

APPENDIX A
SOIL SAMPLING LOGS

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APPENDIX A SOIL SAMPLING LOGS

DISCREET SURFACE SOIL SAMPLES

RQL-024	A-7
RQL-025	A-9
RQL-026	A-11
RQL-027	A-13
RQL-028	A-15
RQL-029	A-17
RQL-030	A-19
RQL-031	A-21
RQL-032	A-23
RQL-033	A-25

MULTI-INCREMENT SURFACE SOIL SAMPLES

RQL-034	A-29
RQL-035	A-31
RQL-036	A-33
RQL-037	A-35
RQL-038	A-37

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DISCRETE SURFACE SOIL SAMPLES

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HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER RQL-024	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA			SHEET 1 OF 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry			
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: RQL		
				9. SURFACE ELEVATION: 961.78		SRL 8/12/04
				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		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: NA
20. SAMPLES FOR CHEMICAL ANALYSIS		3 VOC		METALS 10		OTHER (SPECIFY):
SRA 8/12/04		1		1		EXP (1)
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY):
Backfilled						23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>
LOCATION SKETCH/COMMENTS SRA 8/12/04 N: 566728.53 E: 2376366.45 SCALE: NA						

4

HTRW DRILLING LOG

HOLE NUMBER **RQ024**

PROJECT: **Ramsdell Quarry Phase I RI**

INSPECTOR *[Signature]*

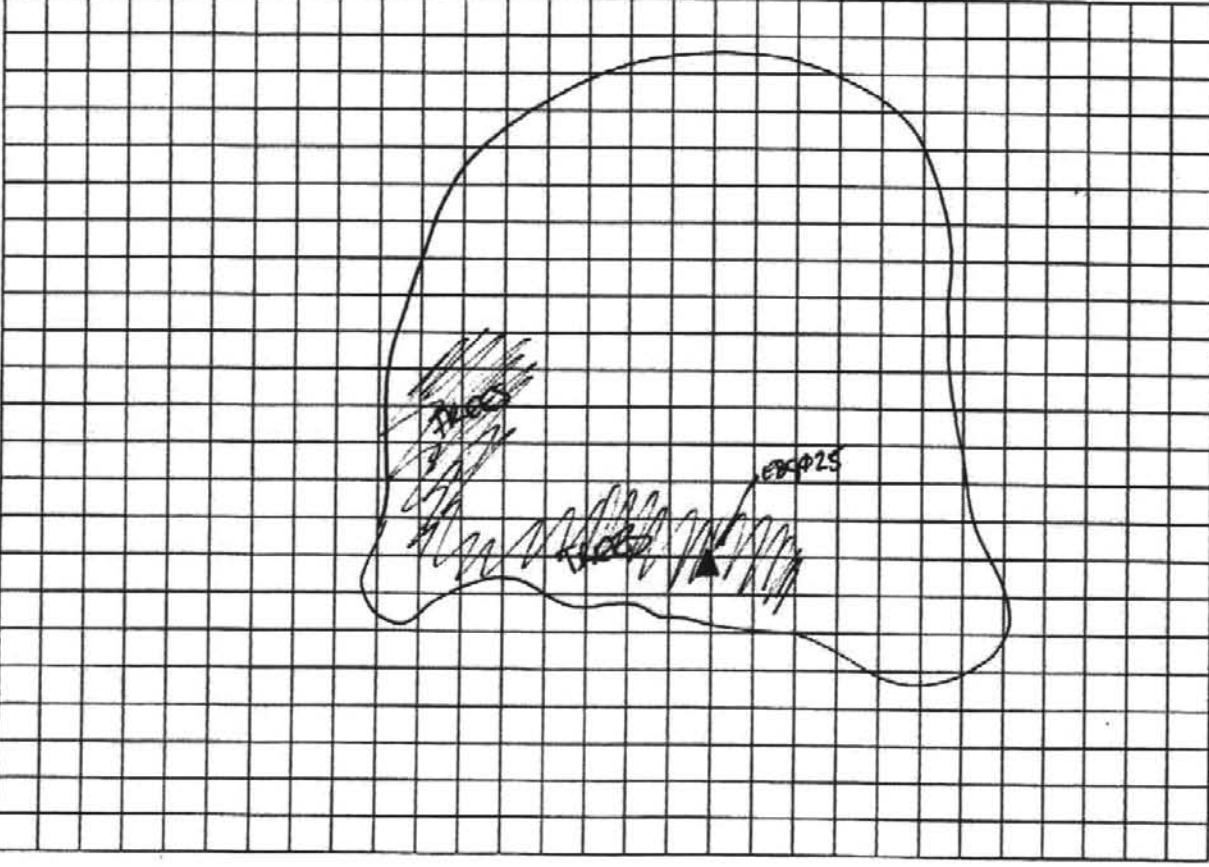
SHEET **2 OF 2**

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, medium stiff, med. plasticity, 1/4 R 4/3 brown CLAY with some silt, trace coarse gravel to 3/8mm, abundant root material.	4 ppm SRA 6/2/05	NA	RQ-0124 @ 152' RQ-0157 & RQ-0158 also collected	PID: 0.0 ppm SRA 6/2/05
	Total Depth @ 1.0'					

8

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER RQL-025	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
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: RQL		9. SURFACE ELEVATION: 940.79 <i>SRA 8/12/04</i>	
		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: 0'		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 SRA 8/12/04		5 VOC	Metals / cu	OTHER (SPECIFY): EXP (1)	OTHER (SPECIFY): TDC (1)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY):	21. TOTAL CORE RECOVERY %: 100%
23. SIGNATURE OF INSPECTOR <i>[Signature]</i>					

LOCATION SKETCH/COMMENTS: **SRA 8/12/04** N: **566736.96** E: **2376139.37** SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER **RQ1025**

PROJECT: **Ramsdell Quarry Phase I RI**

INSPECTOR *T. Brown*

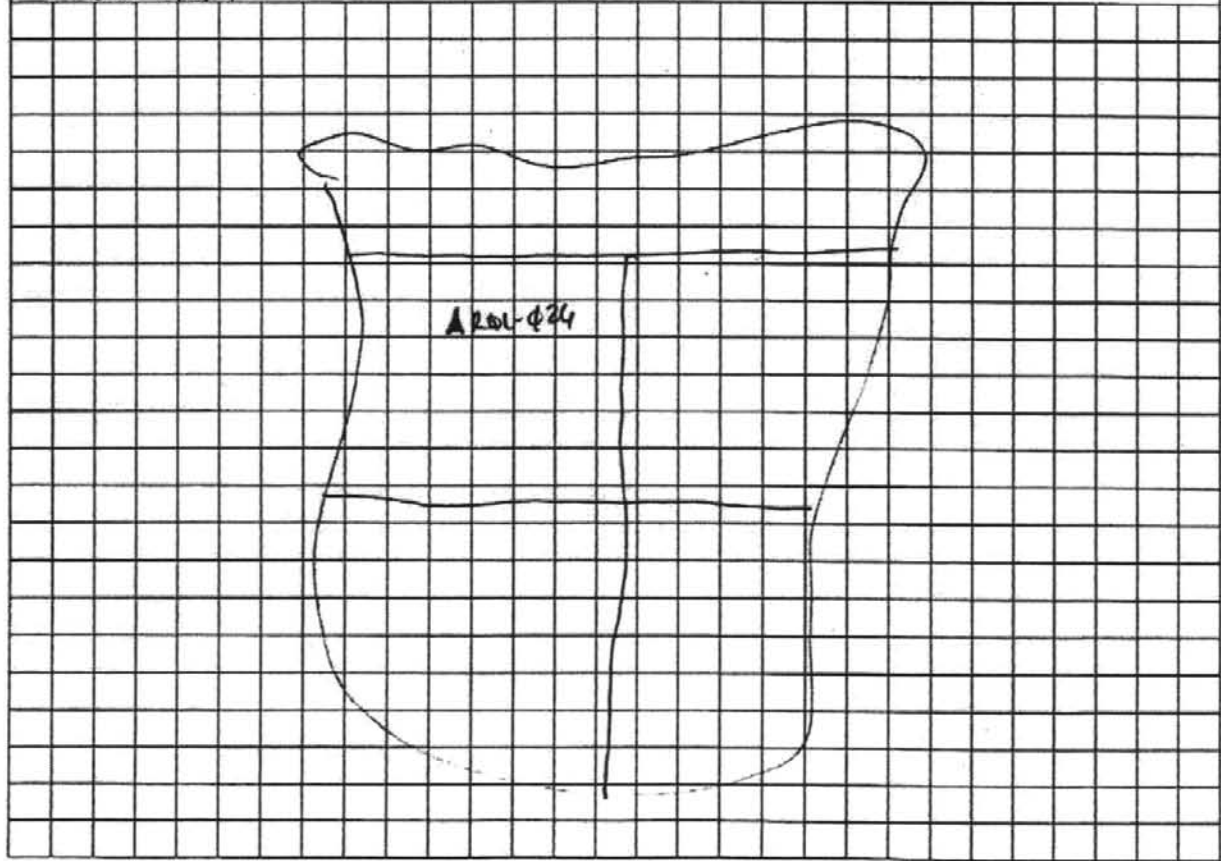
SHEET **2 OF 2**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0'	Moist to slightly moist, loose, fine SAND & coarse gravel (up to 65mm) with little clay, abundant root material, 1/4 to 1/2 dark grayish brown & 1/4 to 5/8 yellowish brown	0.0 ppm SRA 4/2/05	NA	RQ1025 @ 1620	PID: 0.0 ppm SRA 4/2/05
		Total Depth @ 1.0'				

13

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER RQL-026	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 3	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
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 bail & spoon		8. HOLE LOCATION: RQL		9. SURFACE ELEVATION: 961.09 SRA 8/12/04	
		10. DATE STARTED: 11/04/03		11. DATE COMPLETED: 11/04/03	
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: φ 8' refusal on large cobbles		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		5 VOC		METALS 1	
		1		OTHER (SPECIFY): 1 explos.	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Bentonite		OTHER (SPECIFY):	
				23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	
19. TOTAL NUMBER OF CORE BOXES: NA		21. TOTAL CORE RECOVERY: 2.00			

LOCATION SKETCH/COMMENTS: **SRA 8/12/04** N: 566667.81 E: 2375905.01 SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER **RQ-026** 14

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR *T. B...*

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'	Most, loose to med. dense, angular to subangular Coarse GRAVEL (1φ 4R 2/1 black & 1φ 4R 4/6 dark yellowish brown) with some clay.	φ ppm (φ 5 ppm directly in hole)	NA	RQφ126@ 1425	PID: φ ppm (φ.5 directly in hole) SRA 6/2/05
	1.0'	Total Depth @ φ.8'				

18

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER R6L-027	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA			SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry			
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: R6L		
12. OVERBURDEN THICKNESS AB ϕ-8'			15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK ϕ-ϕ'			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE ϕ-8'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES NA
20. SAMPLES FOR CHEMICAL ANALYSIS		2VOC		METALS/CYAN	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY ~80
23. SIGNATURE OF OPERATOR		B. ...		[Signature]		
LOCATION SKETCH/COMMENTS SRA 8/12/04 N: 566561.24 E: 2375945.65 SCALE: NA						

HTRW DRILLING LOG

HOLE NUMBER R04027

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR *T. Brown*

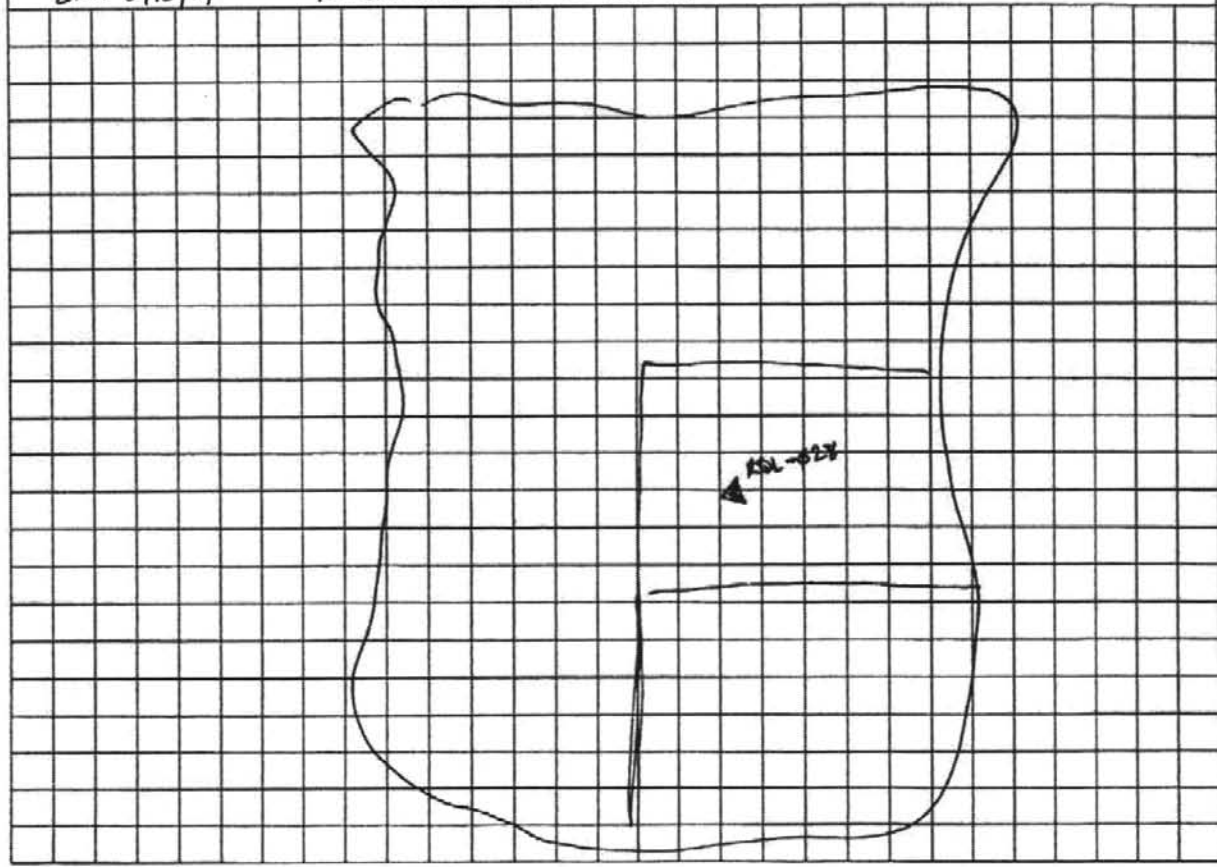
SHEET 2 OF 2

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Moist, soft, low plasticity, 104R 3/1 very dark gray CLAY, with some silt and very fine sand.	0 ppm SRA 6/2/05	NA	R04027e 1455	PID: 0 ppm SRA 6/2/05
	1.0'	0.8' Total Depth refusal on bedrock				

23

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER ROL 028	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR NA		SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. TOOLS AND TYPES OF DRILLING AND SAMPLING EQUIPMENT STAINLESS STEEL HAND AXE STAINLESS STEEL BOWL & SPOON		8. HOLE LOCATION: ROL		9. SURFACE ELEVATION: 960.87 SRA 8/12/04	
		10. DATE STARTED: 11/04/03		11. DATE COMPLETED: 11/04/03	
12. OVERBURDEN THICKNESS: 4 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: 0.5' refusal on rocks		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: 50	
		3 VOC		METALS: 1 CYAN	
		1		OTHER (SPECIFY): 1 EXPLOS.	
				OTHER (SPECIFY): 2 TOC	
22. DISPOSITION OF HOLE: BACKFILLED		MONITORING WELL		OTHER (SPECIFY):	
Bentonite				23. SIGNATURE OF INSPECTOR: T. Brown	

LOCATION SKETCH/COMMENTS: SRA 8/12/04 N: 566586.09 E: 2376220.73 SCALE: NA



HTRW DRILLING LOG

HOLE NUMBER R06028

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR *[Signature]*

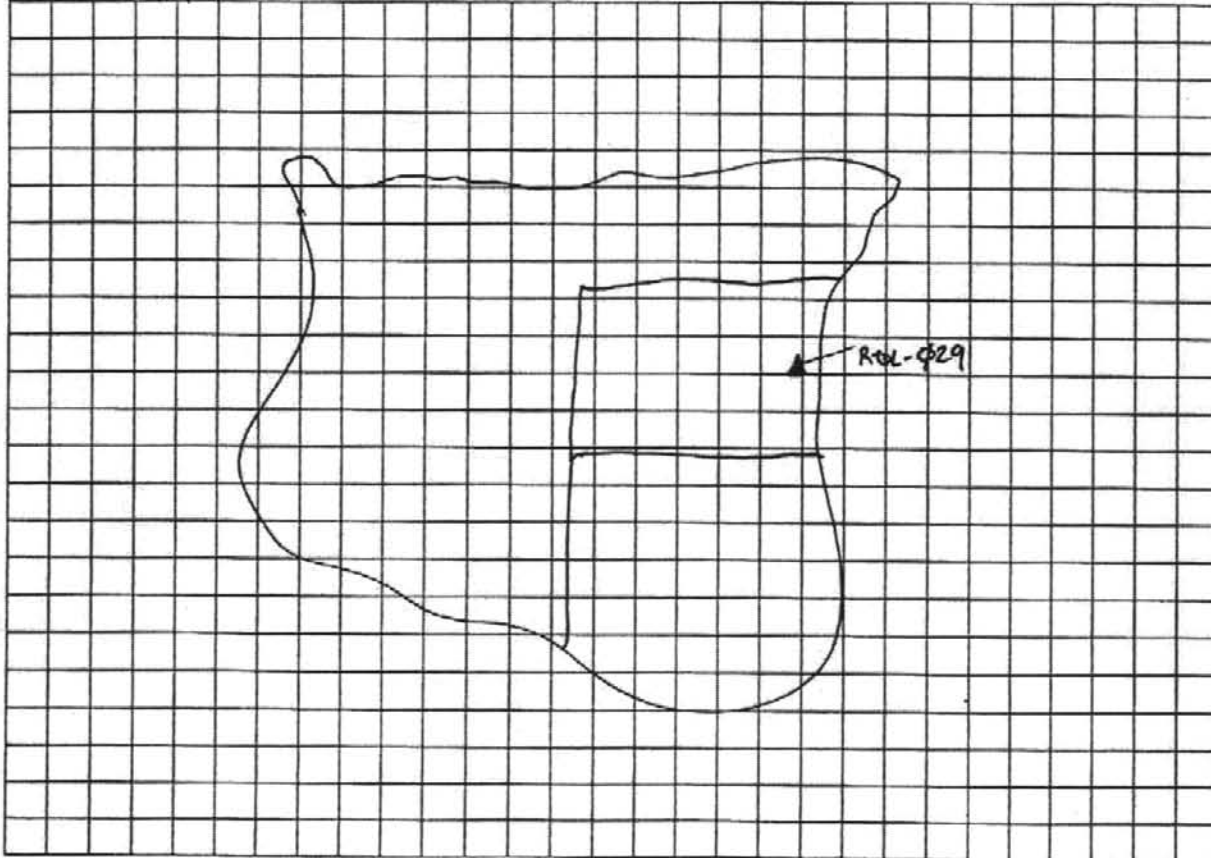
SHEET 2 OF 2

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 to wet. loose to med. dense, 1/4 R 3/2 very dark grayish brown fine to coarse GRAVEL with some clay, abundant root material.	0 ppm SRA 6/2/05	NA	R06028 @ 11' 4"	PID: 0 ppm 6/2/05 SRA
	1.0'	Total Depth @ 0.5' Refusal on large gravel				

28

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER R0L-φ29	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
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: R0L			
		9. SURFACE ELEVATION: 961.20 SRA 8/12/04			
		10. DATE STARTED: 11/04/03		11. DATE COMPLETED: 11/04/03	
12. OVERBURDEN THICKNESS: φ.5'		15. DEPTH GROUNDWATER ENCOUNTERED: NA			
13. DEPTH DRILLED INTO ROCK: φ.φ'		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE: φ.5' refusal on bedrock		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES					
20. SAMPLES FOR CHEMICAL ANALYSIS		SVC		METALS FORAM	
		1		1	
				OTHER (SPECIFY):	
				1 Explos.	
				2 TOC	
21. TOTAL CORE RECOVERY: ~50%					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Backfilled			
				OTHER (SPECIFY):	
				23. SIGNATURE OF INSPECTOR	
				<i>[Signature]</i>	

LOCATION SKETCH/COMMENTS
SRA 8/12/04 N: 566609.20 E: 2376331.58 SCALE: NA



HTRW DRILLING LOG

HOLE NUMBER ROL-029

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR *T. B...*

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 med. stiff, med. plasticity, 1φ4R 4/4 dark yellowish brown 1φ4R 0/8 brownish yellow CLAY with some silt & little fine sand	φ ppm 6/2/05	N4	RQ φ129 @ 1φ1φ	PID: 0 ppm SRA 6/2/05
	1.0'	Total Depth @ φ.5' Refusal on bedrock				
		7/8				

33

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER R0L-030	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR NA		SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: R0L		9. SURFACE ELEVATION: 966.27 SRA 8/12/04	
Stainless steel hand auger Stainless steel bowl & spoon				10. DATE STARTED: 11/24/03 11. DATE COMPLETED: 11/24/03	
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			
		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		3 VOC		1 Metals	
		1		1 Explos.	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Ramsdell		OTHER (SPECIFY):	
				23. SIGNATURE OF INSPECTOR	
				T. Korman	
LOCATION SKETCH/COMMENTS		N: 566 445.48 E: 237 5932.05		SCALE: NA	
SRA 8/12/04					

34

HTRW DRILLING LOG

HOLE NUMBER **RQ030**

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR *T. Brun*

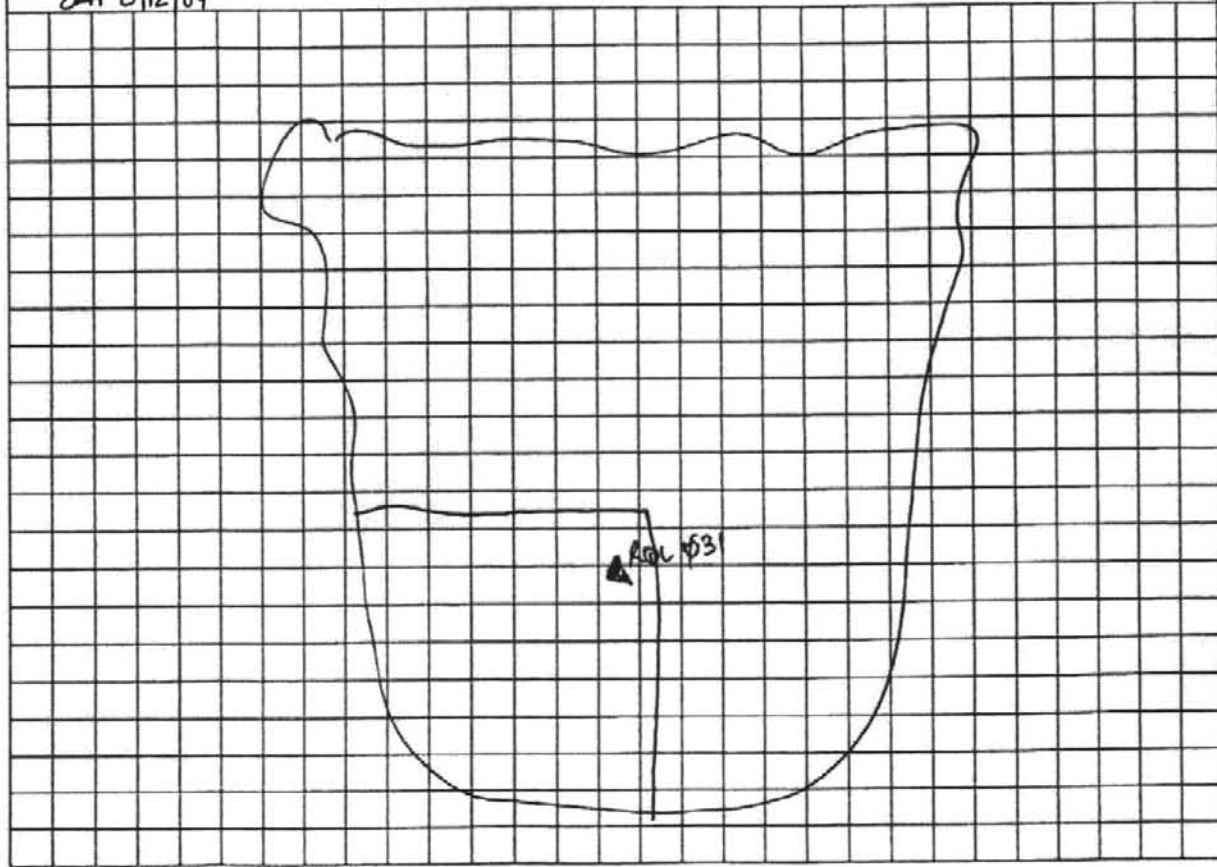
SHEET **2** OF **2**

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 med. dense, low plasticity, 10% R41, dark gray SILT w/ little clay.	0 ppm SRA 6/2/05	NA	RQ030 1210	PID: 0 ppm SRA 6/2/05
	1.0'	Total Depth @ 1.0'				

38

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER RQL-031		
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2		
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry			
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: RQL				
		9. SURFACE ELEVATION: 960.73 SEA 8/12/04				
		10. DATE STARTED: 11/04/03		11. DATE COMPLETED: 11/04/03		
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 0.7' refusal on rocks		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA				
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES NA		
20. SAMPLES FOR CHEMICAL ANALYSIS		S VOC 1	METALS for anal.	OTHER (SPECIFY) 1 EXPL.	OTHER (SPECIFY) 2 TOC	21. TOTAL CORE RECOVERY 100%
22. DISPOSITION OF HOLE		BACKFILLED Bentonite	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	

LOCATION SKETCH/COMMENTS **SEA 8/12/04** N: **566570.17** E: **2376103.54** SCALE: **NA**



HTRW DRILLING LOG

HOLE NUMBER *RQ-031*

PROJECT: Ramsdell Quarry Phase I RI

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)
	<i>0.5'</i>	<i>Moist, med dense, med. plasticity, 10YR 3/1, very dark gray CLAY with some silt, abundant root material</i>	<i>0 ppm SRA 6/2/05</i>	<i>NA</i>	<i>RQ031 1125</i>	<i>PID: 0 ppm SRA 6/2/05</i>
		<i>Moist, med. dense, fine to coarse GRAVEL, 10YR 3/1, Very dark gray</i>				
	<i>1.0'</i>	<i>Total Depth @ 0.7'</i>				

43

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER RQL-032		
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2		
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry			
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: RQL				
9. SURFACE ELEVATION: 960.88 SRA 8/12/04						
10. DATE STARTED: 11/04/03			11. DATE COMPLETED: 11/04/03			
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		SVOC	METALS 1	OTHER (SPECIFY): EXPLOS. 1	OTHER (SPECIFY): TOC 2	21. TOTAL CORE RECOVERY: 100%
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>		
LOCATION SKETCH/COMMENTS SRA 8/12/04 N: 566363.31 E: 2376146.73 SCALE: NA						

44

HTRW DRILLING LOG

HOLE NUMBER *R06-032*

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR *T. Brown*

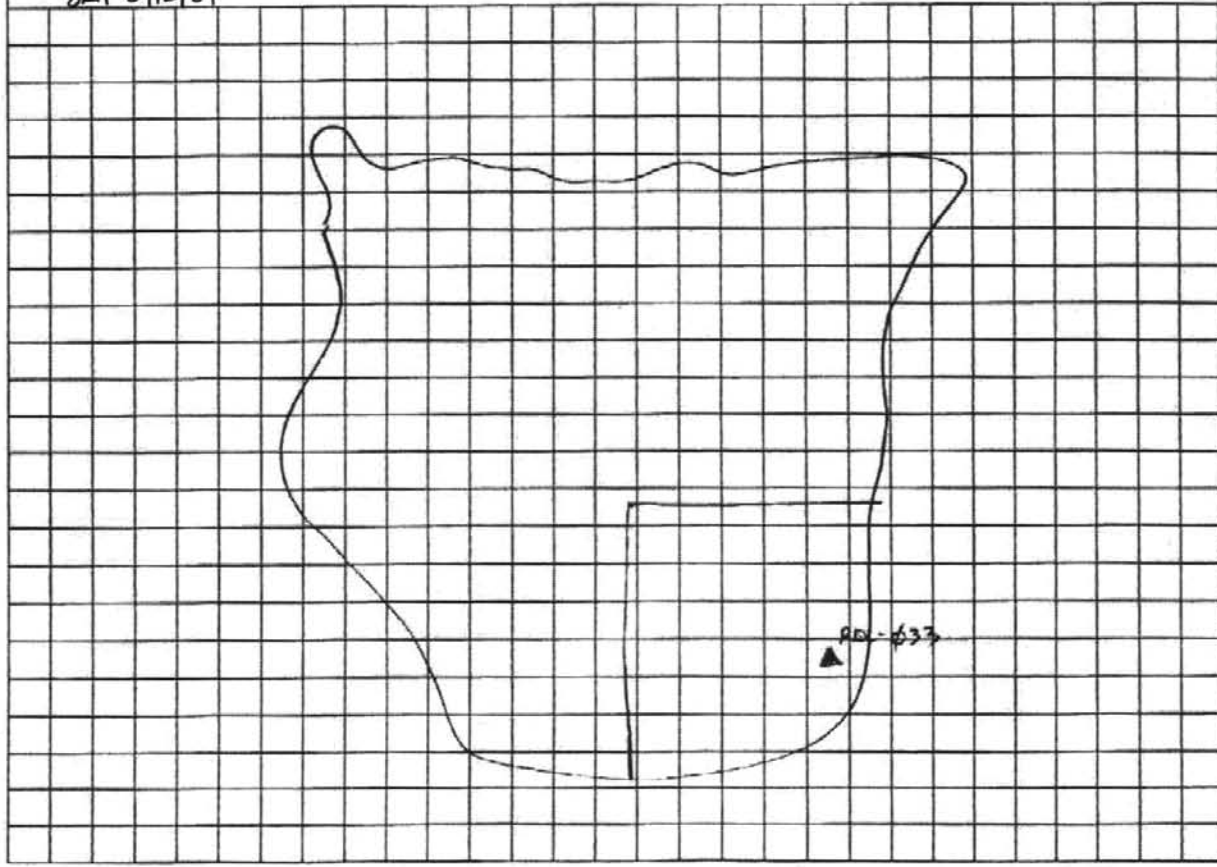
SHEET 2 OF 2

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<i>0.5'</i>	<i>Moist to very moist, loose to medium dense, 1/4" 3/4" very dark gray, fine GRAVEL and medium to coarse sand, with trace clay</i>	<i>0 ppm SRA 6/2/05</i>	<i>NA</i>	<i>R060320 020</i>	<i>PID: 0 ppm SRA 6/2/05</i>
	<i>1.0'</i>	<i>Total Depth 1.0'</i>				

48

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER R06-633	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		STAINLESS STEEL HAND AUGER STAINLESS STEEL BOWLER & SPEAR		8. HOLE LOCATION: R06L	
				9. SURFACE ELEVATION: 961.04 SRA 8/12/04	
				10. DATE STARTED: 11/04/03 11. DATE COMPLETED: 11/04/03	
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		S.VOC		METALS/CY	
		1		1	
				OTHER (SPECIFY): EXPLOS. 1	
				OTHER (SPECIFY): TOC 2	
				OTHER (SPECIFY):	
21. TOTAL CORE RECOVERY: ~10%					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Brazhnik		OTHER (SPECIFY):	
				23. SIGNATURE OF INSPECTOR	
				[Signature]	

LOCATION SKETCH/COMMENTS: SRA 8/12/04 N: 566399.05 E: 2376289.71 SCALE: NA



HTRW DRILLING LOG

HOLE NUMBER RQW-033

PROJECT: Ramsdell Quarry Phase I RI

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'	Moist to very moist, soft to medium dense, medium plasticity, 1/4 to 1/2 dark grayish brown SILT with some CLAY, trace gravel	0.0 ppm SRA 6/2/05	NA	RQW 133e 0914	PID: 0.0 ppm SRA 6/2/05
	1.0'	Total Depth @ 1.0'				

MULTI-INCREMENT SURFACE SOIL SAMPLES

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53

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER RQL-034	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
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: RQL		9. SURFACE ELEVATION: NA	
12. OVERBURDEN THICKNESS: NA		10. DATE STARTED: 11/05/03		11. DATE COMPLETED: 11/05/03	
13. DEPTH DRILLED INTO ROCK: NA		15. DEPTH GROUNDWATER ENCOUNTERED: 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		3 VOC / Red/BB		METALS 1	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY): None	
				19. TOTAL NUMBER OF CORE BOXES: NA	
				OTHER (SPECIFY): 1 expl.	
				OTHER (SPECIFY): 1 propell.	
				21. TOTAL CORE RECOVERY: 100%	
				22. SIGNATURE OF INSPECTOR: <i>[Signature]</i>	
LOCATION SKETCH/COMMENTS: sample coordinates NA 3RA 8/12/04 SCALE: NA					

HTRW DRILLING LOG

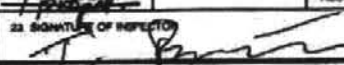
HOLE NUMBER **R01034** 54

PROJECT: Ramsdell Quarry Phase I RI

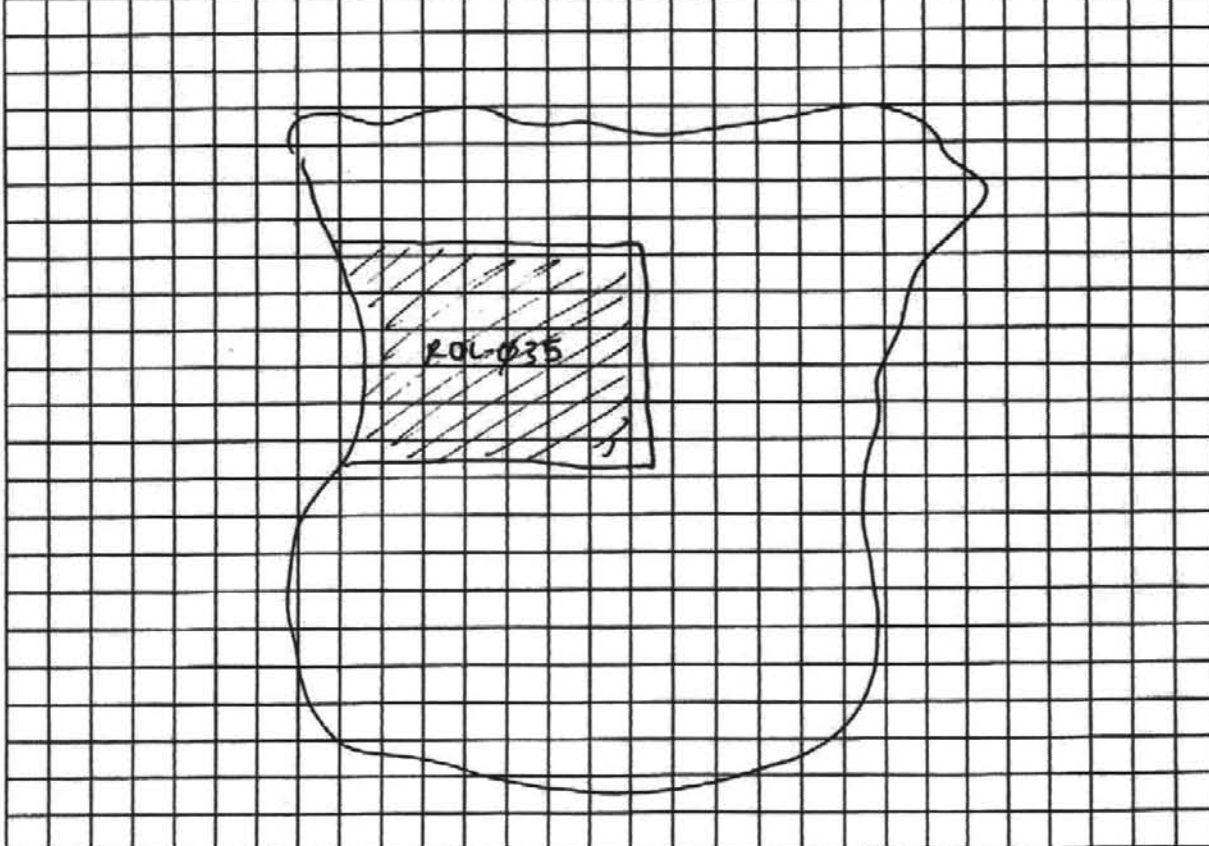
INSPECTOR *[Signature]*

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'	Moist, med stiff to stiff, low plasticity, 1/4R 3/2 very dark grayish brown, 2.5R 5/3 light olive brown & 1/4R 5/8 yellowish brown CLAY with some silt, trace sand, root material present.	φ ppm SRA 6/2/05	NA	R01034e φ905	PID: 0 ppm SRA 6/2/05
	1.0'	Total Depth @ 1.0'				

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER R0L-035	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1.02	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		Stainless Steel Multi-Increm. Soil Corer Stainless steel Bow) & Spoon		8. HOLE LOCATION: R0L	
				9. SURFACE ELEVATION: NA	
		10. DATE STARTED: 11/05/03		11. DATE COMPLETED: 11/05/03	
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		3/00/0000		METALS 1/0000	
				OTHER (SPECIFY) 1/0000	
21. TOTAL CORE RECOVERY: 100%				OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY) none	
				23. SIGNATURE OF INSPECTOR 	

LOCATION SKETCH/COMMENTS **sample coordinates NA 3RA 8/12/04** SCALE: **NA**



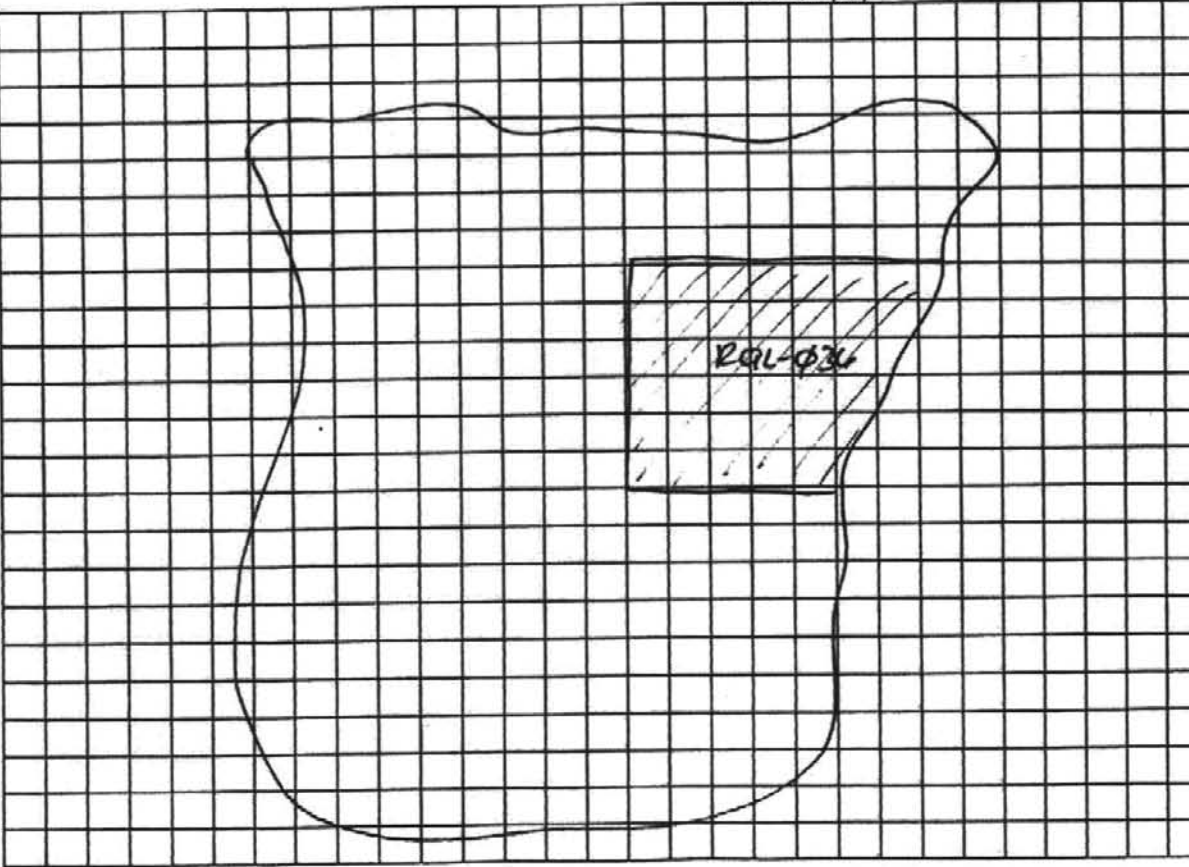
59

HTRW DRILLING LOG						HOLE NUMBER <i>201-1085</i>
PROJECT: Ramsdell Quarry Phase I R1			INSPECTOR <i>T. B...</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'	Dry to moist, used, stiff to stiff, ^{non} plastic Color 10YR 3/2 to 10YR 2/1, trace sand with some organic/root material	<i>φppmc</i> SRA 6/2/05	NA	RQφ1350 0945	PID = 0.0 ppm SRA 6/2/05
	1.0'					

63

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER RQL-034	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		Stainless Steel Multi-Increase Soil Corer		8. HOLE LOCATION: RQL	
		Stainless Steel Bowl & Spoon		9. SURFACE ELEVATION:	
				10. DATE STARTED: 11/05/03	
				11. DATE COMPLETED: 11/05/03	
12. OVERBURDEN THICKNESS		N/A		15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK		N/A		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		SYNOC 1 METALS 1		OTHER (SPECIFY) 1 ex. diox.	
21. TOTAL CORE RECOVERY		99%		OTHER (SPECIFY) 1 ex. diox.	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY) none	
23. SIGNATURE OF SUPERVISOR				T. B. [Signature]	

LOCATION SKETCH/COMMENTS **sample coordinates NA** SCALE: **NA**
SDA 01/12/04



HTRW DRILLING LOG

HOLE NUMBER *Real 136*

PROJECT: Ramsdell Quarry Phase I RI

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'	Moist med. stiff to stiff, moderately plastic, 10YR 4/3 to 10YR 2/1 Brown to Brown Black, trace sand with some organics and root material,	Ø ppm SRA 6/2/05	NA	2001360 LØ 25	PID: Ø ppm SRA 6/2/05
	1.0'	total depth 1.0'				

69

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER ROL-φ37	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA			SHEET 1 of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry			
5. NAME OF DRILLER: NA			8. MANUFACTURERS DESIGNATION OF DRILL: NA			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		STAINLESS STEEL MULTI-INCREMENTAL SOIL CORER		8. HOLE LOCATION: ROL		
		STAINLESS STEEL BOWL & SPOON		9. SURFACE ELEVATION:		
12. OVERBURDEN THICKNESS: NA		10. DATE STARTED: 11/φ4/φ3		11. DATE COMPLETED: 11/φ4/φ3		
13. DEPTH DRILLED INTO ROCK: NA		15. DEPTH GROUNDWATER ENCOUNTERED: 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		19. TOTAL NUMBER OF CORE BOXES: NA
20. SAMPLES FOR CHEMICAL ANALYSIS		SWOC	METALS/CYAN.	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
		1	1	EXPLOSIVES		
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY % 100	
			None		23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	
LOCATION SKETCH/COMMENTS sample coordinates NA SEA 8/12/04 SCALE: NA						

69

HTRW DRILLING LOG

HOLE NUMBER RQ-037

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR

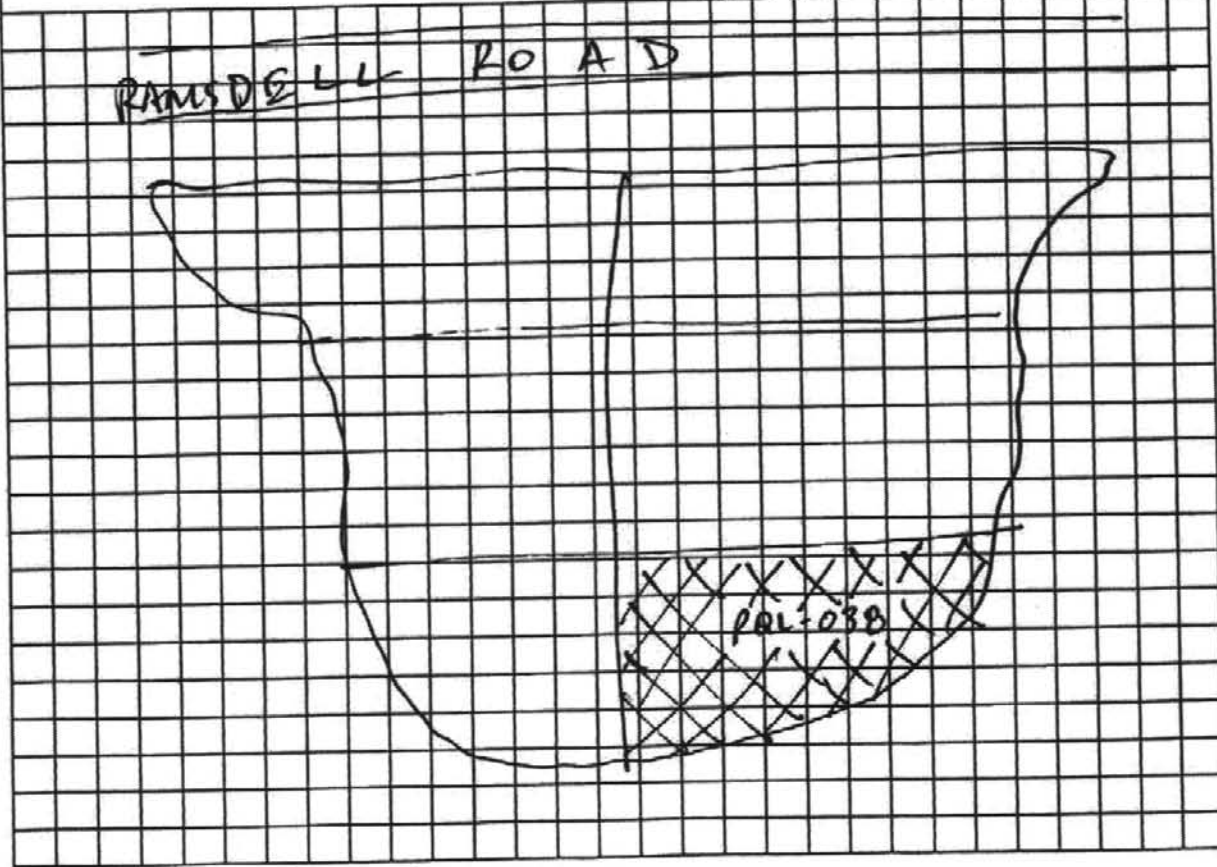
SHEET 2 OF 2

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, medium stiff, medium plasticity, 1/4 YR 2/2 very dark brown & 1/4 YR 5/2 grayish brown, CLAY with some silt, trace gravel, trace sand.	0.0 ppm SRA 6/2/05	NA	RQ037 @ 1600	PID: 0.0 ppm SRA 6/2/05
	1.0'	Total Depth @ 1.0'				

73

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER RQL-038	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L of 2	
3. PROJECT: Ramsdell Quarry Phase I RI			4. LOCATION: Ramsdell Quarry		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Incremental soil corer Stainless steel bowl and screen		8. HOLE LOCATION: RQL		9. SURFACE ELEVATION:	
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA		10. DATE STARTED: 11/04/03 11. DATE COMPLETED: 11/04/03	
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	
14. TOTAL DEPTH OF HOLE: 1.05'		18. GEOTECHNICAL SAMPLES		19. TOTAL NUMBER OF CORE BOXES	
		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		SVC		METALS/CYA	
		1		1 exposures	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY): None	
				23. SIGNATURE OF INSPECTOR T. Burt	
21. TOTAL CORE RECOVERY (%)					

LOCATION SKETCH/COMMENTS **Sample coordinates NA SPA 8/12/04** SCALE:



74

HTRW DRILLING LOG

HOLE NUMBER **RQ1-038**

PROJECT: Ramsdell Quarry Phase I RI

INSPECTOR

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' 1.0'	Moist med. stiff to stiff, med. plastic to plastic, color dark gray (10YR 4/1) to dark grayish brown (10YR 4/2) trace sand and gravel some organic and root material	0.0 ppm 4/2/05 SRA	N/A	RQ0138	PID: 0.0 ppm SRA 4/2/05
		total depth: 1.0'				