

APPENDIX A
SOIL SAMPLING LOGS

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**APPENDIX A
SOIL SAMPLING LOGS**

DISCRETE SURFACE SOIL SAMPLES

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MULTI-INCREMENT SURFACE SOIL SAMPLES

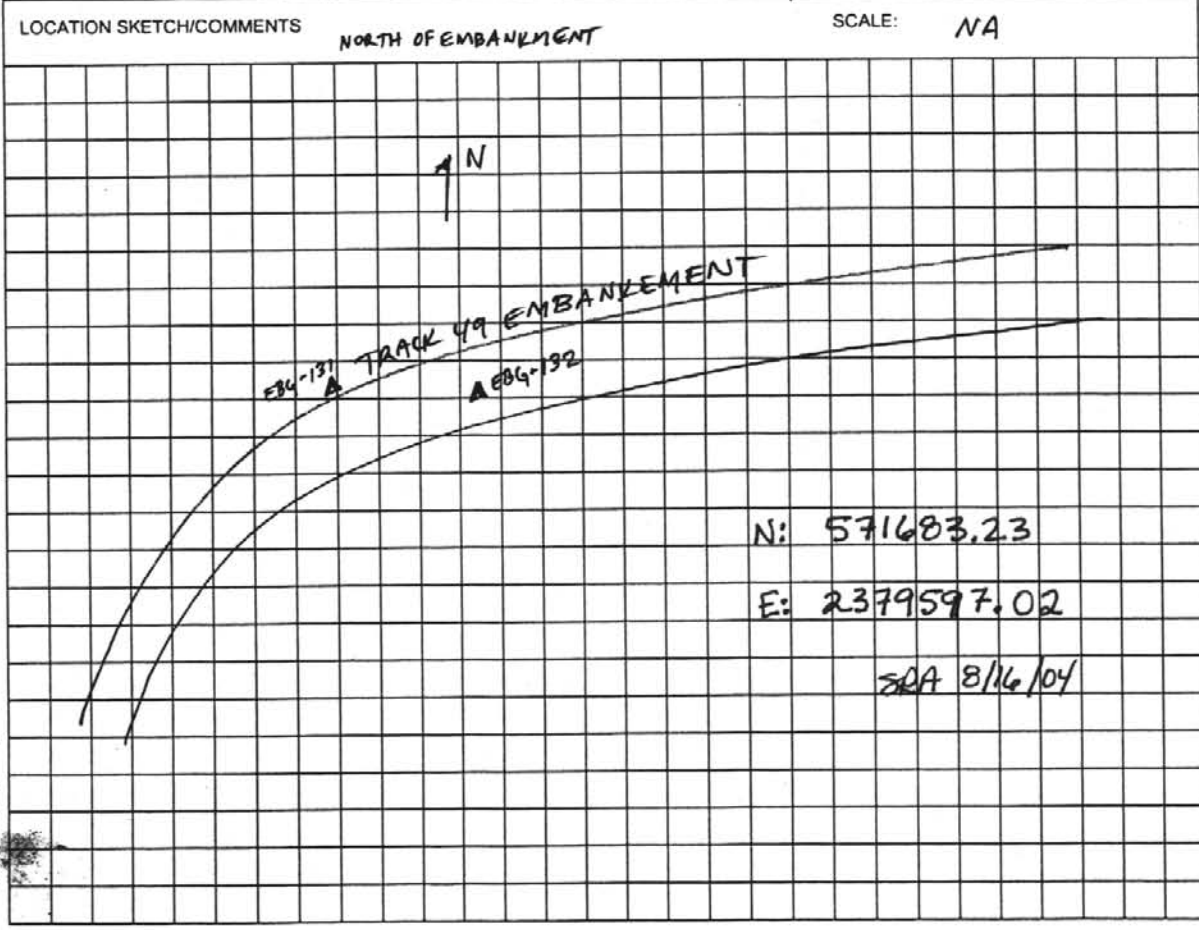
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DISCRETE SURFACE SOIL SAMPLES

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-131	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L _o 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA		6. MANUFACTURERS DESIGNATION OF DRILL: NA			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT STAINLESS STEEL HAND AUGER STAINLESS STEEL BOWL & SPOON		8. HOLE LOCATION: EBG		9. SURFACE ELEVATION: 938.30	
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE 1.6'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS (specify)	
		/		/explosives	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				bentonite fill	
				OTHER (SPECIFY):	
				/SDG, past, PCB /propellants	
				21. TOTAL CORE RECOVERY ~ 100%	
				23. SIGNATURE OF INSPECTOR	
				[Signature]	



HTRW DRILLING LOG

HOLE NUMBER **EBG-131**

PROJECT: **Erie Burning Grounds Phase II**

INSPECTOR **T. Brown**

SHEET **2** OF **2**

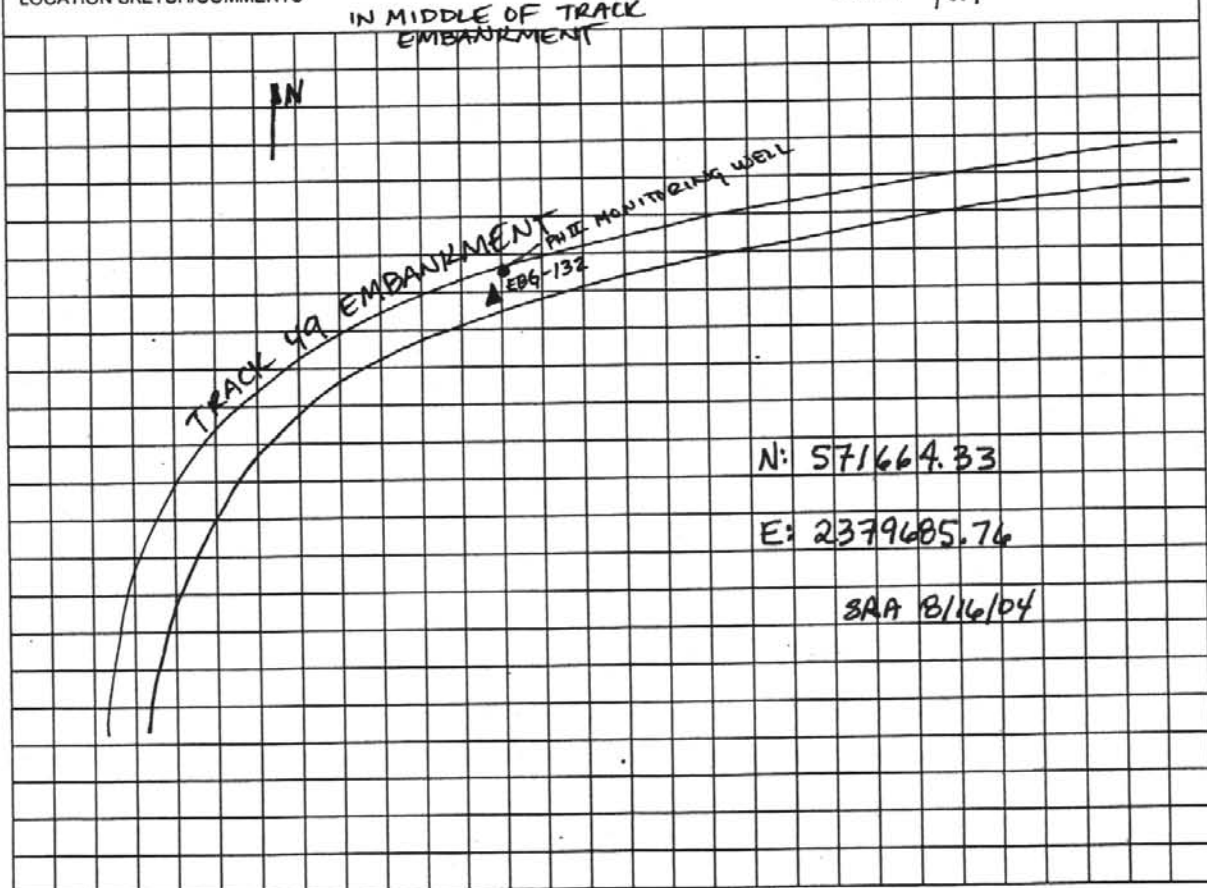
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Wet, 1 1/4" black PEAT. with abundant roots	φ φ SRA 6/27/05	NA	EBG-291 @ 1 1/4'	PID = φ.φ ppm SRA 6/27/05
	1.0'	Wet, very soft, highly plastic, 1 1/4" 5/4 yellowish brown, mottled with 1/4" 0/1 gray & 5/4" 0/1 reddish brown CLAY with 1:1:1 silts				
	TOTAL DEPTH @ 1.0'					

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-132	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: EBG		9. SURFACE ELEVATION: 947.08	
STAINLESS STEEL HAND AUGER				10. DATE STARTED: 10/21/03	
STAINLESS STEEL BOWLS SPONS				11. DATE COMPLETED: 10/28/03	
12. OVERBURDEN THICKNESS NA			15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK NA			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE 1.0'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		19. TOTAL NUMBER OF CORE BOXES NA			
		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
		1		OTHER (SPECIFY): SVOX, PROPELLANT, cyanide, fuel, explosive	
21. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY): bentonite	
				22. SIGNATURE OF SUPERVISOR <i>[Signature]</i>	
				23. TOTAL CORE RECOVERY 100%	

LOCATION SKETCH/COMMENTS

SCALE: NA



PROJECT: **Erie Burning Grounds Phase II**

INSPECTOR *T. Brown*

SHEET **2** OF **2**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<p>ϕ-1.0'</p> <p>ϕ 5</p> <p>1.0'</p>	<p>(ϕ-1.0') Moist, soft, medium plasticity. 1/4" dark grayish brown, CLAY with some silt</p>	<p>ϕ ppm</p> <p>SRA</p> <p>6/27/05</p>	<p>NA</p>	<p>EBG-292 @ ϕ 9" (AND * EBG-330 EBG-331 DUP of QA)</p>	<p>PID = 0.0 ppm</p> <p>SRA 6/27/05</p> <p>* DUP of QA SPLIT TAKEN (FULL SUITE)</p>
	TOTAL DEPTH @ 1.0'					

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-133	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 2 of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		STAINLESS STEEL HAND-ANGER STAINLESS STEEL DOWL & SPOON		8. HOLE LOCATION: EBG	
				9. SURFACE ELEVATION: 939.98	
				10. DATE STARTED: 10/28/03	
				11. DATE COMPLETED: 10/28/03	
12. OVERBURDEN THICKNESS NA				15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK NA				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE 1.0'				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES NA					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS / arsenic	
				OTHER (SPECIFY) / explosives	
				OTHER (SPECIFY) / SVOC	
				OTHER (SPECIFY) / propellant	
21. TOTAL CORE RECOVERY 1.0'					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY) / bentonite fill	
				23. SIGNATURE OF INSPECTOR	
				<i>[Signature]</i>	
LOCATION SKETCH/COMMENTS NORTH OF EMBANKMENT			SCALE: NA		

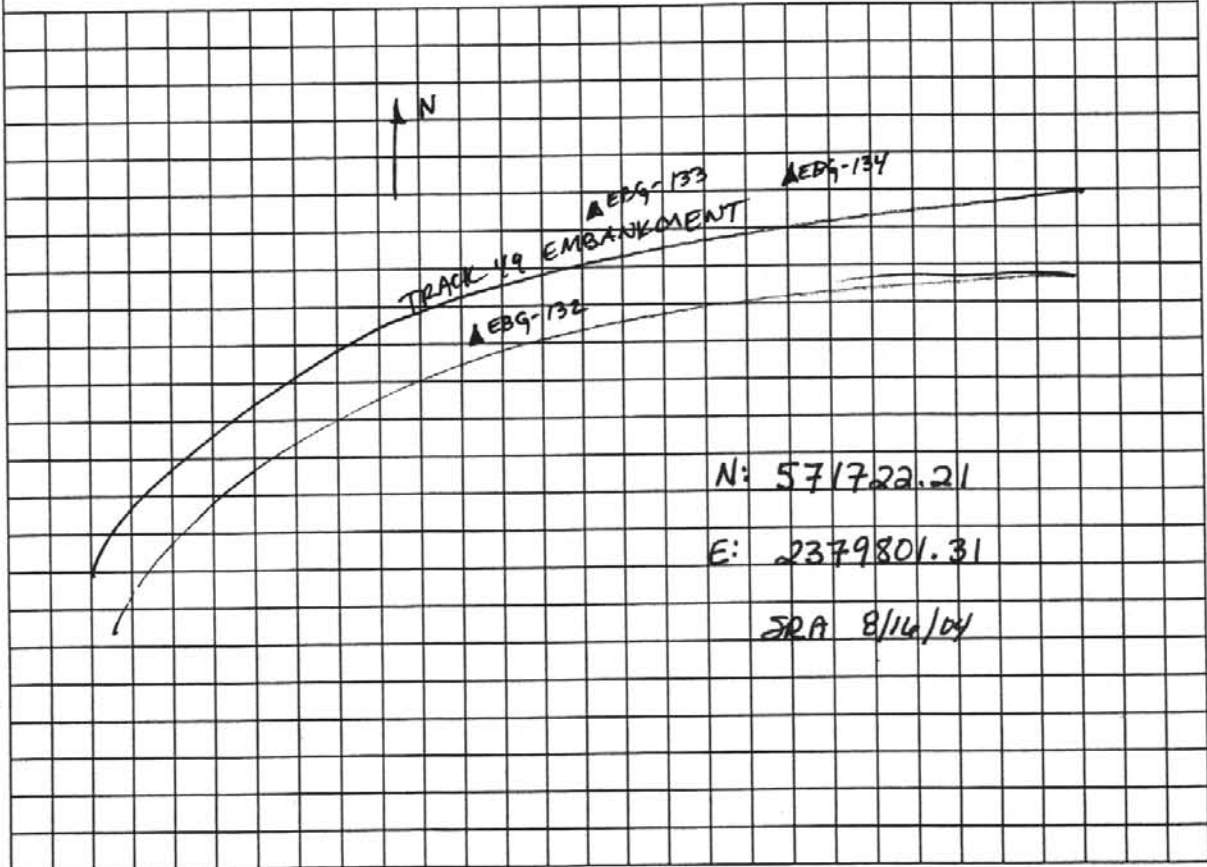
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HTRW DRILLING LOG						HOLE NUMBER
PROJECT: Erie Burning Grounds Phase II				INSPECTOR <i>J. Brown</i>		EBG-133
ELEV. (A)		DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)
REMARKS (G)						
	0.5'	Moist, soft, medium plastic, 1φ4R 3/1 very dark gray SILT, with some clay (1φ4R 7/4 very pale brown mottled w/ 1φ4R 5/6 yellowish brown)			NA	EBG 293 @ 111φ
	1.0'	Total Depth @ 1.0'				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-134	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		STAINLESS STEEL HAND-AUGER STAINLESS STEEL BOWLS & SPOONS		8. HOLE LOCATION: EBG	
9. SURFACE ELEVATION: 938.57' amsl					
10. DATE STARTED: 10/28/03			11. DATE COMPLETED: 10/28/03		
12. OVERBURDEN THICKNESS NA			15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK NA			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE 1.0'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY ~100%	
VOC		METALS PCB		OTHER (SPECIFY) / EXPLOS.	
BACKFILLED		MONITORING WELL		OTHER (SPECIFY) / bentonite fill	
22. DISPOSITION OF HOLE		23. SIGNATURE OF INSPECTOR		[Signature]	

LOCATION SKETCH/COMMENTS NORTH OF EMBANKMENT SCALE: NA



HTRW DRILLING LOG

HOLE NUMBER **EGG-134**

PROJECT: **Erie Burning Grounds Phase II**

INSPECTOR *T. Brown*

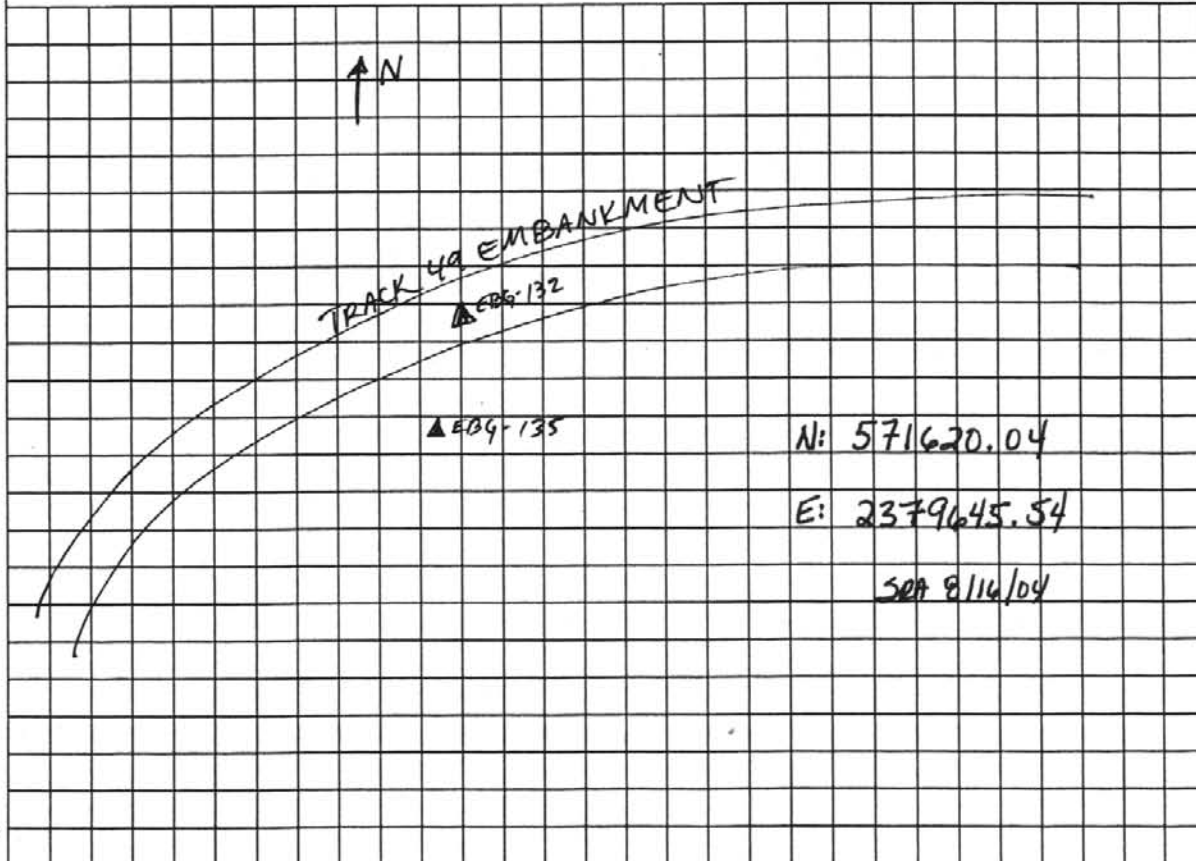
SHEET **2 OF 2**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5 1.0	Very moist to wet, soft, non-plastic 1φ4R 3/3 dark brown (w/1φ4R 5/6 yellowish brown ~1φ%) SILT with trace clay & trace fine to very fine sand, little brick fragments, abundant roots	φ-φ ppm SRA 6/27/05	NA	EGG294 @ 12φ5	PID = 0.0 ppm SRA 6/27/05
		Total depth @ 1.0φ				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-135	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: EBG			
STAINLESS STEEL HAND AUGER STAINLESS STEEL BOWL & SPOON		9. SURFACE ELEVATION: 939.34			
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
			1	SVOC (1)	metals & cyan (1) explosives (1)
21. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
				bentonite	100%
				22. SIGNATURE OF INSPECTOR	
				<i>[Signature]</i>	
19. TOTAL NUMBER OF CORE BOXES		NA			

LOCATION SKETCH/COMMENTS **SOUTH OF EMBANKMENT** SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER **EBG-135**

PROJECT: **Erie Burning Grounds Phase II**

INSPECTOR *T. [Signature]*

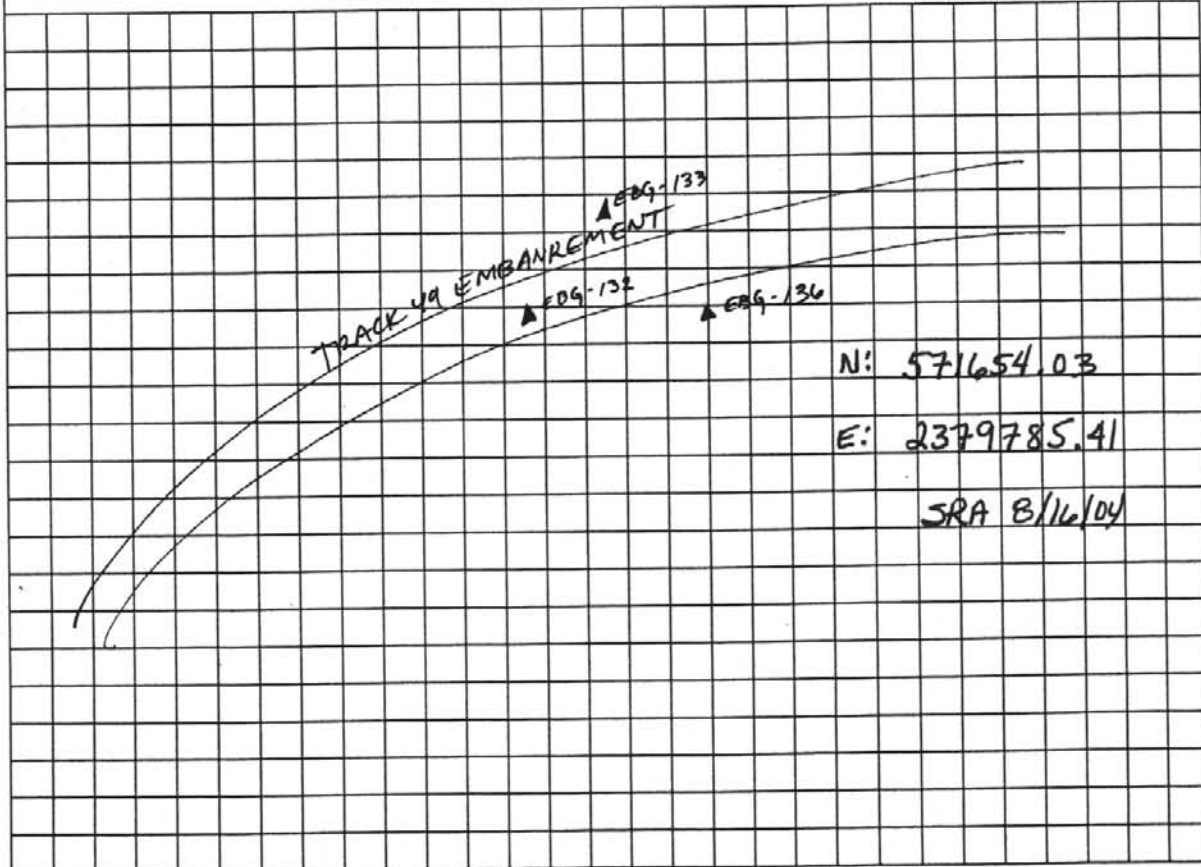
SHEET **2** OF **2**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<p>0.5</p> <p>1.0</p>	<p>Moist, loose, medium plasticity, 10YR 3/1 very dark gray CLAY with some silt & little sand (10YR 6/6 brownish yellow)</p>	<p>φ ppm SRA 4/27/05</p>	<p>NA</p>	<p>EBG-295 @ φ 955</p>	<p>PID = φ. φ ppm SRA 4/27/05</p>
		<p>TOTAL DEPTH @ 1.0'</p>				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-136	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L _o 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		STAINLESS STEEL HAND AUGER STAINLESS STEEL BOWL'S SPOON		8. HOLE LOCATION: EBG	
9. SURFACE ELEVATION: 938.67					
10. DATE STARTED: 10/28/03			11. DATE COMPLETED: 10/28/03		
12. OVERBURDEN THICKNESS NA			15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK NA			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE 1.0'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY 1.64	
VOC		METALS / cyanide		OTHER (SPECIFY) / explosive	
1		1		1 SVOC	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		bentonite fill		OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR <i>[Signature]</i>					

LOCATION SKETCH/COMMENTS SOUTH OF EMBANKMENT SCALE: NA



HTRW DRILLING LOG

HOLE NUMBER EBG-136

PROJECT: Erie Burning Grounds Phase II

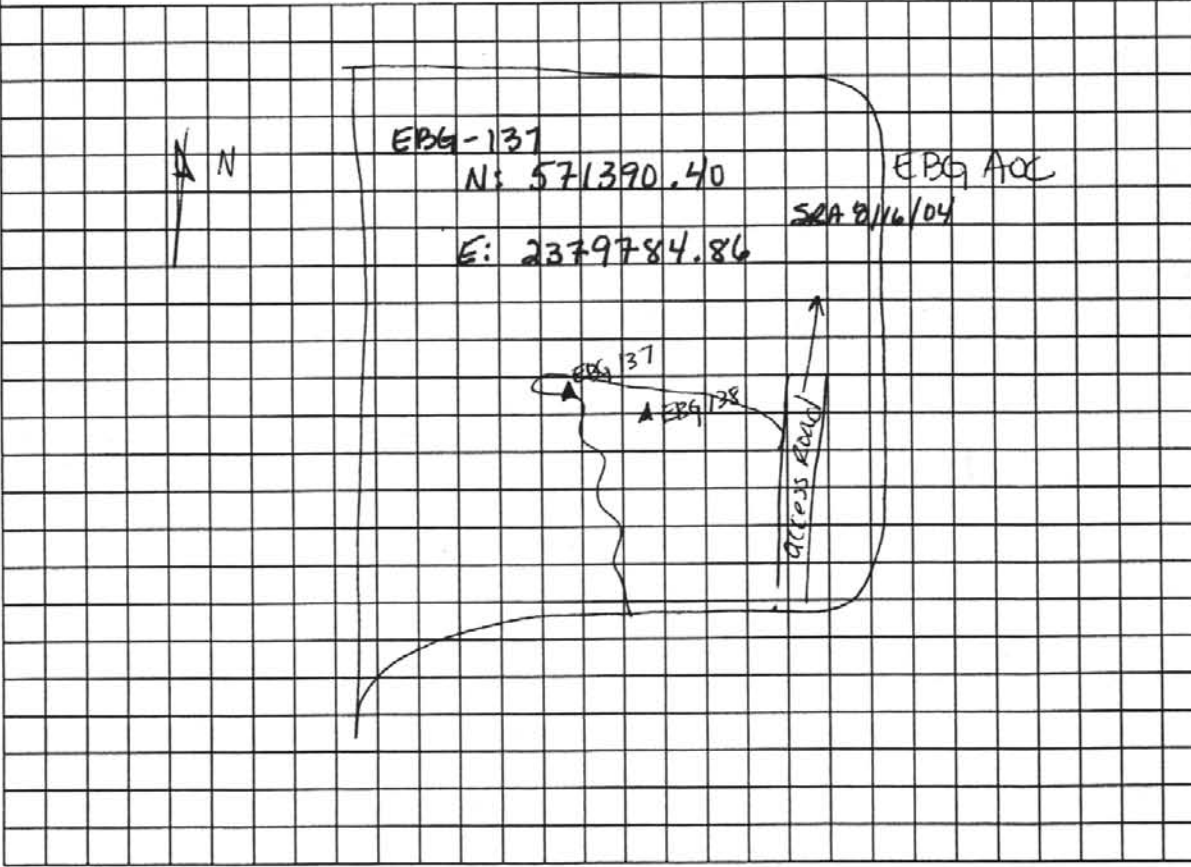
INSPECTOR *[Signature]*

SHEET 2 OF 2

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Very moist, very soft, very low plasticity, 10YR 3/2 very dark grayish brown SILT with little to trace clay, and little very fine sand, abundant root material	ϕ - ϕ ppm GRA 6/27/05	NA	EBG 296 @ 1145	PID = ϕ . ϕ ppm SRA 6/27/05
	1.0'	Total depth @ 1.0'				

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG 137
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds	
5. NAME OF DRILLER: NA		6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT STAINLESS STEEL HAND AUGER STAINLESS STEEL BOWL & SPINDLE		8. HOLE LOCATION: EBG		
9. SURFACE ELEVATION: 938.56' amsl				
10. DATE STARTED: 10/28/03		11. DATE COMPLETED: 10/28/03		
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED
19. TOTAL NUMBER OF CORE BOXES NA				
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS (CYAN)	OTHER (SPECIFY)
			1 VOC	1 BENZUSIVES
21. TOTAL CORE RECOVERY 100%				
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)
			Benhurk fill	
23. SIGNATURE OF INSPECTOR		<i>[Signature]</i>		

LOCATION SKETCH/COMMENTS **ALONG DITCH 4** SCALE: **NA**



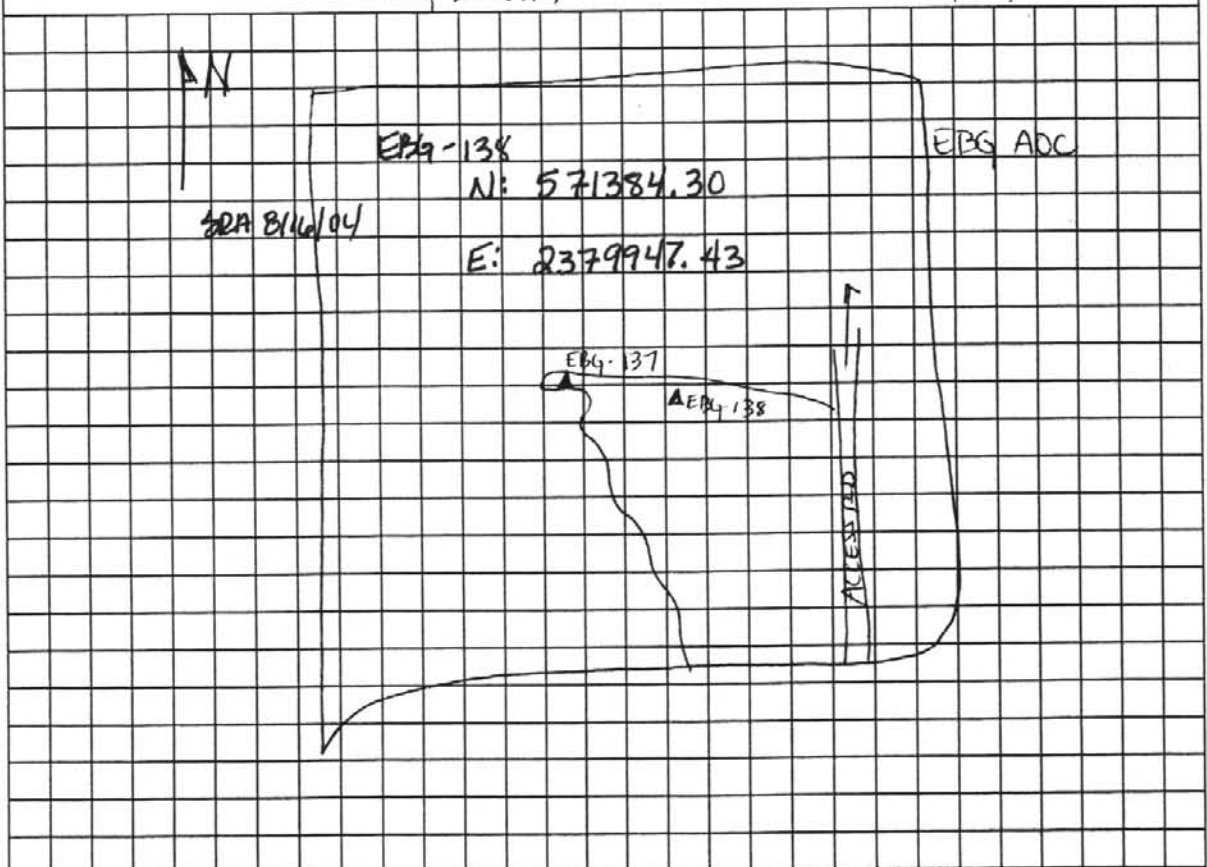
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HTRW DRILLING LOG						HOLE NUMBER EB9-137
PROJECT: Erie Burning Grounds Phase II				INSPECTOR: <i>T. Brown</i>		SHEET 2 OF 2
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Muist, loose, 1φYR 4/2 and 1φYR 3/1 fine to very fine SAND with little silt, trace clay. 1φYR 2/1 black from φ-φ.2'	φ.φ ppm	NA	EB9297 @ 153φ	
	1.4'	Total depth @ 1.4'				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-138
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds	
5. NAME OF DRILLER: NA		6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Stainless steel hand auger Stainless steel level of spoon		8. HOLE LOCATION: EBG		
		9. SURFACE ELEVATION: 938.71' AMSL		
		10. DATE STARTED: 1/25/03	11. DATE COMPLETED: 1/25/03	
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES NA
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS (YES/NO)	OTHER (SPECIFY)
				(1) VOC
21. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)
				Bentonite fill
				22. SIGNATURE OF INSPECTOR <i>[Signature]</i>
21. TOTAL CORE RECOVERY % 100%				

LOCATION SKETCH/COMMENTS **ALONG DITCH 4** SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER **EBG-138**

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PROJECT: **Erie Burning Grounds Phase II**

INSPECTOR *T. Brown*

SHEET 2 OF 2

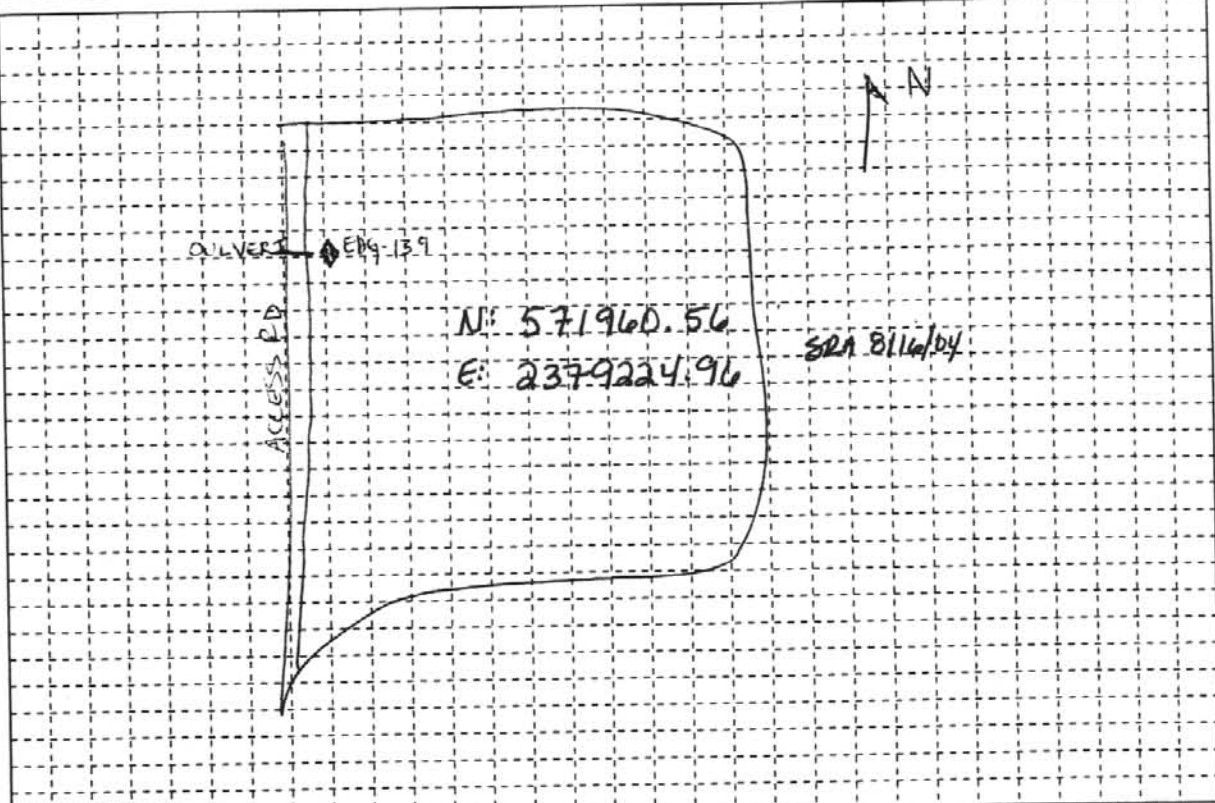
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	0-0.3 - Moist, soft, non-plastic, 1/4R 3/1 very dark gray SILT with very fine sand, trace clay 0.3-0.5 - coarse SS ballast fragments	0.4 ppm SRA 1/27/05	NA	EBG 298 @ 1/27/05	PID = 0.0 ppm SRA 1/27/05
	1.0'	0.5-1.0' - Moist, soft, non-plastic, 1/4R 4/1 dark gray & 1/4R 7/3 very pale brown SILT w/ fine sand, little clay Total Depth @ 1.0'				

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LOCATION SKETCH

PROJECT NO: Erie Burning Grounds Phase II **DELIVERY ORDER NO:** CY10

STATION ID NUMBER: EBG-139	STATION DESCRIPTOR: EBG
SEDIMENT ID NUMBER: EBG-299	SEDIMENT DATE & TIME: 10/29/03 1440
SURFACE WATER ID NUMBER: NA	SURFACE WATER DATE & TIME: NA



SW Quality Field Parameters:		NORTHING:
pH <u>NA</u>	D.O. <u>NA</u>	
Conductivity <u>NA</u>	Temperature <u>NA</u>	

COMMENTS: **TD 0.5'**

RECORDED BY: <i>Kelly TS</i>	DATE: 10/29/03	QA CHECK BY: <i>T. Brown</i>	DATE: 21 JAN 04
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SEDIMENT LOG

STATION NUMBER ~~EB 139~~ 87

PROJECT: Erie Burning Grounds Phase II

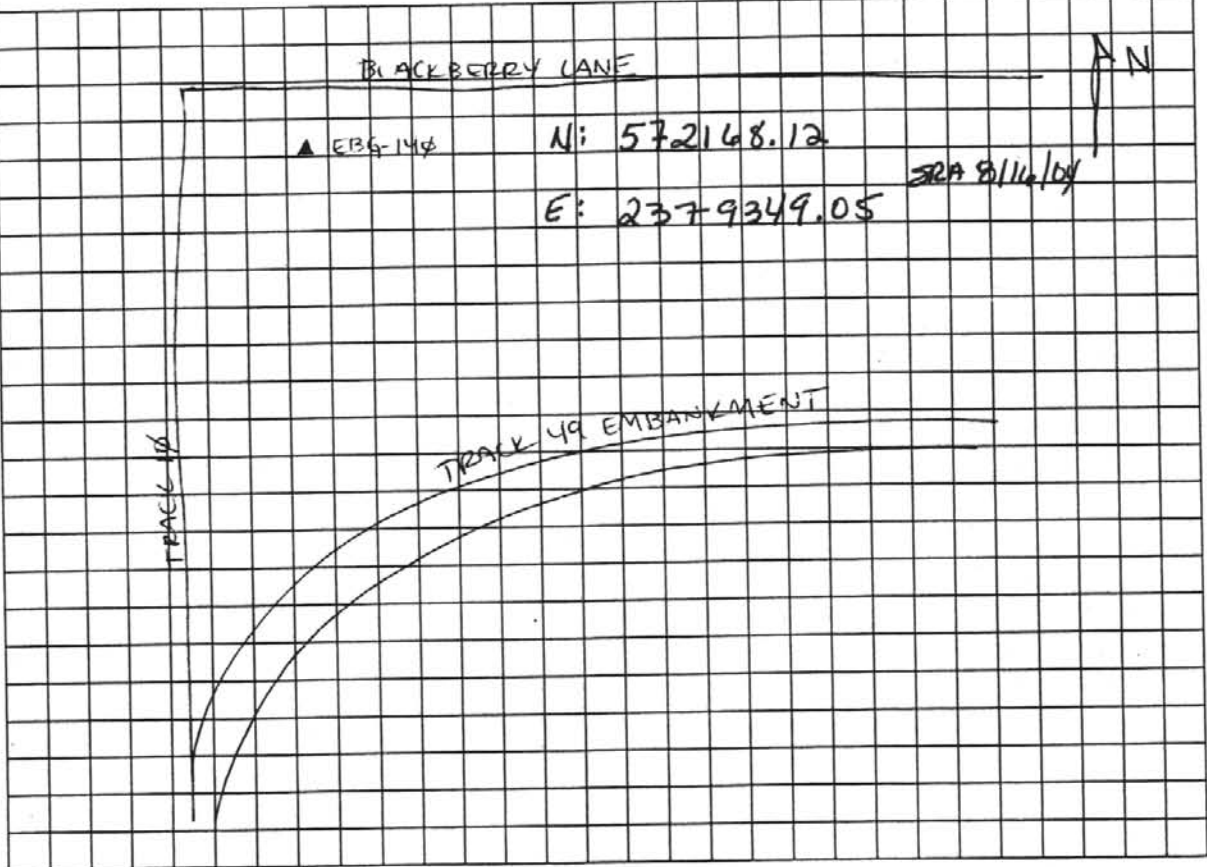
INSPECTOR *J. Brown*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.25' 0.5'	Very moist, very soft, high plasticity, 1 1/2 R 4/1 dark gray CLAY, with little silt, (trace 1/4 R 2/6 yellowish brown)	φ. φ pm	NA	EBQ2599 @ 144φ	
		Total depth 0.5'				

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-14φ	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA		6. MANUFACTURERS DESIGNATION OF DRILL: NA			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT STAINLESS STEEL HAND-AUGER STAINLESS STEEL BOND & SPEC		8. HOLE LOCATION: EBG			
9. SURFACE ELEVATION: 938.74' AMSL					
10. DATE STARTED: 1φ/28/φ3			11. DATE COMPLETED: 1φ/28/φ3		
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE 1.φ'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS (CYAN)	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			Bentonite fill		<i>[Signature]</i>
19. TOTAL NUMBER OF CORE BOXES NA				21. TOTAL CORE RECOVERY 1φφ	

LOCATION SKETCH/COMMENTS SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER EB9-146

PROJECT: Erie Burning Grounds Phase II

INSPECTOR *[Signature]*

SHEET 2 OF 2

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-0.5'	Moist, very soft, low plasticity, 1/4R 3/1 very dark gray SILT with some very fine sand, and little to trace clay		NA	EB9 344 @ 1445	PID = 0 ppm SRA 6/27/05
	0.5-1.0'	Moist, soft, non-plastic 1/4R 4/1 dark gray SILT and very fine to fine sand.	0.5 ppm SRA 6/27/05			
	TOTAL DEPTH @ 1.0'					

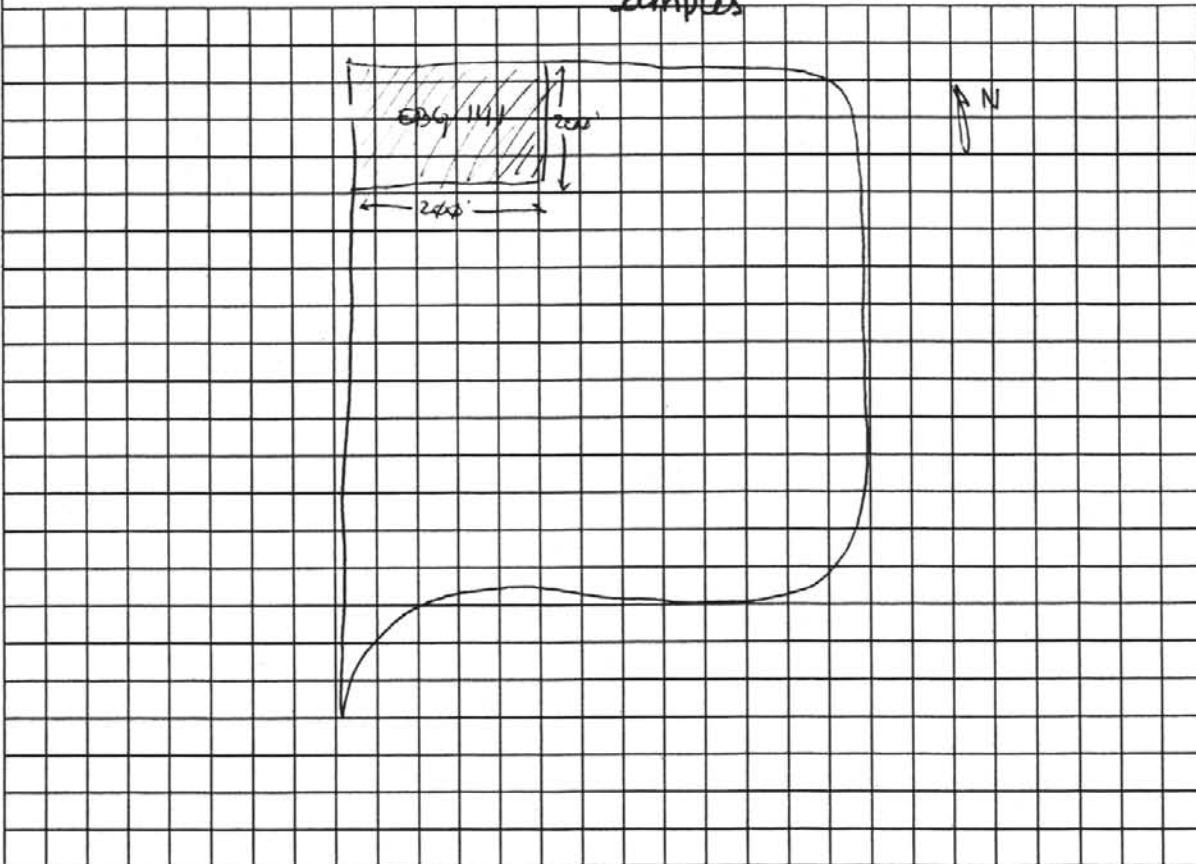
MULTI-INCREMENT SURFACE SOIL SAMPLES

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-141	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA		6. MANUFACTURERS DESIGNATION OF DRILL: NA			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Stainless steel/multi incremental Soil corer Stainless steel barrel & spoon		8. HOLE LOCATION: EBG : Sample Area 141			
		9. SURFACE ELEVATION: 939.05 - 943.43' AMSL			
		10. DATE STARTED: 11/20/03		11. DATE COMPLETED: 12/30/03	
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE 1-0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS (CY01)	OTHER (SPECIFY)	OTHER (SPECIFY)
			1	SIOC 1	Explosives 1
21. TOTAL CORE RECOVERY					
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
				NA	<i>[Signature]</i>

LOCATION SKETCH/COMMENTS

Coordinates NA for multiincremental samples SCALE: **NA**

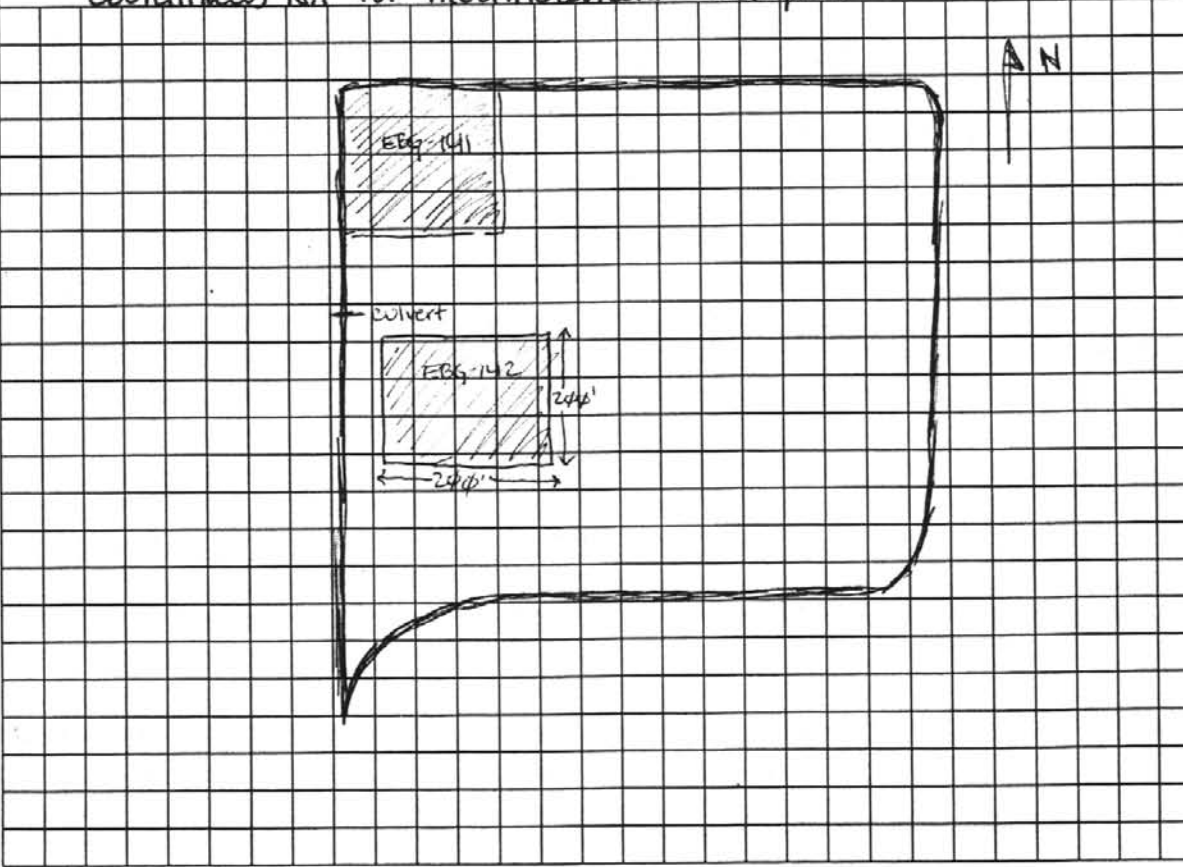


HOLE NUMBER		HTRW DRILLING LOG				HOLE NUMBER EBG-137	
PROJECT: Erie Burning Grounds Phase II			INSPECTOR: <i>[Signature]</i>			SHEET 2 OF 2	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0.5'	Moist, loose, 1φYR 4/2 and 1φYR 3/1 fine to very fine SAND with little silt, trace clay.	φ.φ ppm	NA	EBG297 @ 153φ	PID = φ.φ ppm	
	1.0'	1φYR 2/1 black from φ-φ.2'	SRA 6/27/05			SRA 6/27/05	
	1.0'	Total depth @ 1.0'					

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBG-142	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET Lo 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT stainless steel multi-incremental soil corer stainless steel bowl/spoon		8. HOLE LOCATION: EBG: Sample Area 142		9. SURFACE ELEVATION: 938.81 - 939.92	
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA		10. DATE STARTED: 11/30/03	
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		11. DATE COMPLETED: 11/30/03	
14. TOTAL DEPTH OF HOLE 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS (CYC)	OTHER (SPECIFY):	OTHER (SPECIFY):
			1 SVOC	explosives	
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY):	23. SIGNATURE OF INSPECTOR
				None	<i>T. Point</i>
19. TOTAL NUMBER OF CORE BOXES				21. TOTAL CORE RECOVERY %	
				100%	

LOCATION SKETCH/COMMENTS SCALE: **NA**
Coordinates NA for multincrement samples

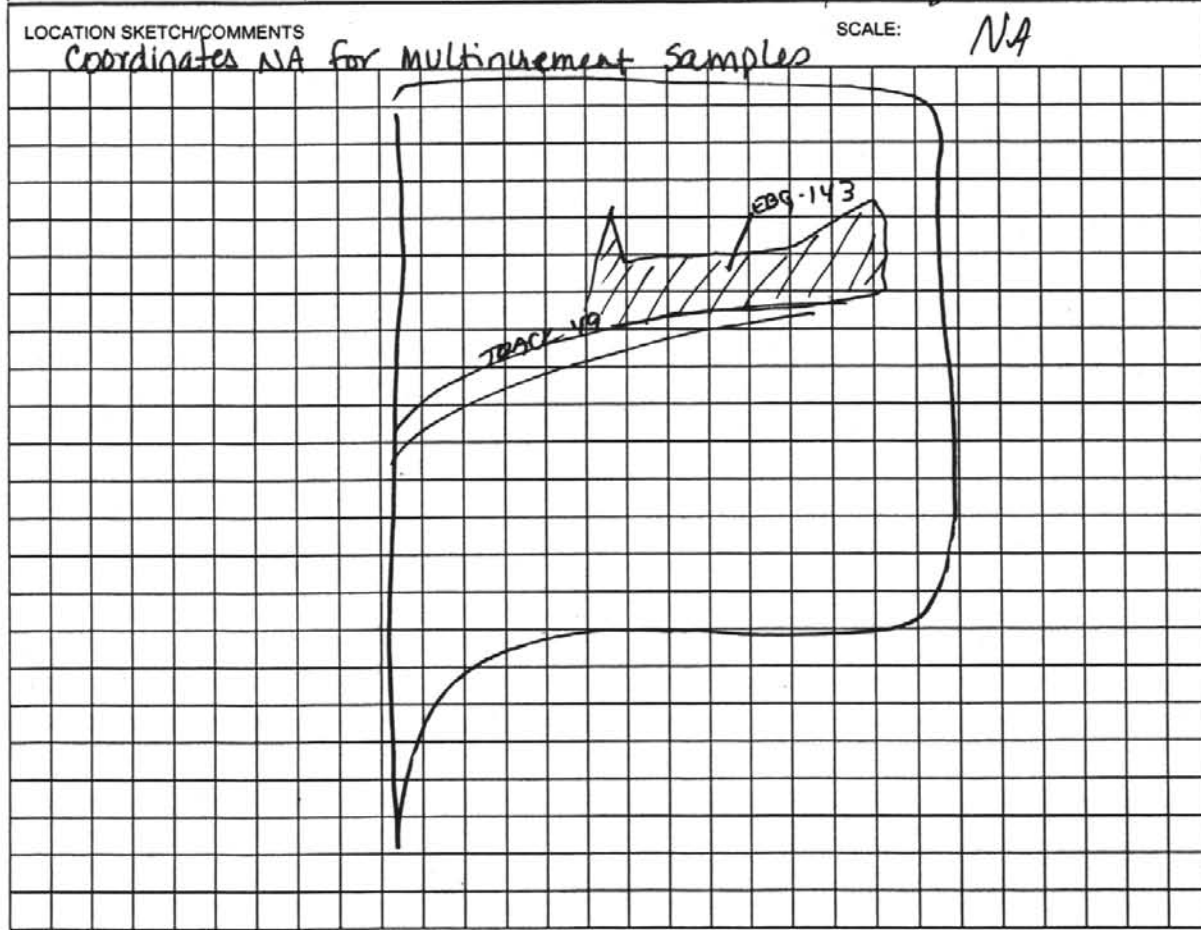


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HTRW DRILLING LOG						HOLE NUMBER
PROJECT: Erie Burning Grounds Phase II			INSPECTOR <i>T. Bruner</i>		SHEET 2 OF 2	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5 1.4	moist to slightly moist, medium stiff to soft, medium plasticity 1/2" 3/1 very dark gray, 1/2" 1/2" gray mottled w/ 1/2" 2/16 yellowish brown CLAY with some silt, trace sand	NA	NA	EBG 302 @ 1645	
		Total depth @ 1.4'				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG 143
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds	
5. NAME OF DRILLER: NA		6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Stainless steel multi-incr. Soil corer stainless steel bowl spoon		8. HOLE LOCATION: EBG: Sample Area 143		
9. SURFACE ELEVATION: 938.26 - 946.611 amsl				
		10. DATE STARTED: 11/03/03		11. DATE COMPLETED: 11/03/03
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE: 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES
20. SAMPLES FOR CHEMICAL ANALYSIS		5 VOC	METALS 1	OTHER (SPECIFY) EXPLOS. 1
21. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)
				22. SIGNATURE OF INSPECTOR T. Brown



HTRW DRILLING LOG

HOLE NUMBER **EBG143** 74

PROJECT: **Erie Burning Grounds Phase II**

INSPECTOR *[Signature]*

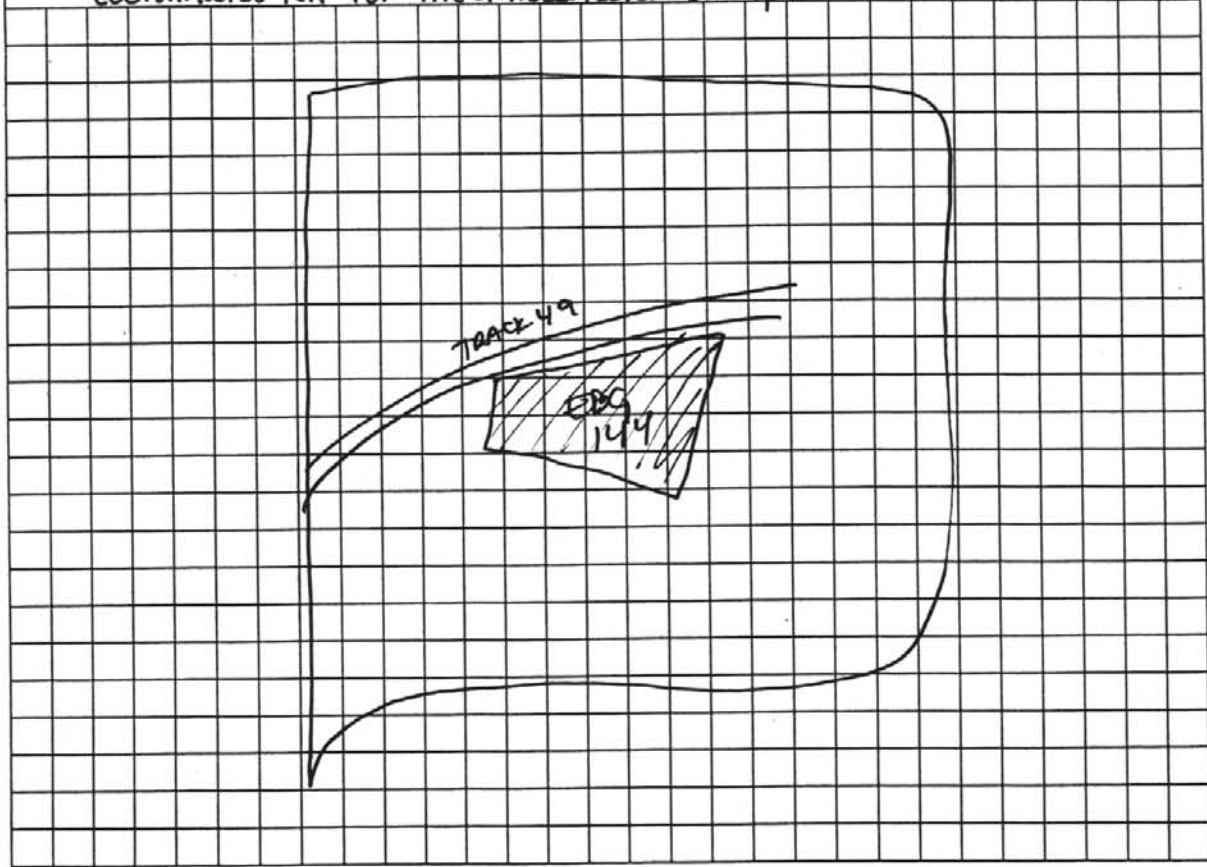
SHEET **2 OF 2**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	Slightly moist to very moist, soft to med.-stiff, low to med. plasticity, 10YR 4/2 dark grayish brown, 10YR 2/1 black, 5YR 4/6 dark yellowish brown, CLAY with little silt, trace sand, trace gravel	0 ppm SRA 4/27/05	NA	EBG303 @ 1040	PID = 0.0 ppm SRA 4/27/04
		Total depth @ 1.0				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER ERB-144	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: ERB: Sample Area 144			
Stainless steel multi-incr. soil corer		9. SURFACE ELEVATION: 944.87 - 946.07' amsl			
stainless steel bowls		10. DATE STARTED: 11/03/03		11. DATE COMPLETED: 11/03/03	
spoon		12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE: 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: 100%	
		SIVOC: 1		METALS: 1 cycle	
		OTHER (SPECIFY): Explos. 1		OTHER (SPECIFY):	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		OTHER (SPECIFY): none		23. SIGNATURE OF INSPECTOR: <i>T. B...</i>	

LOCATION SKETCH/COMMENTS: **Coordinates NA for multincement samples** SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER **EBG-174** 69

PROJECT: **Erie Burning Grounds Phase II**

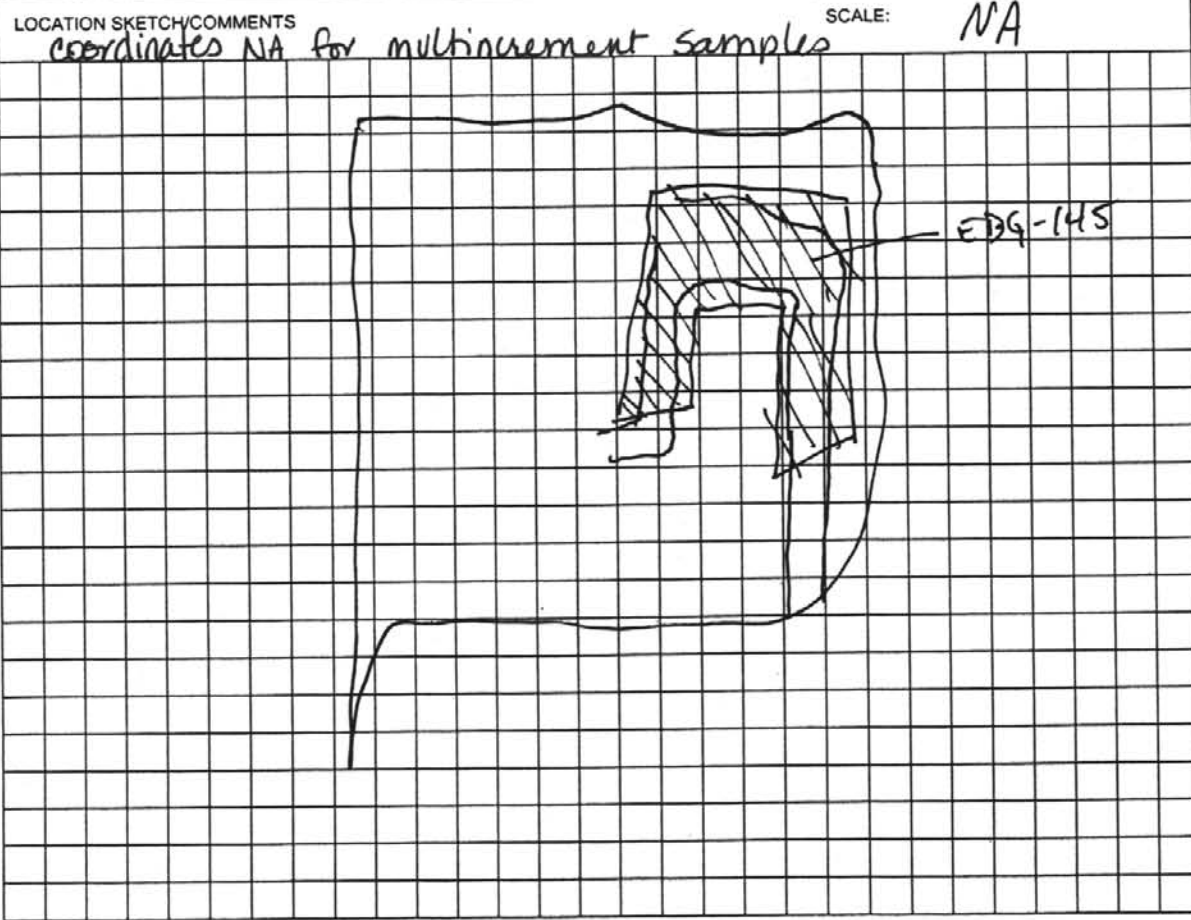
INSPECTOR *[Signature]*

SHEET **2** OF **2**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	moist, soft, low plasticity 1.0 R 4/1 dark gray, 1.0 R 3/2 very dark grayish brown. 5 1.0 R 4/10 dark yellowish brown CLAY w/ some sand, little silt, plant roots	φ ppm SRA 6/27/05	NA	EB9304 @ φ929	PID = φ.φ ppm SRA 6/27/05
		Total depth @ 1.0				

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER EBG-145	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET <u>L</u> OF <u>2</u>	
3. PROJECT: Erie Burning Grounds Phase II			4. LOCATION: Erie Burning Grounds		
5. NAME OF DRILLER: NA			6. MANUFACTURER'S DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: EBG: Sample Area 145			
stainless steel multi-increm. sample corer. stainless steel bowl / spoon		9. SURFACE ELEVATION: NA ^{cur} 938.29' AMSL			
		10. DATE STARTED: 10/31/03		11. DATE COMPLETED: 10/31/03	
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE: NA 1.0'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		S.VOC		METALS: <u>lead</u>	
		1		OTHER (SPECIFY): <u>explosive</u>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				NONE	
				23. SIGNATURE OF INSPECTOR: <u>T. Brown</u>	
				19. TOTAL NUMBER OF CORE BOXES: NA	
				21. TOTAL CORE RECOVERY: <u>100%</u>	



HTRW DRILLING LOG						HOLE NUMBER EDG145
PROJECT: Erie Burning Grounds Phase II			INSPECTOR <i>[Signature]</i>		SHEET 2 OF 2	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Moist, soft to stiff, non-plastic CLAY with some silt, some fine gravel, little sand.	NA	NA	EDG 3P5 @ 162φ	
	1.0'	Total Depth @ 1.0'				

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