD			223.00	6					223.00	6.00		
TOTAL HxCDD			649.00	7					649.00	7.00		
TOTAL HpCDD			2390.00	2					2390.00	2.00		
TOTAL TCDF		E	20850.00	13		14300.00	10		14300.00	10.00		
TOTAL PeCDF		E	13070.00	11		10960.00	8		10960.00	8.00		
TOTAL HxCDF		E	6090.00	11		4320.00	6		4320.00	6.00		
TOTAL HpCDF		E	6150.00	4		4490.00	3		4490.00	3.00		
% Finer than #200 Sieve									65.3			
% Total Organic Carbon									2			
% Solids									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 1-15 UNDILUTED			II IMP 1-15 DILUTED			II IMP 1-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		204.00						204.00	0.00	0.00	0.00
1379-TCDD	0		103.00						103.00	0.00	0.00	0.00
2378-TCDD	1		28.10						28.10	28.10	28.10	28.10
12378-PeCDD	0.5		29.70						29.70	14.85	14.85	14.85
123478-HxCDD	0.1		60.20						60.20	6.02	6.02	6.02
123678-HxCDD	0.1		352.00						352.00	35.20	35.20	35.20
123789-HxCDD	0.1		157.00						157.00	15.70	15.70	15.70
1234678-HpCDD	0.01	E	4990.00			4110.00			4110.00	41.10	41.10	41.10
12346789-OCDD	0.001	E	48330.00			47950.00			47950.00	47.95	47.95	47.95
1368-TCDF	0	ND	0.40					ND	0.40	0.00	0.00	0.00
2378TCDF	0.1	E	6400.00			4650.00			4650.00	465.00	465.00	465.00
12378-PeCDF	0.05	E	3120.00			2680.00			2680.00	134.00	134.00	134.00
23478-PeCDF	0.5		563.00						563.00	281.50	281.50	281.50
123478-HxCDF	0.1	E	2840.00			2080.00			2080.00	208.00	208.00	208.00
123678-HxCDF	0.1		678.00						678.00	67.80	67.80	67.80
234678-HxCDF	0.1		399.00						399.00	39.90	39.90	39.90
123789-HxCDF	0.1		53.50						53.50	5.35	5.35	5.35
1234678-HpCDF	0.01	E	11890.00			8540.00			8540.00	85.40	85.40	85.40
1234789-HpCDF	0.01		566.00						566.00	5.66	5.66	5.66
12346789-OCDF	0.001	E	14930.00			14360.00			14360.00	14.36	14.36	14.36
nondetects = detection limit									TEQ=	1495.89		
nondetects = 1/2 d.l.									teq=		1495.89	
nondetects = zero									teq=			1495.89
<b>Totals</b>		<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>		
TOTAL TCDD		E	460.00	6.00		261.00	2		261.00	2.00		
TOTAL PeCDD		Q	812.00	7.00				Q	812.00	7.00		
TOTAL HxCDD			2710.00	7.00					2710.00	7.00		
TOTAL HpCDD		E	8870.00	2.00		7320.00	2		7320.00	2.00		
TOTAL TCDF		E	15600.00	16.00		11020.00	11		11020.00	11.00		
TOTAL PeCDF		E	10540.00	17.00		7890.00	7		7890.00	7.00		
TOTAL HxCDF		E	8760.00	12.00		6700.00	7		6700.00	7.00		
TOTAL HpCDF		E	23530.00	4.00		17550.00	4		17550.00	4.00		
<b>% Finer than #200 Sieve</b>									49.9			
<b>% Total Organic Carbon</b>									1.9			
<b>% Solids</b>									82			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 2-3 UNDILUTED			II IMP 2-3 DILUTED			II IMP 2-3 FINAL				
		Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero		
1368-TCDD	0		18.20				18.20	0.00	0.00	0.00		
1379-TCDD	0		7.20				7.20	0.00	0.00	0.00		
2378-TCDD	1		5.50				5.50	5.50	5.50	5.50		
12378-PeCDD	0.5	J	4.70			J	4.70	2.35	2.35	2.35		
123478-HxCDD	0.1	J	3.70			J	3.70	0.37	0.37	0.37		
123678-HxCDD	0.1		17.80				17.80	1.78	1.78	1.78		
123789-HxCDD	0.1	J	8.60			J	8.60	0.86	0.86	0.86		
1234678-HpCDD	0.01		302.00				302.00	3.02	3.02	3.02		
12346789-OCDD	0.001		2810.00				2810.00	2.81	2.81	2.81		
1368-TCDF	0	ND	0.08			ND	0.08	0.00	0.00	0.00		
2378TCDF	0.1	E	4600.00		2570.00		2570.00	257.00	257.00	257.00		
12378-PeCDF	0.05	E	2360.00		1570.00		1570.00	78.50	78.50	78.50		
23478-PeCDF	0.5		1440.00				1440.00	720.00	720.00	720.00		
123478-HxCDF	0.1		1200.00				1200.00	120.00	120.00	120.00		
123678-HxCDF	0.1		301.00				301.00	30.10	30.10	30.10		
234678-HxCDF	0.1		175.00				175.00	17.50	17.50	17.50		
123789-HxCDF	0.1		25.60				25.60	2.56	2.56	2.56		
1234678-HpCDF	0.01		651.00				651.00	6.51	6.51	6.51		
1234789-HpCDF	0.01		79.20				79.20	0.79	0.79	0.79		
12346789-OCDF	0.001		783.00				783.00	0.78	0.78	0.78		
nondetects = detection limit							TEQ=	1250.44				
nondetects = 1/2 d.l.							teq=		1250.44			
nondetects = zero							teq=			1250.44		
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			36.50	4.00					36.50	4.00		
TOTAL PeCDD			27.40	4.00					27.40	4.00		
TOTAL HxCDD			127.00	8.00					127.00	8.00		
TOTAL HpCDD			516.00	2.00					516.00	2.00		
TOTAL TCDF		S,E	4640.00	13.00		5640.00	11		5640.00	11.00		
TOTAL PeCDF		E	6970.00	12.00		4610.00	8		4610.00	8.00		
TOTAL HxCDF			2340.00	11.00					2340.00	11.00		
TOTAL HpCDF			1360.00	4.00					1360.00	4.00		
% Finer than #200 Sieve									50			
% Total Organic Carbon									2.3			
% Solids									82			
Latitude									43.453661372N			
Longitude									84.081571621W			
Northing (MiGeoRef)									324313.83m			
Easting (MiGeoRef)									655054.57m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 2-6 UNDILUTED			II IMP 2-6 DILUTED			Flags	II IMP 2-6 FINAL			
		Flags	Concentration pg/g		Flags	Concentration pg/g			Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		17.90					17.90	0.00	0.00	0.00	
1379-TCDD	0		9.40					9.40	0.00	0.00	0.00	
2378-TCDD	1		5.60					5.60	5.60	5.60	5.60	
12378-PeCDD	0.5		5.00					5.00	2.50	2.50	2.50	
123478-HxCDD	0.1	J	4.30				J	4.30	0.43	0.43	0.43	
123678-HxCDD	0.1		22.10					22.10	2.21	2.21	2.21	
123789-HxCDD	0.1		11.00					11.00	1.10	1.10	1.10	
1234678-HpCDD	0.01		432.00					432.00	4.32	4.32	4.32	
12346789-OCDD	0.001	E	4060.00		3280.00			3280.00	3.28	3.28	3.28	
1368-TCDF	0	ND	0.09				ND	0.09	0.00	0.00	0.00	
2378TCDF	0.1	E	3600.00		1820.00			1820.00	182.00	182.00	182.00	
12378-PeCDF	0.05		1750.00					1750.00	87.50	87.50	87.50	
23478-PeCDF	0.5		1160.00					1160.00	580.00	580.00	580.00	
123478-HxCDF	0.1		942.00					942.00	94.20	94.20	94.20	
123678-HxCDF	0.1		247.00					247.00	24.70	24.70	24.70	
234678-HxCDF	0.1		141.00					141.00	14.10	14.10	14.10	
123789-HxCDF	0.1		22.80					22.80	2.28	2.28	2.28	
1234678-HpCDF	0.01		849.00					849.00	8.49	8.49	8.49	
1234789-HpCDF	0.01		75.40					75.40	0.75	0.75	0.75	
12346789-OCDF	0.001		1130.00					1130.00	1.13	1.13	1.13	
nondetects = detection limit								TEQ=	1014.59			
nondetects = 1/2 d.l.								teq=		1014.59		
nondetects = zero								teq=			1014.59	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD		E	41.10	5.00	ND	14.00		ND	14.00			
TOTAL PeCDD			30.80	6.00					30.80	6.00		
TOTAL HxCDD			148.00	7.00					148.00	7.00		
TOTAL HpCDD			745.00	2.00					745.00	2.00		
TOTAL TCDF		S,E	4100.00	11.00		4710.00	8.00		4710.00	8.00		
TOTAL PeCDF			5470.00	11.00					5470.00	11.00		
TOTAL HxCDF			1960.00	11.00					1960.00	11.00		
TOTAL HpCDF			1770.00	4.00					1770.00	4.00		
% Finer than #200 Sieve									53.5			
% Total Organic Carbon									1.9			
% Solids									84			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 2-15 UNDILUTED			II IMP 2-15 DILUTED			II IMP 2-15 FINAL				
		Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		10.30					10.30	0.00	0.00	0.00	
1379-TCDD	0		7.00					7.00	0.00	0.00	0.00	
2378-TCDD	1		3.80					3.80	3.80	3.80	3.80	
12378-PeCDD	0.5	J	4.20				J	4.20	2.10	2.10	2.10	
123478-HxCDD	0.1	J	3.30				J	3.30	0.33	0.33	0.33	
123678-HxCDD	0.1		15.00					15.00	1.50	1.50	1.50	
123789-HxCDD	0.1	J	8.10				J	8.10	0.81	0.81	0.81	
1234678-HpCDD	0.01		254.00					254.00	2.54	2.54	2.54	
12346789-OCDD	0.001		2380.00					2380.00	2.38	2.38	2.38	
1368-TCDF	0	ND	0.07				ND	0.07	0.00	0.00	0.00	
2378TCDF	0.1	E	2730.00			2400.00		2400.00	240.00	240.00	240.00	
12378-PeCDF	0.05		1500.00					1500.00	75.00	75.00	75.00	
23478-PeCDF	0.5		897.00					897.00	448.50	448.50	448.50	
123478-HxCDF	0.1		799.00					799.00	79.90	79.90	79.90	
123678-HxCDF	0.1		198.00					198.00	19.80	19.80	19.80	
234678-HxCDF	0.1		111.00					111.00	11.10	11.10	11.10	
123789-HxCDF	0.1		19.60					19.60	1.96	1.96	1.96	
1234678-HpCDF	0.01		601.00					601.00	6.01	6.01	6.01	
1234789-HpCDF	0.01		58.20					58.20	0.58	0.58	0.58	
12346789-OCDF	0.001		655.00					655.00	0.66	0.66	0.66	
nondetects = detection limit								TEQ=	896.97			
nondetects = 1/2 d.l.								teq=		896.97		
nondetects = zero								teq=			896.97	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			34.60	7.00					34.60	7.00		
TOTAL PeCDD			36.80	8.00					36.80	8.00		
TOTAL HxCDD			111.00	8.00					111.00	8.00		
TOTAL HpCDD			441.00	2.00					441.00	2.00		
TOTAL TCDF		S,E	5800.00	14.00		3480.00	6.00		3480.00	6.00		
TOTAL PeCDF			4280.00	11.00					4280.00	11.00		
TOTAL HxCDF			1570.00	10.00					1570.00	10.00		
TOTAL HpCDF			1220.00	3.00					1220.00	3.00		
% Finer than #200 Sieve									51.9			
% Total Organic Carbon									1.3			
% Solids									86			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 3-3 UNDILUTED			II IMP 3-3 DILUTED			Flags	II IMP 3-3 FINAL			
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		16.90					16.90	0.00	0.00	0.00	
1379-TCDD	0		8.50					8.50	0.00	0.00	0.00	
2378-TCDD	1		7.40					7.40	7.40	7.40	7.40	
12378-PeCDD	0.5	J	4.90				J	4.90	2.45	2.45	2.45	
123478-HxCDD	0.1		5.40					5.40	0.54	0.54	0.54	
123678-HxCDD	0.1		23.10					23.10	2.31	2.31	2.31	
123789-HxCDD	0.1		12.70					12.70	1.27	1.27	1.27	
1234678-HpCDD	0.01		476.00					476.00	4.76	4.76	4.76	
12346789-OCDD	0.001	E	4450.00		3570.00			3570.00	3.57	3.57	3.57	
1368-TCDF	0	ND	0.08				ND	0.08	0.00	0.00	0.00	
2378TCDF	0.1	E	3390.00		1780.00			1780.00	178.00	178.00	178.00	
12378-PeCDF	0.05		1770.00					1770.00	88.50	88.50	88.50	
23478-PeCDF	0.5		1070.00					1070.00	535.00	535.00	535.00	
123478-HxCDF	0.1		930.00					930.00	93.00	93.00	93.00	
123678-HxCDF	0.1		229.00					229.00	22.90	22.90	22.90	
234678-HxCDF	0.1		136.00					136.00	13.60	13.60	13.60	
123789-HxCDF	0.1		22.40					22.40	2.24	2.24	2.24	
1234678-HpCDF	0.01		795.00					795.00	7.95	7.95	7.95	
1234789-HpCDF	0.01		74.60					74.60	0.75	0.75	0.75	
12346789-OCDF	0.001		1070.00					1070.00	1.07	1.07	1.07	
nondetects = detection limit								TEQ=	965.31			
nondetects = 1/2 d.l.								teq=		965.31		
nondetects = zero								teq=			965.31	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			46.60	6.00					46.60	6.00		
TOTAL PeCDD			51.00	8.00					51.00	8.00		
TOTAL HxCDD			173.00	8.00					173.00	8.00		
TOTAL HpCDD			829.00	2.00					829.00	2.00		
TOTAL TCDF		S,E	3350.00	16.00		3350.00	7.00		3350.00	7.00		
TOTAL PeCDF			5080.00	11.00					5080.00	11.00		
TOTAL HxCDF			1920.00	11.00					1920.00	11.00		
TOTAL HpCDF			1730.00	4.00					1730.00	4.00		
% Finer than #200 Sieve									52.7			
% Total Organic Carbon									2.2			
% Solids									83			
Latitude									43.45407768N			
Longitude									84.081533408W			
Northing (MiGeoRef)									324360.13m			
Easting (MiGeoRef)									655056.58m			
Elevation (NAVD 1929 in feet)												



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 3-6 UNDILUTED			II IMP 3-6 DILUTED			II IMP 3-6 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		9.20						9.20	0.00	0.00	0.00
1379-TCDD	0		7.80						7.80	0.00	0.00	0.00
2378-TCDD	1		7.60						7.60	7.60	7.60	7.60
12378-PeCDD	0.5	J	4.70					J	4.70	2.35	2.35	2.35
123478-HxCDD	0.1	J	4.60					J	4.60	0.46	0.46	0.46
123678-HxCDD	0.1		22.30						22.30	2.23	2.23	2.23
123789-HxCDD	0.1		11.40						11.40	1.14	1.14	1.14
1234678-HpCDD	0.01		454.00						454.00	4.54	4.54	4.54
12346789-OCDD	0.001	E	4100.00			3310.00			3310.00	3.31	3.31	3.31
1368-TCDF	0	ND	0.07					ND	0.07	0.00	0.00	0.00
2378TCDF	0.1	E	3660.00			2030.00			2030.00	203.00	203.00	203.00
12378-PeCDF	0.05		1530.00						1530.00	76.50	76.50	76.50
23478-PeCDF	0.5		1040.00						1040.00	520.00	520.00	520.00
123478-HxCDF	0.1		799.00						799.00	79.90	79.90	79.90
123678-HxCDF	0.1		209.00						209.00	20.90	20.90	20.90
234678-HxCDF	0.1		122.00						122.00	12.20	12.20	12.20
123789-HxCDF	0.1		19.00						19.00	1.90	1.90	1.90
1234678-HpCDF	0.01		731.00						731.00	7.31	7.31	7.31
1234789-HpCDF	0.01		66.80						66.80	0.67	0.67	0.67
12346789-OCDF	0.001		1030.00						1030.00	1.03	1.03	1.03
nondetects = detection limit									TEQ=	945.04		
nondetects = 1/2 d.l.									teq=		945.04	
nondetects = zero									teq=			945.04
<b>Totals</b>		<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>		
TOTAL TCDD			37.50	6.00					37.50	6.00		
TOTAL PeCDD			42.30	7.00					42.30	7.00		
TOTAL HxCDD			161.00	8.00					161.00	8.00		
TOTAL HpCDD			785.00	2.00					785.00	2.00		
TOTAL TCDF		S,E	3440.00	13.00		3680.00	6.00		3680.00	6.00		
TOTAL PeCDF			4470.00	12.00					4470.00	12.00		
TOTAL HxCDF			1640.00	10.00					1640.00	10.00		
TOTAL HpCDF			1690.00	4.00					1690.00	4.00		
<b>% Finer than #200 Sieve</b>									53.3			
<b>% Total Organic Carbon</b>									2			
<b>% Solids</b>									85			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 3-15 UNDILUTED			II IMP 3-15 DILUTED			II IMP 3-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		8.7						8.7	0.00	0.00	0.00
1379-TCDD	0		4.40						4.40	0.00	0.00	0.00
2378-TCDD	1		3.00						3.00	3.00	3.00	3.00
12378-PeCDD	0.5	ND	2.50					ND	2.50	1.25	0.63	0.00
123478-HxCDD	0.1	J	2.10					J	2.10	0.21	0.21	0.21
123678-HxCDD	0.1		9.50						9.50	0.95	0.95	0.95
123789-HxCDD	0.1	J	4.80					J	4.80	0.48	0.48	0.48
1234678-HpCDD	0.01		199.00						199.00	1.99	1.99	1.99
12346789-OCDD	0.001		2470.00						2470.00	2.47	2.47	2.47
1368-TCDF	0	ND	0.08					ND	0.08	0.00	0.00	0.00
2378TCDF	0.1	E	3580.00			2520.00			2520.00	252.00	252.00	252.00
12378-PeCDF	0.05		1800.00						1800.00	90.00	90.00	90.00
23478-PeCDF	0.5		1120.00						1120.00	560.00	560.00	560.00
123478-HxCDF	0.1		934.00						934.00	93.40	93.40	93.40
123678-HxCDF	0.1		229.00						229.00	22.90	22.90	22.90
234678-HxCDF	0.1		130.00						130.00	13.00	13.00	13.00
123789-HxCDF	0.1		23.80						23.80	2.38	2.38	2.38
1234678-HpCDF	0.01		485.00						485.00	4.85	4.85	4.85
1234789-HpCDF	0.01		60.90						60.90	0.61	0.61	0.61
12346789-OCDF	0.001		605.00						605.00	0.61	0.61	0.61
nondetects = detection limit									TEQ=	1050.09		
nondetects = 1/2 d.l.									teq=		1049.47	
nondetects = zero									teq=			1048.84
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			24.10	6.00					24.10	6.00		
TOTAL PeCDD			13.70	3.00					13.70	3.00		
TOTAL HxCDD			73.10	8.00					73.10	8.00		
TOTAL HpCDD			349.00	2.00					349.00	2.00		
TOTAL TCDF		S,E	4000.00	15.00		5090.00	10.00		5090.00	10.00		
TOTAL PeCDF			5460.00	12.00					5460.00	12.00		
TOTAL HxCDF			1820.00	11.00					1820.00	11.00		
TOTAL HpCDF			960.00	4.00					960.00	4.00		
% Finer than #200 Sieve									55.1			
% Total Organic Carbon									1.3			
% Solids									86			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 4-3 UNDILUTED			II IMP 4-3 DILUTED			II IMP 4-3 FINAL				
		Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
		1368-TCDD	0		31.30					31.30	0.00	0.00
1379-TCDD	0		16.30					16.30	0.00	0.00	0.00	0.00
2378-TCDD	1		5.70					5.70	5.70	5.70	5.70	5.70
12378-PeCDD	0.5		12.60					12.60	6.30	6.30	6.30	6.30
123478-HxCDD	0.1		8.90					8.90	0.89	0.89	0.89	0.89
123678-HxCDD	0.1		32.20					32.20	3.22	3.22	3.22	3.22
123789-HxCDD	0.1		22.10					22.10	2.21	2.21	2.21	2.21
1234678-HpCDD	0.01		487.00					487.00	4.87	4.87	4.87	4.87
12346789-OCDD	0.001	E	4300.00		3210.00			3210.00	3.21	3.21	3.21	3.21
1368-TCDF	0	ND	0.20				ND	0.20	0.00	0.00	0.00	0.00
2378TCDF	0.1	E	2330.00		1250.00			1250.00	125.00	125.00	125.00	125.00
12378-PeCDF	0.05		1030.00					1030.00	51.50	51.50	51.50	51.50
23478-PeCDF	0.5		616.00					616.00	308.00	308.00	308.00	308.00
123478-HxCDF	0.1		628.00					628.00	62.80	62.80	62.80	62.80
123678-HxCDF	0.1		154.00					154.00	15.40	15.40	15.40	15.40
234678-HxCDF	0.1		89.00					89.00	8.90	8.90	8.90	8.90
123789-HxCDF	0.1		9.90					9.90	0.99	0.99	0.99	0.99
1234678-HpCDF	0.01		675.00					675.00	6.75	6.75	6.75	6.75
1234789-HpCDF	0.01		55.90					55.90	0.56	0.56	0.56	0.56
12346789-OCDF	0.001		1140.00					1140.00	1.14	1.14	1.14	1.14
nondetects = detection limit								TEQ=	607.44			
nondetects = 1/2 d.l.								teq=		607.44		
nondetects = zero								teq=			607.44	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			67.70	5.00					67.70	5.00		
TOTAL PeCDD			78.20	5.00					78.20	5.00		
TOTAL HxCDD			222.00	7.00					222.00	7.00		
TOTAL HpCDD			831.00	2.00					831.00	2.00		
TOTAL TCDF		E	4610.00	14.00		2640.00	10.00		2640.00	10.00		
TOTAL PeCDF			3050.00	13.00					3050.00	13.00		
TOTAL HxCDF			1350.00	10.00					1350.00	10.00		
TOTAL HpCDF			1540.00	4.00					1540.00	4.00		
% Finer than #200 Sieve									85.2			
% Total Organic Carbon									4			
% Solids									74			
Latitude									43.454395021N			
Longitude									84.080574386W			
Northing (MiGeoRef)									324397.16m			
Easting (MiGeoRef)									655133.34m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 4-6 UNDILUTED			II IMP 4-6 DILUTED			II IMP 4.-6 FINAL				
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	nondetect	nondetect	nondetect
										detection level	1/2 d.l.	zero
1368-TCDD	0		15.10					15.10	0.00	0.00	0.00	
1379-TCDD	0		13.50					13.50	0.00	0.00	0.00	
2378-TCDD	1		8.30					8.30	8.30	8.30	8.30	
12378-PeCDD	0.5		9.70					9.70	4.85	4.85	4.85	
123478-HxCDD	0.1		7.00					7.00	0.70	0.70	0.70	
123678-HxCDD	0.1		29.60					29.60	2.96	2.96	2.96	
123789-HxCDD	0.1		17.40					17.40	1.74	1.74	1.74	
1234678-HpCDD	0.01		535.00					535.00	5.35	5.35	5.35	
12346789-OCDD	0.001	E	5290.00		ND	2300.00		ND	2300.00	2.30	1.15	0.00
1368-TCDF	0	ND	0.20					0.20	0.00	0.00	0.00	
2378TCDF	0.1	E	4240.00			1050.00		1050.00	105.00	105.00	105.00	
12378-PeCDF	0.05		1930.00					1930.00	96.50	96.50	96.50	
23478-PeCDF	0.5		1150.00					1150.00	575.00	575.00	575.00	
123478-HxCDF	0.1		1160.00					1160.00	116.00	116.00	116.00	
123678-HxCDF	0.1		282.00					282.00	28.20	28.20	28.20	
234678-HxCDF	0.1		163.00					163.00	16.30	16.30	16.30	
123789-HxCDF	0.1		20.40					20.40	2.04	2.04	2.04	
1234678-HpCDF	0.01		833.00					833.00	8.33	8.33	8.33	
1234789-HpCDF	0.01		83.50					83.50	0.84	0.84	0.84	
12346789-OCDF	0.001		1290.00					1290.00	1.29	1.29	1.29	
nondetects = detection limit								TEQ=	975.70			
nondetects = 1/2 d.l.								teq=		974.55		
nondetects = zero								teq=			973.40	
<b>Totals</b>		<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>		
TOTAL TCDD			57.20	6.00					57.20	6.00		
TOTAL PeCDD			90.80	9.00					90.80	9.00		
TOTAL HxCDD			208.00	6.00					208.00	6.00		
TOTAL HpCDD			942.00	2.00					942.00	2.00		
TOTAL TCDF		E	8180.00	13.00		1840.00	3.00		1840.00	3.00		
TOTAL PeCDF			5420.00	12.00					5420.00	12.00		
TOTAL HxCDF			2270.00	10.00					2270.00	10.00		
TOTAL HpCDF			1940.00	4.00					1940.00	4.00		
<b>% Finer than #200 Sieve</b>									86.3			
<b>% Total Organic Carbon</b>									3.1			
<b>% Solids</b>									77			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 4-15 UNDILUTED			II IMP 4-15 DILUTED			Flags	II IMP 4-15 FINAL			
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		Concentration pg/g	nondetect	nondetect	nondetect
										detection level	1/2 d.l.	zero
1368-TCDD	0		25.70					25.70	0.00	0.00	0.00	
1379-TCDD	0		12.80					12.80	0.00	0.00	0.00	
2378-TCDD	1		3.80					3.80	3.80	3.80	3.80	
12378-PeCDD	0.5		8.30					8.30	4.15	4.15	4.15	
123478-HxCDD	0.1		5.60					5.60	0.56	0.56	0.56	
123678-HxCDD	0.1		25.00					25.00	2.50	2.50	2.50	
123789-HxCDD	0.1		13.10					13.10	1.31	1.31	1.31	
1234678-HpCDD	0.01		413.00					413.00	4.13	4.13	4.13	
12346789-OCDD	0.001	E	4660.00		3230.00			3230.00	3.23	3.23	3.23	
1368-TCDF	0	ND	0.20				ND	0.20	0.00	0.00	0.00	
2378TCDF	0.1	E	2350.00		1190.00			1190.00	119.00	119.00	119.00	
12378-PeCDF	0.05		1170.00					1170.00	58.50	58.50	58.50	
23478-PeCDF	0.5		711.00					711.00	355.50	355.50	355.50	
123478-HxCDF	0.1		755.00					755.00	75.50	75.50	75.50	
123678-HxCDF	0.1		196.00					196.00	19.60	19.60	19.60	
234678-HxCDF	0.1		109.00					109.00	10.90	10.90	10.90	
123789-HxCDF	0.1		13.60					13.60	1.36	1.36	1.36	
1234678-HpCDF	0.01		808.00					808.00	8.08	8.08	8.08	
1234789-HpCDF	0.01		66.40					66.40	0.66	0.66	0.66	
12346789-OCDF	0.001		1110.00					1110.00	1.11	1.11	1.11	
nondetects = detection limit								TEQ=	669.89			
nondetects = 1/2 d.l.								teq=		669.89		
nondetects = zero								teq=			669.89	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			67.80	8.00					67.80	8.00		
TOTAL PeCDD			92.70	8.00					92.70	8.00		
TOTAL HxCDD			175.00	7.00					175.00	7.00		
TOTAL HpCDD			736.00	2.00					736.00	2.00		
TOTAL TCDF		E	4860.00	13.00		2730.00	11.00		2730.00	11.00		
TOTAL PeCDF			3570.00	13.00					3570.00	13.00		
TOTAL HxCDF			1620.00	10.00					1620.00	10.00		
TOTAL HpCDF			1720.00	4.00					1720.00	4.00		
% Finer than #200 Sieve									89.3			
% Total Organic Carbon									2.5			
% Solids									79			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 5-3 UNDILUTED			II IMP 5-3 DILUTED			II IMP 5-3 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		14.00						14.00	0.00	0.00	0.00
1379-TCDD	0		11.30						11.30	0.00	0.00	0.00
2378-TCDD	1		7.20						7.20	7.20	7.20	7.20
12378-PeCDD	0.5		7.90						7.90	3.95	3.95	3.95
123478-HxCDD	0.1		8.40						8.40	0.84	0.84	0.84
123678-HxCDD	0.1		47.60						47.60	4.76	4.76	4.76
123789-HxCDD	0.1		18.50						18.50	1.85	1.85	1.85
1234678-HpCDD	0.01		1380.00						1380.00	13.80	13.80	13.80
12346789-OCDD	0.001	E	12640.00			10250.00			10250.00	10.25	10.25	10.25
1368-TCDF	0	ND	0.20					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	3400.00			1850.00			1850.00	185.00	185.00	185.00
12378-PeCDF	0.05		1220.00						1220.00	61.00	61.00	61.00
23478-PeCDF	0.5		778.00						778.00	389.00	389.00	389.00
123478-HxCDF	0.1		741.00						741.00	74.10	74.10	74.10
123678-HxCDF	0.1		180.00						180.00	18.00	18.00	18.00
234678-HxCDF	0.1		109.00						109.00	10.90	10.90	10.90
123789-HxCDF	0.1		13.50						13.50	1.35	1.35	1.35
1234678-HpCDF	0.01		1340.00						1340.00	13.40	13.40	13.40
1234789-HpCDF	0.01		93.50						93.50	0.94	0.94	0.94
12346789-OCDF	0.001	E	5240.00			4190.00			4190.00	4.19	4.19	4.19
nondetects = detection limit									TEQ=	800.53		
nondetects = 1/2 d.l.									teq=		800.53	
nondetects = zero									teq=			800.53
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			50.20	6.00					50.20	6.00		
TOTAL PeCDD			61.50	6.00					61.50	6.00		
TOTAL HxCDD			250.00	7.00					250.00	7.00		
TOTAL HpCDD			2350.00	2.00					2350.00	2.00		
TOTAL TCDF		E	6800.00	12.00		8.00			3620.00	8.00		
TOTAL PeCDF			3560.00	14.00					3560.00	14.00		
TOTAL HxCDF			1830.00	10.00					1830.00	10.00		
TOTAL HpCDF			4860.00	3.00					4860.00	3.00		
% Finer than #200 Sieve									68.9			
% Total Organic Carbon									3.4			
% Solids									79			
Latitude									43.455252168N			
Longitude									84.080653579W			
Northing (MiGeoRef)									324492.18m			
Easting (MiGeoRef)									655124.72m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 5-6 UNDILUTED			II IMP 5-6 DILUTED			Flags	II IMP 5-6 FINAL			
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		10.80					10.80	0.00	0.00	0.00	
1379-TCDD	0		6.00					6.00	0.00	0.00	0.00	
2378-TCDD	1		2.60					2.60	2.60	2.60	2.60	
12378-PeCDD	0.5	J	4.50				J	4.50	2.25	2.25	2.25	
123478-HxCDD	0.1	J	4.40				J	4.40	0.44	0.44	0.44	
123678-HxCDD	0.1		18.30					18.30	1.83	1.83	1.83	
123789-HxCDD	0.1	J	9.70				J	9.70	0.97	0.97	0.97	
1234678-HpCDD	0.01		375.00					375.00	3.75	3.75	3.75	
12346789-OCDD	0.001		3480.00					3480.00	3.48	3.48	3.48	
1368-TCDF	0	ND	0.20				ND	0.20	0.00	0.00	0.00	
2378TCDF	0.1	E	2260.00		1300.00			1300.00	130.00	130.00	130.00	
12378-PeCDF	0.05		1050.00					1050.00	52.50	52.50	52.50	
23478-PeCDF	0.5		643.00					643.00	321.50	321.50	321.50	
123478-HxCDF	0.1		685.00					685.00	68.50	68.50	68.50	
123678-HxCDF	0.1		160.00					160.00	16.00	16.00	16.00	
234678-HxCDF	0.1		90.10					90.10	9.01	9.01	9.01	
123789-HxCDF	0.1		11.80					11.80	1.18	1.18	1.18	
1234678-HpCDF	0.01		614.00					614.00	6.14	6.14	6.14	
1234789-HpCDF	0.01		56.70					56.70	0.57	0.57	0.57	
12346789-OCDF	0.001		1010.00					1010.00	1.01	1.01	1.01	
nondetects = detection limit								TEQ=	621.73			
nondetects = 1/2 d.l.								teq=		621.73		
nondetects = zero								teq=			621.73	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			25.20	5.00					25.20	5.00		
TOTAL PeCDD			38.20	6.00					38.20	6.00		
TOTAL HxCDD			126.00	7.00					126.00	7.00		
TOTAL HpCDD			633.00	2.00					633.00	2.00		
TOTAL TCDF		E	4700.00	13.00		3020.00	10.00		3020.00	10.00		
TOTAL PeCDF			3080.00	10.00					3080.00	10.00		
TOTAL HxCDF			1360.00	10.00					1360.00	10.00		
TOTAL HpCDF			1400.00	4.00					1400.00	4.00		
<b>% Finer than #200 Sieve</b>									70.6			
<b>% Total Organic Carbon</b>									2.6			
<b>% Solids</b>									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

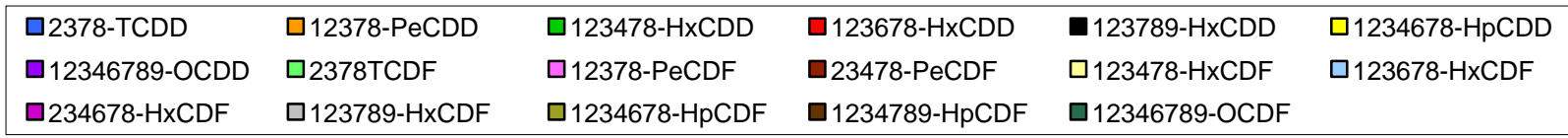
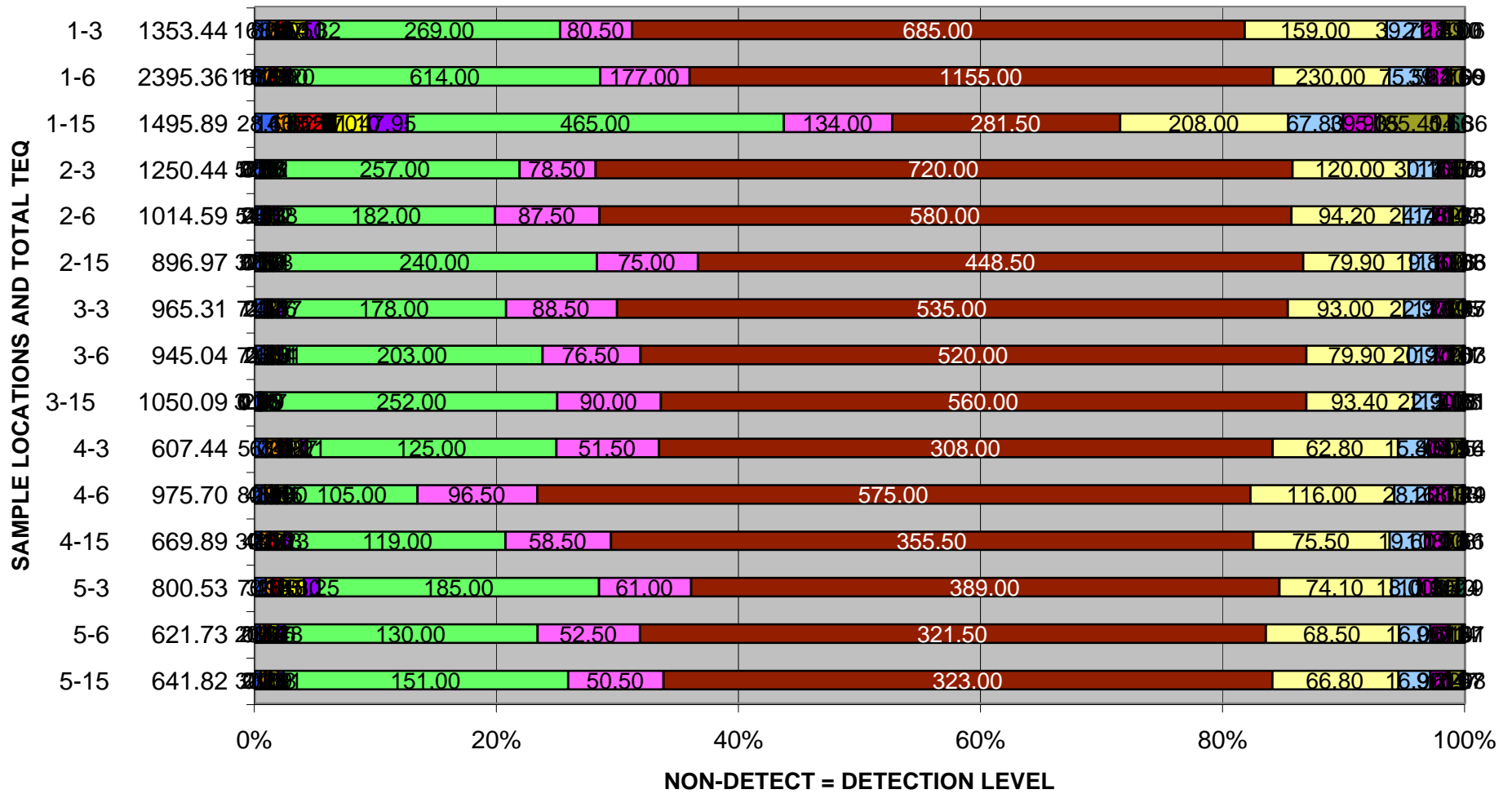
21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II IMP 5-15 UNDILUTED			II IMP 5-15 DILUTED			Flags	II IMP 5-15 FINAL			
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		14.20					14.20	0.00	0.00	0.00	
1379-TCDD	0		7.80					7.80	0.00	0.00	0.00	
2378-TCDD	1		3.10					3.10	3.10	3.10	3.10	
12378-PeCDD	0.5	J	4.60				J	4.60	2.30	2.30	2.30	
123478-HxCDD	0.1	J	2.80				J	2.80	0.28	0.28	0.28	
123678-HxCDD	0.1		22.20					22.20	2.22	2.22	2.22	
123789-HxCDD	0.1	J	8.90				J	8.90	0.89	0.89	0.89	
1234678-HpCDD	0.01		358.00					358.00	3.58	3.58	3.58	
12346789-OCDD	0.001		2810.00					2810.00	2.81	2.81	2.81	
1368-TCDF	0	ND	0.20				ND	0.20	0.00	0.00	0.00	
2378TCDF	0.1	E	2350.00			1510.00		1510.00	151.00	151.00	151.00	
12378-PeCDF	0.05		1010.00					1010.00	50.50	50.50	50.50	
23478-PeCDF	0.5		646.00					646.00	323.00	323.00	323.00	
123478-HxCDF	0.1		668.00					668.00	66.80	66.80	66.80	
123678-HxCDF	0.1		169.00					169.00	16.90	16.90	16.90	
234678-HxCDF	0.1		92.20					92.20	9.22	9.22	9.22	
123789-HxCDF	0.1		11.00					11.00	1.10	1.10	1.10	
1234678-HpCDF	0.01		647.00					647.00	6.47	6.47	6.47	
1234789-HpCDF	0.01		67.10					67.10	0.67	0.67	0.67	
12346789-OCDF	0.001		978.00					978.00	0.98	0.98	0.98	
nondetects = detection limit								TEQ=	641.82			
nondetects = 1/2 d.l.								teq=		641.82		
nondetects = zero								teq=			641.82	
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			36.00	7.00					36.00	7.00		
TOTAL PeCDD			40.10	4.00					40.10	4.00		
TOTAL HxCDD			133.00	7.00					133.00	7.00		
TOTAL HpCDD			573.00	2.00					573.00	2.00		
TOTAL TCDF		E	4830.00	13.00		3390.00	10.00		3390.00	10.00		
TOTAL PeCDF			3130.00	13.00					3130.00	13.00		
TOTAL HxCDF			1420.00	10.00					1420.00	10.00		
TOTAL HpCDF			1560.00	4.00					1560.00	4.00		
% Finer than #200 Sieve									73.6			
% Total Organic Carbon									2.3			
% Solids									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

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## TITTABAWASSEE RIVER PROJECT - IMERMAN PARK 1-5, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 6-3 UNDILUTED			II IMP 6-3 DILUTED			5/6/2002		II IMP 6-3 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		11.70						11.70	0.00	0.00	0.00
1379-TCDD	0		6.00						6.00	0.00	0.00	0.00
2378-TCDD	1		3.40						3.40	3.40	3.40	3.40
12378-PeCDD	0.5	J	3.70				J	3.70	3.70	1.85	1.85	1.85
123478-HxCDD	0.1	J	2.90				J	2.90	2.90	0.29	0.29	0.29
123678-HxCDD	0.1		16.90					16.90	16.90	1.69	1.69	1.69
123789-HxCDD	0.1	J	7.40				J	7.40	7.40	0.74	0.74	0.74
1234678-HpCDD	0.01		301.00					301.00	301.00	3.01	3.01	3.01
12346789-OCDD	0.001		2890.00					2890.00	2890.00	2.89	2.89	2.89
1368-TCDF	0	ND	0.20				ND	0.20	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	4310.00			2460.00		2460.00	2460.00	246.00	246.00	246.00
12378-PeCDF	0.05	E	2100.00			1450.00		1450.00	1450.00	72.50	72.50	72.50
23478-PeCDF	0.5		1240.00					1240.00	1240.00	620.00	620.00	620.00
123478-HxCDF	0.1		1270.00					1270.00	1270.00	127.00	127.00	127.00
123678-HxCDF	0.1		321.00					321.00	321.00	32.10	32.10	32.10
234678-HxCDF	0.1		178.00					178.00	178.00	17.80	17.80	17.80
123789-HxCDF	0.1		26.90					26.90	26.90	2.69	2.69	2.69
1234678-HpCDF	0.01		719.00					719.00	719.00	7.19	7.19	7.19
1234789-HpCDF	0.01		85.50					85.50	85.50	0.86	0.86	0.86
12346789-OCDF	0.001		860.00					860.00	860.00	0.86	0.86	0.86
nondetects = detection limit								TEQ=	1140.87			
nondetects = 1/2 d.l.								teq=		1140.87		
nondetects = zero								teq=				1140.87
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			29.00	5.00					29.00	5.00		
TOTAL PeCDD			35.10	4.00					35.10	4.00		
TOTAL HxCDD			119.00	7.00					119.00	7.00		
TOTAL HpCDD			521.00	2.00					521.00	2.00		
TOTAL TCDF		E	8870.00	12.00		4800.00	6.00		4800.00	6.00		
TOTAL PeCDF		E	6030.00	11.00		4130.00	6.00		4130.00	6.00		
TOTAL HxCDF			2460.00	10.00					2460.00	10.00		
TOTAL HpCDF			1500.00	4.00					1500.00	4.00		
% Finer than #200 Sieve									70			
% Total Organic Carbon									3.0			
% Solids									79			
Latitude									43.455199102N			
Longitude									84.081488090W			
Northing (MiGeoRef)									324484.72m			
Easting (MiGeoRef)									655057.36m			
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 6-6 UNDILUTED			II IMP 6-6 DILUTED			5/6/2002		II INP 6-6 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		6.90						6.90	0.00	0.00	0.00
1379-TCDD	0		5.10						5.10	0.00	0.00	0.00
2378-TCDD	1	ND	2.80					ND	2.80	2.80	1.40	0.00
12378-PeCDD	0.5	J	4.40					J	4.40	2.20	2.20	2.20
123478-HxCDD	0.1	J	3.30					J	3.30	0.33	0.33	0.33
123678-HxCDD	0.1		29.60						29.60	2.96	2.96	2.96
123789-HxCDD	0.1	J	7.70					J	7.70	0.77	0.77	0.77
1234678-HpCDD	0.01		623.00						623.00	6.23	6.23	6.23
12346789-OCDD	0.001	E	5180.00			3290.00			3290.00	3.29	3.29	3.29
1368-TCDF	0	ND	0.40					ND	0.40	0.00	0.00	0.00
2378TCDF	0.1	E	5370.00			2180.00			2180.00	218.00	218.00	218.00
12378-PeCDF	0.05		2040.00						2040.00	102.00	102.00	102.00
23478-PeCDF	0.5		1400.00						1400.00	700.00	700.00	700.00
123478-HxCDF	0.1		1190.00						1190.00	119.00	119.00	119.00
123678-HxCDF	0.1		291.00						291.00	29.10	29.10	29.10
234678-HxCDF	0.1		167.00						167.00	16.70	16.70	16.70
123789-HxCDF	0.1		23.60						23.60	2.36	2.36	2.36
1234678-HpCDF	0.01		839.00						839.00	8.39	8.39	8.39
1234789-HpCDF	0.01		84.00						84.00	0.84	0.84	0.84
12346789-OCDF	0.001		1580.00						1580.00	1.58	1.58	1.58
nondetects = detection limit									TEQ=	1216.55		
nondetects = 1/2 d.l.									teq=		1215.15	
nondetects = zero									teq=			1213.75
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			13.00	3.00					13.00	3.00		
TOTAL PeCDD			18.10	3.00					18.10	3.00		
TOTAL HxCDD			120.00	6.00					120.00	6.00		
TOTAL HpCDD			979.00	2.00					979.00	2.00		
TOTAL TCDF		E	12360.00	12.00		4810.00	7.00		4810.00	7.00		
TOTAL PeCDF			6370.00	12.00					6370.00	12.00		
TOTAL HxCDF			2440.00	10.00					2440.00	10.00		
TOTAL HpCDF			2440.00	4.00					2440.00	4.00		
% Finer than #200 Sieve									69.9			
% Total Organic Carbon									2.5			
% Solids									80			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 6-15 UNDILUTED			II IMP 6-15 DILUTED			5/6/2002		II IMP 6-15 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	1.90					ND	1.90	0.00	0.00	0.00
1379-TCDD	0		1.40						1.40	0.00	0.00	0.00
2378-TCDD	1	ND,J	0.80					ND,J	0.80	0.80	0.40	0.00
12378-PeCDD	0.5	J	0.84					J	0.84	0.42	0.42	0.42
123478-HxCDD	0.1	J	0.49					J	0.49	0.05	0.05	0.05
123678-HxCDD	0.1	J	3.10					J	3.10	0.31	0.31	0.31
123789-HxCDD	0.1	ND,J	1.20					ND,J	1.20	0.12	0.06	0.00
1234678-HpCDD	0.01		47.60						47.60	0.48	0.48	0.48
12346789-OCDD	0.001		473.00						473.00	0.47	0.47	0.47
1368-TCDF	0	ND	0.20					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	2310.00			1150.00			1150.00	115.00	115.00	115.00
12378-PeCDF	0.05		1040.00						1040.00	52.00	52.00	52.00
23478-PeCDF	0.5		629.00						629.00	314.50	314.50	314.50
123478-HxCDF	0.1		609.00						609.00	60.90	60.90	60.90
123678-HxCDF	0.1		143.00						143.00	14.30	14.30	14.30
234678-HxCDF	0.1		79.90						79.90	7.99	7.99	7.99
123789-HxCDF	0.1		11.60						11.60	1.16	1.16	1.16
1234678-HpCDF	0.01		160.00						160.00	1.60	1.60	1.60
1234789-HpCDF	0.01		31.70						31.70	0.32	0.32	0.32
12346789-OCDF	0.001		141.00						141.00	0.14	0.14	0.14
nondetects = detection limit									TEQ=	570.56		
nondetects = 1/2 d.l.									teq=		570.10	
nondetects = zero									teq=			569.64
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			3.40	3.00					3.40	3.00		
TOTAL PeCDD			10.70	5.00					10.70	5.00		
TOTAL HxCDD			22.30	6.00					22.30	6.00		
TOTAL HpCDD			82.70	2.00					82.70	2.00		
TOTAL TCDF		E	4490.00	11.00		2160.00	7.00		2160.00	7.00		
TOTAL PeCDF			2810.00	12.00					2810.00	12.00		
TOTAL HxCDF			1060.00	10.00					1060.00	10.00		
TOTAL HpCDF			316.00	4.00					316.00	4.00		
% Finer than #200 Sieve									84.6			
% Total Organic Carbon									2.5			
% Solids									78			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 7-1 UNDILUTED			II IMP 7-1 DILUTED			5/6/2002		II IMP 7-1 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		30.30						30.30	0.00	0.00	0.00
1379-TCDD	0		12.30						12.30	0.00	0.00	0.00
2378-TCDD	1		9.70						9.70	9.70	9.70	9.70
12378-PeCDD	0.5		8.80						8.80	4.40	4.40	4.40
123478-HxCDD	0.1		6.80						6.80	0.68	0.68	0.68
123678-HxCDD	0.1		58.40						58.40	5.84	5.84	5.84
123789-HxCDD	0.1		19.50						19.50	1.95	1.95	1.95
1234678-HpCDD	0.01		1130.00						1130.00	11.30	11.30	11.30
12346789-OCDD	0.001	E	8540.00			7640.00			7640.00	7.64	7.64	7.64
1368-TCDF	0	ND	0.30					ND	0.30	0.00	0.00	0.00
2378TCDF	0.1	E	4750.00			3560.00			3560.00	356.00	356.00	356.00
12378-PeCDF	0.05	E	2200.00			2060.00			2060.00	103.00	103.00	103.00
23478-PeCDF	0.5		1440.00						1440.00	720.00	720.00	720.00
123478-HxCDF	0.1		1410.00						1410.00	141.00	141.00	141.00
123678-HxCDF	0.1		343.00						343.00	34.30	34.30	34.30
234678-HxCDF	0.1		207.00						207.00	20.70	20.70	20.70
123789-HxCDF	0.1		32.30						32.30	3.23	3.23	3.23
1234678-HpCDF	0.01		1670.00						1670.00	16.70	16.70	16.70
1234789-HpCDF	0.01		124.00						124.00	1.24	1.24	1.24
12346789-OCDF	0.001		2720.00						2720.00	2.72	2.72	2.72
nondetects = detection limit									TEQ=	1440.40		
nondetects = 1/2 d.l.									teq=		1440.40	
nondetects = zero									teq=			1440.40
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			75.20	6.00					75.20	6.00		
TOTAL PeCDD			47.40	5.00					47.40	5.00		
TOTAL HxCDD			296.00	6.00					296.00	6.00		
TOTAL HpCDD			1900.00	2.00					1900.00	2.00		
TOTAL TCDF		E	9820.00	14.00		7430.00	6.00		7430.00	6.00		
TOTAL PeCDF		E	6760.00	12.00		6220.00	8.00		6220.00	8.00		
TOTAL HxCDF			3100.00	10.00					3100.00	10.00		
TOTAL HpCDF			3860.00	4.00					3860.00	4.00		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude									43.455706377N			
Longitude									84.081910269W			
Northing (MiGeoRef)									324540.25m			
Easting (MiGeoRef)									655021.90m			
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 7-3 UNDILUTED			II IMP 7-3 DILUTED			5/6/2002	II IMP 7-3 FINAL			
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	0.10					ND	0.10	0.00	0.00	0.00
1379-TCDD	0		8.80						8.80	0.00	0.00	0.00
2378-TCDD	1		6.20						6.20	6.20	6.20	6.20
12378-PeCDD	0.5		5.20						5.20	2.60	2.60	2.60
123478-HxCDD	0.1	J	3.70					J	3.70	0.37	0.37	0.37
123678-HxCDD	0.1		28.50						28.50	2.85	2.85	2.85
123789-HxCDD	0.1		10.80						10.80	1.08	1.08	1.08
1234678-HpCDD	0.01		530.00						530.00	5.30	5.30	5.30
12346789-OCDD	0.001	E	4620.00			3170.00			3170.00	3.17	3.17	3.17
1368-TCDF	0	ND	0.10					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	6320.00			2910.00			2910.00	291.00	291.00	291.00
12378-PeCDF	0.05	E	31.60			1830.00			1830.00	91.50	91.50	91.50
23478-PeCDF	0.5		1870.00						1870.00	935.00	935.00	935.00
123478-HxCDF	0.1		1600.00						1600.00	160.00	160.00	160.00
123678-HxCDF	0.1		389.00						389.00	38.90	38.90	38.90
234678-HxCDF	0.1		217.00						217.00	21.70	21.70	21.70
123789-HxCDF	0.1		23.20						23.20	2.32	2.32	2.32
1234678-HpCDF	0.01		1060.00						1060.00	10.60	10.60	10.60
1234789-HpCDF	0.01		107.00						107.00	1.07	1.07	1.07
12346789-OCDF	0.001		1350.00						1350.00	1.35	1.35	1.35
nondetects = detection limit									TEQ=	1575.01		
nondetects = 1/2 d.l.									teq=		1575.01	
nondetects = zero									teq=			1575.01
<b>Totals</b>		<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>	<b>Flags</b>	<b>Concentration pg/g</b>	<b>Number</b>		
TOTAL TCDD			49.60	6.00					49.60	6.00		
TOTAL PeCDD			27.60	5.00					27.60	5.00		
TOTAL HxCDD			169.00	6.00					169.00	6.00		
TOTAL HpCDD			960.00	2.00					960.00	2.00		
TOTAL TCDF		SE	5820.00	12.00		6900.00	10.00		6900.00	10.00		
TOTAL PeCDF		E	8700.00	11.00		4910.00	6.00		4910.00	6.00		
TOTAL HxCDF			3110.00	10.00					3110.00	10.00		
TOTAL HpCDF			2350.00	4.00					2350.00	4.00		
<b>% Finer than #200 Sieve</b>									47.6			
<b>% Total Organic Carbon</b>									2.3			
<b>% Solids</b>									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 7-6 UNDILUTED			II IMP 7-6 DILUTED			5/6/2002		II IMP 7-6 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		21.50						21.50	0.00	0.00	0.00
1379-TCDD	0		15.30						15.30	0.00	0.00	0.00
2378-TCDD	1		11.00						11.00	11.00	11.00	11.00
12378-PeCDD	0.5		9.80						9.80	4.90	4.90	4.90
123478-HxCDD	0.1		7.70						7.70	0.77	0.77	0.77
123678-HxCDD	0.1		45.30						45.30	4.53	4.53	4.53
123789-HxCDD	0.1		20.00						20.00	2.00	2.00	2.00
1234678-HpCDD	0.01		948.00						948.00	9.48	9.48	9.48
12346789-OCDD	0.001	E	8110.00			6970.00			6970.00	6.97	6.97	6.97
1368-TCDF	0	ND	0.07					ND	0.07	0.00	0.00	0.00
2378TCDF	0.1	E	6710.00			4110.00			4110.00	411.00	411.00	411.00
12378-PeCDF	0.05	E	3030.00			2110.00			2110.00	105.50	105.50	105.50
23478-PeCDF	0.5		1960.00						1960.00	980.00	980.00	980.00
123478-HxCDF	0.1		1670.00						1670.00	167.00	167.00	167.00
123678-HxCDF	0.1		418.00						418.00	41.80	41.80	41.80
234678-HxCDF	0.1		240.00						240.00	24.00	24.00	24.00
123789-HxCDF	0.1		32.60						32.60	3.26	3.26	3.26
1234678-HpCDF	0.01		1730.00						1730.00	17.30	17.30	17.30
1234789-HpCDF	0.01		141.00						141.00	1.41	1.41	1.41
12346789-OCDF	0.001		2490.00						2490.00	2.49	2.49	2.49
nondetects = detection limit									TEQ=	1793.41		
nondetects = 1/2 d.l.									teq=		1793.41	
nondetects = zero									teq=			1793.41
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			77.50	7.00					77.50	7.00		
TOTAL PeCDD			82.80	8.00					82.80	8.00		
TOTAL HxCDD			269.00	6.00					269.00	6.00		
TOTAL HpCDD			1610.00	2.00					1610.00	2.00		
TOTAL TCDF		S,E	6050.00	12.00		9260.00	6.00		9260.00	6.00		
TOTAL PeCDF		E	8600.00	11.00		5970.00	8.00		5970.00	8.00		
TOTAL HxCDF			3430.00	10.00					3430.00	10.00		
TOTAL HpCDF			3810.00	4.00					3810.00	4.00		
% Finer than #200 Sieve									42.1			
% Total Organic Carbon									1.7			
% Solids									84			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 7-15 UNDILUTED			II IMP 7-15 DILUTED			5/6/2002		II IMP 7-15 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	0.20					ND	0.20	0.00	0.00	0.00
1379-TCDD	0		30.30						30.30	0.00	0.00	0.00
2378-TCDD	1		9.60						9.60	9.60	9.60	9.60
12378-PeCDD	0.5		23.70						23.70	11.85	11.85	11.85
123478-HxCDD	0.1		15.30						15.30	1.53	1.53	1.53
123678-HxCDD	0.1		58.20						58.20	5.82	5.82	5.82
123789-HxCDD	0.1		33.00						33.00	3.30	3.30	3.30
1234678-HpCDD	0.01		831.00						831.00	8.31	8.31	8.31
12346789-OCDD	0.001	E	7390.00			4840.00			4840.00	4.84	4.84	4.84
1368-TCDF	0	ND	0.20					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	7990.00			3130.00			3130.00	313.00	313.00	313.00
12378-PeCDF	0.05	E	3680.00			1760.00			1760.00	88.00	88.00	88.00
23478-PeCDF	0.5	E	2290.00			1180.00			1180.00	590.00	590.00	590.00
123478-HxCDF	0.1	E	2020.00			897.00			897.00	89.70	89.70	89.70
123678-HxCDF	0.1		551.00						551.00	55.10	55.10	55.10
234678-HxCDF	0.1		305.00						305.00	30.50	30.50	30.50
123789-HxCDF	0.1		35.70						35.70	3.57	3.57	3.57
1234678-HpCDF	0.01	E	2350.00			1220.00			1220.00	12.20	12.20	12.20
1234789-HpCDF	0.01		180.00						180.00	1.80	1.80	1.80
12346789-OCDF	0.001		2550.00						2550.00	2.55	2.55	2.55
nondetects = detection limit									TEQ=	1231.67		
nondetects = 1/2 d.l.									teq=		1231.67	
nondetects = zero									teq=			1231.67
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			107.00	7.00					107.00	7.00		
TOTAL PeCDD			194.00	9.00					194.00	9.00		
TOTAL HxCDD			364.00	6.00					364.00	6.00		
TOTAL HpCDD			1440.00	2.00					1440.00	2.00		
TOTAL TCDF		S,E	7340.00	12.00		6610.00	6.00		6610.00	6.00		
TOTAL PeCDF		E	10010.00	11.00		4840.00	6.00		4840.00	6.00		
TOTAL HxCDF		E	4090.00	10.00		1630.00	4.00		1630.00	4.00		
TOTAL HpCDF		E	4530.00	4.00		1220.00	1.00		1220.00	1.00		
% Finer than #200 Sieve									43.8			
% Total Organic Carbon									1.2			
% Solids									87			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 8-1 UNDILUTED			II IMP 8-1 DILUTED			5/6/2002		II IMP 8-1 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		23.20						23.20	0.00	0.00	0.00
1379-TCDD	0		5.50						5.50	0.00	0.00	0.00
2378-TCDD	1	ND	6.10					ND	6.10	6.10	3.05	0.00
12378-PeCDD	0.5		11.30						11.30	5.65	5.65	5.65
123478-HxCDD	0.1		8.90						8.90	0.89	0.89	0.89
123678-HxCDD	0.1		32.80						32.80	3.28	3.28	3.28
123789-HxCDD	0.1		18.80						18.80	1.88	1.88	1.88
1234678-HpCDD	0.01		447.00						447.00	4.47	4.47	4.47
12346789-OCDD	0.001		3380.00						3380.00	3.38	3.38	3.38
1368-TCDF	0	ND	0.20					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	1240.00			1000.00			1000.00	100.00	100.00	100.00
12378-PeCDF	0.05		511.00						511.00	25.55	25.55	25.55
23478-PeCDF	0.5		329.00						329.00	164.50	164.50	164.50
123478-HxCDF	0.1		359.00						359.00	35.90	35.90	35.90
123678-HxCDF	0.1		87.90						87.90	8.79	8.79	8.79
234678-HxCDF	0.1		60.20						60.20	6.02	6.02	6.02
123789-HxCDF	0.1		16.70						16.70	1.67	1.67	1.67
1234678-HpCDF	0.01		632.00						632.00	6.32	6.32	6.32
1234789-HpCDF	0.01		58.10						58.10	0.58	0.58	0.58
12346789-OCDF	0.001		1060.00						1060.00	1.06	1.06	1.06
nondetects = detection limit									TEQ=	376.04		
nondetects = 1/2 d.l.									teq=		372.99	
nondetects = zero									teq=			369.94
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			49.50	5.00					49.50	5.00		
TOTAL PeCDD			123.00	8.00					123.00	8.00		
TOTAL HxCDD			239.00	6.00					239.00	6.00		
TOTAL HpCDD			767.00	2.00					767.00	2.00		
TOTAL TCDF		E	2950.00	15.00		2540.00	11.00		2540.00	11.00		
TOTAL PeCDF			1770.00	12.00					1770.00	12.00		
TOTAL HxCDF			969.00	10.00					969.00	10.00		
TOTAL HpCDF			1510.00	4.00					1510.00	4.00		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude									43.457513391N			
Longitude									84.081717369W			
Northing (MiGeoRef)									324741.25m			
Easting (MiGeoRef)									655032.84m			
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 8-3 UNDILUTED			II IMP 8-3 DILUTED			5/6/2002		II IMP 8-3 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	0.20					ND	0.20	0.00	0.00	0.00
1379-TCDD	0		2.60						2.60	0.00	0.00	0.00
2378-TCDD	1		3.40						3.40	3.40	3.40	3.40
12378-PeCDD	0.5	J	1.80					J	1.80	0.90	0.90	0.90
123478-HxCDD	0.1	J	1.40					J	1.40	0.14	0.14	0.14
123678-HxCDD	0.1		13.70						13.70	1.37	1.37	1.37
123789-HxCDD	0.1	J	4.30					J	4.30	0.43	0.43	0.43
1234678-HpCDD	0.01		286.00						286.00	2.86	2.86	2.86
12346789-OCDD	0.001		3290.00						3290.00	3.29	3.29	3.29
1368-TCDF	0	ND	0.10					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	3290.00			1580.00			1580.00	158.00	158.00	158.00
12378-PeCDF	0.05		1020.00						1020.00	51.00	51.00	51.00
23478-PeCDF	0.5		756.00						756.00	378.00	378.00	378.00
123478-HxCDF	0.1		489.00						489.00	48.90	48.90	48.90
123678-HxCDF	0.1		115.00						115.00	11.50	11.50	11.50
234678-HxCDF	0.1		72.80						72.80	7.28	7.28	7.28
123789-HxCDF	0.1		9.40						9.40	0.94	0.94	0.94
1234678-HpCDF	0.01		344.00						344.00	3.44	3.44	3.44
1234789-HpCDF	0.01		33.80						33.80	0.34	0.34	0.34
12346789-OCDF	0.001		741.00						741.00	0.74	0.74	0.74
nondetects = detection limit									TEQ=	672.53		
nondetects = 1/2 d.l.									teq=		672.53	
nondetects = zero									teq=			672.53
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			22.30	6.00					22.30	6.00		
TOTAL PeCDD			16.90	5.00					16.90	5.00		
TOTAL HxCDD			77.50	6.00					77.50	6.00		
TOTAL HpCDD			493.00	2.00					493.00	2.00		
TOTAL TCDF		E	7130.00	13.00		4000.00	7.00		4000.00	7.00		
TOTAL PeCDF			3430.00	12.00					3430.00	12.00		
TOTAL HxCDF			1010.00	10.00					1010.00	10.00		
TOTAL HpCDF			928.00	4.00					928.00	4.00		
% Finer than #200 Sieve									21.8			
% Total Organic Carbon									1.0			
% Solids									85			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		ENVIRONMENTAL RESPONSE DIVISION										
		II IMP 8-6			II IMP 8-6			5/6/2002		II IMP 8-6		
		UNDILUTED			DILUTED					FINAL		
Analyte	TEF	Flags	Concentration		Flags	Concentration		Flags	Concentration	nondetect	nondetect	nondetect
			pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		17.90						17.90	0.00	0.00	0.00
1379-TCDD	0		6.50						6.50	0.00	0.00	0.00
2378-TCDD	1		6.50						6.50	6.50	6.50	6.50
12378-PeCDD	0.5	J	4.40				J	4.40	4.40	2.20	2.20	2.20
123478-HxCDD	0.1	J	3.20				J	3.20	0.32	0.32	0.32	0.32
123678-HxCDD	0.1		25.10					25.10	2.51	2.51	2.51	2.51
123789-HxCDD	0.1	J	8.90				J	8.90	0.89	0.89	0.89	0.89
1234678-HpCDD	0.01		514.00					514.00	5.14	5.14	5.14	5.14
12346789-OCDD	0.001	E	5960.00			4390.00		4390.00	4.39	4.39	4.39	4.39
1368-TCDF	0	ND	0.10					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	4570.00			1960.00		1960.00	196.00	196.00	196.00	196.00
12378-PeCDF	0.05	E	2100.00			1100.00		1100.00	55.00	55.00	55.00	55.00
23478-PeCDF	0.5		1240.00					1240.00	620.00	620.00	620.00	620.00
123478-HxCDF	0.1		953.00					953.00	95.30	95.30	95.30	95.30
123678-HxCDF	0.1		214.00					214.00	21.40	21.40	21.40	21.40
234678-HxCDF	0.1		130.00					130.00	13.00	13.00	13.00	13.00
123789-HxCDF	0.1		14.80					14.80	1.48	1.48	1.48	1.48
1234678-HpCDF	0.01		693.00					693.00	6.93	6.93	6.93	6.93
1234789-HpCDF	0.01		68.70					68.70	0.69	0.69	0.69	0.69
12346789-OCDF	0.001		1260.00					1260.00	1.26	1.26	1.26	1.26
nondetects = detection limit								TEQ=	1033.01			
nondetects = 1/2 d.l.								teq=		1033.01		
nondetects = zero								teq=			1033.01	
Totals		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
			pg/g			pg/g			pg/g			
TOTAL TCDD			39.20	5.00					39.20	5.00		
TOTAL PeCDD			26.90	5.00					26.90	5.00		
TOTAL HxCDD			146.00	7.00					146.00	7.00		
TOTAL HpCDD			902.00	2.00					902.00	2.00		
TOTAL TCDF		S,E	8580.00	12.00		4260.00	4.00		4260.00	4.00		
TOTAL PeCDF		E	5620.00	11.00		2700.00	5.00		2700.00	5.00		
TOTAL HxCDF			1880.00	10.00					1880.00	10.00		
TOTAL HpCDF			1740.00	3.00					1740.00	3.00		
% Finer than #200 Sieve									26.4			
% Total Organic Carbon									0.6			
% Solids									87			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 8-15 UNDILUTED			II IMP 8-15 DILUTED			5/6/2002		II IMP 8-15 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		32.20						32.20	0.00	0.00	0.00
1379-TCDD	0		11.40						11.40	0.00	0.00	0.00
2378-TCDD	1		8.90						8.90	8.90	8.90	8.90
12378-PeCDD	0.5		7.00						7.00	3.50	3.50	3.50
123478-HxCDD	0.1	J	4.70		J	4.70		J	4.70	0.47	0.47	0.47
123678-HxCDD	0.1		50.70			50.70			50.70	5.07	5.07	5.07
123789-HxCDD	0.1		15.00			15.00			15.00	1.50	1.50	1.50
1234678-HpCDD	0.01		1150.00			1150.00			1150.00	11.50	11.50	11.50
12346789-OCDD	0.001	S,E	10620.00			9290.00			9290.00	9.29	9.29	9.29
1368-TCDF	0	ND	0.09					ND	0.09	0.00	0.00	0.00
2378TCDF	0.1	E	1170.00			620.00			620.00	62.00	62.00	62.00
12378-PeCDF	0.05		570.00						570.00	28.50	28.50	28.50
23478-PeCDF	0.5		373.00						373.00	186.50	186.50	186.50
123478-HxCDF	0.1		384.00						384.00	38.40	38.40	38.40
123678-HxCDF	0.1		88.80						88.80	8.88	8.88	8.88
234678-HxCDF	0.1		58.00						58.00	5.80	5.80	5.80
123789-HxCDF	0.1		7.80						7.80	0.78	0.78	0.78
1234678-HpCDF	0.01		1680.00						1680.00	16.80	16.80	16.80
1234789-HpCDF	0.01		78.70						78.70	0.79	0.79	0.79
12346789-OCDF	0.001		3060.00						3060.00	3.06	3.06	3.06
nondetects = detection limit									TEQ=	391.74		
nondetects = 1/2 d.l.									teq=		391.74	
nondetects = zero									teq=			391.74
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			74.80	5.00					74.80	5.00		
TOTAL PeCDD			41.20	6.00					41.20	6.00		
TOTAL HxCDD			231.00	5.00					231.00	5.00		
TOTAL HpCDD			1960.00	2.00					1960.00	2.00		
TOTAL TCDF		E	2780.00	14.00		1560.00	8.00		1560.00	8.00		
TOTAL PeCDF			1750.00	11.00					1750.00	11.00		
TOTAL HxCDF			1240.00	10.00					1240.00	10.00		
TOTAL HpCDF			4060.00	3.00					4060.00	3.00		
% Finer than #200 Sieve									56.7			
% Total Organic Carbon									1.1			
% Solids									88			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 9-3 UNDILUTED			II IMP 9-3 DILUTED			5/6/2002		II IMP 9-3 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		7.90						7.90	0.00	0.00	0.00
1379-TCDD	0		5.00						5.00	0.00	0.00	0.00
2378-TCDD	1		6.00						6.00	6.00	6.00	6.00
12378-PeCDD	0.5		5.30						5.30	2.65	2.65	2.65
123478-HxCDD	0.1	J	3.50				J		3.50	0.35	0.35	0.35
123678-HxCDD	0.1		18.00						18.00	1.80	1.80	1.80
123789-HxCDD	0.1	J	7.90				J		7.90	0.79	0.79	0.79
1234678-HpCDD	0.01		341.00						341.00	3.41	3.41	3.41
12346789-OCDD	0.001		3150.00						3150.00	3.15	3.15	3.15
1368-TCDF	0	ND	0.10				ND		0.10	0.00	0.00	0.00
2378TCDF	0.1	E	1030.00			387.00			387.00	38.70	38.70	38.70
12378-PeCDF	0.05		358.00						358.00	17.90	17.90	17.90
23478-PeCDF	0.5		250.00						250.00	125.00	125.00	125.00
123478-HxCDF	0.1		198.00						198.00	19.80	19.80	19.80
123678-HxCDF	0.1		52.70						52.70	5.27	5.27	5.27
234678-HxCDF	0.1		32.40						32.40	3.24	3.24	3.24
123789-HxCDF	0.1		6.00						6.00	0.60	0.60	0.60
1234678-HpCDF	0.01		499.00						499.00	4.99	4.99	4.99
1234789-HpCDF	0.01		47.50						47.50	0.48	0.48	0.48
12346789-OCDF	0.001		870.00						870.00	0.87	0.87	0.87
nondetects = detection limit									TEQ=	235.00		
nondetects = 1/2 d.l.									teq=		235.00	
nondetects = zero									teq=			235.00
<b>Totals</b>		<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>	<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>	<b>Flags</b>	<b>Concentration</b> pg/g	<b>Number</b>		
TOTAL TCDD			29.00	6.00					29.00	6.00		
TOTAL PeCDD			32.70	7.00					32.70	7.00		
TOTAL HxCDD			101.00	6.00					101.00	6.00		
TOTAL HpCDD			587.00	2.00					587.00	2.00		
TOTAL TCDF		E	2140.00	13.00		885.00	3.00		885.00	3.00		
TOTAL PeCDF			1090.00	9.00					1090.00	9.00		
TOTAL HxCDF			527.00	10.00					527.00	10.00		
TOTAL HpCDF			1230.00	3.00					1230.00	3.00		
<b>% Finer than #200 Sieve</b>									19.4			
<b>% Total Organic Carbon</b>									0.7			
<b>% Solids</b>									86			
Latitude									43.457223750N			
Longitude									84.081948587W			
Northing (MiGeoRef)									324708.66m			
Easting (MiGeoRef)									655014.89m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 9-6 UNDILUTED			II IMP 9-6 DILUTED			5/6/2002		II IMP 9-6 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		11.10						11.10	0.00	0.00	0.00
1379-TCDD	0		4.50						4.50	0.00	0.00	0.00
2378-TCDD	1		4.60						4.60	4.60	4.60	4.60
12378-PeCDD	0.5	J	3.30					J	3.30	1.65	1.65	1.65
123478-HxCDD	0.1	J	2.10					J	2.10	0.21	0.21	0.21
123678-HxCDD	0.1		16.30						16.30	1.63	1.63	1.63
123789-HxCDD	0.1	J	5.60					J	5.60	0.56	0.56	0.56
1234678-HpCDD	0.01		308.00						308.00	3.08	3.08	3.08
12346789-OCDD	0.001		2660.00						2660.00	2.66	2.66	2.66
1368-TCDF	0	ND	0.07					ND	0.07	0.00	0.00	0.00
2378TCDF	0.1	E	2050.00			1640.00			1640.00	164.00	164.00	164.00
12378-PeCDF	0.05		1120.00						1120.00	56.00	56.00	56.00
23478-PeCDF	0.5		613.00						613.00	306.50	306.50	306.50
123478-HxCDF	0.1		575.00						575.00	57.50	57.50	57.50
123678-HxCDF	0.1		136.00						136.00	13.60	13.60	13.60
234678-HxCDF	0.1		73.90						73.90	7.39	7.39	7.39
123789-HxCDF	0.1		9.30						9.30	0.93	0.93	0.93
1234678-HpCDF	0.01		496.00						496.00	4.96	4.96	4.96
1234789-HpCDF	0.01		51.30						51.30	0.51	0.51	0.51
12346789-OCDF	0.001		785.00						785.00	0.79	0.79	0.79
nondetects = detection limit									TEQ=	626.57		
nondetects = 1/2 d.l.									teq=		626.57	
nondetects = zero									teq=			626.57
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			29.10	6.00					29.10	6.00		
TOTAL PeCDD			28.00	6.00					28.00	6.00		
TOTAL HxCDD			87.40	6.00					87.40	6.00		
TOTAL HpCDD			525.00	2.00					525.00	2.00		
TOTAL TCDF		E	4250.00	13.00		3630.00	7.00		3630.00	7.00		
TOTAL PeCDF			2980.00	10.00					2980.00	10.00		
TOTAL HxCDF			1180.00	10.00					1180.00	10.00		
TOTAL HpCDF			1160.00	3.00					1160.00	3.00		
% Finer than #200 Sieve									15.1			
% Total Organic Carbon									1.0			
% Solids									88			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 10-1 UNDILUTED			II IMP 10-1 DILUTED			5/6/02	II IMP 10-1 FINAL			
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		16.30						16.30	0.00	0.00	0.00
1379-TCDD	0		8.40						8.40	0.00	0.00	0.00
2378-TCDD	1		4.50						4.50	4.50	4.50	4.50
12378-PeCDD	0.5	J	4.40				J	4.40	4.40	2.20	2.20	2.20
123478-HxCDD	0.1	J	3.20				J	3.20	3.20	0.32	0.32	0.32
123678-HxCDD	0.1		14.70					14.70	14.70	1.47	1.47	1.47
123789-HxCDD	0.1	J	7.70				J	7.70	7.70	0.77	0.77	0.77
1234678-HpCDD	0.01		276.00					276.00	276.00	2.76	2.76	2.76
12346789-OCDD	0.001		2770.00					2770.00	2770.00	2.77	2.77	2.77
1368-TCDF	0	ND	0.30				ND	0.30	0.30	0.00	0.00	0.00
2378TCDF	0.1	E	1890.00			1520.00		1520.00	1520.00	152.00	152.00	152.00
12378-PeCDF	0.05		790.00					790.00	790.00	39.50	39.50	39.50
23478-PeCDF	0.5		534.00					534.00	534.00	267.00	267.00	267.00
123478-HxCDF	0.1		509.00					509.00	509.00	50.90	50.90	50.90
123678-HxCDF	0.1		116.00					116.00	116.00	11.60	11.60	11.60
234678-HxCDF	0.1		77.10					77.10	77.10	7.71	7.71	7.71
123789-HxCDF	0.1		11.00					11.00	11.00	1.10	1.10	1.10
1234678-HpCDF	0.01		576.00					576.00	576.00	5.76	5.76	5.76
1234789-HpCDF	0.01		45.20					45.20	45.20	0.45	0.45	0.45
12346789-OCDF	0.001		712.00					712.00	712.00	0.71	0.71	0.71
nondetects = detection limit								TEQ=	551.52			
nondetects = 1/2 d.l.								teq=		551.52		
nondetects = zero								teq=				551.52
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			39.70	6.00					39.70	6.00		
TOTAL PeCDD			39.40	6.00					39.40	6.00		
TOTAL HxCDD			88.30	6.00					88.30	6.00		
TOTAL HpCDD			492.00	2.00					492.00	2.00		
TOTAL TCDF		E	3970.00	13.00		3270.00	9.00		3270.00	9.00		
TOTAL PeCDF			2550.00	10.00					2550.00	10.00		
TOTAL HxCDF			1110.00	10.00					1110.00	10.00		
TOTAL HpCDF			1150.00	4.00					1150.00	4.00		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude									43.457900425N			
Longitude									84.078748671W			
Northing (MiGeoRef)									324789.81m			
Easting (MiGeoRef)									655271.96m			
Elevation (NAVD 1929 in feet)												



**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 10-3 UNDILUTED			II IMP 10-3 DILUTED			5/6/2002		II IMP 10-3 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	ND	0.10					ND	0.10	0.00	0.00	0.00
1379-TCDD	0		5.70						5.70	0.00	0.00	0.00
2378-TCDD	1		2.80						2.80	2.80	2.80	2.80
12378-PeCDD	0.5	J	2.90					J	2.90	1.45	1.45	1.45
123478-HxCDD	0.1	J	2.30					J	2.30	0.23	0.23	0.23
123678-HxCDD	0.1		10.20						10.20	1.02	1.02	1.02
123789-HxCDD	0.1	J	5.50					J	5.50	0.55	0.55	0.55
1234678-HpCDD	0.01		187.00						187.00	1.87	1.87	1.87
12346789-OCDD	0.001		1860.00						1860.00	1.86	1.86	1.86
1368-TCDF	0	ND	0.10					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	1300.00			627.00			627.00	62.70	62.70	62.70
12378-PeCDF	0.05		539.00						539.00	26.95	26.95	26.95
23478-PeCDF	0.5		338.00						338.00	169.00	169.00	169.00
123478-HxCDF	0.1		286.00						286.00	28.60	28.60	28.60
123678-HxCDF	0.1		78.20						78.20	7.82	7.82	7.82
234678-HxCDF	0.1		43.80						43.80	4.38	4.38	4.38
123789-HxCDF	0.1		5.30						5.30	0.53	0.53	0.53
1234678-HpCDF	0.01		357.00						357.00	3.57	3.57	3.57
1234789-HpCDF	0.01		25.80						25.80	0.26	0.26	0.26
12346789-OCDF	0.001		458.00						458.00	0.46	0.46	0.46
nondetects = detection limit									TEQ=	314.05		
nondetects = 1/2 d.l.									teq=		314.05	
nondetects = zero									teq=			314.05
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			23.40	7.00					23.40	7.00		
TOTAL PeCDD			21.60	6.00					21.60	6.00		
TOTAL HxCDD			61.50	6.00					61.50	6.00		
TOTAL HpCDD			335.00	2.00					335.00	2.00		
TOTAL TCDF		E	2560.00	13.00		1330.00	7.00		1330.00	7.00		
TOTAL PeCDF			1520.00	11.00					1520.00	11.00		
TOTAL HxCDF			630.00	10.00					630.00	10.00		
TOTAL HpCDF			766.00	3.00					766.00	3.00		
<b>% Finer than #200 Sieve</b>									62			
<b>% Total Organic Carbon</b>									3.3			
<b>% Solids</b>									78			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

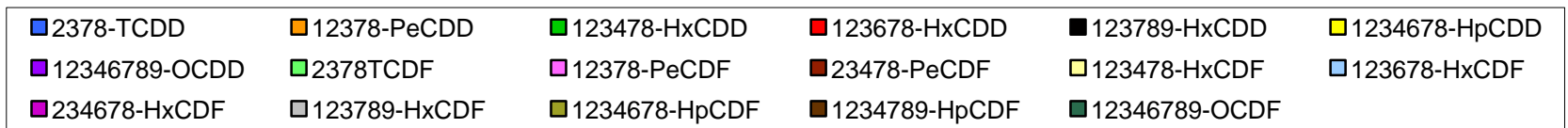
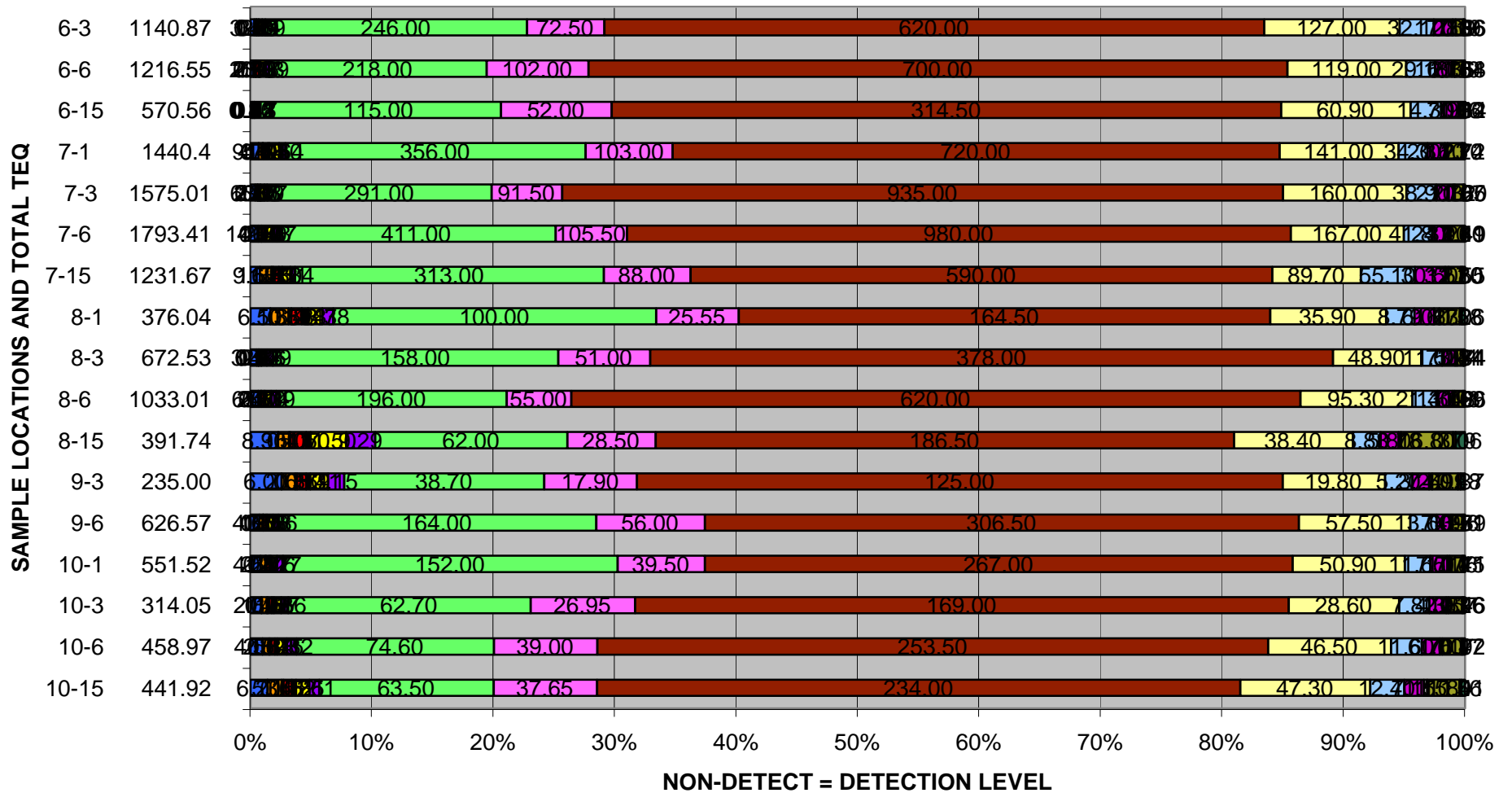
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 10-6 UNDILUTED			II IMP 10-6 DILUTED			5/6/2002		II IMP 10-6 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		27.60						27.60	0.00	0.00	0.00
1379-TCDD	0		10.70						10.70	0.00	0.00	0.00
2378-TCDD	1		4.50						4.50	4.50	4.50	4.50
12378-PeCDD	0.5	J	5.00					J	5.00	2.50	2.50	2.50
123478-HxCDD	0.1	J	3.70					J	3.70	0.37	0.37	0.37
123678-HxCDD	0.1		18.80						18.80	1.88	1.88	1.88
123789-HxCDD	0.1	J	9.30					J	9.30	0.93	0.93	0.93
1234678-HpCDD	0.01		345.00						345.00	3.45	3.45	3.45
12346789-OCDD	0.001		3820.00						3820.00	3.82	3.82	3.82
1368-TCDF	0	ND	0.06					ND	0.06	0.00	0.00	0.00
2378TCDF	0.1	E	1740.00			746.00			746.00	74.60	74.60	74.60
12378-PeCDF	0.05		780.00						780.00	39.00	39.00	39.00
23478-PeCDF	0.5		507.00						507.00	253.50	253.50	253.50
123478-HxCDF	0.1		465.00						465.00	46.50	46.50	46.50
123678-HxCDF	0.1		116.00						116.00	11.60	11.60	11.60
234678-HxCDF	0.1		67.60						67.60	6.76	6.76	6.76
123789-HxCDF	0.1		10.00						10.00	1.00	1.00	1.00
1234678-HpCDF	0.01		717.00						717.00	7.17	7.17	7.17
1234789-HpCDF	0.01		46.60						46.60	0.47	0.47	0.47
12346789-OCDF	0.001		919.00						919.00	0.92	0.92	0.92
nondetects = detection limit									TEQ=	458.97		
nondetects = 1/2 d.l.									teq=		458.97	
nondetects = zero									teq=			458.97
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			55.00	5.00					55.00	5.00		
TOTAL PeCDD			39.60	7.00					39.60	7.00		
TOTAL HxCDD			107.00	6.00					107.00	6.00		
TOTAL HpCDD			614.00	2.00					614.00	2.00		
TOTAL TCDF		E	3730.00	14.00		1820.00	8.00		1820.00	8.00		
TOTAL PeCDF			2510.00	10.00					2510.00	10.00		
TOTAL HxCDF			1090.00	11.00					1090.00	11.00		
TOTAL HpCDF			1440.00	3.00					1440.00	3.00		
% Finer than #200 Sieve									62.7			
% Total Organic Carbon									2.1			
% Solids									79			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES										
		II IMP 10-15 UNDILUTED			II IMP 10-15 DILUTED			5/6/2002		II IMP 10-15 FINAL		
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		11.60						11.60	0.00	0.00	0.00
1379-TCDD	0		18.50						18.50	0.00	0.00	0.00
2378-TCDD	1		6.20						6.20	6.20	6.20	6.20
12378-PeCDD	0.5		10.30						10.30	5.15	5.15	5.15
123478-HxCDD	0.1		6.50						6.50	0.65	0.65	0.65
123678-HxCDD	0.1		30.20						30.20	3.02	3.02	3.02
123789-HxCDD	0.1		15.20						15.20	1.52	1.52	1.52
1234678-HpCDD	0.01		485.00						485.00	4.85	4.85	4.85
12346789-OCDD	0.001	E	5050.00			3610.00			3610.00	3.61	3.61	3.61
1368-TCDF	0	ND	0.08					ND	0.08	0.00	0.00	0.00
2378TCDF	0.1	E	1400.00			635.00			635.00	63.50	63.50	63.50
12378-PeCDF	0.05		753.00						753.00	37.65	37.65	37.65
23478-PeCDF	0.5		468.00						468.00	234.00	234.00	234.00
123478-HxCDF	0.1		473.00						473.00	47.30	47.30	47.30
123678-HxCDF	0.1		124.00						124.00	12.40	12.40	12.40
234678-HxCDF	0.1		71.50						71.50	7.15	7.15	7.15
123789-HxCDF	0.1		11.50						11.50	1.15	1.15	1.15
1234678-HpCDF	0.01		1180.00						1180.00	11.80	11.80	11.80
1234789-HpCDF	0.01		56.40						56.40	0.56	0.56	0.56
12346789-OCDF	0.001		1410.00						1410.00	1.41	1.41	1.41
nondetects = detection limit									TEQ=	441.92		
nondetects = 1/2 d.l.									teq=		441.92	
nondetects = zero									teq=			441.92
Totals		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			64.40	8.00					64.40	8.00		
TOTAL PeCDD			89.90	9.00					89.90	9.00		
TOTAL HxCDD			176.00	7.00					176.00	7.00		
TOTAL HpCDD			845.00	2.00					845.00	2.00		
TOTAL TCDF		E	2940.00	12.00		1430.00	10.00		1430.00	10.00		
TOTAL PeCDF			2110.00	9.00					2110.00	9.00		
TOTAL HxCDF			1170.00	10.00					1170.00	10.00		
TOTAL HpCDF			2430.00	3.00					2430.00	3.00		
% Finer than #200 Sieve									66.7			
% Total Organic Carbon									2.2			
% Solids									66			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

## TITTABAWASSEE RIVER PROJECT - IMERMAN PARK 6-10, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - IMERMAN PARK, SAGINAW COUNTY SOIL SAMPLES													
		5/6/02					5/6/02					5/6/02			
		II IMP 11-3					II IMP 11-6					II IMP 11-15			
		FINAL					FINAL					FINAL			
Analyte	TEF	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect
			pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.
1368-TCDD	0		1.20	0.00	0.00	0.00		2.90	0.00	0.00	0.00	ND	0.40	0.00	0.00
1379-TCDD	0	J	0.96	0.00	0.00	0.00	ND	1.40	0.00	0.00	0.00	ND	0.40	0.00	0.00
2378-TCDD	1	J	0.57	0.57	0.57	0.57	ND	0.70	0.70	0.35	0.00	ND	0.40	0.40	0.20
12378-PeCDD	0.5	J	0.64	0.32	0.32	0.32	J	1.20	0.60	0.60	0.60	ND	0.40	0.20	0.10
123478-HxCDD	0.1	J	0.58	0.06	0.06	0.06	J	0.89	0.09	0.09	0.09	ND	0.50	0.05	0.03
123678-HxCDD	0.1	J	2.00	0.20	0.20	0.20	J	3.40	0.34	0.34	0.34	ND	0.50	0.05	0.03
123789-HxCDD	0.1	J	1.40	0.14	0.14	0.14	J	1.80	0.18	0.18	0.18	ND	0.50	0.05	0.03
1234678-HpCDD	0.01		36.50	0.37	0.37	0.37		54.10	0.54	0.54	0.54		11.50	0.12	0.12
12346789-OCDD	0.001		294.00	0.29	0.29	0.29		501.00	0.50	0.50	0.50		107.00	0.11	0.11
1368-TCDF	0	ND	0.08	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.40	0.00	0.00
2378TCDF	0.1		110.00	11.00	11.00	11.00		118.00	11.80	11.80	11.80		47.70	4.77	4.77
12378-PeCDF	0.05		59.20	2.96	2.96	2.96		54.00	2.70	2.70	2.70		24.90	1.25	1.25
23478-PeCDF	0.5		34.00	17.00	17.00	17.00		31.70	15.85	15.85	15.85		14.60	7.30	7.30
123478-HxCDF	0.1		33.70	3.37	3.37	3.37		39.00	3.90	3.90	3.90		18.30	1.83	1.83
123678-HxCDF	0.1		8.30	0.83	0.83	0.83		11.10	1.11	1.11	1.11	J	4.70	0.47	0.47
234678-HxCDF	0.1		5.40	0.54	0.54	0.54		6.50	0.65	0.65	0.65	ND,Q	2.80	0.28	0.14
123789-HxCDF	0.1	J	0.68	0.07	0.07	0.07	J	0.64	0.06	0.06	0.06	J	0.37	0.04	0.04
1234678-HpCDF	0.01		60.70	0.61	0.61	0.61		96.80	0.97	0.97	0.97		23.50	0.24	0.24
1234789-HpCDF	0.01	J	3.40	0.03	0.03	0.03	J	5.00	0.05	0.05	0.05	J	2.00	0.02	0.02
12346789-OCDF	0.001		67.00	0.07	0.07	0.07		123.00	0.12	0.12	0.12		32.20	0.03	0.03
nondetects = detection limit			TEQ=	38.42				TEQ=	40.17				TEQ=	17.19	
nondetects = 1/2 d.l.			teq=		38.42			teq=		39.82			teq=		16.68
nondetects = zero			teq=			38.42		teq=			39.47		teq=		
Totals		Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number	
			pg/g					pg/g					pg/g		
TOTAL TCDD			3.40	4.00				4.10	2.00			ND,Q	12.10		
TOTAL PeCDD			4.70	6.00				1.20	1.00			ND	0.90		
TOTAL HxCDD			15.40	6.00				18.30	5.00				3.50	2.00	
TOTAL HpCDD			67.30	2.00				99.40	2.00				21.10	2.00	
TOTAL TCDF			223.00	11.00				211.00	12.00				92.00	6.00	
TOTAL PeCDF			164.00	10.00				147.00	7.00				53.80	4.00	
TOTAL HxCDF			81.90	9.00				108.00	10.00				35.80	6.00	
TOTAL HpCDF			120.00	3.00				188.00	4.00				45.90	3.00	
% Finer than #200 Sieve			17.50					16.20					12.70		
% Total Organic Carbon			2.90					1.80					0.62		
% Solids			72.00					80.00					81.00		
Latitude			43.457987100N												
Longitude			84.078062069W												
Northing (MiGeoRef)			324800.72m												
Easting (MiGeoRef)			655327.27m												
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - IMERMAN PARK,W COUNTY SOIL SAMPLES																							
		5/6/02						II IMP 12-3						5/6/02						II IMP 12-6					
		FINAL						FINAL						FINAL											
Analyte	TEF	nondetect	Flags	Concentration	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	Flags	Concentration	nondetect	nondetect							
		zero		pg/g	detection level	1/2 d.l.		pg/g	detection level	1/2 d.l.		pg/g	detection level	1/2 d.l.		pg/g	detection level	1/2 d.l.							
1368-TCDD	0	0.00	ND	1.10	0.00	0.00		2.00	0.00	0.00	ND	1.10	0.00	0.00		1.10	0.00	0.00							
1379-TCDD	0	0.00		1.20	0.00	0.00	ND	1.60	0.00	0.00	ND	0.40	0.00	0.00	ND	0.40	0.00	0.00							
2378-TCDD	1	0.00	J	0.85	0.85	0.85	ND	0.90	0.90	0.45	ND	0.60	0.00	0.00	ND	0.60	0.00	0.60							
12378-PeCDD	0.5	0.00	ND	0.90	0.45	0.23	ND	0.40	0.20	0.10	ND	0.40	0.00	0.00	ND	0.40	0.00	0.20							
123478-HxCDD	0.1	0.00	J	0.99	0.10	0.10	J	1.40	0.14	0.14	J	0.64	0.06	0.06	J	0.64	0.06	0.06							
123678-HxCDD	0.1	0.00	J	2.30	0.23	0.23	J	2.80	0.28	0.28	ND	1.50	0.15	0.15	ND	1.50	0.15	0.15							
123789-HxCDD	0.1	0.00	ND	2.20	0.22	0.11	J	1.90	0.19	0.19	J	1.70	0.17	0.17	J	1.70	0.17	0.17							
1234678-HpCDD	0.01	0.12		36.60	0.37	0.37		39.20	0.39	0.39		18.30	0.18	0.18		18.30	0.18	0.18							
12346789-OCDD	0.001	0.11		287.00	0.29	0.29		297.00	0.30	0.30		129.00	0.13	0.13		129.00	0.13	0.13							
1368-TCDF	0	0.00	ND	0.30	0.00	0.00	ND	0.30	0.00	0.00	ND	0.30	0.00	0.00	ND	0.30	0.00	0.00							
2378TCDF	0.1	4.77		25.90	2.59	2.59		29.40	2.94	2.94		15.10	1.51	1.51		15.10	1.51	1.51							
12378-PeCDF	0.05	1.25		12.60	0.63	0.63		15.10	0.76	0.76		8.10	0.41	0.41		8.10	0.41	0.41							
23478-PeCDF	0.5	7.30		8.10	4.05	4.05		10.00	5.00	5.00	ND	5.20	2.60	2.60	ND	5.20	2.60	2.60							
123478-HxCDF	0.1	1.83		10.30	1.03	1.03		12.10	1.21	1.21		7.10	0.71	0.71		7.10	0.71	0.71							
123678-HxCDF	0.1	0.47	J	3.00	0.30	0.30	ND	3.30	0.33	0.17	ND	2.10	0.21	0.21	ND	2.10	0.21	0.21							
234678-HxCDF	0.1	0.00	J	2.60	0.26	0.26	J	2.90	0.29	0.29	J	1.80	0.18	0.18	J	1.80	0.18	0.18							
123789-HxCDF	0.1	0.04	ND	0.50	0.05	0.03	ND	0.50	0.05	0.03	ND	0.40	0.04	0.04	ND	0.40	0.04	0.04							
1234678-HpCDF	0.01	0.24		33.50	0.34	0.34		36.60	0.37	0.37		19.70	0.20	0.20		19.70	0.20	0.20							
1234789-HpCDF	0.01	0.02	ND	1.60	0.02	0.01	ND	1.70	0.02	0.01	J	1.40	0.01	0.01	J	1.40	0.01	0.01							
12346789-OCDF	0.001	0.03		39.02	0.04	0.04		48.00	0.05	0.05		25.30	0.03	0.03		25.30	0.03	0.03							
nondetects = detection limit				TEQ=	11.80			TEQ=	13.41			TEQ=	7.39			TEQ=	7.39								
nondetects = 1/2 d.l.				teq=		11.43		teq=		12.66		teq=				teq=									
nondetects = zero		16.16		teq=		11.07		teq=		11.91		teq=				teq=									
Totals			Flags	Concentration	Number		Flags	Concentration	Number		Flags	Concentration	Number		Flags	Concentration	Number								
				pg/g				pg/g				pg/g				pg/g									
TOTAL TCDD				2.90	3.00			3.30	2.00			0.79	1.00			0.79	1.00								
TOTAL PeCDD				1.70	1.00			3.90	2.00		ND	1.90			ND	1.90									
TOTAL HxCDD				12.00	4.00			20.20	5.00			9.80	4.00			9.80	4.00								
TOTAL HpCDD				71.20	2.00			76.90	2.00			34.10	2.00			34.10	2.00								
TOTAL TCDF				42.80	8.00			60.10	9.00			36.40	8.00			36.40	8.00								
TOTAL PeCDF				35.60	7.00			41.40	7.00			18.90	6.00			18.90	6.00								
TOTAL HxCDF				31.70	7.00			33.60	6.00			20.50	6.00			20.50	6.00								
TOTAL HpCDF				63.50	2.00			69.40	2.00			36.80	3.00			36.80	3.00								
% Finer than #200 Sieve				16.60				16.60				15.50				15.50									
% Total Organic Carbon				2.20				1.90				0.83				0.83									
% Solids				82.00				84.00				88.00				88.00									
Latitude				43.458216374N																					
Longitude				84.077716392W																					
Northing (MiGeoRef)				324826.83m																					
Easting (MiGeoRef)				655354.64m																					
Elevation (NAVD 1929 in feet)																									

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02				PHASE II - IMERMAN PARK, W COUNTY SOIL SAMPLES											
				5/6/02					5/6/02					5/6/02	
				II IMP 13-3 FINAL					II IMP 13-6 FINAL						
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g
1368-TCDD	0	0.00	0.00	J	0.66	0.00	0.00	0.00	ND	1.30	0.00	0.00	0.00	ND	0.50
1379-TCDD	0	0.00	0.00	ND	0.80	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.50
2378-TCDD	1	0.30	0.00	J	0.80	0.80	0.80	0.80	J	0.79	0.79	0.79	0.79	ND	0.50
12378-PeCDD	0.5	0.10	0.00	J	0.79	0.40	0.40	0.40	ND	0.40	0.20	0.10	0.00	ND	0.60
123478-HxCDD	0.1	0.06	0.06	ND	0.50	0.05	0.03	0.00	J	0.52	0.05	0.05	0.05	ND	0.70
123678-HxCDD	0.1	0.08	0.00	J	1.10	0.11	0.11	0.11	J	1.40	0.14	0.14	0.14	J	0.89
123789-HxCDD	0.1	0.17	0.17	J	1.50	0.15	0.15	0.15	J	1.50	0.15	0.15	0.15	ND	0.70
1234678-HpCDD	0.01	0.18	0.18		16.50	0.17	0.17	0.17		16.10	0.16	0.16	0.16		7.90
12346789-OCDD	0.001	0.13	0.13		129.00	0.13	0.13	0.13		116.00	0.12	0.12	0.12		48.70
1368-TCDF	0	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.40
2378TCDF	0.1	1.51	1.51	B	7.80	0.78	0.78	0.78		8.30	0.83	0.83	0.83		5.10
12378-PeCDF	0.05	0.41	0.41	J	3.90	0.20	0.20	0.20	J	4.10	0.21	0.21	0.21	J	2.90
23478-PeCDF	0.5	1.30	0.00	J,B	2.70	1.35	1.35	1.35	J	3.10	1.55	1.55	1.55	J	1.80
123478-HxCDF	0.1	0.71	0.71	J,B	3.60	0.36	0.36	0.36	J	3.90	0.39	0.39	0.39	J	2.60
123678-HxCDF	0.1	0.11	0.00	J	1.30	0.13	0.13	0.13	ND	1.10	0.11	0.06	0.00	J	0.79
234678-HxCDF	0.1	0.18	0.18	J	1.20	0.12	0.12	0.12	J	0.91	0.09	0.09	0.09	J	0.70
123789-HxCDF	0.1	0.02	0.00	ND	0.50	0.05	0.03	0.00	ND	0.40	0.04	0.02	0.00	ND	0.70
1234678-HpCDF	0.01	0.20	0.20		14.10	0.14	0.14	0.14		12.20	0.12	0.12	0.12		7.50
1234789-HpCDF	0.01	0.01	0.01	ND	0.60	0.01	0.00	0.00	J	0.73	0.01	0.01	0.01	ND	1.00
12346789-OCDF	0.001	0.03	0.03		21.20	0.02	0.02	0.02		16.40	0.02	0.02	0.02	J	6.90
nondetects = detection limit					TEQ=	4.95				TEQ=	4.97				TEQ=
nondetects = 1/2 d.l.		5.49			teq=		4.90			teq=		4.80			teq=
nondetects = zero			3.59		teq=			4.85		teq=			4.62		teq=
Totals				Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g
TOTAL TCDD					1.50	2.00				0.79	1.00			ND	0.50
TOTAL PeCDD					3.20	3.00				1.20	1.00			ND	0.60
TOTAL HxCDD					10.00	4.00				12.00	6.00				5.70
TOTAL HpCDD					32.50	2.00				30.00	2.00				14.80
TOTAL TCDF					18.80	5.00				19.50	3.00				11.70
TOTAL PeCDF					9.70	5.00				9.20	4.00				8.40
TOTAL HxCDF					11.90	5.00				11.60	4.00				8.40
TOTAL HpCDF					26.00	2.00				23.60	3.00				13.50
% Finer than #200 Sieve					27.00					25.90					24.50
% Total Organic Carbon					1.80					1.50					1.30
% Solids					83.00					83.00					86.00
Latitude					43.458193350N										
Longitude					84.077260317W										
Northing (MiGeoRef)					324825.13m										
Easting (MiGeoRef)					655391.59m										
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

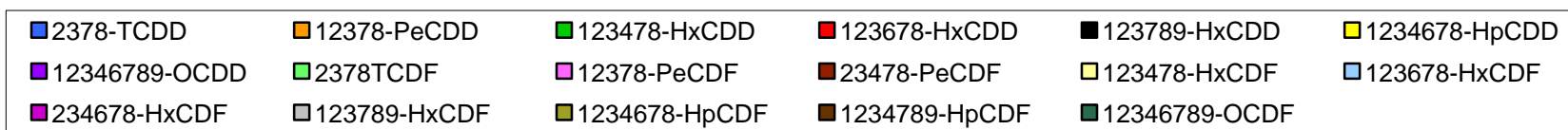
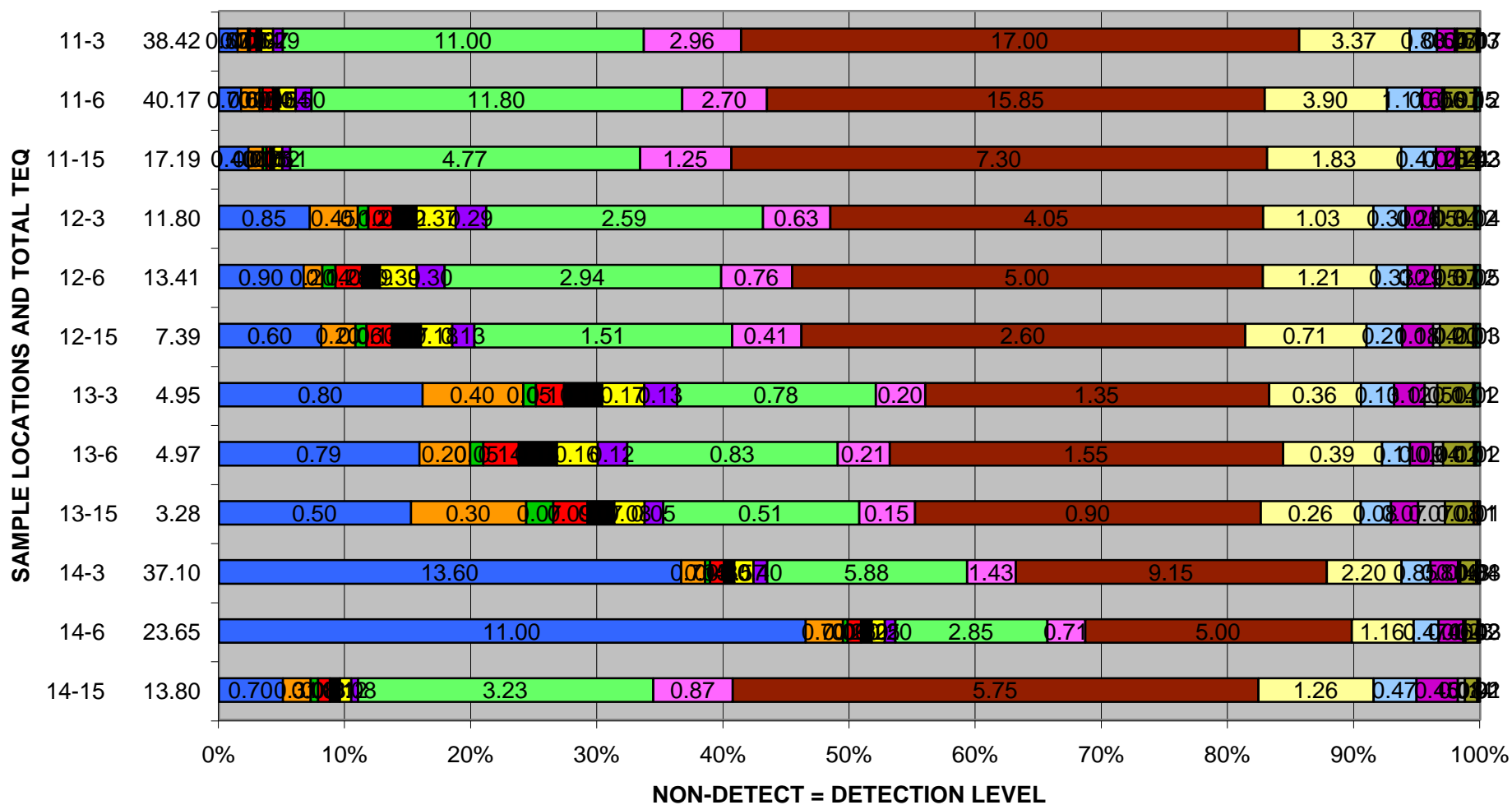
21-Nov-02					PHASE II - IMERMAN PARK,W COUNTY SOIL SAMPLES														
					5/6/02					5/6/02									
					II IMP 13-15 FINAL					II IMP 14-3 FINAL					II IMP 14-6 FINAL				
Analyte	TEF	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags				
1368-TCDD	0	0.00	0.00	0.00		5.40	0.00	0.00	0.00		2.90	0.00	0.00	0.00					
1379-TCDD	0	0.00	0.00	0.00	ND	2.00	0.00	0.00	0.00		1.60	0.00	0.00	0.00	ND				
2378-TCDD	1	0.50	0.25	0.25		13.60	13.60	13.60	13.60		11.00	11.00	11.00	11.00	ND,J				
12378-PeCDD	0.5	0.30	0.15	0.15	ND,J	1.40	0.70	0.35	0.00	ND,J	1.40	0.70	0.35	0.00	J				
123478-HxCDD	0.1	0.07	0.04	0.04	ND,J	1.50	0.15	0.08	0.00	ND,J	0.90	0.09	0.05	0.00	ND				
123678-HxCDD	0.1	0.09	0.09	0.09	J	4.10	0.41	0.41	0.41	J	2.50	0.25	0.25	0.25	J				
123789-HxCDD	0.1	0.07	0.04	0.04	J	3.00	0.30	0.30	0.30	J	2.00	0.20	0.20	0.20	J				
1234678-HpCDD	0.01	0.08	0.08	0.08		56.70	0.57	0.57	0.57		24.70	0.25	0.25	0.25					
12346789-OCDD	0.001	0.05	0.05	0.05		404.00	0.40	0.40	0.40		196.00	0.20	0.20	0.20					
1368-TCDF	0	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND				
2378TCDF	0.1	0.51	0.51	0.51		58.80	5.88	5.88	5.88		28.50	2.85	2.85	2.85					
12378-PeCDF	0.05	0.15	0.15	0.15		28.60	1.43	1.43	1.43		14.20	0.71	0.71	0.71					
23478-PeCDF	0.5	0.90	0.90	0.90		18.30	9.15	9.15	9.15		10.00	5.00	5.00	5.00					
123478-HxCDF	0.1	0.26	0.26	0.26		22.00	2.20	2.20	2.20		11.60	1.16	1.16	1.16					
123678-HxCDF	0.1	0.08	0.08	0.08		8.50	0.85	0.85	0.85	J	4.70	0.47	0.47	0.47	J				
234678-HxCDF	0.1	0.07	0.07	0.07		8.10	0.81	0.81	0.81	J	4.60	0.46	0.46	0.46	J				
123789-HxCDF	0.1	0.07	0.04	0.04	ND,J	0.60	0.06	0.03	0.00	ND,J	0.40	0.04	0.02	0.00	ND				
1234678-HpCDF	0.01	0.08	0.08	0.08		47.60	0.48	0.48	0.48		22.8	0.23	0.11	0.00					
1234789-HpCDF	0.01	0.01	0.01	0.01	J	3.50	0.04	0.04	0.04	J	1.6	0.02	0.01	0.00					
12346789-OCDF	0.001	0.01	0.01	0.01		79.20	0.08	0.08	0.08		33.30	0.03	0.03	0.03					
nondetects = detection limit		3.28				TEQ=	37.10				TEQ=	23.65							
nondetects = 1/2 d.l.			2.77			teq=		36.65			teq=		23.11						
nondetects = zero				2.77		teq=			36.19		teq=			22.58					
Totals		Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags				
TOTAL TCDD						21.00	3.00				15.50	3.00							
TOTAL PeCDD						7.00	2.00				5.10	3.00							
TOTAL HxCDD		4.00				24.90	4.00				17.60	5.00							
TOTAL HpCDD		2.00				99.90	2.00				44.90	2.00							
TOTAL TCDF		3.00				171.00	14.00				117.00	13.00							
TOTAL PeCDF		4.00				130.00	10.00				72.80	10.00							
TOTAL HxCDF		5.00				107.00	9.00				55.40	8.00							
TOTAL HpCDF		2.00				102.00	3.00				45.90	3.00							
% Finer than #200 Sieve						21.00					11.80								
% Total Organic Carbon						2.50					1.70								
% Solids						70.00					78.00								
Latitude						43.458709374N													
Longitude						84.077257419W													
Northing (MiGeoRef)						324882.43m													
Easting (MiGeoRef)						655390.49m													
Elevation (NAVD 1929 in feet)																			



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02					
			II IMP 14-15		
			FINAL		
Analyte	TEF	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	1.40	0.00	0.00	0.00
1379-TCDD	0	0.50	0.00	0.00	0.00
2378-TCDD	1	0.70	0.70	0.35	0.00
12378-PeCDD	0.5	0.61	0.31	0.31	0.31
123478-HxCDD	0.1	0.80	0.08	0.04	0.00
123678-HxCDD	0.1	1.30	0.13	0.13	0.13
123789-HxCDD	0.1	1.10	0.11	0.11	0.11
1234678-HpCDD	0.01	12.20	0.12	0.12	0.12
12346789-OCDD	0.001	75.10	0.08	0.08	0.08
1368-TCDF	0	0.40	0.00	0.00	0.00
2378TCDF	0.1	32.30	3.23	3.23	3.23
12378-PeCDF	0.05	17.40	0.87	0.87	0.87
23478-PeCDF	0.5	11.50	5.75	5.75	5.75
123478-HxCDF	0.1	12.60	1.26	1.26	1.26
123678-HxCDF	0.1	4.70	0.47	0.47	0.47
234678-HxCDF	0.1	4.50	0.45	0.45	0.45
123789-HxCDF	0.1	0.80	0.08	0.04	0.00
1234678-HpCDF	0.01	13.50	0.14	0.14	0.14
1234789-HpCDF	0.01	1.80	0.02	0.02	0.02
12346789-OCDF	0.001	13.00	0.01	0.01	0.01
nondetects = detection limit		TEQ=	13.80		
nondetects = 1/2 d.l.		teq=		13.37	
nondetects = zero		teq=			12.94
Totals		Concentration pg/g	Number		
TOTAL TCDD		1.40	1.00		
TOTAL PeCDD		0.61	1.00		
TOTAL HxCDD		9.50	4.00		
TOTAL HpCDD		20.70	2.00		
TOTAL TCDF		105.00	10.00		
TOTAL PeCDF		91.30	9.00		
TOTAL HxCDF		61.80	7.00		
TOTAL HpCDF		25.50	3.00		
% Finer than #200 Sieve		14.40			
% Total Organic Carbon		0.87			
% Solids		82.00			
Latitude					
Longitude					
Northing (MiGeoRef)					
Easting (MiGeoRef)					
Elevation (NAVD 1929 in feet)					

## TITTABAWASSEE RIVER PROJECT - IMERMAN PARK 11-14, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II WMP 1-1 UNDILUTED			II WMP 1-1 DILUTED			5/1/2002		II WMP 1-1 FINAL		
		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	nondetect	nondetect	nondetect
			pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		5.3					5.3	0.00	0.00	0.00	
1379-TCDD	0		8.4					8.4	0.00	0.00	0.00	
2378-TCDD	1		9.6					9.6	9.60	9.60	9.60	
12378-PeCDD	0.5		7.3					7.3	3.65	3.65	3.65	
123478-HxCDD	0.1	J	4.9				J	4.9	0.49	0.49	0.49	
123678-HxCDD	0.1		23					23	2.30	2.30	2.30	
123789-HxCDD	0.1		11.5					11.5	1.15	1.15	1.15	
1234678-HpCDD	0.01		399					399	3.99	3.99	3.99	
12346789-OCDD	0.001		3650					3650	3.65	3.65	3.65	
1368-TCDF	0	ND	0.1				ND	0.1	0.00	0.00	0.00	
2378TCDF	0.1	E	1320			851		851	85.10	85.10	85.10	
12378-PeCDF	0.05		923					923	46.15	46.15	46.15	
23478-PeCDF	0.5		455					455	227.50	227.50	227.50	
123478-HxCDF	0.1		492					492	49.20	49.20	49.20	
123678-HxCDF	0.1		117					117	11.70	11.70	11.70	
234678-HxCDF	0.1		65.3					65.3	6.53	6.53	6.53	
123789-HxCDF	0.1		10.8					10.8	1.08	1.08	1.08	
1234678-HpCDF	0.01		626					626	6.26	6.26	6.26	
1234789-HpCDF	0.01		42.3					42.3	0.42	0.42	0.42	
12346789-OCDF	0.001		883					883	0.88	0.88	0.88	
nondetects = detection limit								TEQ=	459.66			
nondetects = 1/2 d.l.								teq=		459.66		
nondetects = zero								teq=			459.66	
<b>Totals</b>		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
			pg/g			pg/g			pg/g			
TOTAL TCDD			49.4	8					49.4	8		
TOTAL PeCDD			60.9	9					60.9	9		
TOTAL HxCDD			183.0	8					183.0	8		
TOTAL HpCDD			697.0	2					697.0	2		
TOTAL TCDF		E	3030.0	13		2190.0	9		2190.0	9		
TOTAL PeCDF			2240.0	9					2240.0	9		
TOTAL HxCDF			1010.0	11					1010.0	11		
TOTAL HpCDF			1520.0	4					1520.0	4		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude									43.401558152N			
Longitude									84.029730811W			
Northing (MiGeoRef)									318627.46m			
Easting (MiGeoRef)									659385.83m			
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II WMP 1-3			II WMP 1-3			5/21/02	II WMP 1-3			
		DILUTED			DILUTED				FINAL			
		Flags	Concentration		Flags	Concentration		Flags	Concentration	nondetect	nondetect	nondetect
		pg/g		pg/g			pg/g	detection level	1/2 d.l.	zero		
1368-TCDD	0		35.1					35.1	0.00	0.00	0.00	
1379-TCDD	0		10.5					10.5	0.00	0.00	0.00	
2378-TCDD	1		9.5					9.5	9.50	9.50	9.50	
12378-PeCDD	0.5		8.3					8.3	4.15	4.15	4.15	
123478-HxCDD	0.1	J	4.6				J	4.6	0.46	0.46	0.46	
123678-HxCDD	0.1		23.2					23.2	2.32	2.32	2.32	
123789-HxCDD	0.1		11.4					11.4	1.14	1.14	1.14	
1234678-HpCDD	0.01		532					532	5.32	5.32	5.32	
12346789-OCDD	0.001	E	5020		4480			4480	4.48	4.48	4.48	
1368-TCDF	0	ND	0.3				ND	0.3	0.00	0.00	0.00	
2378TCDF	0.1	E	851		475			475	47.50	47.50	47.50	
12378-PeCDF	0.05		427					427	21.35	21.35	21.35	
23478-PeCDF	0.5		252					252	126.00	126.00	126.00	
123478-HxCDF	0.1		272					272	27.20	27.20	27.20	
123678-HxCDF	0.1		69.6					69.6	6.96	6.96	6.96	
234678-HxCDF	0.1		40.2					40.2	4.02	4.02	4.02	
123789-HxCDF	0.1		6.5					6.5	0.65	0.65	0.65	
1234678-HpCDF	0.01		647					647	6.47	6.47	6.47	
1234789-HpCDF	0.01		39.2					39.2	0.39	0.39	0.39	
12346789-OCDF	0.001		1200					1200	1.20	1.20	1.20	
nondetects = detection limit								TEQ=	269.11			
nondetects = 1/2 d.l.								teq=		269.11		
nondetects = zero								teq=			269.11	
<b>Totals</b>		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
			pg/g			pg/g			pg/g			
TOTAL TCDD			68.4	6.0					68.4	6.0		
TOTAL PeCDD			37.3	4.0					37.3	4.0		
TOTAL HxCDD			151.0	7.0					151.0	7.0		
TOTAL HpCDD			959.0	2.0					959.0	2.0		
TOTAL TCDF		E	1750.0	13.0		1180.0	10.0		1180.0	10.0		
TOTAL PeCDF			1340.0	13.0					1340.0	13.0		
TOTAL HxCDF			750.0	10.0					750.0	10.0		
TOTAL HpCDF			1540.0	4.0					1540.0	4.0		
<b>% Finer than #200 Sieve</b>									60.8			
<b>% Total Organic Carbon</b>									2.6			
<b>% Solids</b>									77			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II WMP 1-6 UNDILUTED			II WMP 1-6 DILUTED			II WMP 1-6 FINAL			nondetect 1/2 d.l.	nondetect zero
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
1368-TCDD	0		56.6					56.6		0.00	0.00	0.00
1379-TCDD	0		15.8					15.8		0.00	0.00	0.00
2378-TCDD	1		15					15		15.00	15.00	15.00
12378-PeCDD	0.5		12.6					12.6		6.30	6.30	6.30
123478-HxCDD	0.1		7.4					7.4		0.74	0.74	0.74
123678-HxCDD	0.1		45.2					45.2		4.52	4.52	4.52
123789-HxCDD	0.1		18.5					18.5		1.85	1.85	1.85
1234678-HpCDD	0.01		951					951		9.51	9.51	9.51
12346789-OCDD	0.001	E	8430		6340			6340		6.34	6.34	6.34
1368-TCDF	0	ND	0.5					0.5	ND	0.00	0.00	0.00
2378TCDF	0.1	E	1010		610			610		61.00	61.00	61.00
12378-PeCDF	0.05		527					527		26.35	26.35	26.35
23478-PeCDF	0.5		313					313		156.50	156.50	156.50
123478-HxCDF	0.1		358					358		35.80	35.80	35.80
123678-HxCDF	0.1		91.3					91.3		9.13	9.13	9.13
234678-HxCDF	0.1		54.3					54.3		5.43	5.43	5.43
123789-HxCDF	0.1		10.5					10.5		1.05	1.05	1.05
1234678-HpCDF	0.01		1040					1040		10.40	10.40	10.40
1234789-HpCDF	0.01		58.3					58.3		0.58	0.58	0.58
12346789-OCDF	0.001		2190					2190		2.19	2.19	2.19
nondetects = detection limit								TEQ=		352.69		
nondetects = 1/2 d.l.								teq=			352.69	
nondetects = zero								teq=				352.69
<b>Totals</b>		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			104.0	5.0					104.0	5.0		
TOTAL PeCDD			86.5	7.0					86.5	7.0		
TOTAL HxCDD			264.0	6.0					264.0	6.0		
TOTAL HpCDD			1670.0	2.0					1670.0	2.0		
TOTAL TCDF		E	2270.0	15.0		1690.0	12.0		1690.0	12.0		
TOTAL PeCDF			1760.0	13.0					1760.0	13.0		
TOTAL HxCDF			1080.0	11.0					1080.0	11.0		
TOTAL HpCDF			2580.0	4.0					2580.0	4.0		
% Finer than #200 Sieve									55.2			
% Total Organic Carbon									2.2			
% Solids									62			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES									
		II WMP 1-15			II WMP 1-15			II WMP 1-15			
		UNDILUTED			DILUTED			FINAL			
Analyte	TEF	Flags	Concentration		Flags	Concentration		Flags	Concentration	nondetect	nondetect
			pg/g			pg/g			pg/g	detection level	1/2 d.l.
1368-TCDD	0		90.4						90.4	0.00	0.00
1379-TCDD	0		26.7						26.7	0.00	0.00
2378-TCDD	1		32.8						32.8	32.80	32.80
12378-PeCDD	0.5		22.5						22.5	11.25	11.25
123478-HxCDD	0.1		9.2						9.2	0.92	0.92
123678-HxCDD	0.1		63						63	6.30	6.30
123789-HxCDD	0.1		27.3						27.3	2.73	2.73
1234678-HpCDD	0.01		1490						1490	14.90	14.90
12346789-OCDD	0.001	E	12890			12940			12940	12.94	12.94
1368-TCDF	0	ND	0.8					ND	0.8	0.00	0.00
2378TCDF	0.1	E	1310			836			836	83.60	83.60
12378-PeCDF	0.05		557						557	27.85	27.85
23478-PeCDF	0.5		361						361	180.50	180.50
123478-HxCDF	0.1		375						375	37.50	37.50
123678-HxCDF	0.1		97.4						97.4	9.74	9.74
234678-HxCDF	0.1		64.7						64.7	6.47	6.47
123789-HxCDF	0.1		9.9						9.9	0.99	0.99
1234678-HpCDF	0.01		1790						1790	17.90	17.90
1234789-HpCDF	0.01		73.7						73.7	0.74	0.74
12346789-OCDF	0.001		3400						3400	3.40	3.40
nondetects = detection limit									TEQ=	450.53	
nondetects = 1/2 d.l.									teq=		450.53
nondetects = zero									teq=		
<b>Totals</b>		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number	
			pg/g			pg/g			pg/g		
TOTAL TCDD			199.0	6.0					199.0	6.0	
TOTAL PeCDD			129.0	6.0					129.0	6.0	
TOTAL HxCDD			387.0	6.0					387.0	6.0	
TOTAL HpCDD			2560.0	2.0					2560.0	2.0	
TOTAL TCDF		E	2770.0	12.0		2360.0	12.0		2360.0	12.0	
TOTAL PeCDF			1970.0	13.0					1970.0	13.0	
TOTAL HxCDF			1370.0	12.0					1370.0	12.0	
TOTAL HpCDF			4200.0	4.0					4200.0	4.0	
<b>% Finer than #200 Sieve</b>									62.7		
<b>% Total Organic Carbon</b>									1.3		
<b>% Solids</b>									77		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	nondetect zero	II WMP 2-1 UNDILUTED			II WMP 2-1 DILUTED			Flags	Concentration pg/g	II WMP 2-1 FINAL	
			Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number			nondetect detection level	nondetect 1/2 d.l.
1368-TCDD	0	0.00		6.40						6.40	0.00	0.00
1379-TCDD	0	0.00		8.00						8.00	0.00	0.00
2378-TCDD	1	32.80		5.6						5.6	5.60	5.60
12378-PeCDD	0.5	11.25		7.4						7.4	3.70	3.70
123478-HxCDD	0.1	0.92		5.8						5.8	0.58	0.58
123678-HxCDD	0.1	6.30		24.2						24.2	2.42	2.42
123789-HxCDD	0.1	2.73		12.3						12.3	1.23	1.23
1234678-HpCDD	0.01	14.90		370						370	3.70	3.70
12346789-OCDD	0.001	12.94		3650						3650	3.65	3.65
1368-TCDF	0	0.00	ND	0.3				ND		0.3	0.00	0.00
2378TCDF	0.1	83.60	E	1710			935			935	93.50	93.50
12378-PeCDF	0.05	27.85		848						848	42.40	42.40
23478-PeCDF	0.5	180.50		522						522	261.00	261.00
123478-HxCDF	0.1	37.50		552						552	55.20	55.20
123678-HxCDF	0.1	9.74		132						132	13.20	13.20
234678-HxCDF	0.1	6.47		75.3						75.3	7.53	7.53
123789-HxCDF	0.1	0.99		127						12.7	1.27	1.27
1234678-HpCDF	0.01	17.90		1080						1080	10.80	10.80
1234789-HpCDF	0.01	0.74		71.5						71.5	0.72	0.72
12346789-OCDF	0.001	3.40		1450						1450	1.45	1.45
nondetects = detection limit										TEQ=	507.95	
nondetects = 1/2 d.l.										teq=		507.95
nondetects = zero		450.53								teq=		
<b>Totals</b>			Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD				51.3	7.0					51.3	7.0	
TOTAL PeCDD				49.8	5.0					49.8	5.0	
TOTAL HxCDD				232.0	7.0					232.0	7.0	
TOTAL HpCDD				654.0	2.0					654.0	2.0	
TOTAL TCDF			E	4190.0	14.0		1490.0	6.0		1490.0	6.0	
TOTAL PeCDF				2270.0	15.0					2270.0	15.0	
TOTAL HxCDF				1210.0	12.0					1210.0	12.0	
TOTAL HpCDF				2220.0	4.0					2220.0	4.0	
% Finer than #200 Sieve										NS		
% Total Organic Carbon										NS		
% Solids										NS		
Latitude										43.402221209N		
Longitude										84.029852619W		
Northing (MiGeoRef)										318700.84m		
Easting (MiGeoRef)										659374.21m		
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	nondetect zero	II WMP 2-3 UNDILUTED			II WMP 2-3 DILUTED			Flags	Concentration pg/g	II WMP 2-3 FINAL	
			Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number			nondetect detection level	nondetect 1/2 d.l.
1368-TCDD	0	0.00		16.9						16.9	0.00	0.00
1379-TCDD	0	0.00		9						9	0.00	0.00
2378-TCDD	1	5.60		6.9						6.9	6.90	6.90
12378-PeCDD	0.5	3.70		7.1						7.1	3.55	3.55
123478-HxCDD	0.1	0.58	J	4.6				J		4.6	0.46	0.46
123678-HxCDD	0.1	2.42		24.5						24.5	2.45	2.45
123789-HxCDD	0.1	1.23		12.2						12.2	1.22	1.22
1234678-HpCDD	0.01	3.70		473						473	4.73	4.73
12346789-OCDD	0.001	3.65	E	4470			3690			3690	3.69	3.69
1368-TCDF	0	0.00	ND	0.2				ND		0.2	0.00	0.00
2378TCDF	0.1	93.50	E	1400			878			878	87.80	87.80
12378-PeCDF	0.05	42.40		671						671	33.55	33.55
23478-PeCDF	0.5	261.00		408						408	204.00	204.00
123478-HxCDF	0.1	55.20		454						454	45.40	45.40
123678-HxCDF	0.1	13.20		116						116	11.60	11.60
234678-HxCDF	0.1	7.53		59.6						59.6	5.96	5.96
123789-HxCDF	0.1	1.27		11.3						11.3	1.13	1.13
1234678-HpCDF	0.01	10.80		811						811	8.11	8.11
1234789-HpCDF	0.01	0.72		54.5						54.5	0.55	0.55
12346789-OCDF	0.001	1.45		1120						1120	1.12	1.12
nondetects = detection limit										TEQ=	422.22	
nondetects = 1/2 d.l.										teq=		422.22
nondetects = zero		507.95								teq=		
<b>Totals</b>			Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD			E	34.1	4.0		13.1	1.0		13.1	1.0	
TOTAL PeCDD				45.9	6.0					45.9	6.0	
TOTAL HxCDD				149.0	6.0					149.0	6.0	
TOTAL HpCDD				852.0	2.0					852.0	2.0	
TOTAL TCDF			E	3010.0	16.0		1960.0	9.0		1960.0	9.0	
TOTAL PeCDF				1960.0	13.0					1960.0	13.0	
TOTAL HxCDF				1080.0	12.0					1080.0	12.0	
TOTAL HpCDF				1840.0	4.0					1840.0	4.0	
% Finer than #200 Sieve										57.8		
% Total Organic Carbon										3.4		
% Solids										71		
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												



**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES											
Analyte	TEF	nondetect zero	II WMP 2-6 UNDILUTED			II WMP 2-6 DILUTED			Flags	Concentration pg/g	II WMP 2-6 <i>FINAL</i>		
			Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number			Flags	Concentration pg/g	nondetect detection level
1368-TCDD	0	0.00		41.3						41.3	0.00		
1379-TCDD	0	0.00		15.3						15.3	0.00		
2378-TCDD	1	6.90		7.7						7.7	7.70		
12378-PeCDD	0.5	3.55		8.7						8.7	4.35		
123478-HxCDD	0.1	0.46		6.7						6.7	0.67		
123678-HxCDD	0.1	2.45		34.1						34.1	3.41		
123789-HxCDD	0.1	1.22		15.5						15.5	1.55		
1234678-HpCDD	0.01	4.73		679						679	6.79		
12346789-OCDD	0.001	3.69	E	6430			5470			5470	5.47		
1368-TCDF	0	0.00	ND	0.2					ND	0.2	0.00		
2378TCDF	0.1	87.80	E	2260			1390			1390	139.00		
12378-PeCDF	0.05	33.55		1110						1110	55.50		
23478-PeCDF	0.5	204.00		662						662	331.00		
123478-HxCDF	0.1	45.40		701						701	70.10		
123678-HxCDF	0.1	11.60		173						173	17.30		
234678-HxCDF	0.1	5.96		97.5						97.5	9.75		
123789-HxCDF	0.1	1.13		15.9						15.9	1.59		
1234678-HpCDF	0.01	8.11		1640						1640	16.40		
1234789-HpCDF	0.01	0.55		83.4						83.4	0.83		
12346789-OCDF	0.001	1.12		1930						1930	1.93		
nondetects = detection limit										TEQ=	673.34		
nondetects = 1/2 d.l.										teq=			
nondetects = zero		422.22								teq=			
<b>Totals</b>			Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
TOTAL TCDD			E	64.3	3.0		41.9	3.0		41.9	3.0		
TOTAL PeCDD				66.3	5.0					66.3	5.0		
TOTAL HxCDD				201.0	6.0					201.0	6.0		
TOTAL HpCDD				1180.0	2.0					1180.0	2.0		
TOTAL TCDF			E	5120.0	15.0		3100.0	10.0		3100.0	10.0		
TOTAL PeCDF				3520.0	13.0					3520.0	13.0		
TOTAL HxCDF				1780.0	11.0					1780.0	11.0		
TOTAL HpCDF				3270.0	4.0					3270.0	4.0		
% Finer than #200 Sieve										62.3			
% Total Organic Carbon										2.1			
% Solids										79			
Latitude													
Longitude													
Northing (MiGeoRef)													
Easting (MiGeoRef)													
Elevation (NAVD 1929 in feet)													

**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES											
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	II WMP 2-15 UNDILUTED			II WMP 2-15 DILUTED			Flags	Concentration pg/g	II WMP 2-15 <i>FINAL</i> nondetect detection level	
				Flags	Concentration	Number	Flags	Concentration	Number				
					pg/g		pg/g						
1368-TCDD	0	0.00	0.00		21.6						21.6	0.00	
1379-TCDD	0	0.00	0.00		8.5						8.5	0.00	
2378-TCDD	1	7.70	7.70		3.5						3.5	3.50	
12378-PeCDD	0.5	4.35	4.35		5.1						5.1	2.55	
123478-HxCDD	0.1	0.67	0.67	J	3.2				J		3.2	0.32	
123678-HxCDD	0.1	3.41	3.41		16.1						16.1	1.61	
123789-HxCDD	0.1	1.55	1.55	J	7.1				J		7.1	0.71	
1234678-HpCDD	0.01	6.79	6.79		272						272	2.72	
12346789-OCDD	0.001	5.47	5.47		2830						2830	2.83	
1368-TCDF	0	0.00	0.00	ND	0.3				ND		0.3	0.00	
2378TCDF	0.1	139.00	139.00	E	1310		318				318	31.80	
12378-PeCDF	0.05	55.50	55.50		643						643	32.15	
23478-PeCDF	0.5	331.00	331.00		391						391	195.50	
123478-HxCDF	0.1	70.10	70.10		400						400	40.00	
123678-HxCDF	0.1	17.30	17.30		102						102	10.20	
234678-HxCDF	0.1	9.75	9.75		54.9						54.9	5.49	
123789-HxCDF	0.1	1.59	1.59		8.9						8.9	0.89	
1234678-HpCDF	0.01	16.40	16.40		575						575	5.75	
1234789-HpCDF	0.01	0.83	0.83		37						37	0.37	
12346789-OCDF	0.001	1.93	1.93		624						624	0.62	
nondetects = detection limit											TEQ=	337.01	
nondetects = 1/2 d.l.		673.34									teq=		
nondetects = zero			673.34								teq=		
<b>Totals</b>				Flags	Concentration pg/g	Number		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number
TOTAL TCDD					37.8	4.0						37.8	4.0
TOTAL PeCDD					36.1	6.0						36.1	6.0
TOTAL HxCDD					86.8	6.0						86.8	6.0
TOTAL HpCDD					481.0	2.0						481.0	2.0
TOTAL TCDF				E	2720.0	15.0		680.0	5.0			680.0	5.0
TOTAL PeCDF					2050.0	12.0						2050.0	12.0
TOTAL HxCDF					957.0	10.0						957.0	10.0
TOTAL HpCDF					1130.0	4.0						1130.0	4.0
<b>% Finer than #200 Sieve</b>												61	
<b>% Total Organic Carbon</b>												1.7	
<b>% Solids</b>												81	
Latitude													
Longitude													
Northing (MiGeoRef)													
Easting (MiGeoRef)													
Elevation (NAVD 1929 in feet)													

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	II WMP 3-1 UNDILUTED			II WMP 3-1 DILUTED			Flags	Concentration pg/g	II WMP 3-1 FINAL nondetect detection level
				Flags	Concentration	Number	Flags	Concentration	Number			
					pg/g			pg/g				
1368-TCDD	0	0.00	0.00		4.00						4.00	0.00
1379-TCDD	0	0.00	0.00		5.20						5.20	0.00
2378-TCDD	1	3.50	3.50		5.3						5.3	5.30
12378-PeCDD	0.5	2.55	2.55	J	4.8				J		4.8	2.40
123478-HxCDD	0.1	0.32	0.32	J	4.3				J		4.3	0.43
123678-HxCDD	0.1	1.61	1.61		19.5						19.5	1.95
123789-HxCDD	0.1	0.71	0.71		11.1						11.1	1.11
1234678-HpCDD	0.01	2.72	2.72		261						261	2.61
12346789-OCDD	0.001	2.83	2.83		2190						2190	2.19
1368-TCDF	0	0.00	0.00	ND	0.1				ND		0.1	0.00
2378TCDF	0.1	31.80	31.80	E	798		453				453	45.30
12378-PeCDF	0.05	32.15	32.15		460						460	23.00
23478-PeCDF	0.5	195.50	195.50		278						278	139.00
123478-HxCDF	0.1	40.00	40.00		283						283	28.30
123678-HxCDF	0.1	10.20	10.20		7034						7034	703.40
234678-HxCDF	0.1	5.49	5.49		44.4						44.4	4.44
123789-HxCDF	0.1	0.89	0.89		7.7						7.7	0.77
1234678-HpCDF	0.01	5.75	5.75		480						480	4.80
1234789-HpCDF	0.01	0.37	0.37		38.5						38.5	0.39
12346789-OCDF	0.001	0.62	0.62		563						563	0.56
nondetects = detection limit											TEQ=	965.95
nondetects = 1/2 d.l.		337.01									teq=	
nondetects = zero			337.01								teq=	
<b>Totals</b>				Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number
					pg/g			pg/g			pg/g	
TOTAL TCDD					43.8	9.0		43.8			43.8	9.0
TOTAL PeCDD					47.5	9.0		47.5			47.5	9.0
TOTAL HxCDD					174.0	8.0		174.0			174.0	8.0
TOTAL HpCDD					468.0	2.0		468.0			468.0	2.0
TOTAL TCDF				E	1940.0	12.0		1050.0	9.0		1050.0	9.0
TOTAL PeCDF					1260.0	11.0		1260.0			1260.0	11.0
TOTAL HxCDF					629.0	10.0		629.0			629.0	10.0
TOTAL HpCDF					1020.0	4.0		1020.0			1020.0	4.0
% Finer than #200 Sieve											NS	
% Total Organic Carbon											NS	
% Solids											NS	
Latitude											43.402659180N	
Longitude											84.030660358W	
Northing (MiGeoRef)											318747.91m	
Easting (MiGeoRef)											659307.66m	
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	II WMP 3-3 UNDILUTED			II WMP 3-3 DILUTED			Flags	Concentration pg/g	nondetect detection level
				Flags	Concentration	Number	Flags	Concentration	Number			
					pg/g		pg/g					
1368-TCDD	0	0.00	0.00		23.7					23.7	0.00	
1379-TCDD	0	0.00	0.00		10.1					10.1	0.00	
2378-TCDD	1	5.30	5.30		4.2					4.2	4.20	
12378-PeCDD	0.5	2.40	2.40		5.4					5.4	2.70	
123478-HxCDD	0.1	0.43	0.43	J	3.9				J	3.9	0.39	
123678-HxCDD	0.1	1.95	1.95		19.5					19.5	1.95	
123789-HxCDD	0.1	1.11	1.11	J	10				J	10	1.00	
1234678-HpCDD	0.01	2.61	2.61		381					381	3.81	
12346789-OCDD	0.001	2.19	2.19		3590					3590	3.59	
1368-TCDF	0	0.00	0.00	ND	0.2				ND	0.2	0.00	
2378TCDF	0.1	45.30	45.30	E	2690		1160			1160	116.00	
12378-PeCDF	0.05	23.00	23.00		798					798	39.90	
23478-PeCDF	0.5	139.00	139.00		591					591	295.50	
123478-HxCDF	0.1	28.30	28.30		428					428	42.80	
123678-HxCDF	0.1	703.40	703.40		119					119	11.90	
234678-HxCDF	0.1	4.44	4.44		70.7					70.7	7.07	
123789-HxCDF	0.1	0.77	0.77		8.4					8.4	0.84	
1234678-HpCDF	0.01	4.80	4.80		830					830	8.30	
1234789-HpCDF	0.01	0.39	0.39		54.4					54.4	0.54	
12346789-OCDF	0.001	0.56	0.56		987					987	0.99	
nondetects = detection limit										TEQ=	541.48	
nondetects = 1/2 d.l.		965.95								teq=		
nondetects = zero			965.95							teq=		
<b>Totals</b>				Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number
					pg/g			pg/g			pg/g	
TOTAL TCDD					55.6	6.0					55.6	6.0
TOTAL PeCDD					52.1	8.0					52.1	8.0
TOTAL HxCDD					121.0	6.0					121.0	6.0
TOTAL HpCDD					678.0	2.0					678.0	2.0
TOTAL TCDF				E	5780.0	15.0		2450.0	9.0		2450.0	9.0
TOTAL PeCDF					2770.0	14.0					2770.0	14.0
TOTAL HxCDF					109.0	11.0					109.0	11.0
TOTAL HpCDF					1670.0	4.0					1670.0	4.0
% Finer than #200 Sieve											64.4	
% Total Organic Carbon											2.8	
% Solids											73	
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	II WMP 3-6 UNDILUTED			II WMP 3-6 DILUTED			Flags	Concentration pg/g	nondetect detection level
				Flags	Concentration	Number	Flags	Concentration	Number			
					pg/g		pg/g					
1368-TCDD	0	0.00	0.00		26.9						26.9	0.00
1379-TCDD	0	0.00	0.00		12						12	0.00
2378-TCDD	1	4.20	4.20		4.8						4.8	4.80
12378-PeCDD	0.5	2.70	2.70		6.6						6.6	3.30
123478-HxCDD	0.1	0.39	0.39	J	4.3				J		4.3	0.43
123678-HxCDD	0.1	1.95	1.95		22.1						22.1	2.21
123789-HxCDD	0.1	1.00	1.00		10.7						10.7	1.07
1234678-HpCDD	0.01	3.81	3.81		456						456	4.56
12346789-OCDD	0.001	3.59	3.59	E	4550		3880				3880	3.88
1368-TCDF	0	0.00	0.00	ND	0.1				ND		0.1	0.00
2378TCDF	0.1	116.00	116.00	E	1860		1180				1180	118.00
12378-PeCDF	0.05	39.90	39.90		782						782	39.10
23478-PeCDF	0.5	295.50	295.50		562						562	281.00
123478-HxCDF	0.1	42.80	42.80		476						476	47.60
123678-HxCDF	0.1	11.90	11.90		124						124	12.40
234678-HxCDF	0.1	7.07	7.07		73.7						73.7	7.37
123789-HxCDF	0.1	0.84	0.84		11						11	1.10
1234678-HpCDF	0.01	8.30	8.30		981						981	9.81
1234789-HpCDF	0.01	0.54	0.54		52.6						52.6	0.53
12346789-OCDF	0.001	0.99	0.99		1260						1260	1.26
nondetects = detection limit											TEQ=	538.42
nondetects = 1/2 d.l.		541.48									teq=	
nondetects = zero			541.48								teq=	
<b>Totals</b>				Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number
TOTAL TCDD					50.4	4.0					50.4	4.0
TOTAL PeCDD					62.2	8.0					62.2	8.0
TOTAL HxCDD					140.0	6.0					140.0	6.0
TOTAL HpCDD					815.0	2.0					815.0	2.0
TOTAL TCDF				E	4390.0	15.0		2790.0	11.0		2790.0	11.0
TOTAL PeCDF					2810.0	14.0					2810.0	14.0
TOTAL HxCDF					1220.0	10.0					1220.0	10.0
TOTAL HpCDF					1970.0	4.0					1970.0	4.0
% Finer than #200 Sieve											63.2	
% Total Organic Carbon											3.1	
% Solids											78	
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

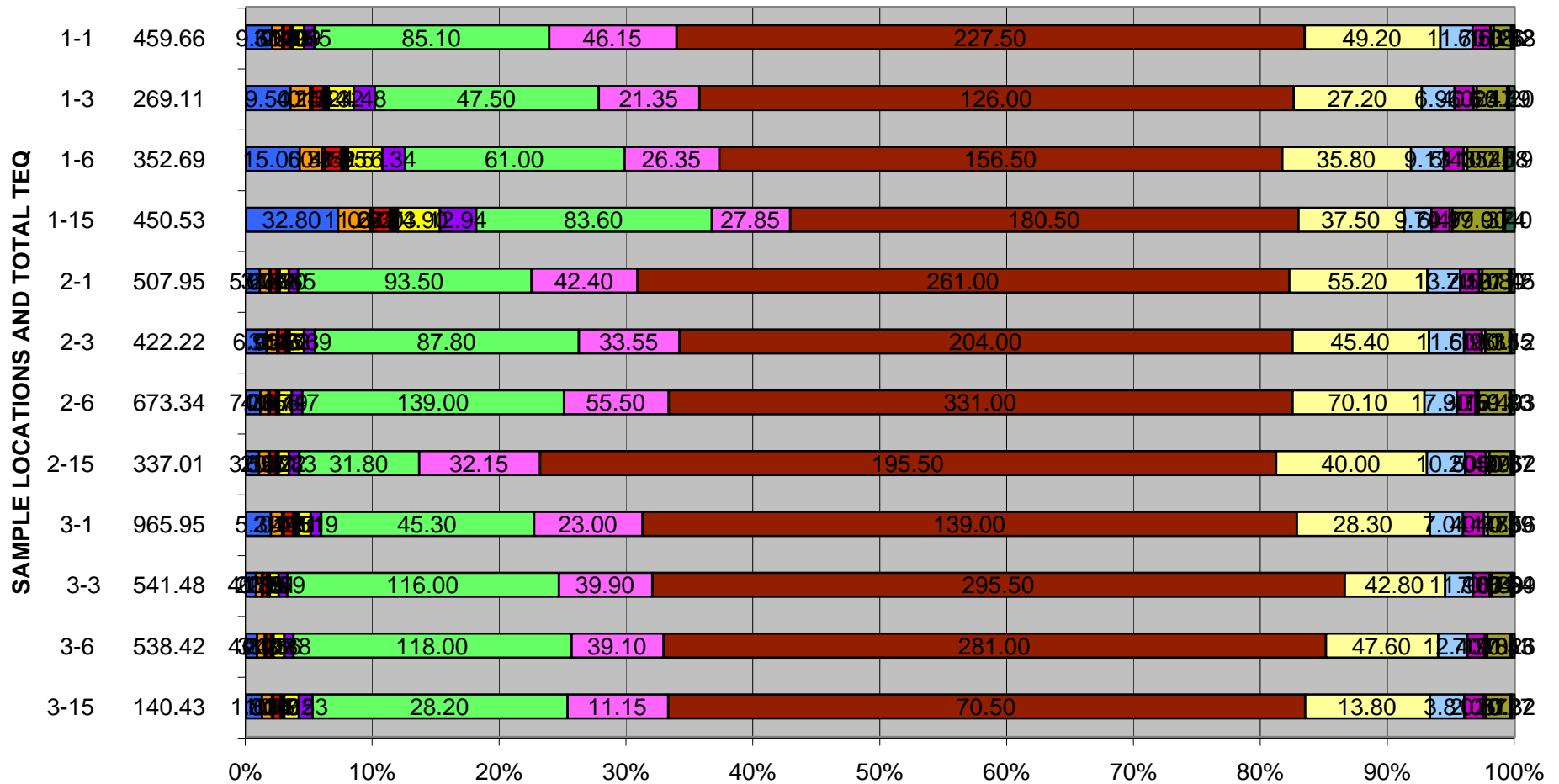
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II WEST MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES										
Analyte	TEF	II WMP 3-15			II WMP 3-15			II WMP 3-15				
		UNDILUTED			DILUTED			FINAL				
		nondetect	nondetect	Flags	Concentration	Flags	Concentration	Flags	Concentration	nondetect		
		1/2 d.l.	zero		pg/g		pg/g		pg/g	detection level		
1368-TCDD	0	0.00	0.00		11.2				11.2	0.00		
1379-TCDD	0	0.00	0.00		4.4				4.4	0.00		
2378-TCDD	1	4.80	4.80		1.8				1.8	1.80		
12378-PeCDD	0.5	3.30	3.30	J	2.2			J	2.2	1.10		
123478-HxCDD	0.1	0.43	0.43	J	1.5			J	1.5	0.15		
123678-HxCDD	0.1	2.21	2.21		7.9				7.9	0.79		
123789-HxCDD	0.1	1.07	1.07	J	4.1			J	4.1	0.41		
1234678-HpCDD	0.01	4.56	4.56		162				162	1.62		
12346789-OCDD	0.001	3.88	3.88		1530				1530	1.53		
1368-TCDF	0	0.00	0.00	ND	0.1			ND	0.1	0.00		
2378TCDF	0.1	118.00	118.00	E	489		282		282	28.20		
12378-PeCDF	0.05	39.10	39.10		223				223	11.15		
23478-PeCDF	0.5	281.00	281.00		141				141	70.50		
123478-HxCDF	0.1	47.60	47.60		138				138	13.80		
123678-HxCDF	0.1	12.40	12.40		38.1				38.1	3.81		
234678-HxCDF	0.1	7.37	7.37		20.5				20.5	2.05		
123789-HxCDF	0.1	1.10	1.10		3.1				3.1	0.31		
1234678-HpCDF	0.01	9.81	9.81		272				272	2.72		
1234789-HpCDF	0.01	0.53	0.53		17				17	0.17		
12346789-OCDF	0.001	1.26	1.26		321				321	0.32		
nondetects = detection limit									TEQ=	140.43		
nondetects = 1/2 d.l.		538.42							teq=			
nondetects = zero			538.42						teq=			
<b>Totals</b>				Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number
TOTAL TCDD					pg/g	24.8		pg/g	24.8		24.8	8.0
TOTAL PeCDD						17.5			17.5		17.5	6.0
TOTAL HxCDD						52.0			52.0		52.0	6.0
TOTAL HpCDD						294.0			294.0		294.0	2.0
TOTAL TCDF				E		1110.0		670.0	9.0		670.0	9.0
TOTAL PeCDF						753.0			753.0		753.0	12.0
TOTAL HxCDF						361.0			361.0		361.0	11.0
TOTAL HpCDF						540.0			540.0		540.0	4.0
% Finer than #200 Sieve											72.1	
% Total Organic Carbon											0.83	
% Solids											83	
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

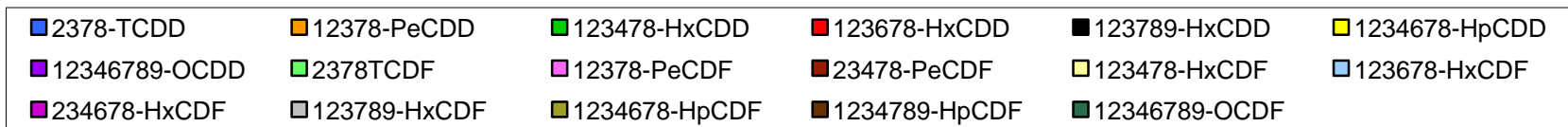
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02			
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0	0.00	0.00
1379-TCDD	0	0.00	0.00
2378-TCDD	1	1.80	1.80
12378-PeCDD	0.5	1.10	1.10
123478-HxCDD	0.1	0.15	0.15
123678-HxCDD	0.1	0.79	0.79
123789-HxCDD	0.1	0.41	0.41
1234678-HpCDD	0.01	1.62	1.62
12346789-OCDD	0.001	1.53	1.53
1368-TCDF	0	0.00	0.00
2378TCDF	0.1	28.20	28.20
12378-PeCDF	0.05	11.15	11.15
23478-PeCDF	0.5	70.50	70.50
123478-HxCDF	0.1	13.80	13.80
123678-HxCDF	0.1	3.81	3.81
234678-HxCDF	0.1	2.05	2.05
123789-HxCDF	0.1	0.31	0.31
1234678-HpCDF	0.01	2.72	2.72
1234789-HpCDF	0.01	0.17	0.17
12346789-OCDF	0.001	0.32	0.32
nondetects = detection limit			
nondetects = 1/2 d.l.		140.43	
nondetects = zero			140.43
<b>Totals</b>			
TOTAL TCDD			
TOTAL PeCDD			
TOTAL HxCDD			
TOTAL HpCDD			
TOTAL TCDF			
TOTAL PeCDF			
TOTAL HxCDF			
TOTAL HpCDF			
<b>% Finer than #200 Sieve</b>			
<b>% Total Organic Carbon</b>			
<b>% Solids</b>			
Latitude			
Longitude			
Northing (MiGeoRef)			
Easting (MiGeoRef)			
Elevation (NAVD 1929 in feet)			

## TITTABAWASSEE RIVER PROJECT - W. MICHIGAN PARK, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



NON-DETECT = DETECTION LEVEL





TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II CROP LAND, SAGINAW COUNTY SOIL SAMPLES																			
		5/10/02					II CROP 1-3					II CROP 1-6					II CROP 1-15				
		FINAL					FINAL					FINAL									
Analyte	TEF	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect					
			pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero					
1368-TCDD	0		1.10	0.00	0.00	0.00	ND	0.60	0.00	0.00	0.00	J	0.89	0.00	0.00	0.00					
1379-TCDD	0		1.40	0.00	0.00	0.00		1.20	0.00	0.00	0.00		1.10	0.00	0.00	0.00					
2378-TCDD	1	ND	0.60	0.60	0.30	0.00	J	0.52	0.52	0.52	0.52	J	0.60	0.60	0.60	0.60					
12378-PeCDD	0.5	ND	0.60	0.30	0.15	0.00	J	0.78	0.39	0.39	0.39	J	0.48	0.24	0.24	0.24					
123478-HxCDD	0.1	ND	0.20	0.02	0.01	0.00	ND	0.60	0.06	0.03	0.00	ND	0.20	0.02	0.01	0.00					
123678-HxCDD	0.1	ND	1.20	0.12	0.06	0.00	ND	1.30	0.13	0.07	0.00	J	1.00	0.10	0.10	0.10					
123789-HxCDD	0.1	J	1.40	0.14	0.14	0.14	J	1.30	0.13	0.13	0.13	ND	1.00	0.10	0.05	0.00					
1234678-HpCDD	0.01		13.60	0.14	0.14	0.14		15.10	0.15	0.15	0.15		12.00	0.12	0.12	0.12					
12346789-OCDD	0.001		126.00	0.13	0.13	0.13		118.00	0.12	0.12	0.12		131.00	0.13	0.13	0.13					
1368-TCDF	0	ND	0.07	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00					
2378TCDF	0.1		50.30	5.03	5.03	5.03		50.00	5.00	5.00	5.00		46.00	4.60	4.60	4.60					
12378-PeCDF	0.05		28.00	1.40	1.40	1.40		31.00	1.55	1.55	1.55		28.70	1.44	1.44	1.44					
23478-PeCDF	0.5		17.00	8.50	8.50	8.50		17.70	8.85	8.85	8.85		17.80	8.90	8.90	8.90					
123478-HxCDF	0.1		20.60	2.06	2.06	2.06		22.40	2.24	2.24	2.24		19.00	1.90	1.90	1.90					
123678-HxCDF	0.1		5.10	0.51	0.51	0.51		5.20	0.52	0.52	0.52	J	4.90	0.49	0.49	0.49					
234678-HxCDF	0.1	J	3.20	0.32	0.32	0.32	J	3.50	0.35	0.35	0.35	J	2.80	0.28	0.28	0.28					
123789-HxCDF	0.1	J	0.49	0.05	0.05	0.05	ND	0.20	0.02	0.01	0.00	J	0.42	0.04	0.04	0.04					
1234678-HpCDF	0.01		18.10	0.18	0.18	0.18		20.20	0.20	0.20	0.20		20.70	0.21	0.21	0.21					
1234789-HpCDF	0.01	ND	2.00	0.02	0.01	0.00	J	2.20	0.02	0.02	0.02	ND	1.50	0.02	0.01	0.00					
12346789-OCDF	0.001		21.50	0.02	0.02	0.02		24.60	0.02	0.02	0.02		22.00	0.02	0.02	0.02					
nondetects = detection limit			TEQ=	19.53				TEQ=	20.28				TEQ=	19.20							
nondetects = 1/2 d.l.			teq=		19.00			teq=		20.17			teq=		19.13						
nondetects = zero			teq=			18.47		teq=			20.07		teq=			19.07					
		Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number							
			pg/g					pg/g					pg/g								
TOTAL TCDD			3.40	3.00				3.30	4.00				3.80	5.00							
TOTAL PeCDD			0.87	1.00				1.60	2.00				3.00	3.00							
TOTAL HxCDD			7.70	3.00				8.80	3.00				9.00	4.00							
TOTAL HpCDD			25.60	2.00				27.50	2.00				22.70	2.00							
TOTAL TCDF			118.00	10.00				110.00	9.00				108.00	12.00							
TOTAL PeCDF			85.30	10.00				81.20	8.00				80.20	8.00							
TOTAL HxCDF			41.70	8.00				39.60	5.00				39.70	8.00							
TOTAL HpCDF			34.90	3.00				41.40	3.00				39.30	2.00							
% Finer than #200 Sieve			83.2					83.9					84.7								
% Total Organic Carbon			1.5					0.98					1.4								
% Solids			82					76					80								
Latitude			43.396559145N																		
Longitude			84.000811679W																		
Northing (MiGeoRef)			318128.64m																		
Easting (MiGeoRef)			661740.45m																		
Elevation (NAVD 1929 in feet)																					

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II CROP LAND, SAGINAW COUNTY SOIL SAMPLES													
		II CROP 2-3					II CROP 2-6					II CROP 2-15			
		FINAL					FINAL					FINAL			
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.
1368-TCDD	0	ND	1.20	0.00	0.00	0.00	ND	0.70	0.00	0.00	0.00	ND	0.20	0.00	0.00
1379-TCDD	0		1.10	0.00	0.00	0.00		1.10	0.00	0.00	0.00	ND	0.20	0.00	0.00
2378-TCDD	1	J	0.71	0.71	0.71	0.71	ND	0.60	0.60	0.30	0.00	ND	0.20	0.20	0.10
12378-PeCDD	0.5	ND	0.90	0.45	0.23	0.00	ND	0.70	0.35	0.18	0.00	ND	0.20	0.10	0.05
123478-HxCDD	0.1	J	0.78	0.08	0.08	0.08	J	0.66	0.07	0.07	0.07	ND	0.30	0.03	0.02
123678-HxCDD	0.1	J	1.90	0.19	0.19	0.19	J	1.70	0.17	0.17	0.17	J	0.38	0.04	0.04
123789-HxCDD	0.1	J	1.90	0.19	0.19	0.19	J	1.50	0.15	0.15	0.15	ND	0.30	0.03	0.02
1234678-HpCDD	0.01		33.10	0.33	0.33	0.33		31.20	0.31	0.31	0.31		6.60	0.07	0.07
12346789-OCDD	0.001		317.00	0.32	0.32	0.32		278.00	0.28	0.28	0.28		58.70	0.06	0.06
1368-TCDF	0	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.20	0.00	0.00
2378TCDF	0.1		49.00	4.90	4.90	4.90		52.30	5.23	5.23	5.23		16.80	1.68	1.68
12378-PeCDF	0.05		29.80	1.49	1.49	1.49		30.40	1.52	1.52	1.52		9.80	0.49	0.49
23478-PeCDF	0.5		18.20	9.10	9.10	9.10		18.70	9.35	9.35	9.35		6.30	3.15	3.15
123478-HxCDF	0.1		21.20	2.12	2.12	2.12		21.70	2.17	2.17	2.17		7.20	0.72	0.72
123678-HxCDF	0.1		5.30	0.53	0.53	0.53		5.00	0.50	0.50	0.50	J	1.70	0.17	0.17
234678-HxCDF	0.1	J	3.30	0.33	0.33	0.33	J	3.30	0.33	0.33	0.33	J	1.00	0.10	0.10
123789-HxCDF	0.1	J	0.58	0.06	0.06	0.06	ND	0.30	0.03	0.02	0.00	ND	0.20	0.02	0.01
1234678-HpCDF	0.01		58.30	0.58	0.58	0.58		55.10	0.55	0.55	0.55		17.40	0.17	0.17
1234789-HpCDF	0.01	J	2.60	0.03	0.03	0.03	J	2.60	0.03	0.03	0.03	J	0.65	0.01	0.01
12346789-OCDF	0.001		64.20	0.06	0.06	0.06		65.10	0.07	0.07	0.07		17.80	0.02	0.02
nondetects = detection limit			TEQ=	21.47				TEQ=	21.70				TEQ=	7.05	
nondetects = 1/2 d.l.			teq=		21.24			teq=		21.21			teq=		6.86
nondetects = zero			teq=			21.02		teq=			20.72		teq=		
		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number	
TOTAL TCDD			3.80	5.00				1.80	2.00			ND	0.20		
TOTAL PeCDD			4.10	3.00				2.00	2.00			ND	0.90		
TOTAL HxCDD			18.80	6.00				14.00	6.00				2.90	3.00	
TOTAL HpCDD			62.10	2.00				55.40	2.00				11.90	2.00	
TOTAL TCDF			117.00	13.00				116.00	12.00				34.70	9.00	
TOTAL PeCDF			87.90	10.00				82.60	8.00				24.10	5.00	
TOTAL HxCDF			52.50	8.00				50.10	8.00				15.70	7.00	
TOTAL HpCDF			107.00	3.00				107.00	4.00				30.70	3.00	
% Finer than #200 Sieve			81.8					81					83.5		
% Total Organic Carbon			1.5					1.5					0.92		
% Solids			82					71					75		
Latitude			43.393861741N												
Longitude			84.000855284W												
Northing (MiGeoRef)			317829.07m												
Easting (MiGeoRef)			661744.16m												
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II CROP LAND, SAGINAW COUNTY SOIL SAMPLES													
		II CROP 3-3						II CROP 3-6						II CROP 3-15	
		FINAL						FINAL						FINAL	
Analyte	TEF	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level
1368-TCDD	0	0.00	ND	1.70	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.10	0.00
1379-TCDD	0	0.00	ND	2.00	0.00	0.00	0.00	ND	1.20	0.00	0.00	0.00	J	0.62	0.00
2378-TCDD	1	0.10	J	0.74	0.74	0.74	0.74	ND	0.50	0.50	0.25	0.00	J	0.28	0.28
12378-PeCDD	0.5	0.05	ND	1.10	0.55	0.28	0.00	J	0.60	0.30	0.30	0.30	ND	0.40	0.20
123478-HxCDD	0.1	0.02	ND	0.60	0.06	0.03	0.00	ND	0.30	0.03	0.02	0.00	J	0.37	0.04
123678-HxCDD	0.1	0.04	J	2.00	0.20	0.20	0.20	ND	1.60	0.16	0.08	0.00	J	0.92	0.09
123789-HxCDD	0.1	0.02	J	1.60	0.16	0.16	0.16	J	1.10	0.11	0.11	0.11	J	0.76	0.08
1234678-HpCDD	0.01	0.07		29.30	0.29	0.29	0.29		21.00	0.21	0.21	0.21		17.00	0.17
12346789-OCDD	0.001	0.06		259.00	0.26	0.26	0.26		217.00	0.22	0.22	0.22		178.00	0.18
1368-TCDF	0	0.00	ND	0.20	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.04	0.00
2378TCDF	0.1	1.68		117.00	11.70	11.70	11.70		79.90	7.99	7.99	7.99		62.20	6.22
12378-PeCDF	0.05	0.49		76.00	3.80	3.80	3.80		45.90	2.30	2.30	2.30		26.30	1.32
23478-PeCDF	0.5	3.15		46.00	23.00	23.00	23.00		27.80	13.90	13.90	13.90		19.70	9.85
123478-HxCDF	0.1	0.72		49.60	4.96	4.96	4.96		29.80	2.98	2.98	2.98		25.50	2.55
123678-HxCDF	0.1	0.17		12.30	1.23	1.23	1.23		7.10	0.71	0.71	0.71		5.30	0.53
234678-HxCDF	0.1	0.10		7.30	0.73	0.73	0.73	J	4.60	0.46	0.46	0.46	J	3.40	0.34
123789-HxCDF	0.1	0.01	J	0.85	0.09	0.09	0.09	J	0.49	0.05	0.05	0.05	ND	0.50	0.05
1234678-HpCDF	0.01	0.17		69.40	0.69	0.69	0.69		45.20	0.45	0.45	0.45		35.90	0.36
1234789-HpCDF	0.01	0.01	J	4.50	0.05	0.05	0.05	J	2.60	0.03	0.03	0.03	J	2.10	0.02
12346789-OCDF	0.001	0.02		66.80	0.07	0.07	0.07		53.30	0.05	0.05	0.05		29.40	0.03
nondetects = detection limit				TEQ=	48.57				TEQ=	30.44				TEQ=	22.30
nondetects = 1/2 d.l.				teq=		48.27			teq=		30.10			teq=	
nondetects = zero		6.86		teq=			47.96		teq=			29.75		teq=	
			Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number
				pg/g					pg/g					pg/g	
TOTAL TCDD				1.70	2.00				0.95	1.00				1.70	4.00
TOTAL PeCDD				3.20	2.00				0.60	1.00				1.80	3.00
TOTAL HxCDD				16.50	5.00				9.80	4.00				6.50	5.00
TOTAL HpCDD				51.90	2.00				37.60	2.00				30.60	2.00
TOTAL TCDF				253.00	9.00				174.00	14.00				126.00	10.00
TOTAL PeCDF				216.00	10.00				126.00	9.00				75.80	11.00
TOTAL HxCDF				104.00	8.00				59.40	7.00				46.40	9.00
TOTAL HpCDF				126.00	3.00				87.20	3.00				68.00	4.00
% Finer than #200 Sieve				86.1					86.2					87	
% Total Organic Carbon				1.8					1.7					1.2	
% Solids				61					67					79	
Latitude				43.395185334N											
Longitude				84.000823366W											
Northing (MiGeoRef)				317976.09m											
Easting (MiGeoRef)				661743.19m											
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II CROP LAND, SAGINAW COUNTY SOIL SAMPLES													
		II CROP 4-3							II CROP 4-6						
		FINAL							FINAL						
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g
1368-TCDD	0	0.00	0.00	J	0.26	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND,J	0.30
1379-TCDD	0	0.00	0.00	ND	0.40	0.00	0.00	0.00	J	0.39	0.00	0.00	0.00	ND,J	0.70
2378-TCDD	1	0.28	0.28	ND	0.40	0.40	0.20	0.00	ND	0.30	0.30	0.15	0.00	J	0.42
12378-PeCDD	0.5	0.10	0.00	ND	0.05	0.03	0.01	0.00	J	0.17	0.09	0.09	0.09	ND	0.10
123478-HxCDD	0.1	0.04	0.04	J	0.20	0.02	0.02	0.02	ND	0.40	0.04	0.02	0.00	ND,J	0.20
123678-HxCDD	0.1	0.09	0.09	J	0.34	0.03	0.03	0.03	J	0.22	0.02	0.02	0.02	J	0.47
123789-HxCDD	0.1	0.08	0.08	J	0.39	0.04	0.04	0.04	ND	0.50	0.05	0.03	0.00	J	0.91
1234678-HpCDD	0.01	0.17	0.17	J	4.80	0.05	0.05	0.05	J	4.50	0.05	0.05	0.05		6.30
12346789-OCDD	0.001	0.18	0.18	B	27.60	0.03	0.03	0.03	B	25.90	0.03	0.03	0.03	B	34.40
1368-TCDF	0	0.00	0.00	ND	0.03	0.00	0.00	0.00	ND	0.02	0.00	0.00	0.00	ND	0.07
2378TCDF	0.1	6.22	6.22		4.30	0.43	0.43	0.43		2.50	0.25	0.25	0.25		3.10
12378-PeCDF	0.05	1.32	1.32	J	1.30	0.07	0.07	0.07	J	1.10	0.06	0.06	0.06	ND,J	1.30
23478-PeCDF	0.5	9.85	9.85	J	1.20	0.60	0.60	0.60	J	0.82	0.41	0.41	0.41	J	1.20
123478-HxCDF	0.1	2.55	2.55	J	1.40	0.14	0.14	0.14	J	1.30	0.13	0.13	0.13	J	1.80
123678-HxCDF	0.1	0.53	0.53	J	0.43	0.04	0.04	0.04	J	0.37	0.04	0.04	0.04	J	0.45
234678-HxCDF	0.1	0.34	0.34	ND	0.40	0.04	0.02	0.00	ND	0.30	0.03	0.02	0.00	ND,J	0.50
123789-HxCDF	0.1	0.03	0.00	ND	0.05	0.01	0.00	0.00	ND	0.04	0.00	0.00	0.00	ND	0.20
1234678-HpCDF	0.01	0.36	0.36	J	2.10	0.02	0.02	0.02	J	1.50	0.02	0.02	0.02	J	2.50
1234789-HpCDF	0.01	0.02	0.02	ND	0.10	0.00	0.00	0.00	ND	0.09	0.00	0.00	0.00	ND	0.40
12346789-OCDF	0.001	0.03	0.03	J	3.50	0.00	0.00	0.00	J	2.00	0.00	0.00	0.00	J	4.00
nondetects = detection limit					TEQ=	1.94				TEQ=	1.50				TEQ=
nondetects = 1/2 d.l.		22.17			teq=		1.71			teq=		1.29			teq=
nondetects = zero			22.05		teq=			1.47		teq=			1.08		teq=
				Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration
					pg/g					pg/g					pg/g
TOTAL TCDD					0.67	3.00				1.10	4.00				0.42
TOTAL PeCDD					1.20	2.00				2.20	7.00				1.80
TOTAL HxCDD					2.60	4.00				3.00	3.00				3.50
TOTAL HpCDD					9.40	2.00				8.80	2.00				13.00
TOTAL TCDF					9.30	4.00				7.40	7.00				6.20
TOTAL PeCDF					4.90	7.00				4.40	8.00				2.50
TOTAL HxCDF					2.50	3.00				2.80	4.00				3.10
TOTAL HpCDF					4.40	2.00				3.20	2.00				5.10
% Finer than #200 Sieve					90.9					92.8					92.7
% Total Organic Carbon					1.1					0.77					1.3
% Solids					73					83					76
Latitude					43.397865410N										
Longitude					84.000807309W										
Northing (MiGeoRef)					318273.69m										
Easting (MiGeoRef)					661737.30m										
Elevation (NAVD 1929 in feet)															

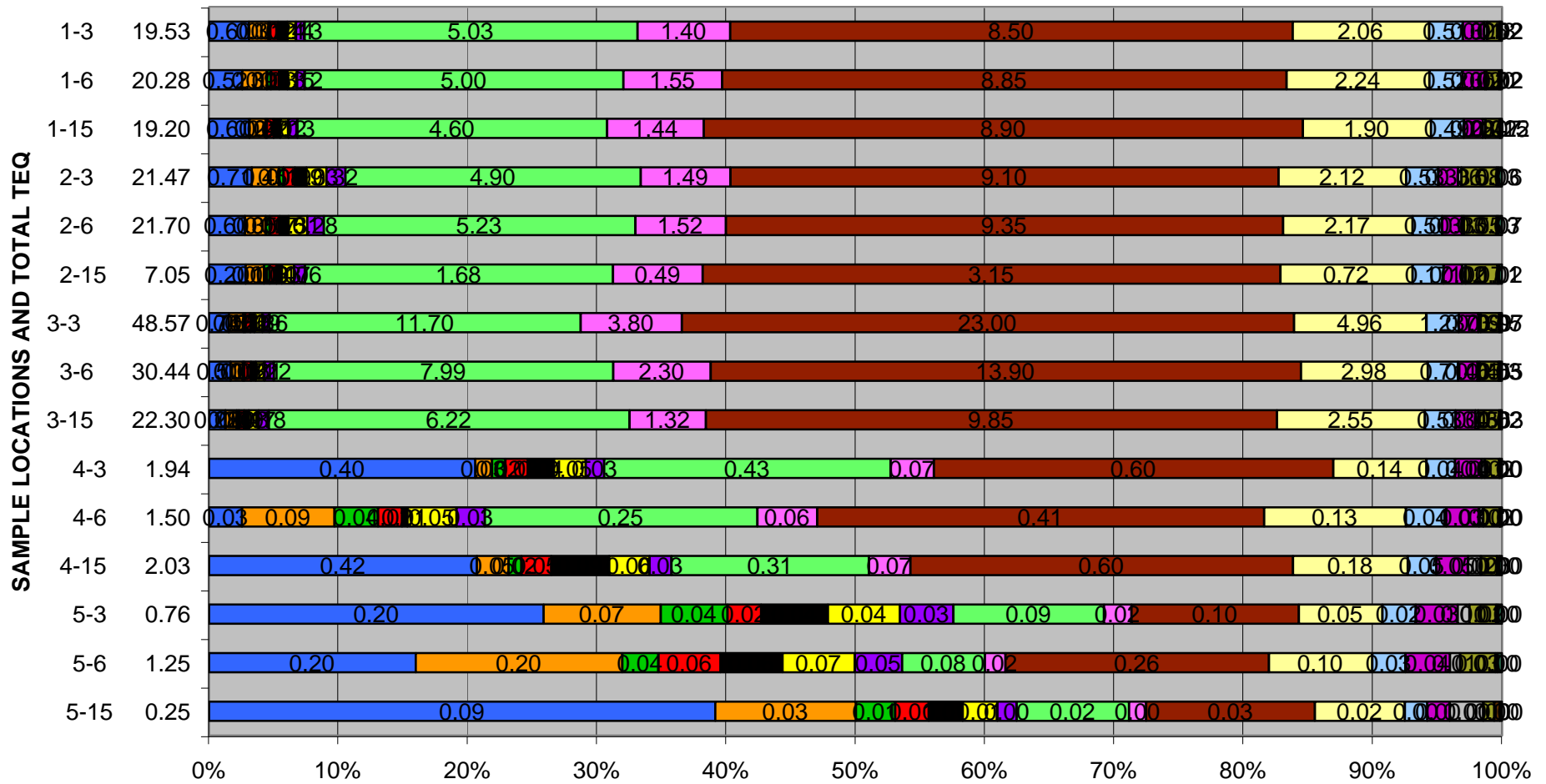
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II CROP LAND, SAGINAW COUNTY SOIL SAMPLES													
		II CROP 4-15				II CROP 5-3					II CROP 5-6				
		FINAL				FINAL					FINAL				
Analyte	TEF	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags
		detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero	
1368-TCDD	0	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	J	0.18	0.00	0.00	0.00	J
1379-TCDD	0	0.00	0.00	0.00	J	0.36	0.00	0.00	0.00	J	0.52	0.00	0.00	0.00	ND
2378-TCDD	1	0.42	0.42	0.42	ND	0.20	0.20	0.10	0.00	ND	0.20	0.20	0.10	0.00	ND
12378-PeCDD	0.5	0.05	0.03	0.00	J	0.14	0.07	0.07	0.07	ND	0.40	0.20	0.10	0.00	ND
123478-HxCDD	0.1	0.02	0.01	0.00	ND	0.40	0.04	0.02	0.00	J	0.35	0.04	0.04	0.04	ND
123678-HxCDD	0.1	0.05	0.05	0.05	ND	0.20	0.02	0.01	0.00	ND	0.60	0.06	0.03	0.00	ND
123789-HxCDD	0.1	0.09	0.09	0.09	ND	0.40	0.04	0.02	0.00	ND	0.60	0.06	0.03	0.00	ND
1234678-HpCDD	0.01	0.06	0.06	0.06	J	4.30	0.04	0.04	0.04		7.00	0.07	0.07	0.07	J
12346789-OCDD	0.001	0.03	0.03	0.03	B	31.90	0.03	0.03	0.03	B	45.90	0.05	0.05	0.05	J,B
1368-TCDF	0	0.00	0.00	0.00	ND	0.03	0.00	0.00	0.00	ND	0.04	0.00	0.00	0.00	ND
2378TCDF	0.1	0.31	0.31	0.31	ND	0.80	0.08	0.04	0.00	ND	0.80	0.08	0.04	0.00	ND
12378-PeCDF	0.05	0.07	0.03	0.00	J	0.33	0.02	0.02	0.02	ND	0.40	0.02	0.01	0.00	ND
23478-PeCDF	0.5	0.60	0.60	0.60	ND	0.20	0.10	0.05	0.00	J	0.51	0.26	0.26	0.26	ND
123478-HxCDF	0.1	0.18	0.18	0.18	ND	0.50	0.05	0.03	0.00	ND	1.00	0.10	0.05	0.00	J
123678-HxCDF	0.1	0.05	0.05	0.05	ND	0.20	0.02	0.01	0.00	J	0.32	0.03	0.03	0.03	ND
234678-HxCDF	0.1	0.05	0.03	0.00	J	0.25	0.03	0.03	0.03	J	0.43	0.04	0.04	0.04	ND
123789-HxCDF	0.1	0.02	0.01	0.00	ND	0.07	0.01	0.00	0.00	ND	0.10	0.01	0.01	0.00	ND
1234678-HpCDF	0.01	0.03	0.03	0.03	J	1.60	0.02	0.02	0.02	J	3.40	0.03	0.03	0.03	J
1234789-HpCDF	0.01	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND
12346789-OCDF	0.001	0.00	0.00	0.00	J	2.50	0.00	0.00	0.00	J	4.50	0.00	0.00	0.00	ND
nondetects = detection limit		2.03				TEQ=	0.76				TEQ=	1.25			
nondetects = 1/2 d.l.			1.92			teq=		0.48			teq=		0.89		
nondetects = zero				1.82		teq=			0.20		teq=			0.52	
		Number			Flags	Concentration	Number			Flags	Concentration	Number			Flags
						pg/g					pg/g				
TOTAL TCDD		1.00				0.36	1.00				1.10	3.00			
TOTAL PeCDD		2.00				0.63	2.00				0.91	1.00			ND
TOTAL HxCDD		4.00				1.90	2.00				2.00	3.00			
TOTAL HpCDD		2.00				8.50	2.00				13.20	2.00			
TOTAL TCDF		7.00				3.60	5.00				8.20	8.00			
TOTAL PeCDF		4.00				1.30	7.00				2.60	6.00			ND
TOTAL HxCDF		3.00				0.92	2.00				2.30	6.00			
TOTAL HpCDF		2.00				1.60	1.00				6.60	2.00			
% Finer than #200 Sieve						24.5					22				
% Total Organic Carbon						0.95					0.94				
% Solids						82					80				
Latitude						43.399696706N									
Longitude						84.000756107W									
Northing (MiGeoRef)						318477.12m									
Easting (MiGeoRef)						661736.52m									
Elevation (NAVD 1929 in feet)															

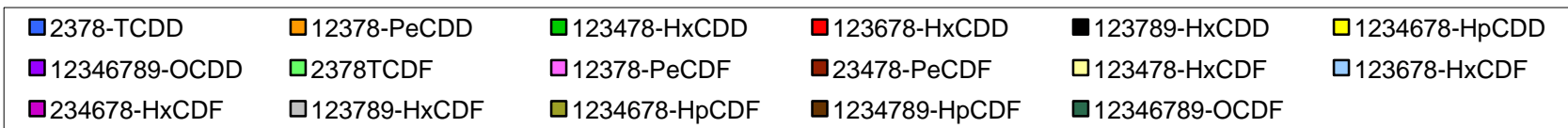
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02					
II CROP 5-15					
<i>FINAL</i>					
Analyte	TEF	Concentration pg/g	nondetect detection level	<i>nondetect</i> 1/2 d.l.	nondetect zero
1368-TCDD	0	0.08	0.00	0.00	0.00
1379-TCDD	0	0.04	0.00	0.00	0.00
2378-TCDD	1	0.09	0.09	0.05	0.00
12378-PeCDD	0.5	0.05	0.03	0.01	0.00
123478-HxCDD	0.1	0.07	0.01	0.00	0.00
123678-HxCDD	0.1	0.06	0.01	0.00	0.00
123789-HxCDD	0.1	0.06	0.01	0.00	0.00
1234678-HpCDD	0.01	0.62	0.01	0.01	0.01
12346789-OCDD	0.001	3.40	0.00	0.00	0.00
1368-TCDF	0	0.03	0.00	0.00	0.00
2378TCDF	0.1	0.40	0.04	0.04	0.04
12378-PeCDF	0.05	0.06	0.00	0.00	0.00
23478-PeCDF	0.5	0.06	0.03	0.02	0.00
123478-HxCDF	0.1	0.16	0.02	0.02	0.02
123678-HxCDF	0.1	0.04	0.00	0.00	0.00
234678-HxCDF	0.1	0.04	0.00	0.00	0.00
123789-HxCDF	0.1	0.06	0.01	0.00	0.00
1234678-HpCDF	0.01	0.19	0.00	0.00	0.02
1234789-HpCDF	0.01	0.10	0.00	0.00	0.00
12346789-OCDF	0.001	0.40	0.00	0.00	0.00
nondetects = detection limit      TEQ=      0.25					
<i>nondetects = 1/2 d.l.</i> <i>teq=</i> 0.16					
nondetects = zero <i>teq=</i> 0.09					
		Concentration pg/g	Number		
TOTAL TCDD		0.08	1.00		
TOTAL PeCDD		1.20			
TOTAL HxCDD		0.14	1.00		
TOTAL HpCDD		1.10	2.00		
TOTAL TCDF		0.59	3.00		
TOTAL PeCDF		0.20			
TOTAL HxCDF		0.16	1.00		
TOTAL HpCDF		0.19	1.00		
% Finer than #200 Sieve		18.5			
% Total Organic Carbon		0.44			
% Solids		77			
Latitude					
Longitude					
Northing (MiGeoRef)					
Easting (MiGeoRef)					
Elevation (NAVD 1929 in feet)					

## TITTABAWASSEE RIVER PROJECT - CROP LAND, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



NON-DETECT = DETECTION LEVELS



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

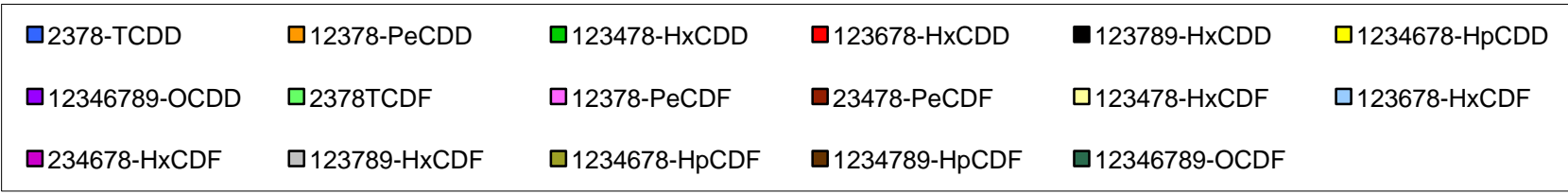
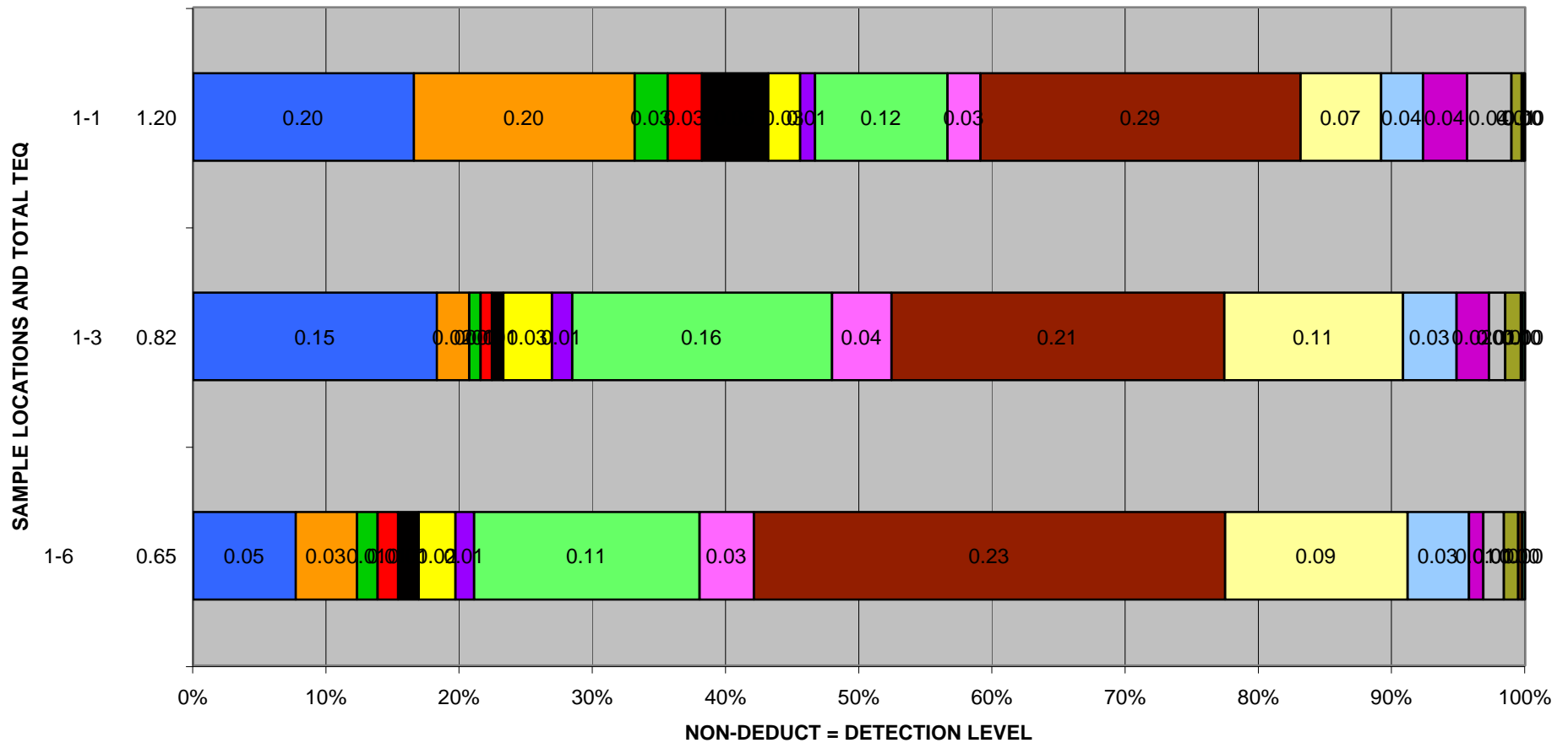
21-Nov-02		PHASE II - NATIONAL PLATE GLASS, SAGINAW COUNTY SOIL SAMPLES													
		ESTIMATED 100 YEAR FLOOD PLAIN ELEVATION 594 (NAVD 1929 in feet )													
		I NPG 1-1					II NPG 1-3					II NPG 1-6			
		FINAL					FINAL					FINAL			
Analyte	TEF	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect
			pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.
1368-TCDD	0	ND	0.06	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.05	0.00	0.00
1379-TCDD	0	ND	0.06	0.00	0.00	0.00	ND	0.03	0.00	0.00	0.00	J	0.12	0.00	0.00
2378-TCDD	1	ND	0.20	0.20	0.10	0.00	J	0.15	0.15	0.15	0.15	ND	0.05	0.05	0.03
12378-PeCDD	0.5	ND	0.40	0.20	0.10	0.00	ND	0.04	0.02	0.01	0.00	ND	0.06	0.03	0.02
123478-HxCDD	0.1	ND	0.30	0.03	0.02	0.00	ND	0.07	0.01	0.00	0.00	ND	0.10	0.01	0.01
123678-HxCDD	0.1	J	0.31	0.03	0.03	0.03	ND	0.07	0.01	0.00	0.00	ND	0.10	0.01	0.01
123789-HxCDD	0.1	J	0.60	0.06	0.06	0.06	ND	0.07	0.01	0.00	0.00	ND	0.10	0.01	0.01
1234678-HpCDD	0.01	J	2.90	0.03	0.03	0.03	J	3.00	0.03	0.03	0.03	J	1.80	0.02	0.02
12346789-OCDD	0.001	B	13.40	0.01	0.01	0.01	ND	12.50	0.01	0.01	0.00	ND	9.10	0.01	0.00
1368-TCDF	0	ND	0.04	0.00	0.00	0.00	ND	0.02	0.00	0.00	0.00	ND	0.04	0.00	0.00
2378TCDF	0.1	ND	1.20	0.12	0.06	0.00		1.60	0.16	0.16	0.16		1.10	0.11	0.11
12378-PeCDF	0.05	J	0.60	0.03	0.03	0.03	J	0.73	0.04	0.04	0.04	J	0.53	0.03	0.03
23478-PeCDF	0.5	J	0.57	0.29	0.29	0.29	J	0.41	0.21	0.21	0.21	J	0.46	0.23	0.23
123478-HxCDF	0.1	J	0.73	0.07	0.07	0.07	J	1.10	0.11	0.11	0.11	J	0.89	0.09	0.09
123678-HxCDF	0.1	J	0.38	0.04	0.04	0.04	J	0.33	0.03	0.03	0.03	ND	0.30	0.03	0.02
234678-HxCDF	0.1	ND,J	0.40	0.04	0.02	0.00	ND	0.20	0.02	0.01	0.00	ND	0.07	0.01	0.00
123789-HxCDF	0.1	ND	0.40	0.04	0.02	0.00	ND	0.10	0.01	0.01	0.00	ND	0.10	0.01	0.01
1234678-HpCDF	0.01	J	0.93	0.01	0.01	0.01	J	0.97	0.01	0.01	0.01	ND	0.70	0.01	0.00
1234789-HpCDF	0.01	ND	0.20	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00
12346789-OCDF	0.001	ND	1.30	0.00	0.00	0.00	J	1.60	0.00	0.00	0.00	J	1.40	0.00	0.00
nondetects = detection limit			TEQ=	1.20				TEQ=	0.82				TEQ=	0.65	
nondetects = 1/2 d.l.			teq=		0.89			teq=		0.78			teq=		0.56
nondetects = zero			teq=			0.57		teq=			0.74		teq=		
Totals		Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number	
			pg/g					pg/g					pg/g		
TOTAL TCDD			0.12	1.00				0.15	1.00				0.26	3.00	
TOTAL PeCDD		ND	1.30				ND	0.30				ND	0.70		
TOTAL HxCDD			2.40	4.00				0.68	1.00			ND	3.10		
TOTAL HpCDD			6.30	2.00				3.00	1.00				3.20	2.00	
TOTAL TCDF			3.70	8.00				2.90	5.00				3.30	7.00	
TOTAL PeCDF			1.40	3.00				11.00	2.00				1.40	4.00	
TOTAL HxCDF			1.10	2.00				1.40	2.00				1.30	3.00	
TOTAL HpCDF			1.70	2.00				2.10	2.00			ND	1.40		
% Finer than #200 Sieve			NS					NS					NS		
% Total Organic Carbon			NS					0.7					0.65		
% Solids			NS					69					63.00		
Latitude			43.396557275N												
Longitude			83.999427512W												
Northing (MiGeoRef)			318131.15m												
Easting (MiGeoRef)			661852.52m												
Elevation (NAVD 1929 in feet)															



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		
Analyte	TEF	nondetect zero
1368-TCDD	0	0.00
1379-TCDD	0	0.00
2378-TCDD	1	0.00
12378-PeCDD	0.5	0.00
123478-HxCDD	0.1	0.00
123678-HxCDD	0.1	0.00
123789-HxCDD	0.1	0.00
1234678-HpCDD	0.01	0.02
12346789-OCDD	0.001	0.00
1368-TCDF	0	0.00
2378TCDF	0.1	0.11
12378-PeCDF	0.05	0.03
23478-PeCDF	0.5	0.23
123478-HxCDF	0.1	0.09
123678-HxCDF	0.1	0.00
234678-HxCDF	0.1	0.00
123789-HxCDF	0.1	0.00
1234678-HpCDF	0.01	0.00
1234789-HpCDF	0.01	0.00
12346789-OCDF	0.001	0.00
nondetects = detection limit		
nondetects = 1/2 d.l.		
nondetects = zero		0.47
Totals		
TOTAL TCDD		
TOTAL PeCDD		
TOTAL HxCDD		
TOTAL HpCDD		
TOTAL TCDF		
TOTAL PeCDF		
TOTAL HxCDF		
TOTAL HpCDF		
% Finer than #200 Sieve		
% Total Organic Carbon		
% Solids		
Latitude		
Longitude		
Northing (MiGeoRef)		
Easting (MiGeoRef)		
Elevation (NAVD 1929 in feet)		

## TITTABAWASSEE RIVER PROJECT - NATIONAL PLATE GLASS, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 1-3 UNDILUTED			R19 1-3 DILUTED			5/8/2002	R19 1-3 FINAL			
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		19.80						19.80	0.00	0.00	0.00
1379-TCDD	0		7.60						7.60	0.00	0.00	0.00
2378-TCDD	1	ND	2					ND	2	2.00	1.00	0.00
12378-PeCDD	0.5	J	4.5					J	4.5	2.25	2.25	2.25
123478-HxCDD	0.1	J	2.8					J	2.8	0.28	0.28	0.28
123678-HxCDD	0.1		13.6						13.6	1.36	1.36	1.36
123789-HxCDD	0.1	J	6.6					J	6.6	0.66	0.66	0.66
1234678-HpCDD	0.01		229						229	2.29	2.29	2.29
12346789-OCDD	0.001		2320						2320	2.32	2.32	2.32
1368-TCDF	0	ND	0.1					ND	0.1	0.00	0.00	0.00
2378TCDF	0.1	E	2670			1810			1810	181.00	181.00	181.00
12378-PeCDF	0.05		1330						1330	66.50	66.50	66.50
23478-PeCDF	0.5		817						817	408.50	408.50	408.50
123478-HxCDF	0.1		698						698	69.80	69.80	69.80
123678-HxCDF	0.1		180						180	18.00	18.00	18.00
234678-HxCDF	0.1		104						104	10.40	10.40	10.40
123789-HxCDF	0.1		19.6						19.6	1.96	1.96	1.96
1234678-HpCDF	0.01		751						751	7.51	7.51	7.51
1234789-HpCDF	0.01		52.8						52.8	0.53	0.53	0.53
12346789-OCDF	0.001		597						597	0.60	0.60	0.60
nondetects = detection limit									TEQ=	775.96		
nondetects = 1/2 d.l.									teq=		774.96	
nondetects = zero									teq=			773.96
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD		E	35.8	5.0		18.5	1.0		18.5	1.0		
TOTAL PeCDD			20.4	4.0					20.4	4.0		
TOTAL HxCDD			83.6	6.0					83.6	6.0		
TOTAL HpCDD			421.0	2.0					421.0	2.0		
TOTAL TCDF		E	5780.0	14.0		4190.0	12.0		4190.0	12.0		
TOTAL PeCDF			4040.0	11.0					4040.0	11.0		
TOTAL HxCDF			1490.0	9.0					1490.0	9.0		
TOTAL HpCDF			1350.0	3.0					1350.0	3.0		
% Finer than #200 Sieve									67.9			
% Total Organic Carbon									2.0			
% Solids									77			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 1-6 UNDILUTED			R19 1-6 DILUTED			R19 1-6 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		13.70						13.70	0.00	0.00	0.00
1379-TCDD	0	ND	6.00					ND	6.00	0.00	0.00	0.00
2378-TCDD	1		1.7						1.70	1.70	1.70	1.70
12378-PeCDD	0.5	J	3.3					J	3.30	1.65	1.65	1.65
123478-HxCDD	0.1	J	2					J	2.00	0.20	0.20	0.20
123678-HxCDD	0.1		11.3						11.30	1.13	1.13	1.13
123789-HxCDD	0.1	J	5.4					J	5.40	0.54	0.54	0.54
1234678-HpCDD	0.01		178						178.00	1.78	1.78	1.78
12346789-OCDD	0.001		1560						1560.00	1.56	1.56	1.56
1368-TCDF	0	ND	0.1					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	1740			1180			1180.00	118.00	118.00	118.00
12378-PeCDF	0.05		935						935.00	46.75	46.75	46.75
23478-PeCDF	0.5		562						562.00	281.00	281.00	281.00
123478-HxCDF	0.1		487						487.00	48.70	48.70	48.70
123678-HxCDF	0.1		127						127.00	12.70	12.70	12.70
234678-HxCDF	0.1		72.4						72.40	7.24	7.24	7.24
123789-HxCDF	0.1		14.4						14.40	1.44	1.44	1.44
1234678-HpCDF	0.01		563						563.00	5.63	5.63	5.63
1234789-HpCDF	0.01		45.3						45.30	0.45	0.45	0.45
12346789-OCDF	0.001		535						535.00	0.54	0.54	0.54
nondetects = detection limit									TEQ=	531.01		
nondetects = 1/2 d.l.									teq=		531.01	
nondetects = zero									teq=			531.01
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD		E	19.8	4.0		11.4	1.0		11.4	1		
TOTAL PeCDD			15.9	4.0					15.9	4		
TOTAL HxCDD			58.9	5.0					58.9	5		
TOTAL HpCDD			307.0	2.0					307.0	2		
TOTAL TCDF		E	3910.0	14.0		2670.0	9.0		2670.0	9		
TOTAL PeCDF			2830.0	11.0					2830.0	11		
TOTAL HxCDF			1070.0	10.0					1070.0	10		
TOTAL HpCDF			1030.0	3.0					1030.0	3		
% Finer than #200 Sieve									58			
% Total Organic Carbon									1.7			
% Solids									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 1-15 UNDILUTED			R19 1-15 DILUTED			R19 1-15 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		29.20						29.20	0.00	0.00	0.00
1379-TCDD	0		12.30						12.30	0.00	0.00	0.00
2378-TCDD	1		2.9						2.90	2.90	2.90	2.90
12378-PeCDD	0.5		9.1						9.10	4.55	4.55	4.55
123478-HxCDD	0.1		5.8						5.80	0.58	0.58	0.58
123678-HxCDD	0.1		39.6						39.60	3.96	3.96	3.96
123789-HxCDD	0.1		14.1						14.10	1.41	1.41	1.41
1234678-HpCDD	0.01		1280						1280.00	12.80	12.80	12.80
12346789-OCDD	0.001	E	12850			11800			11800.00	11.80	11.80	11.80
1368-TCDF	0	ND	0.2					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	3200			2160			2160.00	216.00	216.00	216.00
12378-PeCDF	0.05		1590						1590.00	79.50	79.50	79.50
23478-PeCDF	0.5		958						958.00	479.00	479.00	479.00
123478-HxCDF	0.1		779						779.00	77.90	77.90	77.90
123678-HxCDF	0.1		214						214.00	21.40	21.40	21.40
234678-HxCDF	0.1		127						127.00	12.70	12.70	12.70
123789-HxCDF	0.1		17.6						17.60	1.76	1.76	1.76
1234678-HpCDF	0.01		1490						1490.00	14.90	14.90	14.90
1234789-HpCDF	0.01		88.1						88.10	0.88	0.88	0.88
12346789-OCDF	0.001		3650						3650.00	3.65	3.65	3.65
nondetects = detection limit									TEQ=	945.69		
nondetects = 1/2 d.l.									teq=		945.69	
nondetects = zero									teq=			945.69
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			69.0	6.0					69.0	6.0		
TOTAL PeCDD			74.1	8.0					74.1	8.0		
TOTAL HxCDD			200.0	6.0					200.0	6.0		
TOTAL HpCDD			2240.0	2.0					2240.0	2.0		
TOTAL TCDF		E	6620.0	17.0		4870.0	13.0		4870.0	13.0		
TOTAL PeCDF			4640.0	10.0					4640.0	10.0		
TOTAL HxCDF			1920.0	10.0					1920.0	10.0		
TOTAL HpCDF			3760.0	3.0					3760.0	3.0		
% Finer than #200 Sieve									54.7			
% Total Organic Carbon									2.1			
% Solids									79			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 2-3			R19 2-3			R19 2-3				
		UNDILUTED			DILUTED			FINAL				
Analyte	TEF	Flags	Concentration		Flags	Concentration		Flags	Concentration	nondetect	nondetect	nondetect
			pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		6.5						6.50	0.00	0.00	0.00
1379-TCDD	0		3.7						3.70	0.00	0.00	0.00
2378-TCDD	1	J	0.78					J	0.78	0.78	0.78	0.78
12378-PeCDD	0.5	J	2.5					J	2.50	1.25	1.25	1.25
123478-HxCDD	0.1	J	2.1					J	2.10	0.21	0.21	0.21
123678-HxCDD	0.1		6.3						6.30	0.63	0.63	0.63
123789-HxCDD	0.1	J	4.9					J	4.90	0.49	0.49	0.49
1234678-HpCDD	0.01		110						110.00	1.10	1.10	1.10
12346789-OCDD	0.001		928						928.00	0.93	0.93	0.93
1368-TCDF	0	ND	0.2					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	834			495			495.00	49.50	49.50	49.50
12378-PeCDF	0.05		422						422.00	21.10	21.10	21.10
23478-PeCDF	0.5		256						256.00	128.00	128.00	128.00
123478-HxCDF	0.1		215						215.00	21.50	21.50	21.50
123678-HxCDF	0.1		54.8						54.80	5.48	5.48	5.48
234678-HxCDF	0.1		33.4						33.40	3.34	3.34	3.34
123789-HxCDF	0.1		5.3						5.30	0.53	0.53	0.53
1234678-HpCDF	0.01		289						289.00	2.89	2.89	2.89
1234789-HpCDF	0.01		15.9						15.90	0.16	0.16	0.16
12346789-OCDF	0.001		210						210.00	0.21	0.21	0.21
nondetects = detection limit									TEQ=	238.10		
nondetects = 1/2 d.l.									teq=		238.10	
nondetects = zero									teq=			238.10
		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
			pg/g			pg/g			pg/g			
TOTAL TCDD			17.5	8.0					17.5	8.0		
TOTAL PeCDD			18.4	6.0					18.4	6.0		
TOTAL HxCDD			44.4	7.0					44.4	7.0		
TOTAL HpCDD			193.0	2.0					193.0	2.0		
TOTAL TCDF		E	1770.0	16.0		1170.0	9.0		1170.0	9.0		
TOTAL PeCDF			1260.0	10.0					1260.0	10.0		
TOTAL HxCDF			469.0	10.0					469.0	10.0		
TOTAL HpCDF			501.0	3.0					501.0	3.0		
% Finer than #200 Sieve									52.3			
% Total Organic Carbon									1.9			
% Solids									80			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 2-6			R19 2-6			R19 2-6				
		UNDILUTED			DILUTED			FINAL				
Analyte	TEF	Flags	Concentration		Flags	Concentration		Flags	Concentration	nondetect	nondetect	nondetect
			pg/g			pg/g			pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0		3.9						3.90	0.00	0.00	0.00
1379-TCDD	0	ND	1.7					ND	1.70	0.00	0.00	0.00
2378-TCDD	1	ND	0.7					ND	0.70	0.70	0.35	0.00
12378-PeCDD	0.5	J	1.7					J	1.70	0.85	0.85	0.85
123478-HxCDD	0.1	J	1.7					J	1.70	0.17	0.17	0.17
123678-HxCDD	0.1		5.4						5.40	0.54	0.54	0.54
123789-HxCDD	0.1	J	4.7					J	4.70	0.47	0.47	0.47
1234678-HpCDD	0.01		102						102.00	1.02	1.02	1.02
12346789-OCDD	0.001		952						952.00	0.95	0.95	0.95
1368-TCDF	0	ND	0.2					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1		287						287.00	28.70	28.70	28.70
12378-PeCDF	0.05		151						151.00	7.55	7.55	7.55
23478-PeCDF	0.5		92.6						92.60	46.30	46.30	46.30
123478-HxCDF	0.1		79.4						79.40	7.94	7.94	7.94
123678-HxCDF	0.1		22.2						22.20	2.22	2.22	2.22
234678-HxCDF	0.1		13.6						13.60	1.36	1.36	1.36
123789-HxCDF	0.1	J	1.8					J	1.80	0.18	0.18	0.18
1234678-HpCDF	0.01		173						173.00	1.73	1.73	1.73
1234789-HpCDF	0.01		7.7						7.70	0.08	0.08	0.08
12346789-OCDF	0.001		125						125.00	0.13	0.13	0.13
nondetects = detection limit									TEQ=	100.88		
nondetects = 1/2 d.l.									teq=		100.53	
nondetects = zero									teq=			100.18
		Flags	Concentration	Number	Flags	Concentration	Number	Flags	Concentration	Number		
			pg/g			pg/g			pg/g			
TOTAL TCDD			8.5	5.0					8.5	5.0		
TOTAL PeCDD			15.0	9.0					15.0	9.0		
TOTAL HxCDD			40.2	7.0					40.2	7.0		
TOTAL HpCDD			189.0	2.0					189.0	2.0		
TOTAL TCDF			639.0	15.0					639.0	15.0		
TOTAL PeCDF			465.0	11.0					465.0	11.0		
TOTAL HxCDF			207.0	10.0					207.0	10.0		
TOTAL HpCDF			305.0	3.0					305.0	3.0		
% Finer than #200 Sieve									56.9			
% Total Organic Carbon									0.97			
% Solids									85			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES									
		R19 2-15 UNDILUTED			R19 2-15 DILUTED			R19 2-15 FINAL			
Analyte	TEF	Flags	Concentration pg/g	Flags	Concentration pg/g	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	
1368-TCDD	0		6.4				6.40	0.00	0.00	0.00	
1379-TCDD	0		3.4				3.40	0.00	0.00	0.00	
2378-TCDD	1		1.2				1.20	1.20	1.20	1.20	
12378-PeCDD	0.5	J	3.1			J	3.10	1.55	1.55	1.55	
123478-HxCDD	0.1	J	2.9			J	2.90	0.29	0.29	0.29	
123678-HxCDD	0.1		9.4				9.40	0.94	0.94	0.94	
123789-HxCDD	0.1	J	8.5			J	8.50	0.85	0.85	0.85	
1234678-HpCDD	0.01		136				136.00	1.36	1.36	1.36	
12346789-OCDD	0.001		933				933.00	0.93	0.93	0.93	
1368-TCDF	0	ND	0.09			ND	0.09	0.00	0.00	0.00	
2378TCDF	0.1	E	440		306		306.00	30.60	30.60	30.60	
12378-PeCDF	0.05		237				237.00	11.85	11.85	11.85	
23478-PeCDF	0.5		139				139.00	69.50	69.50	69.50	
123478-HxCDF	0.1		126				126.00	12.60	12.60	12.60	
123678-HxCDF	0.1		33.2				33.20	3.32	3.32	3.32	
234678-HxCDF	0.1		20.7				20.70	2.07	2.07	2.07	
123789-HxCDF	0.1	J	3.2			J	3.20	0.32	0.32	0.32	
1234678-HpCDF	0.01		352				352.00	3.52	3.52	3.52	
1234789-HpCDF	0.01		12				12.00	0.12	0.12	0.12	
12346789-OCDF	0.001		209				209.00	0.21	0.21	0.21	
nondetects = detection limit							TEQ=	141.23			
nondetects = 1/2 d.l.							teq=		141.23		
nondetects = zero							teq=			141.23	
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	
TOTAL TCDD			24.9	9.0					24.9	9.0	
TOTAL PeCDD			24.3	6.0					24.3	6.0	
TOTAL HxCDD			88.0	7.0					88.0	7.0	
TOTAL HpCDD			298.0	2.0					298.0	2.0	
TOTAL TCDF		E	942.0	12.0		663.0	8.0		663.0	8.0	
TOTAL PeCDF			721.0	11.0					721.0	11.0	
TOTAL HxCDF			334.0	11.0					334.0	11.0	
TOTAL HpCDF			583.0	3.0					583.0	3.0	
% Finer than #200 Sieve									54.6		
% Total Organic Carbon									0.94		
% Solids									78		
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											



TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 3-1 UNDILUTED			R19 3-1 DILUTED			R19 3-1 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		13.8						13.80	0.00	0.00	0.00
1379-TCDD	0		7.3						7.30	0.00	0.00	0.00
2378-TCDD	1		1.3						1.30	1.30	1.30	1.30
12378-PeCDD	0.5	J	4					J	4.00	2.00	2.00	2.00
123478-HxCDD	0.1	J	2.4					J	2.40	0.24	0.24	0.24
123678-HxCDD	0.1		10.6						10.60	1.06	1.06	1.06
123789-HxCDD	0.1	J	5.9					J	5.90	0.59	0.59	0.59
1234678-HpCDD	0.01		163						163.00	1.63	1.63	1.63
12346789-OCDD	0.001		1510						1510.00	1.51	1.51	1.51
1368-TCDF	0	ND	0.1					ND	0.10	0.00	0.00	0.00
2378TCDF	0.1	E	1530			1180			1180.00	118.00	118.00	118.00
12378-PeCDF	0.05		695						695.00	34.75	34.75	34.75
23478-PeCDF	0.5		454						454.00	227.00	227.00	227.00
123478-HxCDF	0.1		364						364.00	36.40	36.40	36.40
123678-HxCDF	0.1		93.1						93.10	9.31	9.31	9.31
234678-HxCDF	0.1		56.7						56.70	5.67	5.67	5.67
123789-HxCDF	0.1		8.8						8.80	0.88	0.88	0.88
1234678-HpCDF	0.01		793						793.00	7.93	7.93	7.93
1234789-HpCDF	0.01		33						33.00	0.33	0.33	0.33
12346789-OCDF	0.001		521						521.00	0.52	0.52	0.52
nondetects = detection limit									TEQ=	449.12		
nondetects = 1/2 d.l.									teq=		449.12	
nondetects = zero									teq=			449.12
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			27.4	5.0					27.4	5.0		
TOTAL PeCDD			18.1	4.0					18.1	4.0		
TOTAL HxCDD			67.9	6.0					67.9	6.0		
TOTAL HpCDD			278.0	2.0					278.0	2.0		
TOTAL TCDF		E	3490.0	13.0		2690.0	9.0		2690.0	9.0		
TOTAL PeCDF			2200.0	12.0					2200.0	12.0		
TOTAL HxCDF			839.0	10.0					839.0	10.0		
TOTAL HpCDF			1340.0	3.0					1340.0	3.0		
% Finer than #200 Sieve									NS			
% Total Organic Carbon									NS			
% Solids									NS			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 3-3 UNDILUTED			R19 3-3 DILUTED			R19 3-3 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		37.8						37.80	0.00	0.00	0.00
1379-TCDD	0		17.2						17.20	0.00	0.00	0.00
2378-TCDD	1		3						3.00	3.00	3.00	3.00
12378-PeCDD	0.5		11.7						11.70	5.85	5.85	5.85
123478-HxCDD	0.1		6.9						6.90	0.69	0.69	0.69
123678-HxCDD	0.1		29.7						29.70	2.97	2.97	2.97
123789-HxCDD	0.1		15.4						15.40	1.54	1.54	1.54
1234678-HpCDD	0.01		487						487.00	4.87	4.87	4.87
12346789-OCDD	0.001		4660						4660.00	4.66	4.66	4.66
1368-TCDF	0	ND	0.2					ND	0.20	0.00	0.00	0.00
2378TCDF	0.1	E	2780			1890			1890.00	189.00	189.00	189.00
12378-PeCDF	0.05		2020						2020.00	101.00	101.00	101.00
23478-PeCDF	0.5		1120						1120.00	560.00	560.00	560.00
123478-HxCDF	0.1		1150						1150.00	115.00	115.00	115.00
123678-HxCDF	0.1		286						286.00	28.60	28.60	28.60
234678-HxCDF	0.1		172						172.00	17.20	17.20	17.20
123789-HxCDF	0.1		26.5						26.50	2.65	2.65	2.65
1234678-HpCDF	0.01		2360						2360.00	23.60	23.60	23.60
1234789-HpCDF	0.01		95.6						95.60	0.96	0.96	0.96
12346789-OCDF	0.001		1420						1420.00	1.42	1.42	1.42
nondetects = detection limit									TEQ=	1063.01		
nondetects = 1/2 d.l.									teq=		1063.01	
nondetects = zero									teq=			1063.01
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			68.8	4.0					68.8	4.0		
TOTAL PeCDD			45.7	3.0					45.7	3.0		
TOTAL HxCDD			179.0	6.0					179.0	6.0		
TOTAL HpCDD			813.0	2.0					813.0	2.0		
TOTAL TCDF		E	6750.0	15.0		4630.0	13.0		4630.0	13.0		
TOTAL PeCDF			6100.0	12.0					6100.0	12.0		
TOTAL HxCDF			2670.0	10.0					2670.0	10.0		
TOTAL HpCDF			3930.0	3.0					3930.0	3.0		
% Finer than #200 Sieve									41.4			
% Total Organic Carbon									2.6			
% Solids									70			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

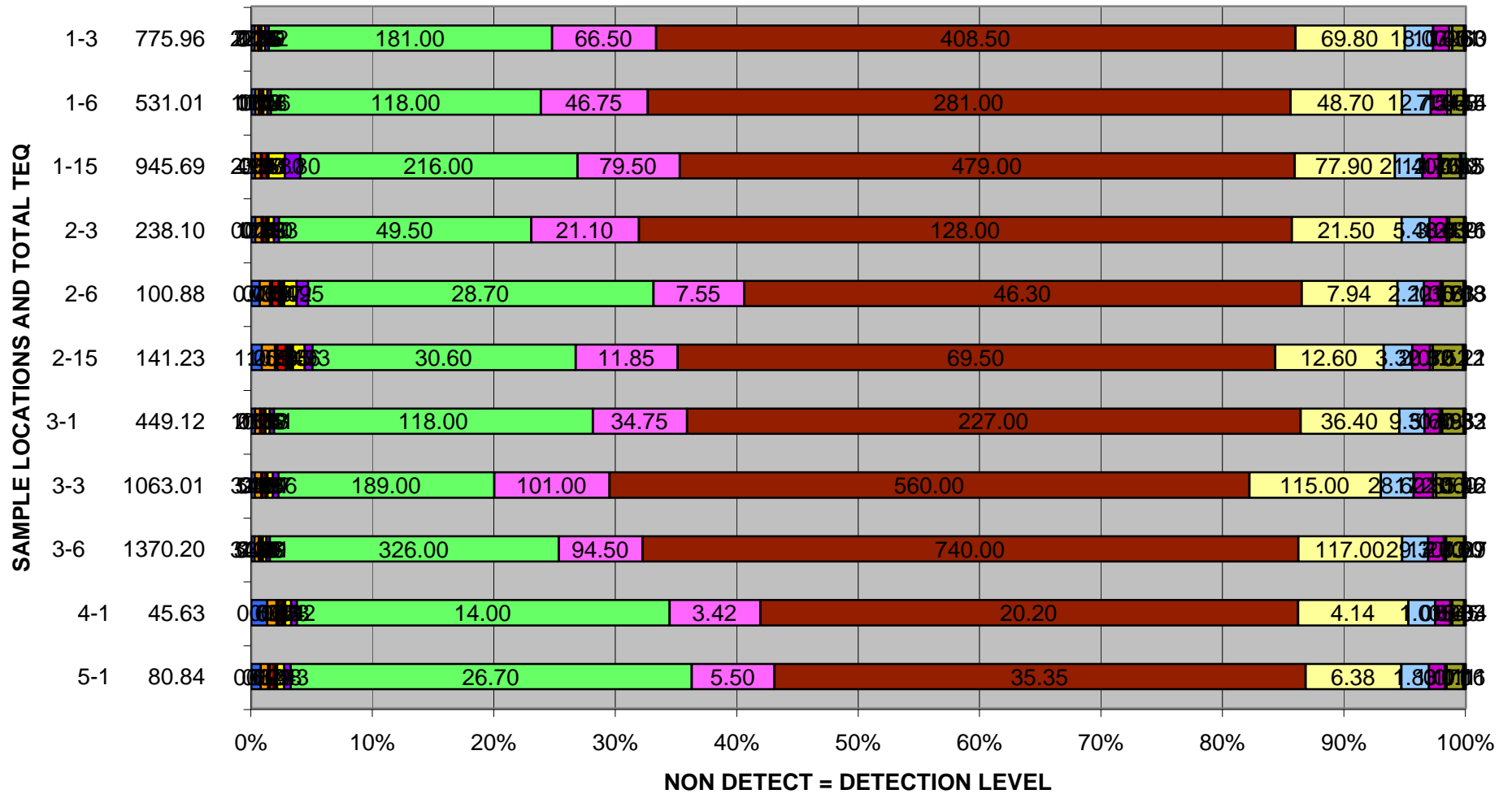
TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES										
		R19 3-6 UNDILUTED			R19 3-6 DILUTED			R19 3-6 FINAL				
Analyte	TEF	Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g		Flags	Concentration pg/g
1368-TCDD	0		39.3						39.30	0.00	0.00	0.00
1379-TCDD	0		17.3						17.30	0.00	0.00	0.00
2378-TCDD	1		3.4						3.40	3.40	3.40	3.40
12378-PeCDD	0.5		10.1						10.10	5.05	5.05	5.05
123478-HxCDD	0.1		5.9						5.90	0.59	0.59	0.59
123678-HxCDD	0.1		25.1						25.10	2.51	2.51	2.51
123789-HxCDD	0.1		13.6						13.60	1.36	1.36	1.36
1234678-HpCDD	0.01		409						409.00	4.09	4.09	4.09
12346789-OCDD	0.001	E	4160			3810			3810.00	3.81	3.81	3.81
1368-TCDF	0	ND	0.09					ND	0.09	0.00	0.00	0.00
2378TCDF	0.1	E	4770			3260			3260.00	326.00	326.00	326.00
12378-PeCDF	0.05	E	2240			1890			1890.00	94.50	94.50	94.50
23478-PeCDF	0.5		1480						1480.00	740.00	740.00	740.00
123478-HxCDF	0.1		1170						1170.00	117.00	117.00	117.00
123678-HxCDF	0.1		293						293.00	29.30	29.30	29.30
234678-HxCDF	0.1		177						177.00	17.70	17.70	17.70
123789-HxCDF	0.1		27.3						27.30	2.73	2.73	2.73
1234678-HpCDF	0.01		2000						2000.00	20.00	20.00	20.00
1234789-HpCDF	0.01		89.4						89.40	0.89	0.89	0.89
12346789-OCDF	0.001		1270						1270.00	1.27	1.27	1.27
nondetects = detection limit									TEQ=	1370.20		
nondetects = 1/2 d.l.									teq=		1370.20	
nondetects = zero									teq=			1370.20
		Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number	Flags	Concentration pg/g	Number		
TOTAL TCDD			76.2	5.0					76.2	5.0		
TOTAL PeCDD			44.5	5.0					44.5	5.0		
TOTAL HxCDD			165.0	6.0					165.0	6.0		
TOTAL HpCDD			689.0	2.0					689.0	2.0		
TOTAL TCDF		E	10380.0	14.0		7460.0	7.0		7460.0	7.0		
TOTAL PeCDF		E	7120.0	10.0		5880.0	6.0		5880.0	6.0		
TOTAL HxCDF			2630.0	10.0					2630.0	10.0		
TOTAL HpCDF			3340.0	3.0					3340.0	3.0		
% Finer than #200 Sieve									53.4			
% Total Organic Carbon									1.5			
% Solids									81			
Latitude												
Longitude												
Northing (MiGeoRef)												
Easting (MiGeoRef)												
Elevation (NAVD 1929 in feet)												

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02		PHASE II - 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES									
		R19 4-1 FINAL					R19 5-1 FINAL				
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero
1368-TCDD	0		1.20	0.00	0.00	0.00		3.20	0.00	0.00	0.00
1379-TCDD	0	ND	0.60	0.00	0.00	0.00		1.50	0.00	0.00	0.00
2378-TCDD	1	ND	0.60	0.60	0.30	0.00	J	0.62	0.62	0.62	0.62
12378-PeCDD	0.5	ND	0.70	0.35	0.18	0.00	J	1.00	0.50	0.50	0.50
123478-HxCDD	0.1	ND	0.80	0.08	0.04	0.00	J	0.91	0.09	0.09	0.09
123678-HxCDD	0.1	ND	1.00	0.10	0.05	0.00	J	2.90	0.29	0.29	0.29
123789-HxCDD	0.1	ND	1.40	0.14	0.07	0.00	J	2.10	0.21	0.21	0.21
1234678-HpCDD	0.01		22.60	0.23	0.23	0.23		47.80	0.48	0.48	0.48
12346789-OCDD	0.001		218.00	0.22	0.22	0.22		427.00	0.43	0.43	0.43
1368-TCDF	0	ND	0.40	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00
2378TCDF	0.1		140.00	14.00	14.00	14.00		267.00	26.70	26.70	26.70
12378-PeCDF	0.05		68.30	3.42	3.42	3.42		110.00	5.50	5.50	5.50
23478-PeCDF	0.5		40.40	20.20	20.20	20.20		70.70	35.35	35.35	35.35
123478-HxCDF	0.1		41.40	4.14	4.14	4.14		63.80	6.38	6.38	6.38
123678-HxCDF	0.1		10.10	1.01	1.01	1.01		18.30	1.83	1.83	1.83
234678-HxCDF	0.1		5.60	0.56	0.56	0.56		10.70	1.07	1.07	1.07
123789-HxCDF	0.1	J	0.80	0.08	0.08	0.08	J	1.10	0.11	0.11	0.11
1234678-HpCDF	0.01		44.60	0.45	0.45	0.45		111.00	1.11	1.11	1.11
1234789-HpCDF	0.01	ND	2.50	0.03	0.01	0.00		5.90	0.06	0.06	0.06
12346789-OCDF	0.001		39.00	0.04	0.04	0.04		112.00	0.11	0.11	0.11
nondetects = detection limit			TEQ=	45.63				TEQ=	80.84		
nondetects = 1/2 d.l.			teq=		44.98			teq=		80.84	
nondetects = zero			teq=			44.33		teq=			80.84
		Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number		
TOTAL TCDD			1.2	1.0				6.0	4.0		
TOTAL PeCDD			1.2	1.0				4.4	3.0		
TOTAL HxCDD			3.8	1.0				21.0	6.0		
TOTAL HpCDD			42.4	2.0				86.9	2.0		
TOTAL TCDF			309.0	12.0				602.0	15.0		
TOTAL PeCDF			202.0	8.0				355.0	12.0		
TOTAL HxCDF			88.5	8.0				167.0	9.0		
TOTAL HpCDF			74.4	2.0				206.0	4.0		
% Finer than #200 Sieve			NS					NS			
% Total Organic Carbon			NS					NS			
% Solids			NS					NS			
Latitude											
Longitude											
Northing (MiGeoRef)											
Easting (MiGeoRef)											
Elevation (NAVD 1929 in feet)											

## TITTABAWASSEE RIVER PROJECT - 19 RIVERSIDE BLVD, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN



2378-TCDD	12378-PeCDD	123478-HxCDD	123678-HxCDD	123789-HxCDD	1234678-HpCDD
12346789-OCDD	2378TCDF	12378-PeCDF	23478-PeCDF	123478-HxCDF	123678-HxCDF
234678-HxCDF	123789-HxCDF	1234678-HpCDF	1234789-HpCDF	12346789-OCDF	

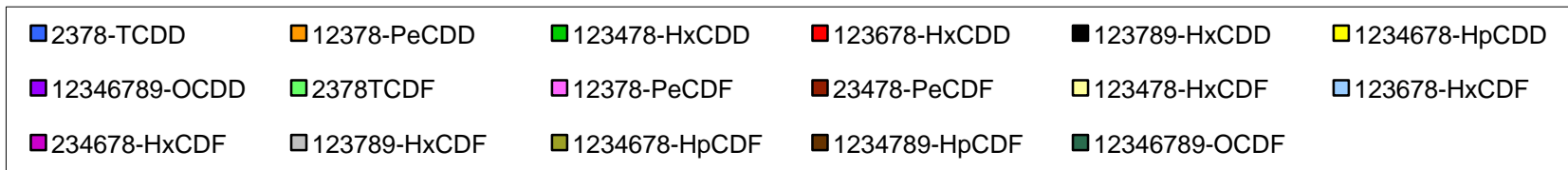
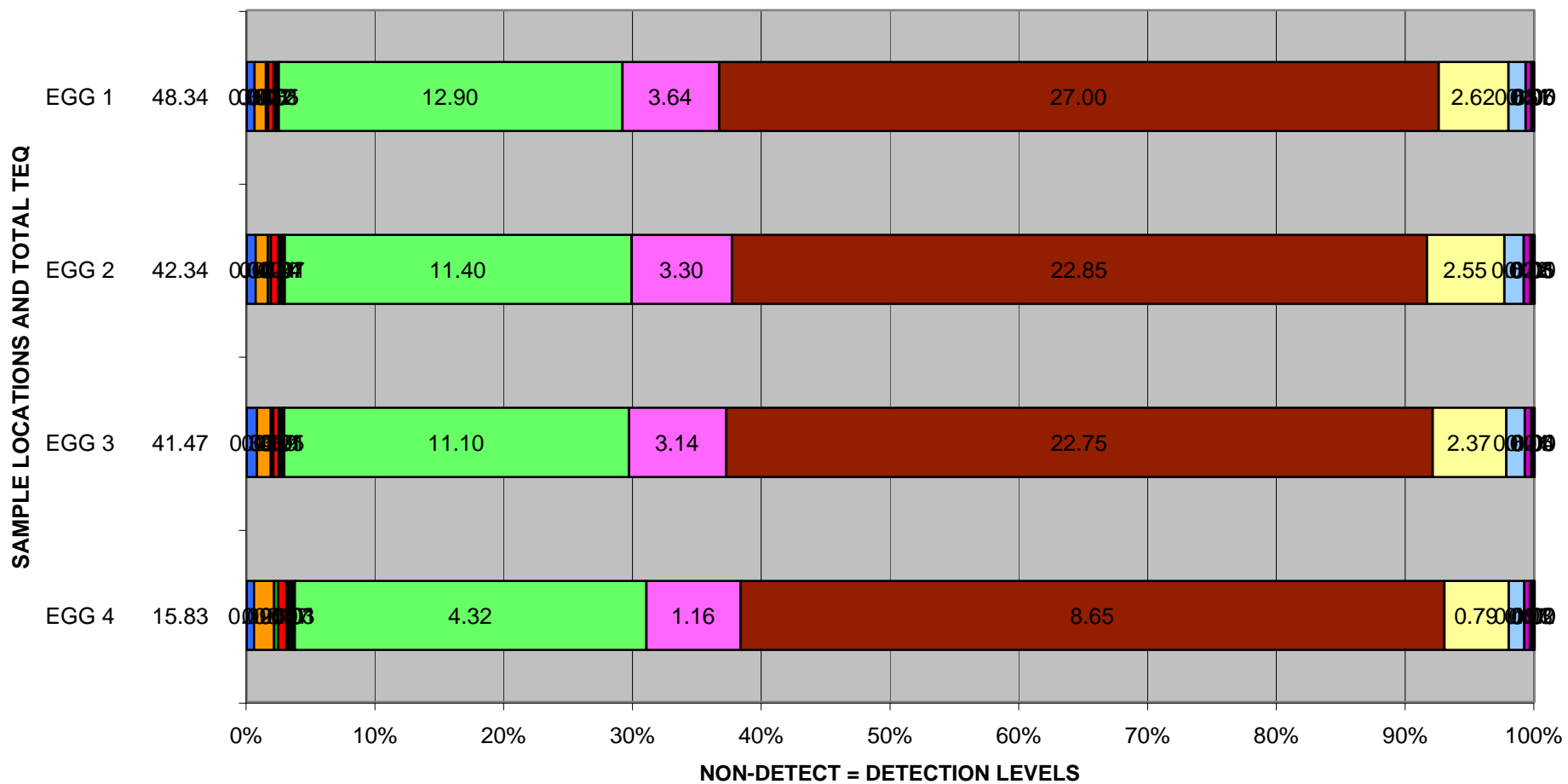
**TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES**

21-Nov-02		PHASE II - EGGS FROM 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES									
		5/8/02		R19 EGG 1					R19 EGG 2		
				FINAL					FINAL		
Analyte	TEF	Flags	Concentration pg/g	nondetect detection level	<i>nondetect</i> <i>1/2 d.l.</i>	nondetect zero	Flags	Concentration pg/g	nondetect detection level	<i>nondetect</i> <i>1/2 d.l.</i>	nondetect zero
1368-TCDD	0	ND	0.07	0.00	0.00	0.00	ND	0.08	0.00	0.00	0.00
1379-TCDD	0	ND	0.07	0.00	0.00	0.00	ND	0.08	0.00	0.00	0.00
2378-TCDD	1	ND	0.30	0.30	0.15	0.00	ND	0.30	0.30	0.15	0.00
12378-PeCDD	0.5	J	0.86	0.43	0.43	0.43	ND	0.80	0.40	0.20	0.00
123478-HxCDD	0.1	J	0.78	0.08	0.08	0.08	J	0.98	0.10	0.10	0.10
123678-HxCDD	0.1		2.20	0.22	0.22	0.22	J	2.40	0.24	0.24	0.24
123789-HxCDD	0.1	J	1.20	0.12	0.12	0.12	J	1.40	0.14	0.14	0.14
1234678-HpCDD	0.01		4.80	0.05	0.05	0.05		6.80	0.07	0.07	0.07
12346789-OCDD	0.001		6.90	0.01	0.01	0.01		12.90	0.01	0.01	0.01
1368-TCDF	0	ND	0.06	0.00	0.00	0.00	ND	0.06	0.00	0.00	0.00
2378TCDF	0.1		129.00	12.90	12.90	12.90		114.00	11.40	11.40	11.40
12378-PeCDF	0.05		72.80	3.64	3.64	3.64		66.00	3.30	3.30	3.30
23478-PeCDF	0.5		54.00	27.00	27.00	27.00		45.70	22.85	22.85	22.85
123478-HxCDF	0.1		26.20	2.62	2.62	2.62		25.50	2.55	2.55	2.55
123678-HxCDF	0.1		6.50	0.65	0.65	0.65		6.30	0.63	0.63	0.63
234678-HxCDF	0.1		2.10	0.21	0.21	0.21	J	2.20	0.22	0.22	0.22
123789-HxCDF	0.1	J	0.65	0.07	0.07	0.07	J	0.77	0.08	0.08	0.08
1234678-HpCDF	0.01		4.60	0.05	0.05	0.05		4.90	0.05	0.05	0.05
1234789-HpCDF	0.01	J	0.31	0.00	0.00	0.00	ND	0.50	0.01	0.00	0.00
12346789-OCDF	0.001	ND	1.60	0.00	0.00	0.00	ND	1.90	0.00	0.00	0.00
nondetects = detection limit			TEQ=	48.34				TEQ=	42.34		
nondetects = 1/2 d.l.			teq=		48.19			teq=		41.99	
nondetects = zero			teq=			48.04		teq=			41.63
Totals		Flags	Concentration	Number			Flags	Concentration	Number		
			pg/g					pg/g			
TOTAL TCDD		ND	0.3				ND	0.30			
TOTAL PeCDD			0.86	1.00			ND	1.00			
TOTAL HxCDD			4.20	4.00				4.80	3.00		
TOTAL HpCDD			4.80	1.00				7.30	2.00		
TOTAL TCDF			125.00	1.00				109.00	2.00		
TOTAL PeCDF			127.00	2.00				113.00	5.00		
TOTAL HxCDF			36.40	5.00				35.90	2.00		
TOTAL HpCDF			5.60	3.00				5.60	2.00		

TITTABAWASSEE RIVER FLOOD PLAIN SOIL SAMPLES

21-Nov-02							PHASE II - EGGS FROM 19 RIVERSIDE DRIVE, SAGINAW COUNTY				
			R19 EGG 3			R19 EGG 4					
			FINAL			FINAL					
Analyte	TEF	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect
			pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero
1368-TCDD	0	ND	0.07	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00
1379-TCDD	0	ND	0.07	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00
2378-TCDD	1	J	0.33	0.33	0.33	0.33	J	0.09	0.09	0.09	0.09
12378-PeCDD	0.5	J	0.91	0.46	0.46	0.46	ND	0.50	0.25	0.13	0.00
123478-HxCDD	0.1	J	0.73	0.07	0.07	0.07	J	0.50	0.05	0.05	0.05
123678-HxCDD	0.1	J	1.90	0.19	0.19	0.19	ND	1.00	0.10	0.05	0.00
123789-HxCDD	0.1	J	1.10	0.11	0.11	0.11	J	0.70	0.07	0.07	0.07
1234678-HpCDD	0.01		4.60	0.05	0.05	0.05		2.90	0.03	0.03	0.03
12346789-OCDD	0.001		7.30	0.01	0.01	0.01		5.40	0.01	0.01	0.01
1368-TCDF	0	ND	0.06	0.00	0.00	0.00	ND	0.08	0.00	0.00	0.00
2378TCDF	0.1		111.00	11.10	11.10	11.10		43.20	4.32	4.32	4.32
12378-PeCDF	0.05		62.70	3.14	3.14	3.14		23.20	1.16	1.16	1.16
23478-PeCDF	0.5		45.50	22.75	22.75	22.75		17.30	8.65	8.65	8.65
123478-HxCDF	0.1		23.70	2.37	2.37	2.37		7.90	0.79	0.79	0.79
123678-HxCDF	0.1		6.00	0.60	0.60	0.60	J	1.90	0.19	0.19	0.19
234678-HxCDF	0.1	J	2.10	0.21	0.21	0.21	J	0.72	0.07	0.07	0.07
123789-HxCDF	0.1	J	0.53	0.05	0.05	0.05	ND	0.30	0.03	0.02	0.00
1234678-HpCDF	0.01		3.90	0.04	0.04	0.04	J	1.90	0.02	0.02	0.02
1234789-HpCDF	0.01	ND	0.40	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00
12346789-OCDF	0.001	ND	1.00	0.00	0.00	0.00	ND	0.50	0.00	0.00	0.00
nondetects = detection limit			TEQ=	41.47				TEQ=	15.83		
nondetects = 1/2 d.l.			teq=		41.47			teq=		15.64	
nondetects = zero			teq=			41.47		teq=			15.45
Totals		Flags	Concentration	Number			Flags	Concentration	Number		
			pg/g					pg/g			
TOTAL TCDD			0.33	1.00				0.09	1.00		
TOTAL PeCDD			0.91	1.00				0.13	1.00		
TOTAL HxCDD			3.70	3.00				1.20	2.00		
TOTAL HpCDD			4.60	1.00				2.90	1.00		
TOTAL TCDF			107.00	2.00				41.80	2.00		
TOTAL PeCDF			108.00	2.00				40.50	2.00		
TOTAL HxCDF			33.00	5.00				11.40	5.00		
TOTAL HpCDF			4.20	2.00				1.90	1.00		

## TITTABAWASSEE RIVER PROJECT - EGGS FROM 19 RIVERSIDE DRIVE, SAGINAW COUNTY SOIL SAMPLES FOR DIOXIN





TITTABAWASSEE RIVER FLOOD PLAIN SOILS

11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES																			
		8/6/2002					SES 1-1					SES 1-3					SES 1-6				
		FINAL					FINAL					FINAL									
Analyte	TEF	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect						
			pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.						
1368-TCDD	0		2.50	0.00	0.00	0.00		3.00	0.00	0.00	0.00	J	0.70	0.00	0.00						
1379-TCDD	0	ND	1.40	0.00	0.00	0.00		1.60	0.00	0.00	0.00	ND	0.40	0.00	0.00						
2378-TCDD	1	J	0.64	0.64	0.64	0.64	J	0.85	0.85	0.85	0.85	ND	0.40	0.40	0.20						
12378-PeCDD	0.5	J	0.90	0.45	0.45	0.45	J	1.20	0.60	0.60	0.60	ND	0.40	0.20	0.10						
123478-HxCDD	0.1	ND	0.60	0.06	0.03	0.00	J	0.57	0.06	0.06	0.06	ND	0.30	0.03	0.02						
123678-HxCDD	0.1	J	1.50	0.15	0.15	0.15	J	1.90	0.19	0.19	0.19	J	0.54	0.05	0.05						
123789-HxCDD	0.1	J	2.00	0.20	0.20	0.20	J	1.90	0.19	0.19	0.19	ND	0.50	0.05	0.03						
1234678-HpCDD	0.01		22.00	0.22	0.22	0.22		22.60	0.23	0.23	0.23	J	4.00	0.04	0.04						
12346789-OCDD	0.001		139.00	0.14	0.14	0.14		140.00	0.14	0.14	0.14	B	26.00	0.03	0.03						
1368-TCDF	0	ND	0.20	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.30	0.00	0.00						
2378TCDF	0.1		2.50	0.25	0.25	0.25		2.20	0.22	0.22	0.22		2.90	0.29	0.29						
12378-PeCDF	0.05	J	1.50	0.08	0.08	0.08	ND	0.20	0.01	0.01	0.00	ND	0.30	0.02	0.01						
23478-PeCDF	0.5	J	1.50	0.75	0.75	0.75	J	1.50	0.75	0.75	0.75	J	1.30	0.65	0.65						
123478-HxCDF	0.1	J	2.70	0.27	0.27	0.27	J	2.70	0.27	0.27	0.27	J	1.80	0.18	0.18						
123678-HxCDF	0.1	ND	1.10	0.11	0.06	0.00	J	1.20	0.12	0.12	0.12	J	0.49	0.05	0.05						
234678-HxCDF	0.1	J	1.40	0.14	0.14	0.14	J	1.90	0.19	0.19	0.19	ND	0.60	0.06	0.03						
123789-HxCDF	0.1	J	0.39	0.04	0.04	0.04	J	0.43	0.04	0.04	0.04	ND	0.30	0.03	0.02						
1234678-HpCDF	0.01		13.10	0.13	0.13	0.13		13.60	0.14	0.14	0.14	J	3.10	0.03	0.03						
1234789-HpCDF	0.01	J	0.94	0.01	0.01	0.01	ND	0.60	0.01	0.00	0.00	ND	0.40	0.00	0.00						
12346789-OCDF	0.001		22.50	0.02	0.02	0.02		17.00	0.02	0.02	0.02	J	2.40	0.00	0.00						
nondetects = detection limit			TEQ=	3.66				TEQ=	4.02				TEQ=	2.11							
nondetects = 1/2 d.l.			teq=		3.57			teq=		4.01			teq=		1.72						
nondetects = zero			teq=			3.49		teq=			4.00		teq=								
Totals		Flags	Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number							
			pg/g					pg/g					pg/g								
TOTAL TCDD			3.9	3.0				5.4	3				0.7	1.0							
TOTAL PeCDD			4.1	4.0				3.6	3			ND	1.3								
TOTAL HxCDD			15.3	5.0				15.2	5				3.4	3.0							
TOTAL HpCDD			46.4	2.0				45.8	2				8.5	2.0							
TOTAL TCDF		X	52.3	10.0			X	96.9	11			X	53.5	7.0							
TOTAL PeCDF		X	34.2	11.0			X	58.1	8			X	27.2	6.0							
TOTAL HxCDF		X	21.5	9.0			X	29.5	10			X	8.3	6.0							
TOTAL HpCDF			28.2	4.0				26.7	3				5.1	2.0							
% Finer than #200 Sieve			NS					NS					NS								
% Total Organic Carbon			NS					NS					NS								
% Solids			NS					NS					NS								
Latitude			43 24 30.23712																		
Longitude			84 05 50.46183																		
Northing (MiGeoRef)			319353.166m																		
Easting (MiGeoRef)			657941.439m																		
Elevation (NAVD 1929 in feet)																					

TITABAWASSEE RIVER FLOOD PLAIN SOILS

11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES															
		SES 1-15							SES 2-1							SES 2-3	
		FINAL							FINAL							FINAL	
Analyte	TEF	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level		
1368-TCDD	0	0.00	ND	0.30	0.00	0.00	0.00	ND	3.30	0.00	0.00	0.00		2.90	0.00		
1379-TCDD	0	0.00	ND	0.30	0.00	0.00	0.00	ND	2.10	0.00	0.00	0.00		1.50	0.00		
2378-TCDD	1	0.00	ND	0.30	0.30	0.15	0.00		1.10	1.10	1.10	1.10	ND	0.40	0.40		
12378-PeCDD	0.5	0.00	ND	0.30	0.15	0.08	0.00	ND	1.00	0.50	0.25	0.00	ND	1.90	0.95		
123478-HxCDD	0.1	0.00	ND	0.30	0.03	0.02	0.00	J	1.10	0.11	0.11	0.11	J	0.91	0.09		
123678-HxCDD	0.1	0.05	ND	0.30	0.03	0.02	0.00	J	2.00	0.20	0.20	0.20	J	1.90	0.19		
123789-HxCDD	0.1	0.00	ND	0.30	0.03	0.02	0.00	J	2.90	0.29	0.29	0.29	ND	2.20	0.22		
1234678-HpCDD	0.01	0.04	J	0.92	0.01	0.01	0.01		40.60	0.41	0.41	0.41		33.00	0.33		
12346789-OCDD	0.001	0.03	JB	5.80	0.01	0.01	0.01		311.00	0.31	0.31	0.31		210.00	0.21		
1368-TCDF	0	0.00	ND	0.20	0.00	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND	0.30	0.00		
2378TCDF	0.1	0.29	ND	1.00	0.10	0.05	0.00		1.70	0.17	0.17	0.17	J	0.99	0.10		
12378-PeCDF	0.05	0.00	J	0.60	0.03	0.03	0.03	ND	0.40	0.02	0.01	0.00	ND	0.30	0.02		
23478-PeCDF	0.5	0.65	J	0.49	0.25	0.25	0.25	J	1.10	0.55	0.55	0.55	J	0.95	0.48		
123478-HxCDF	0.1	0.18	J	0.69	0.07	0.07	0.07	ND	2.40	0.24	0.12	0.00	J	1.90	0.19		
123678-HxCDF	0.1	0.05	ND	0.20	0.02	0.01	0.00	ND	1.10	0.11	0.06	0.00	J	0.88	0.09		
234678-HxCDF	0.1	0.00	ND	0.20	0.02	0.01	0.00	J	1.40	0.14	0.14	0.14	ND	1.20	0.12		
123789-HxCDF	0.1	0.00	ND	0.20	0.02	0.01	0.00	ND	0.50	0.05	0.03	0.00	ND	0.40	0.04		
1234678-HpCDF	0.01	0.03	J	2.40	0.02	0.02	0.02		14.30	0.14	0.14	0.14		10.80	0.11		
1234789-HpCDF	0.01	0.00	ND	0.30	0.00	0.00	0.00	J	0.98	0.01	0.01	0.01	ND	0.50	0.01		
12346789-OCDF	0.001	0.00	ND	1.60	0.00	0.00	0.00		30.90	0.03	0.03	0.03		12.50	0.01		
nondetects = detection limit				TEQ=	1.09				TEQ=	4.38				TEQ=	3.54		
nondetects = 1/2 d.l.				teq=		0.74			teq=		3.92			teq=			
nondetects = zero		1.32		teq=			0.38		teq=			3.46		teq=			
Totals			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number		
TOTAL TCDD			ND	0.3					1.1	1.0				4.3	2.0		
TOTAL PeCDD			ND	0.3					1.8	1.0				5.2	3.0		
TOTAL HxCDD			ND	0.3					22.6	6.0				16.7	5.0		
TOTAL HpCDD				1.6	2.0				81.2	2.0				66.4	2.0		
TOTAL TCDF				5.8	3.0			X	36.5	5.0			X	34.0	4.0		
TOTAL PeCDF				4.9	6.0			X	20.0	5.0				7.8	3.0		
TOTAL HxCDF				1.5	3.0			X	12.1	4.0			X	12.8	6.0		
TOTAL HpCDF				3.5	2.0				33.9	4.0				21.2	3.0		
% Finer than #200 Sieve				NS					NS					NS			
% Total Organic Carbon				NS					NS					NS			
% Solids				NS					NS					NS			
Latitude									43 24 30.09319								
Longitude									84 05 52.13361								
Northing (MiGeoRef)									319347.839m								
Easting (MiGeoRef)									657903.953m								
Elevation (NAVD 1929 in feet)																	

TITABAWASSEE RIVER FLOOD PLAIN SOILS

11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES													
		SES 2-6							SES 2-15						
		FINAL							FINAL						
Analyte	TEF	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g
1368-TCDD	0	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00		3.90
1379-TCDD	0	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00		1.80
2378-TCDD	1	0.20	0.00	ND	0.40	0.40	0.20	0.00	ND	0.20	0.20	0.10	0.00		1.20
12378-PeCDD	0.5	0.48	0.00	ND	0.50	0.25	0.13	0.00	ND	0.20	0.10	0.05	0.00	ND	1.20
123478-HxCDD	0.1	0.09	0.09	ND	0.40	0.04	0.02	0.00	ND	0.10	0.01	0.01	0.00	ND	1.00
123678-HxCDD	0.1	0.19	0.19	ND	0.40	0.04	0.02	0.00	ND	0.10	0.01	0.01	0.00	J	2.10
123789-HxCDD	0.1	0.11	0.00	ND	0.40	0.04	0.02	0.00	ND	0.10	0.01	0.01	0.00	J	2.20
1234678-HpCDD	0.01	0.33	0.33		3.40	0.03	0.03	0.03	J	0.70	0.01	0.01	0.01		26.10
12346789-OCDD	0.001	0.21	0.21		21.20	0.02	0.02	0.04	JB	5.60	0.01	0.01	0.01		190.00
1368-TCDF	0	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	J	0.56
2378TCDF	0.1	0.10	0.10	ND	0.30	0.03	0.02	0.00	ND	0.10	0.01	0.01	0.00		2.10
12378-PeCDF	0.05	0.01	0.00	ND	0.30	0.02	0.01	0.00	ND	0.10	0.01	0.00	0.00	ND	0.20
23478-PeCDF	0.5	0.48	0.48	ND	0.30	0.15	0.08	0.00	ND	0.10	0.05	0.03	0.00	ND	1.60
123478-HxCDF	0.1	0.19	0.19	J	0.39	0.04	0.04	0.04	ND	0.10	0.01	0.01	0.00	J	2.90
123678-HxCDF	0.1	0.09	0.09	ND	0.30	0.03	0.02	0.00	ND	0.10	0.01	0.01	0.00	J	0.91
234678-HxCDF	0.1	0.06	0.00	ND	0.30	0.03	0.02	0.00	ND	0.09	0.01	0.00	0.00	ND	1.10
123789-HxCDF	0.1	0.02	0.00	ND	0.30	0.03	0.02	0.00	ND	0.10	0.01	0.01	0.00	J	0.36
1234678-HpCDF	0.01	0.11	0.11	ND	1.60	0.02	0.01	0.00	J	0.39	0.00	0.00	0.00		12.40
1234789-HpCDF	0.01	0.00	0.00	ND	0.50	0.01	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.60
12346789-OCDF	0.001	0.01	0.01	J	1.30	0.00	0.00	0.00	J	0.37	0.00	0.00	0.00		15.80
nondetects = detection limit					TEQ=	1.17				TEQ=	0.45				TEQ=
nondetects = 1/2 d.l.		2.67			teq=		0.63			teq=		0.23			teq=
nondetects = zero			1.79		teq=			0.11		teq=			0.02		teq=
Totals				Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g
TOTAL TCDD					0.4				ND	0.20					6.9
TOTAL PeCDD					0.5				ND	0.20				X	2.9
TOTAL HxCDD					1.0	1.0			ND	0.10					15.5
TOTAL HpCDD					0.6	2.0				0.70	1.0				53.5
TOTAL TCDF				X	4.0	2.0			X	1.60				X	59.3
TOTAL PeCDF					2.3	2.0				0.55	1.0			X	20.5
TOTAL HxCDF					1.4	3.0				0.22	1.0			X	17.7
TOTAL HpCDF					1.4	1.0				0.39	1.0				24.1
% Finer than #200 Sieve					NS					NS					NS
% Total Organic Carbon					NS					NS					NS
% Solids					NS					NS					NS
Latitude															43 24 29.54323
Longitude															84 02 53.78963
Northing (MiGeoRef)															319329.997m
Easting (MiGeoRef)															657867.117m
Elevation (NAVD 1929 in feet)															

TITABAWASSEE RIVER FLOOD PLAIN SOILS

11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES															
		SES 3-1			SES 3-3					SES 3-6					SES		
		FINAL			FINAL					FINAL							
Analyte	TEF	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	
		detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	
1368-TCDD	0	0.00	0.00	0.00		4.10	0.00	0.00	0.00		2.80	0.00	0.00	0.00	ND	0.50	
1379-TCDD	0	0.00	0.00	0.00		1.80	0.00	0.00	0.00		1.60	0.00	0.00	0.00	ND	0.50	
2378-TCDD	1	1.20	1.20	1.20	ND	1.00	1.00	0.50	0.00	ND	0.90	0.90	0.45	0.00	ND	0.50	
12378-PeCDD	0.5	0.60	0.30	0.00	J	1.30	0.65	0.65	0.65	J	0.97	0.49	0.49	0.49	ND	0.60	
123478-HxCDD	0.1	0.10	0.05	0.00	J	1.00	0.10	0.10	0.10	ND	0.50	0.05	0.03	0.00	ND	0.50	
123678-HxCDD	0.1	0.21	0.21	0.21	J	2.10	0.21	0.21	0.21	J	1.30	0.13	0.13	0.13	ND	0.50	
123789-HxCDD	0.1	0.22	0.22	0.22	J	2.30	0.23	0.23	0.23	J	1.40	0.14	0.14	0.14	ND	0.50	
1234678-HpCDD	0.01	0.26	0.26	0.26		27.80	0.28	0.28	0.28		14.40	0.14	0.14	0.14	J	3.30	
12346789-OCDD	0.001	0.19	0.19	0.19		177.00	0.18	0.18	0.18		91.90	0.09	0.09	0.09		30.50	
1368-TCDF	0	0.00	0.00	0.00	ND	0.10	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.40	
2378TCDF	0.1	0.21	0.21	0.21		2.30	0.23	0.23	0.23		2.10	0.21	0.21	0.21	ND	0.40	
12378-PeCDF	0.05	0.01	0.01	0.00	ND	0.20	0.01	0.01	0.00	PR, ND	0.60	0.03	0.02	0.00	ND	0.40	
23478-PeCDF	0.5	0.80	0.40	0.00	J	1.50	0.75	0.75	0.75	J	1.10	0.55	0.55	0.55	ND	0.40	
123478-HxCDF	0.1	0.29	0.29	0.29	J	3.10	0.31	0.31	0.31	J	2.10	0.21	0.21	0.21	ND	0.50	
123678-HxCDF	0.1	0.09	0.09	0.09	J	1.10	0.11	0.11	0.11	J	0.76	0.08	0.08	0.08	ND	0.30	
234678-HxCDF	0.1	0.11	0.06	0.00	J	1.30	0.13	0.13	0.13	J	0.96	0.10	0.10	0.10	ND	0.30	
123789-HxCDF	0.1	0.04	0.04	0.04	J	0.69	0.07	0.07	0.07	ND	0.30	0.03	0.02	0.00	ND	0.50	
1234678-HpCDF	0.01	0.12	0.12	0.12		13.50	0.14	0.14	0.14		8.40	0.08	0.08	0.08	J	1.80	
1234789-HpCDF	0.01	0.01	0.00	0.00	J	0.86	0.01	0.01	0.01	J	0.61	0.01	0.01	0.01	ND	0.60	
12346789-OCDF	0.001	0.02	0.02	0.02		15.40	0.02	0.02	0.02	J	7.50	0.01	0.01	0.01	ND	2.10	
nondetects = detection limit		4.47				TEQ=	4.41				TEQ=	3.24				TEQ=	
nondetects = 1/2 d.l.			3.66			teq=		3.91			teq=		2.74			teq=	
nondetects = zero				2.85		teq=			3.40		teq=			2.23		teq=	
Totals		Number			Flags	Concentration	Number				Flags	Concentration	Number			Flags	Concentration
						pg/g					pg/g					pg/g	
TOTAL TCDD		3.0				7.8	4.0				6.2	4.0			ND	0.5	
TOTAL PeCDD		2.0			Q	5.5	4.0				2.2	2.0			ND	0.6	
TOTAL HxCDD		4.0				20.6	7.0				14.6	6.0				0.86	
TOTAL HpCDD		2.0				56.2	2.0				28.2	2.0				6.3	
TOTAL TCDF		10.0			X	60.3	10.0			X	25.4	8.0				2.4	
TOTAL PeCDF		5.0			X	33.3	7.0			X	18.5	9.0			ND	1.3	
TOTAL HxCDF		8.0			X	22.7	10.0				12.4	8.0				1.4	
TOTAL HpCDF		3.0				27.7	4.0				15.7	3.0				3.7	
% Finer than #200 Sieve						NS					NS					NS	
% Total Organic Carbon						NS					NS					NS	
% Solids						NS					NS					NS	
Latitude																	
Longitude																	
Northing (MiGeoRef)																	
Easting (MiGeoRef)																	
Elevation (NAVD 1929 in feet)																	

TITABAWASSEE RIVER FLOOD PLAIN SOILS

11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES													
		6-15			SES 4-1					SES 4-3					
Analyte	TEF	<i>FINAL</i> nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	<i>FINAL</i> nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags	Concentration pg/g	<i>FINAL</i> nondetect detection level	nondetect 1/2 d.l.	nondetect zero	Flags
1368-TCDD	0	0.00	0.00	0.00	J	0.76	0.00	0.00	0.00	J	0.65	0.00	0.00	0.00	ND
1379-TCDD	0	0.00	0.00	0.00	J	0.44	0.00	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND
2378-TCDD	1	0.50	0.25	0.00	ND	0.30	0.30	0.15	0.00	ND	0.40	0.40	0.20	0.00	ND
12378-PeCDD	0.5	0.30	0.15	0.00	ND	0.30	0.15	0.08	0.00	ND	0.40	0.20	0.10	0.00	ND
123478-HxCDD	0.1	0.05	0.03	0.00	J	0.30	0.03	0.03	0.03	ND	0.40	0.04	0.02	0.00	ND
123678-HxCDD	0.1	0.05	0.03	0.00	ND	0.70	0.07	0.04	0.00	ND	0.40	0.04	0.02	0.00	ND
123789-HxCDD	0.1	0.05	0.03	0.00	J	0.71	0.07	0.07	0.07	ND	0.40	0.04	0.02	0.00	ND
1234678-HpCDD	0.01	0.03	0.03	0.03		9.20	0.09	0.09	0.09	J	4.00	0.04	0.04	0.04	J
12346789-OCDD	0.001	0.03	0.03	0.03		56.50	0.06	0.06	0.06		29.90	0.03	0.03	0.03	J
1368-TCDF	0	0.00	0.00	0.00	ND	0.20	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND
2378TCDF	0.1	0.04	0.02	0.00		10.80	1.08	1.08	1.08		4.00	0.40	0.40	0.40	
12378-PeCDF	0.05	0.02	0.01	0.00		7.20	0.36	0.36	0.36	PRX	4.70	0.24	0.24	0.24	PRJ
23478-PeCDF	0.5	0.20	0.10	0.00		5.10	2.55	2.55	2.55	J	1.90	0.95	0.95	0.95	J
123478-HxCDF	0.1	0.05	0.03	0.00		5.70	0.57	0.57	0.57	J	2.00	0.20	0.20	0.20	J
123678-HxCDF	0.1	0.03	0.02	0.00	J	1.30	0.13	0.13	0.13	ND	0.50	0.05	0.03	0.00	J
234678-HxCDF	0.1	0.03	0.02	0.00	J	0.95	0.10	0.10	0.10	J	0.36	0.04	0.04	0.04	ND
123789-HxCDF	0.1	0.05	0.03	0.00	ND	0.20	0.02	0.01	0.00	ND	0.40	0.04	0.02	0.00	ND
1234678-HpCDF	0.01	0.02	0.02	0.02		11.10	0.11	0.11	0.11		8.90	0.09	0.09	0.09	J
1234789-HpCDF	0.01	0.01	0.00	0.00	J	0.63	0.01	0.01	0.01	ND	0.50	0.01	0.00	0.00	ND
12346789-OCDF	0.001	0.00	0.00	0.00	J	8.20	0.01	0.01	0.01	J	7.40	0.01	0.01	0.01	J
nondetects = detection limit		1.46				TEQ=	5.70				TEQ=	2.80			
nondetects = 1/2 d.l.			0.77			teq=		5.43			teq=		2.39		
nondetects = zero				0.08		teq=			5.16		teq=			1.99	
Totals		Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags
TOTAL TCDD						1.20	2.0				0.65	1.0			ND
TOTAL PeCDD					ND	0.30				ND	0.40				ND
TOTAL HxCDD		1.0				6.20	5.0				1.70	2.0			ND
TOTAL HpCDD		2.0				18.60	2.0				7.00	2.0			
TOTAL TCDF		2.0				33.10	11.0			X	16.80	6.0			X
TOTAL PeCDF						23.50	8.0			X	11.80	7.0			
TOTAL HxCDF		2.0				14.30	7.0				7.80	7.0			
TOTAL HpCDF		2.0				20.50	4.0				15.30	2.0			
% Finer than #200 Sieve						NS					NS				
% Total Organic Carbon						NS					NS				
% Solids						NS					NS				
Latitude						43 24 28.39358									
Longitude						84 02 56.44961									
Northing (MiGeoRef)						319293.127m									
Easting (MiGeoRef)						657808.143m									
Elevation (NAVD 1929 in feet)															

TITTABAWASSEE RIVER FLOOD PLAIN SOILS

11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES														
		SES 4-6				SES 4-15					SES 5-1					
Analyte	TEF	Concentration pg/g	FINAL			Flags	Concentration pg/g	FINAL			Flags	Concentration pg/g	FINAL			Flags
			nondetect detection level	nondetect 1/2 d.l.	nondetect zero			nondetect detection level	nondetect 1/2 d.l.	nondetect zero			nondetect detection level	nondetect 1/2 d.l.	nondetect zero	
1368-TCDD	0	0.30	0.00	0.00	0.00	ND	0.40	0.00	0.00	0.00		1.70	0.00	0.00	0.00	
1379-TCDD	0	0.30	0.00	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND	0.70	0.00	0.00	0.00	
2378-TCDD	1	0.30	0.30	0.15	0.00	ND	0.40	0.40	0.20	0.00	ND	0.70	0.70	0.35	0.00	
12378-PeCDD	0.5	0.30	0.15	0.08	0.00	ND	0.40	0.20	0.10	0.00	ND	0.80	0.40	0.20	0.00	
123478-HxCDD	0.1	0.20	0.02	0.01	0.00	ND	0.30	0.03	0.02	0.00	ND	0.60	0.06	0.03	0.00	J
123678-HxCDD	0.1	0.20	0.02	0.01	0.00	ND	0.30	0.03	0.02	0.00	J	1.00	0.10	0.10	0.10	J
123789-HxCDD	0.1	0.20	0.02	0.01	0.00	ND	0.30	0.03	0.02	0.00	J	1.30	0.13	0.13	0.13	J
1234678-HpCDD	0.01	0.90	0.01	0.01	0.01	ND	0.50	0.01	0.00	0.00		19.30	0.19	0.19	0.19	
12346789-OCDD	0.001	7.30	0.01	0.01	0.01	J	2.00	0.00	0.00	0.00		116.00	0.12	0.12	0.12	
1368-TCDF	0	0.20	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.50	0.00	0.00	0.00	ND
2378TCDF	0.1	2.30	0.23	0.23	0.23	ND	0.30	0.03	0.02	0.00		1.60	0.16	0.16	0.16	
12378-PeCDF	0.05	1.80	0.09	0.09	0.09	ND	0.30	0.02	0.01	0.00	ND	1.50	0.08	0.04	0.00	PR
23478-PeCDF	0.5	0.96	0.48	0.48	0.48	ND	0.30	0.15	0.08	0.00	J	0.84	0.42	0.42	0.42	J
123478-HxCDF	0.1	1.10	0.11	0.11	0.11	ND	0.20	0.02	0.01	0.00	J	1.70	0.17	0.17	0.17	
123678-HxCDF	0.1	0.25	0.03	0.03	0.03	ND	0.20	0.02	0.01	0.00	ND	0.40	0.04	0.02	0.00	J
234678-HxCDF	0.1	0.20	0.02	0.01	0.00	ND	0.20	0.02	0.01	0.00	ND	0.40	0.04	0.02	0.00	J
123789-HxCDF	0.1	0.20	0.02	0.01	0.00	ND	0.30	0.03	0.02	0.00	ND	0.60	0.06	0.03	0.00	ND
1234678-HpCDF	0.01	2.30	0.02	0.02	0.02	ND	0.30	0.00	0.00	0.00		7.70	0.08	0.08	0.08	
1234789-HpCDF	0.01	0.30	0.00	0.00	0.00	ND	0.40	0.00	0.00	0.00	ND	0.80	0.01	0.00	0.00	J
12346789-OCDF	0.001	1.90	0.00	0.00	0.00	ND	0.50	0.00	0.00	0.00	J	9.50	0.01	0.01	0.01	J
nondetects = detection limit		TEQ=	1.53				TEQ=	0.99				TEQ=	2.76			
nondetects = 1/2 d.l.		teq=		1.25			teq=		0.50			teq=		2.07		
nondetects = zero		teq=			0.98		teq=			0.00		teq=			1.38	
Totals		Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags	Concentration pg/g	Number			Flags
TOTAL TCDD		0.3				ND	0.4					1.7	1.0			ND
TOTAL PeCDD		0.3				ND	0.4				ND	1.9				
TOTAL HxCDD		0.2				ND	0.3					10.5	5.0			
TOTAL HpCDD		1.6	2.0			ND	0.5					35.9	2.0			
TOTAL TCDF		6.8	4.0			ND	0.3				X	7.0	4.0			X
TOTAL PeCDF		3.1	3.0			ND	0.3					5.3	3.0			
TOTAL HxCDF		2.2	4.0			ND	0.2					7.5	5.0			
TOTAL HpCDF		3.8	2.0			ND	0.3					15.1	2.0			
% Finer than #200 Sieve		NS					NS					NS				
% Total Organic Carbon		NS					NS					NS				
% Solids		NS					NS					NS				
Latitude												43 24 30.09365				
Longitude												84 03 00.82655				
Northing (MiGeoRef)												319343.237m				
Easting (MiGeoRef)												657708.487m				
Elevation (NAVD 1929 in feet)																

TITABAWASSEE RIVER FLOOD PLAIN SOILS

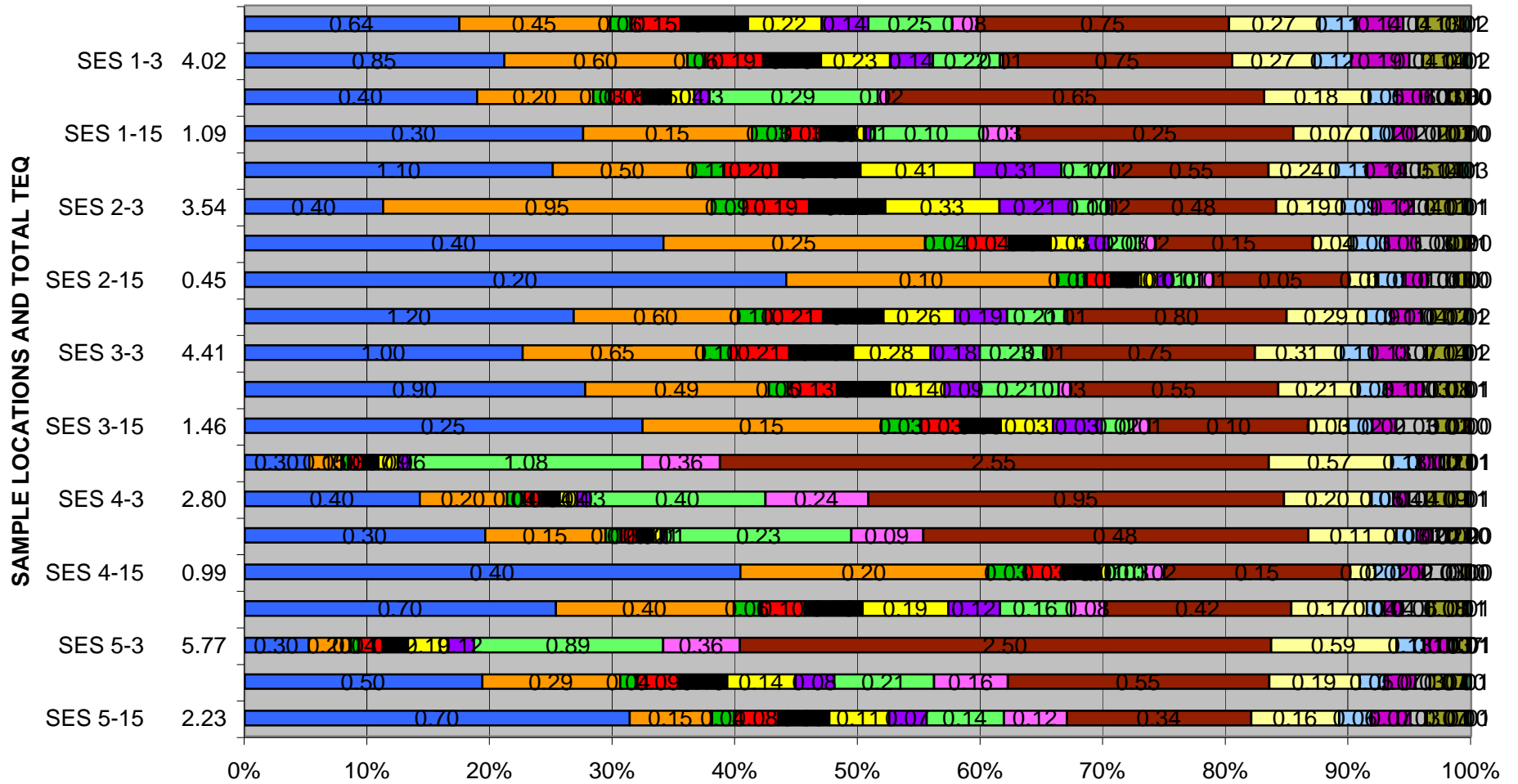
11/21/02		PHASE II - SHIELDS ELEMENTARY SCHOOL, SAGINAW COUNTY SOIL SAMPLES												
		SES 5-3				SES 5-6				SES 5-15				
		FINAL				FINAL				FINAL				
Analyte	TEF	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect	nondetect	Flags	Concentration	nondetect	nondetect
		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.	zero		pg/g	detection level	1/2 d.l.
1368-TCDD	0	1.30	0.00	0.00	0.00		2.20	0.00	0.00	0.00		1.80	0.00	0.00
1379-TCDD	0	0.60	0.00	0.00	0.00	J	0.95	0.00	0.00	0.00	J	0.82	0.00	0.00
2378-TCDD	1	0.30	0.30	0.30	0.30	ND	0.50	0.50	0.25	0.00	ND	0.70	0.70	0.35
12378-PeCDD	0.5	0.40	0.20	0.20	0.20	J	0.58	0.29	0.29	0.29	ND	0.30	0.15	0.08
123478-HxCDD	0.1	0.38	0.04	0.04	0.04	J	0.35	0.04	0.04	0.04	ND	0.40	0.04	0.02
123678-HxCDD	0.1	1.10	0.11	0.11	0.11	ND	0.90	0.09	0.05	0.00	J	0.80	0.08	0.08
123789-HxCDD	0.1	1.20	0.12	0.12	0.12	J	1.00	0.10	0.10	0.10	J	0.93	0.09	0.09
1234678-HpCDD	0.01	18.90	0.19	0.19	0.19		14.40	0.14	0.14	0.14		10.90	0.11	0.11
12346789-OCDD	0.001	122.00	0.12	0.12	0.12		81.10	0.08	0.08	0.08		68.20	0.07	0.07
1368-TCDF	0	0.20	0.00	0.00	0.00	ND	0.30	0.00	0.00	0.00	ND	0.20	0.00	0.00
2378TCDF	0.1	8.90	0.89	0.89	0.89		2.10	0.21	0.21	0.21		1.40	0.14	0.14
12378-PeCDF	0.05	7.20	0.36	0.36	0.36	PRX	3.10	0.16	0.16	0.16	PRX	2.30	0.12	0.12
23478-PeCDF	0.5	5.00	2.50	2.50	2.50	J	1.10	0.55	0.55	0.55	J	0.67	0.34	0.34
123478-HxCDF	0.1	5.90	0.59	0.59	0.59	J	1.90	0.19	0.19	0.19	J	1.60	0.16	0.16
123678-HxCDF	0.1	1.30	0.13	0.13	0.13	J	0.53	0.05	0.05	0.05	J	0.59	0.06	0.06
234678-HxCDF	0.1	1.10	0.11	0.11	0.11	J	0.65	0.07	0.07	0.07	J	0.70	0.07	0.07
123789-HxCDF	0.1	0.30	0.03	0.02	0.00	ND	0.30	0.03	0.02	0.00	ND	0.30	0.03	0.02
1234678-HpCDF	0.01	6.70	0.07	0.07	0.07		7.00	0.07	0.07	0.07		7.00	0.07	0.07
1234789-HpCDF	0.01	0.65	0.01	0.01	0.01	ND	0.40	0.00	0.00	0.00	ND	0.40	0.00	0.00
12346789-OCDF	0.001	7.30	0.01	0.01	0.01		12.60	0.01	0.01	0.01	J	6.60	0.01	0.01
nondetects = detection limit		TEQ=	5.77				TEQ=	2.58				TEQ=	2.23	
nondetects = 1/2 d.l.		teq=		5.75			teq=		2.27			teq=		1.77
nondetects = zero		teq=			5.74		teq=			1.96		teq=		
Totals		Concentration	Number			Flags	Concentration	Number			Flags	Concentration	Number	
		pg/g					pg/g					pg/g		
TOTAL TCDD		2.0					3.1	2.0				2.60	2.0	
TOTAL PeCDD		2.3	3.0				1.4	2.0				2.00	2.0	
TOTAL HxCDD		11.4	6.0				8.4	5.0				8.70	5.0	
TOTAL HpCDD		40.7	2.0				26.3	2.0				19.90	2.0	
TOTAL TCDF		28.9	7.0			X	23.4	6.0			X	18.80	5.0	
TOTAL PeCDF		28.9	11.0			X	14.7	10.0			X	9.40	6.0	
TOTAL HxCDF		14.6	8.0				9.1	8.0				6.10	7.0	
TOTAL HpCDF		13.8	3.0				15.6	3.0				13.10	2.0	
% Finer than #200 Sieve		NS					NS					NS		
% Total Organic Carbon		NS					NS					NS		
% Solids		NS					NS					NS		
Latitude														
Longitude														
Northing (MiGeoRef)														
Easting (MiGeoRef)														
Elevation (NAVD 1929 in feet)														

TITTABAWASSEE RIVER FLOOD PLAIN SOILS

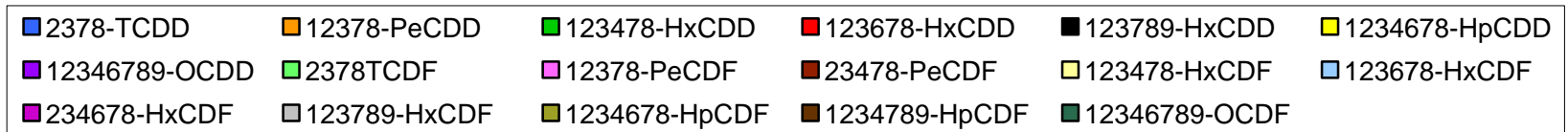
11/21/02		
Analyte	TEF	nondetect
		zero
1368-TCDD	0	0.00
1379-TCDD	0	0.00
2378-TCDD	1	0.00
12378-PeCDD	0.5	0.00
123478-HxCDD	0.1	0.00
123678-HxCDD	0.1	0.08
123789-HxCDD	0.1	0.09
1234678-HpCDD	0.01	0.11
12346789-OCDD	0.001	0.07
1368-TCDF	0	0.00
2378TCDF	0.1	0.14
12378-PeCDF	0.05	0.12
23478-PeCDF	0.5	0.34
123478-HxCDF	0.1	0.16
123678-HxCDF	0.1	0.06
234678-HxCDF	0.1	0.07
123789-HxCDF	0.1	0.00
1234678-HpCDF	0.01	0.07
1234789-HpCDF	0.01	0.00
12346789-OCDF	0.001	0.01
nondetects = detection limit		
<i>nondetects = 1/2 d.l.</i>		
nondetects = zero		1.31
Totals		
TOTAL TCDD		
TOTAL PeCDD		
TOTAL HxCDD		
TOTAL HpCDD		
TOTAL TCDF		
TOTAL PeCDF		
TOTAL HxCDF		
TOTAL HpCDF		
<b>% Finer than #200 Sieve</b>		
<b>% Total Organic Carbon</b>		
<b>% Solids</b>		
Latitude		
Longitude		
Northing (MiGeoRef)		
Easting (MiGeoRef)		
Elevation (NAVD 1929 in feet)		



# TITTABAWASSEE RIVER PROJECT - SHIELDS ELM. SCHOOL, SAGINAW COUNTY SOIL SAMPLES



NON-DETECT = DETECTION LEVEL



CHIPPEWA RIVER									PINE RIVER Part data 2												
	2-15 7.42	2-6 6.11	2-3 3.99	1-15 10.75	1-6 7.54	1-3 5.22				2-15 12.34	2-6 11.07	2-3 8.10	1-15 8.82	1-6 2.95	1-3 3.01						
2378-TCDD	2.00	1.70	1.20	3.50	2.40	1.50				2378-TCDD	5.00	5.00	3.40	3.30	0.89	0.93					
12378-PeCDD	0.65	0.95	0.32	1.05	0.70	0.55				12378-PeCDD	1.45	1.25	1.25	0.90	0.35	0.40					
123478-HxCDD	0.09	0.14	0.05	0.13	0.09	0.07				123478-HxCDD	0.18	0.13	0.15	0.11	0.05	0.05					
123678-HxCDD	0.24	0.23	0.10	0.35	0.22	0.13				123678-HxCDD	0.67	0.47	0.39	0.38	0.14	0.14					
123789-HxCDD	0.22	0.29	0.10	0.29	0.18	0.13				123789-HxCDD	0.48	0.34	0.40	0.35	0.12	0.13					
1234678-HpCDD	0.21	0.15	0.10	0.27	0.23	0.16				1234678-HpCDD	0.69	0.55	0.40	0.52	0.19	0.18					
12346789-OCDD	0.13	0.10	0.08	0.18	0.19	0.11				12346789-OCDD	0.56	0.45	0.32	0.43	0.16	0.15					
2378TCDF	0.81	0.36	0.51	1.01	0.82	0.52				2378TCDF	0.44	0.41	0.15	0.33	0.13	0.05					
12378-PeCDF	0.26	0.18	0.15	0.35	0.23	0.16				12378-PeCDF	0.07	0.08	0.11	0.09	0.04	0.04					
23478-PeCDF	1.70	1.05	0.90	2.25	1.60	1.10				23478-PeCDF	1.00	0.80	0.04	0.85	0.29	0.35					
123478-HxCDF	0.49	0.31	0.23	0.63	0.39	0.33				123478-HxCDF	0.61	0.62	0.49	0.65	0.24	0.23					
123678-HxCDF	0.20	0.19	0.09	0.25	0.16	0.16				123678-HxCDF	0.26	0.25	0.25	0.26	0.10	0.11					
234678-HxCDF	0.16	0.16	0.09	0.25	0.16	0.15				234678-HxCDF	0.36	0.27	0.26	0.23	0.09	0.09					
123789-HxCDF	0.05	0.21	0.03	0.06	0.06	0.07				123789-HxCDF	0.10	0.04	0.20	0.05	0.04	0.03					
1234678-HpCDF	0.19	0.07	0.04	0.16	0.09	0.06				1234678-HpCDF	0.41	0.35	0.25	0.31	0.12	0.11					
1234789-HpCDF	0.01	0.02	0.01	0.02	0.00	0.01				1234789-HpCDF	0.03	0.02	0.03	0.02	0.01	0.01					
12346789-OCDF	0.02	0.01	0.01	0.02	0.01	0.02				12346789-OCDF	0.05	0.04	0.03	0.04	0.01	0.01					
SANFORD																					
	2-15 2.06	2-6 4.81	2-3 2.87	1-15 0.91	1-6 3.10	1-3 3.43															
2378-TCDD	0.90	2.10	1.20	0.30	1.20	1.10															
12378-PeCDD	0.35	0.85	0.50	0.15	0.50	0.65			LIVESTOCK FARM												
123478-HxCDD	0.07	0.11	0.06	0.03	0.07	0.09				6-15 32.61	6-6 28.77	6-3 22.09	5-15 2.14	5-6 3.38	5-3 5.33	4-15 0.72	4-6 1.14	4-3 3.49	3-15 0.97	3-6 5.00	
123678-HxCDD	0.06	0.24	0.17	0.05	0.17	0.16			2378-TCDD	4.80	2.30	1.40	0.20	0.34	0.60	0.20	0.10		0.64	0.30	1.90
123789-HxCDD	0.06	0.25	0.14	0.06	0.17	0.23			12378-PeCDD	1.80	0.80	0.70	0.05	0.15	0.21	0.05	0.05		0.20	0.10	0.38
1234678-HpCDD	0.06	0.21	0.13	0.04	0.14	0.13			123478-HxCDD	0.25	0.11	0.12	0.02	0.03	0.04	0.02	0.03		0.05	0.02	0.07
12346789-OCDD	0.04	0.16	0.09	0.03	0.10	0.08			123678-HxCDD	0.72	0.48	0.31	0.02	0.07	0.10	0.02	0.01		0.11	0.03	0.19
2378TCDF	0.07	0.06	0.05	0.04	0.07	0.05			123789-HxCDD	0.54	0.26	0.23	0.02	0.06	0.09	0.02	0.02		0.12	0.02	0.16
12378-PeCDF	0.03	0.03	0.02	0.01	0.02	0.05			1234678-HpCDD	0.95	0.99	0.47	0.02	0.10	0.15	0.02	0.02		0.17	0.03	0.21
23478-PeCDF	0.20	0.33	0.22	0.08	0.30	0.40			12346789-OCDD	0.75	0.98	0.39	0.02	0.09	0.14	0.02	0.02		0.15	0.02	0.14
123478-HxCDF	0.05	0.17	0.10	0.04	0.11	0.12			2378TCDF	4.88	5.59	4.41	0.46	0.56	1.14	0.10	0.25		0.52	0.08	0.45
123678-HxCDF	0.05	0.08	0.05	0.02	0.06	0.09			12378-PeCDF	1.60	1.68	1.29	0.16	0.19	0.22	0.03	0.06		0.15	0.03	0.15
234678-HxCDF	0.04	0.10	0.07	0.02	0.08	0.09			23478-PeCDF	10.60	10.40	8.80	0.85	1.15	1.90	0.15	0.45		0.85	0.19	0.80
123789-HxCDF	0.06	0.02	0.01	0.02	0.04	0.16			123478-HxCDF	2.78	2.62	2.17	0.20	0.31	0.36	0.04	0.08		0.23	0.05	0.24
1234678-HpCDF	0.02	0.09	0.05	0.02	0.06	0.04			123678-HxCDF	0.83	0.73	0.60	0.05	0.09	0.11	0.01	0.02		0.07	0.02	0.08
1234789-HpCDF	0.01	0.01	0.00	0.00	0.00	0.01			234678-HpCDD	0.70	0.52	0.40	0.03	0.06	0.08	0.01	0.01		0.07	0.02	0.08
12346789-OCDF	0.00	0.01	0.01	0.00	0.01	0.01			123789-HxCDF	0.05	0.04	0.04	0.02	0.01	0.01	0.02	0.01		0.02	0.02	0.02
									1234678-HpCDD	1.16	1.08	0.65	0.03	0.14	0.17	0.01	0.01		0.11	0.03	0.12
									1234789-HpCDD	0.05	0.05	0.03	0.00	0.01	0.01	0.00	0.00		0.01	0.00	0.01
									12346789-OCDD	0.15	0.15	0.08	0.00	0.02	0.02	0.00	0.00		0.02	0.00	0.01
19 RIVERSIDE DRIVE																					
																			5-1 80.84	4-1 45.63	
																			2378-TCDD	0.62	0.60
																			12378-PeCDD	0.50	0.35
CROPLAND																					
	5-15 0.25	5-6 1.25	5-3 0.76	4-15 2.03	4-6 1.50	4-3 1.94	3-15 22.30	3-6 30.44	3-3 48.57	2-15 7.05	2-6 21.70	2-3 21.47	1-15 19.20	1-6 20.28	1-3 19.53						
2378-TCDD	0.09	0.20	0.20	0.42	0.03	0.40	0.28	0.50	0.74	0.20	0.60	0.71	0.60	0.52	0.60				123478-HxCDD	0.09	0.08
12378-PeCDD	0.03	0.20	0.07	0.05	0.09	0.03	0.20	0.30	0.55	0.10	0.35	0.45	0.24	0.39	0.30				123678-HxCDD	0.29	0.10
																			123789-HxCDD	0.21	0.14



123789-HxCDF	1.49	0.53	0.91	0.78	6.25	3.29	2.68	1.88	5.0	hart data	2.03	1.98						
1234678-HpCDF	21.10	6.26	6.45	6.67	13.50	12.50	17	16.4	13.00	8.96	3.64	4.6						
1234789-HpCDF	1.95	0.45	0.64	0.52	3.46	1.84	1.42	1.36	1.89	1.38	0.556	0.715						
12346789-OCDF	7.24	1.75	1.84	1.79	4.68	4.48	3.39	3.54	1.38	0.93	0.404	0.586						

EGGS FROM 19 RIVERSIDE DRIVE										chart data 2					EMERSON PARK								
		EGG 4	EGG 3	EGG 2	EGG 1							3-15	3-6	3-3	3-1	2-15							
		15.83	41.47	42.34	48.34							5.90	21.67	19.70	14.60	102.12							
		2378-TCDD	0.09	0.33	0.30	0.30							2378-TCDD	1.40	5.20	6.20	3.90	17.10					
		12378-PeCDD	0.25	0.46	0.40	0.43							12378-PeCDD	0.50	2.10	2.25	1.60	4.65					
		123478-HxCDD	0.05	0.07	0.10	0.08							123478-HxCDD	0.09	0.43	0.43	0.23	0.59					
		123678-HxCDD	0.10	0.19	0.24	0.22							123678-HxCDD	0.31	1.80	1.06	0.73	1.82					
		123789-HxCDD	0.07	0.11	0.14	0.12							123789-HxCDD	0.23	1.31	1.02	0.63	1.35					
		1234678-HpC	0.03	0.05	0.07	0.05							1234678-HpCDD	0.39	2.62	1.29	1.10	2.27					
		12346789-OC	0.01	0.01	0.01	0.01							12346789-OCDD	0.34	2.41	1.07	0.87	1.84					
		2378TCDF	4.32	11.10	11.40	12.90							2378TCDF	0.26	0.79	0.78	0.50	9.18					
		12378-PeCDF	1.16	3.14	3.30	3.64							12378-PeCDF	0.13	0.20	0.30	0.00	4.61					
		23478-PeCDF	8.65	22.75	22.85	27.00							23478-PeCDF	1.00	1.80	2.10	2.35	27.20					
		123478-HxCDF	0.79	2.37	2.55	2.62							123478-HxCDF	0.40	1.01	1.09	0.84	21.70					
		123678-HxCDF	0.19	0.60	0.63	0.65							123678-HxCDF	0.19	0.45	0.54	0.39	3.32					
		234678-HxCDF	0.07	0.21	0.22	0.21							234678-HxCDF	0.25	0.58	0.62	0.61	2.42					
		123789-HxCDF	0.03	0.05	0.08	0.07							123789-HxCDF	0.01	0.04	0.33	0.00	0.31					
		1234678-HpCDF	0.02	0.04	0.05	0.05							1234678-HpCDF	0.36	0.76	0.47	0.44	2.69					
		1234789-HpC	0.00	0.00	0.01	0.00							1234789-HpCDF	0.01	0.04	0.06	0.00	0.45					
		12346789-OC	0.00	0.00	0.00	0.00							12346789-OCDF	0.03	0.13	0.08	0.07	0.62					
										SANFORD													
												2-15	2-6	4.81	2-3	2.87	1-15	1-6	3.10	1-3	3.43		
												2.06					0.91						
												2378-TCDD	0.90	2.10	1.20	0.30	1.20	1.10					
												12378-PeCDD	0.35	0.85	0.50	0.15	0.50	0.65					
3-3	2-15	2-6	3.34	2-3	1-15	1-6	1-3						123478-HxCDD	0.07	0.11	0.06	0.03	0.07	0.09				
3.46	0.46			4.28	0.81	2.25	1.87																
0.84	0.10	1.40	1.50	0.30	0.60	0.50						123678-HxCDD	0.06	0.24	0.17	0.05	0.17	0.16					
0.30	0.05	0.40	0.48	0.10	0.30	0.25						123789-HxCDD	0.06	0.25	0.14	0.06	0.17	0.23					
0.06	0.01	0.07	0.09	0.03	0.07	0.06						1234678-HpCDD	0.06	0.21	0.13	0.04	0.14	0.13					
0.13	0.01	0.15	0.20	0.02	0.10	0.06						12346789-OCDD	0.04	0.16	0.09	0.03	0.10	0.08					
0.14	0.01	0.13	0.19	0.02	0.07	0.06						2378TCDF	0.07	0.06	0.05	0.04	0.07	0.05					
0.18	0.01	0.17	0.30	0.02	0.13	0.10						12378-PeCDF	0.03	0.03	0.02	0.01	0.02	0.05					
0.13	0.01	0.11	0.23	0.01	0.09	0.07						23478-PeCDF	0.20	0.33	0.22	0.08	0.30	0.40					
0.36	0.08	0.12	0.22	0.08	0.19	0.18						123478-HxCDF	0.05	0.17	0.10	0.04	0.11	0.12					
0.11	0.01	0.04	0.07	0.03	0.06	0.04						123678-HxCDF	0.05	0.08	0.05	0.02	0.06	0.09					
0.75	0.11	0.35	0.50	0.10	0.30	0.25						234678-HxCDF	0.04	0.10	0.07	0.02	0.08	0.09					
0.19	0.03	0.14	0.17	0.03	0.11	0.10						123789-HxCDF	0.06	0.02	0.01	0.02	0.04	0.16					
0.08	0.01	0.06	0.08	0.02	0.05	0.05						1234678-HpCDF	0.02	0.09	0.05	0.02	0.06	0.04					
0.08	0.01	0.08	0.10	0.02	0.05	0.03						1234789-HpCDF	0.01	0.01	0.00	0.00	0.00	0.011					
0.01	0.01	0.01	0.02	0.02	0.06	0.06						12346789-OCDF	0.00	0.01	0.01	0.00	0.01	0.01					
0.09	0.01	0.09	0.12	0.01	0.07	0.05																	
0.00	0.00	0.01	0.01	0.00	0.01	0.01																	
0.01	0.00	0.01	0.03	0.00	0.01	0.01																	
										3-6					3-3								
												3-1	2-15	2-6	2-3	1-15	1-6	1-3					
												1370.20	1063.01	449.12	141.23	100.88	238.10	945.69	531.01	775.96			
												3.40	3.00	1.30	1.20	0.70	0.78	2.90	1.70	2.00			
												5.05	5.85	2.00	1.55	0.85	1.25	4.55	1.65	2.25			
												0.59	0.69	0.24	0.29	0.17	0.21	0.58	0.20	0.28			
												2.51	2.97	1.06	0.94	0.54	0.63	3.96	1.13	1.36			
												1.36	1.54	0.59	0.85	0.47	0.49	1.41	0.54	0.66			















IMERMAN PARK 1-5

	5-15	5-6	5-3	4-15	4-6	4-3	3-15	3-6
	641.82	621.73	800.53	669.89	975.70	607.44	1050.09	945.04
2378-TCDD	3.10	2.60	7.20	3.80	8.30	5.70	3.00	7.60
12378-PeCDD	2.30	2.25	3.95	4.15	4.85	6.30	1.25	2.35
123478-HxCDD	0.28	0.44	0.84	0.56	0.70	0.89	0.21	0.46
123678-HxCDD	2.22	1.83	4.76	2.50	2.96	3.22	0.95	2.23
123789-HxCDD	0.89	0.97	1.85	1.31	1.74	2.21	0.48	1.14
1234678-HpCDD	3.58	3.75	13.80	4.13	5.35	4.87	1.99	4.54
12346789-OCDD	2.81	3.48	10.25	3.23	2.30	3.21	2.47	3.31
2378TCDF	151.00	130.00	185.00	119.00	105.00	125.00	252.00	203.00
12378-PeCDF	50.50	52.50	61.00	58.50	96.50	51.50	90.00	76.50
23478-PeCDF	323.00	321.50	389.00	355.50	575.00	308.00	560.00	520.00
123478-HxCDF	66.80	68.50	74.10	75.50	116.00	62.80	93.40	79.90
123678-HxCDF	16.90	16.00	18.00	19.60	28.20	15.40	22.90	20.90
234678-HxCDF	9.22	9.01	10.90	10.90	16.30	8.90	13.00	12.20
123789-HxCDF	1.10	1.18	1.35	1.36	2.04	0.99	2.38	1.90
1234678-HpCDF	6.47	6.14	13.40	8.08	8.33	6.75	4.85	7.31
1234789-HpCDF	0.67	0.57	0.94	0.66	0.84	0.56	0.61	0.67
12346789-OCDF	0.98	1.01	4.19	1.11	1.29	1.14	0.61	1.03

IMERMAN PARK 6-10

	10-15	10-6	10-3	10-1	9-6	9-3	8-15	8-6
	441.92	458.97	314.05	551.52	626.57	235.00	391.74	1033.01
2378-TCDD	6.20	4.50	2.80	4.50	4.60	6.00	8.90	6.50
12378-PeCDD	5.15	2.50	1.45	2.20	1.65	2.65	3.50	2.20
123478-HxCDD	0.65	0.37	0.23	0.32	0.21	0.35	0.47	0.32
123678-HxCDD	3.02	1.88	1.02	1.47	1.63	1.80	5.07	2.51
123789-HxCDD	1.52	0.93	0.55	0.77	0.56	0.79	1.50	0.89
1234678-HpCDD	4.85	3.45	1.87	2.76	3.08	3.41	11.50	5.14
12346789-OCDD	3.61	3.82	1.86	2.77	2.66	3.15	9.29	4.39
2378TCDF	63.50	74.60	62.70	152.00	164.00	38.70	62.00	196.00
12378-PeCDF	37.65	39.00	26.95	39.50	56.00	17.90	28.50	55.00
23478-PeCDF	234.00	253.50	169.00	267.00	306.50	125.00	186.50	620.00
123478-HxCDF	47.30	46.50	28.60	50.90	57.50	19.80	38.40	95.30
123678-HxCDF	12.40	11.60	7.82	11.60	13.60	5.27	8.88	21.40
234678-HxCDF	7.15	6.76	4.38	7.71	7.39	3.24	5.80	13.00
123789-HxCDF	1.15	1.00	0.53	1.10	0.93	0.60	0.78	1.48
1234678-HpCDF	11.80	7.17	3.57	5.76	4.96	4.99	16.80	6.93
1234789-HpCDF	0.56	0.47	0.26	0.45	0.51	0.48	0.79	0.69
12346789-OCDF	1.41	0.92	0.46	0.71	0.79	0.87	3.06	1.26

IMERMAN PARK 11-14

	14-15	14-6	14-3	13-15	13-6	13-3	12-15	12-6
	13.80	23.65	37.10	3.28	4.97	4.95	7.39	13.41
2378-TCDD	0.70	11.00	13.60	0.50	0.79	0.80	0.60	0.90
12378-PeCDD	0.31	0.70	0.70	0.30	0.20	0.40	0.20	0.20
123478-HxCDD	0.08	0.09	0.15	0.07	0.05	0.05	0.06	0.14
123678-HxCDD	0.13	0.25	0.41	0.09	0.14	0.11	0.15	0.28
123789-HxCDD	0.11	0.20	0.30	0.07	0.15	0.15	0.17	0.19

1234678-HpCDD	0.12	0.25	0.57	0.08	0.16	0.17	0.18	0.39
12346789-OCDD	0.08	0.20	0.40	0.05	0.12	0.13	0.13	0.30
2378TCDF	3.23	2.85	5.88	0.51	0.83	0.78	1.51	2.94
12378-PeCDF	0.87	0.71	1.43	0.15	0.21	0.20	0.41	0.76
23478-PeCDF	5.75	5.00	9.15	0.90	1.55	1.35	2.60	5.00
123478-HxCDF	1.26	1.16	2.20	0.26	0.39	0.36	0.71	1.21
123678-HxCDF	0.47	0.47	0.85	0.08	0.11	0.13	0.21	0.33
234678-HxCDF	0.45	0.46	0.81	0.07	0.09	0.12	0.18	0.29
123789-HxCDF	0.08	0.04	0.06	0.07	0.04	0.05	0.04	0.05
1234678-HpCDF	0.14	0.23	0.48	0.08	0.12	0.14	0.20	0.37
1234789-HpCDF	0.02	0.02	0.04	0.01	0.01	0.01	0.01	0.02
12346789-OCDF	0.01	0.03	0.08	0.01	0.02	0.02	0.03	0.05

3-3	2-15	2-6	2-3	1-15	1-6	1-3
965.31	896.97	1014.59	1250.44	1495.89	2395.36	1353.44
7.40	3.80	5.60	5.50	28.10	18.70	16.00
2.45	2.10	2.50	2.35	14.85	10.90	8.80
0.54	0.33	0.43	0.37	6.02	1.54	1.40
2.31	1.50	2.21	1.78	35.20	8.52	8.87
1.27	0.81	1.10	0.86	15.70	3.99	3.50
4.76	2.54	4.32	3.02	41.10	13.70	19.50
3.57	2.38	3.28	2.81	47.95	12.20	14.32
178.00	240.00	182.00	257.00	465.00	614.00	269.00
88.50	75.00	87.50	78.50	134.00	177.00	80.50
535.00	448.50	580.00	720.00	281.50	1155.00	685.00
93.00	79.90	94.20	120.00	208.00	230.00	159.00
22.90	19.80	24.70	30.10	67.80	75.50	39.70
13.60	11.10	14.10	17.50	39.90	39.40	21.80
2.24	1.96	2.28	2.56	5.35	6.76	2.89
7.95	6.01	8.49	6.51	85.40	21.60	17.10
0.75	0.58	0.75	0.79	5.66	2.56	2.00
1.07	0.66	1.13	0.78	14.36	3.99	4.06

8-3	8-1	7-15	7-6	7-3	7-1	6-15	6-6	6-3
672.53	376.04	1231.67	1793.41	1575.01	1440.4	570.56	1216.55	1140.87
3.40	6.10	9.60	11.00	6.20	9.70	0.80	2.80	3.40
0.90	5.65	11.85	4.90	2.60	4.40	0.42	2.20	1.85
0.14	0.89	1.53	0.77	0.37	0.68	0.05	0.33	0.29
1.37	3.28	5.82	4.53	2.85	5.84	0.31	2.96	1.69
0.43	1.88	3.30	2.00	1.08	1.95	0.12	0.77	0.74
2.86	4.47	8.31	9.48	5.30	11.30	0.48	6.23	3.01
3.29	3.38	4.84	6.97	3.17	7.64	0.47	3.29	2.89
158.00	100.00	313.00	411.00	291.00	356.00	115.00	218.00	246.00
51.00	25.55	88.00	105.50	91.50	103.00	52.00	102.00	72.50
378.00	164.50	590.00	980.00	935.00	720.00	314.50	700.00	620.00
48.90	35.90	89.70	167.00	160.00	141.00	60.90	119.00	127.00
11.50	8.79	55.10	41.80	38.90	34.30	14.30	29.10	32.10
7.28	6.02	30.50	24.00	21.70	20.70	7.99	16.70	17.80
0.94	1.67	3.57	3.26	2.32	3.23	1.16	2.36	2.69
3.44	6.32	12.20	17.30	10.60	16.70	1.60	8.39	7.19
0.34	0.58	1.80	1.41	1.07	1.24	0.32	0.84	0.86
0.74	1.06	2.55	2.49	1.35	2.72	0.14	1.58	0.86

12-3	11-15	11-6	11-3
11.80	17.19	40.17	38.42
0.85	0.40	0.70	0.57
0.45	0.20	0.60	0.32
0.10	0.05	0.09	0.06
0.23	0.05	0.34	0.20
0.22	0.05	0.18	0.14

0.37	0.12	0.54	0.37
0.29	0.11	0.50	0.29
2.59	4.77	11.80	11.00
0.63	1.25	2.70	2.96
4.05	7.30	15.85	17.00
1.03	1.83	3.90	3.37
0.30	0.47	1.11	0.83
0.26	0.28	0.65	0.54
0.05	0.04	0.06	0.07
0.34	0.24	0.97	0.61
0.02	0.02	0.05	0.03
0.04	0.03	0.12	0.07