APPENDIX J

			HTW DRILLII	NG L	OG				HOLE	NO.	600S	
PROJEC	т			10. HO	LE LOCATIO				1	SHEET		SHEETS
1. LOCA	TION	Guterl	Steel	11 NO	OF OVERB	A05B URDEN GEOTE	CH SAMPLES			1 DISTURE	OF SED	1 UNDISTURBED
		Lockp	ort, NY			2				0		2
2. COMF	PANY			12. SAI	MPLES FOR	RADIOLOGICAL		t- 0.7.5	4	13. Total Number	er of Core	Boxes
3. DRILL	ING COM	Earth PANY	1 ecn	14. SUI	RFACE ELEV	See Table YATION AT HOLI	es 3.7.5-1 E	to 3.7.5	-4	2 15. ELEVATION DATUM		
		SJB				610.54 ft					D 198	
4. MANU	IFACTURE	CME -	GNATION OF DRILL - 75	17. DA	TE HOLE ST	ARTED 7/13/2007	7			18. DATE HOLE		7/23/07 (pad)
5. SIZE	AND TYPE	OF EQUIF	PMENT	16. DE	PTH OF GRO	UNDWATER EN	NCOUNTERED			7/13/2007 (0	oning),	1723/07 (pau)
6 NAME	OF DRILL	2-inch	splitspoon ; 6 1/4 inch ID HSA	19 WF	ATHER	Not enco	untered ir	overbur	den.			
O. 147 UVIE	OF BRIDE			10. ***	/ TILL	Rain; 70-	85 F; mod	derate wii	nd and h	numidity		
7. THICK	(NESS OF	OVERBUR		20. DIS	POSITION C	F HOLE						
8. DEPT	H DRILLEI	8.0 D INTO RO	ft ck	21. NAI	ME OF INSPI	Complete ECTOR	ed as over	burden n	nonitorir	ng well		
		0.0	ft									
9. TOTA	L DEPTH (8.0	ft	22. SIG	NATURE OF	INSPECT						
ELEV-		LEGEND		REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW			
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT		REMARI	KS
	_	1										
	_											
	1_											
	' -											
	_											
	2—									Auge	r to 8'.	
	_											00D drilling
	_										r geol	
	3—									descr	iptions	S.
	3 -									Doole		I DID.
	_									0.0 p	ground	יטוא ג
	_											d cpm:
	4—									41 cp	m	
	_											
	_									Shelb	y tube	es -
	5—											om pilot
	_									hole a	as follo	ows:
	6—									3-5' b	gs 7/2	3/07 10:00
										am, 1	6" rec	overy
	_											
	7—											3/07 10:15
	, -									am, 2	1" rec	overy
	_											
	8—											
	0-											
	_											
	9 —											
	9—											
	_											
	10											
	10—	1										

			HTW DRILLIN						HOLE			
PROJECT	C	Guterl Ste	eel	10. HOLE	ELOCATION	√ A05B				SHEET 1	SHEETS OF 2	
1. LOCATIO	ON	ockport,		11. NO. 0	OF OVERBU	JRDEN GEOTECH	SAMPLES			DISTURBED N/A	UNDISTURBED N/A	
2. COMPAN	NΥ	Earth Tec		12. SAM	PLES FOR F	RADIOLOGICAL AI		to 3.7.5	-4	13. Total Number of C		
3. DRILLING	G COMPAN	IY	11	14. SURF	FACE ELEV	ATION AT HOLE	3 3.7 .5-1	10 3.7.5	4	15. ELEVATION DATE		
4. MANUFA	ACTURER'S	SJB DESIGNATIO	N OF DRILL	17. DATE	HOLE STA					NAVD 1988 18. DATE HOLE COMPLETED		
5. SIZE ANI		EQUIPMENT		16. DEPT	TH OF GRO	7/12/2007 UNDWATER ENCO	OUNTERED			7/23/200	7	
6. NAME OI	2 F DRILLER	2-inch spl	itspoon ; 6 1/4 inch ID HSA	19. WEA	THER	7.0 ft (in ov	verburde	en)				
7 THICKNE	ESS OF OV	ERBURDEN		20 DISP	OSITION OF		70-85 F;	moderat	e wind a	and humidity		
8. DEPTH D	7	7.9 ft	to weathered bedrock			Completed	as bed	rock mon	itoring v	vell		
	0).5 ft			E OF INS							
9. TOTAL D		HOLE 23.4 ft		22. SIGN	ATURE OF	INSPECTOR						
		EGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No. (TIME)	PID (ppm)	Ludlum 2221/44-10 Nal (cpm)	Nal 2221 2X2 - 1 min. (counts)	BLOW	REMA	ARKS	
	1		(Native) Grayish brown clayey silt, trace organics,	1.4	N/A	0.1 ppm		N/A	3	Backgrou 0.1 ppm	ind PID:	
	2		fine sand, trace mottling. At tip gravel pieces, dry			@ backg	jround		7 7	Backgrou 45 cpm	ınd Nal:	
			Same as above to 0.3	1.8	N/A	@ backg	ıround	N/A	6 9			
	3-		0.3-1.8 brown fine sandy silt, trace medium to coarse sand and fine gravel, moist	1.0	14/7	© buong	jiouria	14//	9			
	5		Same as above w/ tan silt pods	2.0	N/A	@ backg	jround	N/A	5 7 9			
	6		Top 0.5 slough from above						12			
	7-		Same as above grading to silt (water at 7.0)	1.9	N/A	@ backg	ground	N/A	9 11 21 50/0.4			
	8 Auger to 8.4' and set 4-inch				asing							
	8.4 9 -		7/16/07 (Run 1 and Run 2) Gray dolostone (Goat Island Member of the Lockport Group), vertical fractures at 1.3-1.45, few calcite filled	3.1	N/A	0.0 ppm	cpm @ ackgrour	N/A	N/A	Corebox RUN 1 RQD 61%		
	10		vugs							water los	s: 10 gal	

			HTW DRILLIN	IG L	_OG				HOLE	NO. 600D
PROJE	СТ	Guterl	Steel							SHEET SHEETS 2 OF 2
1. LOCA	ATION		ort, NY	21. NAM	E OF INSPE	ECTOR				
2. COMI	PANY	Earth -		22. SIGN	NATURE OF	INSPECTOR				
ELEV- ATION		LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No.	PID (ppm)	Ludlum 2221/44-10	Nal 2221 2X2 - 1 min.	BLOW COUNT	REMARKS
	10 _ - 11 —				(TIME)		Nal (cpm)	(counts)		RUN 1 continued
	11.9 — 13 — 14 — 15 — 16 — 16.9 —		Gray dolostone (Goat Island Member of the Lockport Group), few vugs (filled and At 12.15 - 13.2 very broken gravel-sized pieces		N/A	0.0 ppm	cpm @ ackgrour	N/A	N/A	Corebox 1 RUN 2 RQD 37% water loss: 55 gal Overburden casing comes loose - grout up to ground surface between casing and borehole
	18— 18— 19— 20— 21—		7/23/07 Run 3 and Run 4 Gray dolostone (Goat Island Member of the Lockport Group), few shale partings	5.0	N/A	0.0 ppm b	30 cpm @ ackgrour		N/A	Corebox 2 RUN 3 RQD 58%
	21.9— — 23— 23.4		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings	1.5	N/A	0.0 ppm	30 cpm @ ackgrour		N/A	Corebox 2 RUN 4 RQD 42% Driller stated that one earlier run must have been short

			HTW DRILLIN	G L	OG				HOLE	NO. 601I		
PROJEC	т				E LOCATIO					SHEET	SHEETS	
1. LOCA	TION	Guterl	Steel	11. NO.	OF OVERB	A04A URDEN GEOTEC	CH SAMPLES			1 c	DF 2	
		Lockpo	ort, NY			N/A				N/A	N/A	
2. COMP	PANY	E	T L	12. SAN	IPLES FOR	RADIOLOGICAL		1-075	4	13. Total Number of Co	re Boxes	
3. DRILL	ING COM	Earth PANY	recn	14. SUF	RFACE ELEV	See Table		to 3.7.5	-4	2 15. ELEVATION DATUI	M	
		SJB				602.42 ft				NAVD 1988		
4. MANU	JFACTURE	ER'S DESIG CME -	NATION OF DRILL	17. DAT	E HOLE ST	ARTED 7/11/2007	,			18. DATE HOLE COMP		
5. SIZE A	AND TYPE	OF EQUIP		16. DEF	TH OF GRO	OUNDWATER EN		7/18/2007 (coring), 1/24/07 (pau)			
6 NAME	OF DRILL		splitspoon ; 6 1/4 inch ID HSA	19. WE	ATHER	Not encou	den.					
O. IVAIVIL	OI DIVILL			13. WL7	ATTIEN	Overcast:	70-85 F:	moderat	e wind a	and humidity		
7. THICK	KNESS OF	OVERBUR		20. DISPOSITION OF HOLE								
8. DEPTI	H DRILLEI	2.2 D INTO ROO	ft CK	Completed as bedrock monitoring well								
			ft (for socket)									
9. TOTAI	L DEPTH (22. SIG	NATURE							
		20 LEGEND	ft	REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW			
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	REMA	RKS	
	- - 1-		0-0.8 Fill material - black and brown cinders/slag & silt and fine sand, dry	1.5	N/A	0.4 ppm	48 cpm	N/A	6 21	Backgrour 0.3 ppm	nd PID:	
	- - 2-		0.8-1.5 Gray weathered bedrock (dolostone)			b	@ ackgrour	nd	37 45	Backgrour 48 cpm	nd Nal:	
	3-		no recovery - shoe fell off in hole	0.0	N/A	N/A	NA	N/A	50/0.2			
	4 —		Weathered bedrock dolostone (Goat Island Member of the Lockport Group).	0.3	N/A	No rea	-	N/A	50/0.3	Auger to 5 drive splits dolostone (50/0.0)	spoon,	
	5—		coring 7/18/07				Ü					
	6— - - 7— -		Brownish gray dolostone (Goat Island Member of the Lockport Group). Very fractured, many vertical fractures	4.7	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 1 RQD 16% water loss		
	8— - - 9—		8-13" gravel size pieces								g	
	_ _ 10_											

			HTW DRILLIN	IG I	OG				HOLE	NO. 601D
PROJECT	Γ	Guterl	Steel							SHEET SHEETS 2 OF 2
1. LOCAT	ION		ort, NY	21. NAN	ME OF INSP	ECTOR				
2. COMP	ANY	Earth -		22. SIG	NATURE					
	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No. (TIME)	PID (ppm)	Ludlum 2221/44-10 Nal (cpm)	Nal 2221 2X2 - 1 min. (counts)	BLOW	REMARKS
	10 _ - 11 _ - 12 _ - 13 _ - - 14 _ -		Brownish gray dolostone (Goat Island Member of the Lockport Group). Shale partings, calcite filled vugs	5.0	N/A	0.0 ppm @ back	32 cpm ground	N/A	N/A	Corebox 1 RUN 2 RQD 32% water loss: 50 gal
	15— 16— 17— 18— 19— 20—		Gray dolostone (Goat Island Member of the Lockport Group).	5.0	N/A	0.0 ppm @ back	32 cpm ground	N/A	N/A	Corebox 2 RUN 3 RQD 58% water loss: 10 gal 100% water loss

			HTW DRILLIN						HOLE	NO. 602D		
PROJEC	CT	Cutori C	Naci	10. HOL	E LOCATIO					SHEET SHEETS		
1. LOCA	TION	Guterl S	oteei	11. NO.	OF OVERB	A04A URDEN GEOTEC	CH SAMPLES			1 of 2 DISTURBED UNDISTURB	ED	
		Lockpoi	rt, NY			N/A				N/A N/A		
2. COMP	PANY	Comb T		12. SAN	IPLES FOR	RADIOLOGICAL		to 0.7.5	4	13. Total Number of Core Boxes		
3. DRILL	ING COM	Earth To	ecn	14. SUR	RFACE ELEV	See Table		10 3.7.5	-4	2 15. ELEVATION DATUM		
		SJB				601.15 ft				NAVD 1988		
4. MANU	JFACTURI	ER'S DESIGN CME - 7	ATION OF DRILL	17. DAT	E HOLE ST	ARTED 7/11/2007				18. DATE HOLE COMPLETED 7/19/2007		
5. SIZE A	AND TYPE	OF EQUIPM	=	16. DEP	TH OF GRO	UNDWATER EN				1/19/2007		
		2-inch s	plitspoon ; 6 1/4 inch ID HSA			Not encou	ıntered ir	overbur	den.			
6. NAME	OF DRIL	LER		19. WE	ATHER	Overcast:	high humidity					
7. THICK	KNESS OF	OVERBURD	EN	20. DISF	POSITION O	F HOLE	70 00 1 ,	moderat	.c wiiia,	riigir riairiiaity		
o DEDT	II DDII I E	3 ft		Od NIAN	AE OE IN	Complete	d as bedi	rock mon	itoring v	vell		
8. DEPTI	H DRILLE	2.5 ft		Z1. NAIV	21. NAME OF IN							
9. TOTA	L DEPTH	OF HOLE		22. SIGI	NATURE						\dashv	
ELEV-	DEPTH	20.5 ft		REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW		4	
ATION	(FEET)	LEGEND	CLASSIFICATION OF MATERIAL	(ft)	No.	(ppm)	2221/44-10	2X2 - 1 min.	COUNT	REMARKS		
					(TIME)		Nal (cpm)	(counts)				
	_		0-0.6 Black and brown slag							Background PID:		
	_	4	& cinders and silty fine sand,	0.0	NI/A	0.0	40 0000	NI/A	4	0.3 ppm		
	1 —	1	dry	8.0	N/A	0.3 ppm	48 cpm	N/A	6 9			
	-	1	0.6-0.8 Tan fine sand, dry,						22	Background Nal:		
	_]	trace silt (possibly native)							48 cpm		
	2-										_	
	-	1										
	_		0-0.2 Same as above						28			
	3-		0.2-0.5 weathered dolostone	1.5	N/A	1.7 ppm	cpm	N/A	33 50			
	-	1	0.5-1.1 same as 0-0.2 1.1-1.5 weathered dolostone			b	l < ackgrour	l nd	50			
]	dry									
	4-											
	-	1	0-0.3 Same as above, dry							Drive spoon at 5' bg		
	_	1	0.3-0.5 orangish brown	0.5	N/A	No rea	dings	N/A	31	Drive spoon at 50/0. bgs, slough from	.2'	
	5 —		clayey silt, trace coarse			abo			50/0.1	above, ground up		
	-	1	sand, stiff, moist, trace gravel (NATIVE)			backgı	round			dolostone		
			graver (IVATIVE)							Auger refusal at 5.5'	' ;	
	6-		7/19/2007							set 4-inch casing		
	-	4										
	_	1 1	Brownish gray dolostone (Goat Island Member of the	4.5	N/A	0.0 ppm	33 cpm	N/A	N/A	Corebox 1		
	7-		Lockport Group), very			@ back				RUN 1		
	′ -	4	fractured, especially top 1.5							RQD 0%		
	_	1	feet - clay seams, few calcite									
	-	1	filled vugs, becomes grayer							water loss: 20 gal		
	8-		with depth, several vertical									
	_	4	fractures noted									
	-	1										
	9-]										
		4										
		1										
	10—											

			HTW DRILLIN	IG L	OG				HOLE I	NO. 602	2D
PROJEC	Т	Guterl								SHEET	SHEETS
1. LOCA	TION			21. NAN	ME OF INSP	ECTOR				2	of <u>2</u>
2. COMP	PANY		ort, NY	22. SIG	NATURE O						
ELEV-	DEPTH	Earth LEGEND	Tech	REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW		
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	REM	ARKS
	10 _									Run 1 cc	ntinued
	11 —		Gray dolostone (Goat Island Member of the Lockport	5.0	N/A	0.0 ppm	33 cpm	N/A	N/A	Corebox	1
	12—		Group), few shale partings, few vugs with and without calcite	0.0		@ back	ground			RUN 2 RQD 36 ^o water los	%
	14 — - -										
	15 — - -										
	16— — — 17—		Gray dolostone (Goat Island Member of the Lockport	5.0	N/A	0.0 ppm	33 cpm	N/A	N/A	Corebox	2
	- -		Group), few shale partings, few vugs, less fractured than above			@ back	grouna			RUN 3 RQD 44 ^o	%
	18 - -									water los	s: 50 gal
	19 — —										
	20 —										
	_ 										
	_										
	_										
	_										

			HTW DRILLIN						HOLE				
PROJEC		Guterl	Steel	10. HOL	E LOCATIO	A04A				SHEET 1	SHEETS OF 2		
1. LOCA	TION	Lockpo		11. NO.	OF OVERB	URDEN GEOTEC	CH SAMPLES			DISTURBED N/A	UNDISTURBED N/A		
2. COM	PANY			12. SAN	IPLES FOR	RADIOLOGICAL				13. Total Number of Core			
3. DRILL	ING COMP	Earth T	Tech	14. SUF	RFACE ELE\	See Table /ATION AT HOLE	es 3.7.5-1	to 3.7.5	-4	2 15. ELEVATION DATUM	I		
4. MANI		SJB R'S DESIGN	NATION OF DRILL	17. DAT	E HOLE ST.	597.69 ft				NAVD 1988 18. DATE HOLE COMPLETED			
		CME -	75			7/11/2007				7/19/2007			
5. SIZE		OF EQUIPM 2-inch	Splitspoon; 6 1/4 inch ID HSA	16. DEF	16. DEPTH OF GROUNDWATER ENCOUNTERED Not encountered in overburden.								
6. NAME	OF DRILL	ER		19. WE	19. WEATHER Overcast; 70-85 F; moderate wind; high humidity								
7. THICK		OVERBURE		20. DIS	20. DISPOSITION OF HOLE Completed as bedrock monitoring well								
8. DEPT		3 1	ft to weathered bedrock	21. NAN	ME OF INS	Complete	d as bed	rock mon	itoring v	vell			
9. TOTA	L DEPTH C		ft (for socket)	22. SIG	NATURE								
		20 1	ft			DID.		N. I oood	BL OW/				
ELEV- ATION	(FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No. (TIME)	PID (ppm)	Ludlum 2221/44-10 Nal (cpm)	Nal 2221 2X2 - 1 min. (counts)	BLOW	REMA	RKS		
	1-		0-0.3 Brown fine to coarse sand, slag, cinders	0.8	N/A	0.1 ppm		N/A	8	Backgroun 0.0 ppm	d PID:		
	2		0.3-0.5 Tan brick, dry 0.5-0.8 Black f-c sand, slag, dry			b	@ ackgrour	nd	8 7	Backgroun 56 cpm	d Nal:		
			0-0.1 Same as above 0.1-0.3 Tan with orange	0.8	N/A	0.2 ppm	56 cpm	N/A	9 14				
	3 - - -		mottles silty clay, moist 0.3-0.8 weathered bedrock (dolostone) dry	0.0	14/7		@ ackgrour		50 50/0				
	4 		No recovery	0.0	N/A	N/A	N/A	N/A	N/A	Auger refu 4-inch casi	sal at 5.0' set		
	5— - 6— - 7—		Brownish gray dolostone (Goat Island Member of the Lockport Group), becomes more gray for last 2'. Very fractured, some fractures have clay infilling, few vugs	5.0	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 1 RQD 0.0% water loss:			
	8— - 9— - 10—		.5 1095										

			HTW DRILLIN	G I	OG				HOLE		03D
PROJEC	Т	Guterl	Steel							SHEET 2	SHEETS OF 2
1. LOCA	TION			21. NAN	ME OF INSP	ECTOR					01 2
2. COMF	PANY		ort, NY	22. SIG	NATURE						
ELEV-		Earth LEGEND		REC.	SAMPL	1			VV		
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	F	REMARKS
	10 _ - 11 — - 12 — - - 13 — - - 14 —		Gray dolostone (Goat Island Member of the Lockport Group) few vugs calcite vein (< 1/8 ") fractured, not as much as 5-10' bgs	5.0	N/A	0.0 ppm @ back	36	N/A	N/A	Corebo RUN 2 RQD 7 water lo	
	15— - 16— - 17— - 17—		Gray dolostone (Goat Island Member of the Lockport Group) few shale partings few vugs angled fractures at 2.5"-5", 42"-46"	5.0	N/A	0.0 ppm @ back		N/A	N/A	Corebo RUN 3 RQD 7	.5%
	18— - - 19— - - 20—									water k	oss: 10 gal
	- - - - - - - - - - - - - - - - - - -										

			HTW DRILLIN						HOLE	NO. 604D		
PROJEC ¹	Т	Guterl	l Steel	10. HOI	E LOCATIO	A04D				SHEET SHEETS 1 OF 2		
1. LOCAT	TION		ort, NY	11. NO.	OF OVERB	URDEN GEOTEC	H SAMPLES			DISTURBED UNDISTURBED N/A N/A		
2. COMP	ANY			12. SAN	IPLES FOR	RADIOLOGICAL				13. Total Number of Core Boxes		
3. DRILLI	NG COMPAI	Earth	lech	14. SUF	RFACE ELEV	See Table /ATION AT HOLE		to 3.7.5	-4	2 15. ELEVATION DATUM		
4 MANI I	FACTI IDED'	SJB	ATION OF DRILL	17 DAT	E HOLE ST	596.25 ft				NAVD 1988 18. DATE HOLE COMPLETED		
		CME -	- 75	III. DAI	E HOLE 31	7/10/2007				7/12/2007 (coring); 7/18/07 (pad)		
5. SIZE A	ND TYPE O		ENT I splitspoon ; 6 1/4 inch ID HSA	16. DEF	TH OF GRO	Not encou		overbur	den	-		
6. NAME	OF DRILLEF		r spinispoori , o 1/4 inchi lo i loA	19. WE	ATHER							
7. THICKI	NESS OF O	/ERBURDI	EN	20. DIS	POSITION C	Rain; 70-8	85 F; mod	derate wi	nd and h	numidity		
o DEDTI	DRILLED IN		ft	04 NAN	ME OF INSPI	Complete	d as bedi	ock mon	itoring v	vell		
8. DEPTE	1 DRILLED II		ft (for socket) 19.2 cored	21. NAI	VIE OF INSPI	ECTOR						
9. TOTAL	DEPTH OF		ft	22. SIG	NATURE							
ELEV- ATION	DEPTH (FEET)	19.2 LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No. (TIME)	PID (ppm)	Ludlum 2221/44-10	Nal 2221 2X2 - 1 min. (counts)	BLOW	REMARKS		
	- - 1-		Brown fine sandy silt, dry to 0.6. 0.6-1.5 orangish brown fine gravel and fine sandy	1.5	N/A	0.1 ppm	Nal (cpm) 69 cpm	N/A	6 16 27	Background PID: 0.1 ppm		
	1 — U.6. 0.6-1.5 orangish brown fine gravel and fine sandy silt, dry					No rea	-		29	Background Nal: 69 cpm		
	3— 3—		Same as above, dry Driller grinds down to 4' bgs - weathered rock?	0.5	N/A	No rea above bad	•	N/A	50/0.4			
	4.2 -		No recovery; In shoe - weathered bedrock - ground	N/A	N/A	No rea	-	N/A	50/0.4	recovery in shoe only Grind to 4.2' bgs - auger to refusal		
			core 7/12/07 Brownish gray dolostone (Goat Island Member of the Lockport Group), very Vertical fracture 0.35-1.2, clay present	1.5	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 1 RQD 0% no water loss		
	7 - 8 - 9 - 10 - 10 - 10		Brownish gray grading to gray dolostone (Goat Island Member of the Lockport Group), very fractured, few shale partings, few calcite filled vugs, clay infilling observed in some fractures.	4.9	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 2 RQD 0% water loss: 10 gal		

			HTW DRILLIN	G L	.OG				HOLE I	NO. 604D
PROJEC [*]	Т	Guterl	Steel							SHEET SHEETS 2 OF 2
1. LOCAT	ΓΙΟΝ			21. NAN	ME OF INSP	ECTOR				2 Or 2
2. COMP.	ANY		ort, NY	22. SIG	NATURE OF	-				
ELEV- ATION	DEPTH (FEET)	Earth LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No. (TIME)	PID (ppm)	Ludlum 2221/44-10 Nal (cpm)	Nal 2221 2X2 - 1 min. (counts)	BLOW COUNT	REMARKS
	10 _				(**************************************		ria (gp)	(ooumo)		
	10.7		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings, few calcite filled vugs, clay	5.0	N/A	0.0 ppm @ back	60 cpm ground	N/A	N/A	Corebox 1 & 2 RUN 3 RQD 39% water loss: 30 gal
	15.7		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings, few calcite filled vugs, clay	3.4	N/A	0.0 ppm @ back	60 cpm ground	N/A	N/A	Corebox 2 RUN 4 RQD 60% water loss: 20 gal
	19.2									

			HTW DRILLIN						HOLE	NO. 605E)	
PROJEC	CT	Guterl St	tool	10. HOLE	E LOCATION	A04B				SHEET 1 o	SHEETS F 2	
1. LOCA	TION			11. NO. (OF OVERBU	JRDEN GEOTECI	H SAMPLES			DISTURBED	UNDISTURBED	
2. COMF	PANY	Lockport	, NY	12. SAM	PLES FOR I	N/A RADIOLOGICAL /	ANALYSIS			N/A 13. Total Number of Cor	N/A e Boxes	
		Earth Te	ch			See Table	s 3.7.5-1	to 3.7.5	-4	2		
3. DRILL	ING COMF	SJB		14. SURI	FACE ELEV	598.50 ft				15. ELEVATION DATUM		
4. MANU	JFACTURE		TION OF DRILL	17. DATE	E HOLE STA					NAVD 1988 18. DATE HOLE COMPLETED		
5 SIZE	AND TYPE	CME - 7		16 DEP	TH OF GRO	7/10/2007		7/17/2007	(coring)			
		2-inch sp	olitspoon ; 6 1/4 inch ID HSA			Not encou	den.					
6. NAME	OF DRILL	_ER		19. WEA	THER	Pain: 70-9	nd and h	numidity				
7. THICK	KNESS OF	OVERBURDE	N	Rain; 70-85 F; moderate wind and humidity 20. DISPOSITION OF HOLE								
8 DEPT	H DRILLE	2.6 ft		Completed as bedrock monitoring well 21. NAME OF INSPECTOR								
O. DEI 1	II DIVILLE	0.9 ft	(for socket)	Z I. IVAIVI	L 01 11101 L							
9. TOTA	L DEPTH (· · · · ·	22. SIGN	IATURE O							
ELEV- ATION	DEPTH	18.5 ft	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No.	PID (ppm)	Ludlum 2221/44-10	Nal 2221 2X2 - 1 min.	BLOW COUNT	REMA	RKS	
	- - - 1-		Gravel top 0.2; 0.2-1.35 Brown clayey silt, trace dark	1.35	(TIME)	0.7 ppm	Nal (cpm) 52 cpm	(counts)	9	Backgroun 0.0 ppm	d PID:	
	- - 2-		orange mottling, dry to moist						11 13	Backgroun 52 cpm	d Nal:	
	3—		Orangish brown fine sandy silt, moist. Gray bedrock in tip of spoon	0.6	N/A	Nothing backgı		N/A	2 50/0.1	Auger to re to 3.5 ft to casing	efusal auger set 4-inch	
	4— 4— 5—		coring 7/17/07 Brownish gray dolostone, filled vugs (calcite) 0.2-1.5 - gravel size zone 1.8-2.0 - vertical fracture	2.0	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 1 RQD 0% water loss:	10 gal	
	6—											
	7— -		Brownish gray dolostone (Goat Island Member of the Lockport Group), very fractured, few calcite and	3.5	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 2 RQD 0% water loss:	70 gal	
	8— — — 9—		empty vugs core block									
	10—		Browish gray dolostone (Goat Island Member of the Lockport Group), few calcite filled vugs	1.0	N/A	0.0 ppm @ back		N/A	N/A	Corebox 1 RUN 3 RQD 0%		

			HTW DRILLIN	IG L	_OG				HOLE N		
ROJEC	Т	Guterl	Steel							SHEET 2	SHEETS OF 2
LOCA	TION			21. NAM	E OF INSP				<u>.</u>		O
Lockport, NY 2. COMPANY			22. SIGN	NATURE O							
ELEV-	DEPTH	Earth LEGEND	Tech	REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW		
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)		COUNT	REM	IARKS
	10 _							(**************************************		Run 3 co	ntinued
	11— 12— 13— 14— 15—		Brownish gray dolostone (Goat Island Member of the Lockport Group). Few shale partings Top 0-0.5ft gravel sized pieces	5.0	N/A	0.0 ppm @ back	36 cpm ground	N/A	N/A	Corebox RUN 4 RQD 0.7 water los	
	16— - - 17— - - 18—		Gray dolostone (Goat Island Member of the Lockport Group), few calcite filled vugs, many fractures	2.0	N/A	0.0 ppm @ back	36 cpm ground	N/A	N/A	Corebox RUN 5 RQD 179 water los	%
	- - - - - - - - - -										

			HTW DRILLIN	IG L	_OG				HOLE	NO. 606	SD.
PROJEC	т			10. HOL	E LOCATIO					SHEET	SHEETS
1. LOCA	TION	Guterl	Steel	11. NO.	OF OVERB	A03 URDEN GEOTEC	CH SAMPLES			1 DISTURBED	OF 2 UNDISTURBED
	Lockport, NY					N/A		N/A	N/A		
2. COMF	PANY	Earth 7	Foob	12. SAN	IPLES FOR	RADIOLOGICAL	1	13. Total Number of C	ore Boxes		
3. DRILL	ING COM	Earth PANY	recn	14. SUF	RFACE ELE\	See Table		10 3.7.5	-4	2 15. ELEVATION DATE	JM
		SJB				598.91 ft				NAVD 1	
4. MANU	JFACTURE	ER'S DESIG - CME	NATION OF DRILL 75	17. DAT	E HOLE ST	ARTED 7/10/2007				18. DATE HOLE COM 7/18/2007 (grou	
5. SIZE	AND TYPE	OF EQUIP	MENT	16. DEF	TH OF GRO	UNDWATER EN	COUNTERED			1710/2007 (glou	t), 1/20/01 (pau)
6 NAME	OF DRILL		splitspoon ; 6 1/4 inch ID HSA	19. WE	ATHER	Not encou	ıntered in	overbur	den.		
O. INAIVIL	OI DIVILL	LLIX		13. ***	ATTIEN	Overcast:	70-85 F:	moderat	e wind a	and humidity	
7. THICK	(NESS OF	OVERBUR		20. DISI	POSITION C	F HOLE					
8. DEPT	H DRILLEI	2.7 D INTO ROO	ft ck	21. NAN	ME OF INSP	Complete	d as bedi	ock mon	itoring v	vell	
		0.8	ft (for socket)								
9. TOTA	L DEPTH (22. SIG	NATURE						
ELEV-		20.5	ft	REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW		
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	REM	ARKS
	- - 1-		Brown fine sandy silt & organics to 0.4; 0.4-1.0 Gray	1.0	N/A	0.7 ppm	40 cpm		3 15	Backgrou 0.4 ppm	ınd PID:
	- - 2-		fine sandy silt, some course sand, dry wood in tip			b	@ ackgrour	nd	25 8	Backgrou 40 cpm	ınd Nal:
	3—		Gray and dark gray rock fragments to 0.4; 0.4-0.7 Tan fine sandy silt, trace clay, moist; 0.7-0.8 Dolostone fragments	0.8	N/A	0.6 ppm b	cpm @ ackgrour	N/A nd	22 20 25 33		
	4— - - 5—		Weathered bedrock	0.2	N/A	0.3 ppm b	cpm @ ackgrour	N/A	31 50/0.2		5.5' and set eel casing
	6— 6—		coring 7/17/07								
	7— — — 8—		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings, few calcite filled vugs	5.0	N/A	0.2 ppm @ back		N/A	NA	Corebox RUN 1 RQD 179 water los	6
	9—										

			HTW DRILLIN	G I	_OG				HOLE	
PROJEC	Т	Guterl	Steel							SHEET SHEETS 2 OF 2
1. LOCA	TION		ort, NY	21. NAN	ME OF INSP	ECTOR				
2. COMPANY Earth Tech				22. SIG	NATUR					
ELEV- ATION	(FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPLE No. (TIME)	PID (ppm)	Ludlum 2221/44-10 Nal (cpm)	Nal 2221 2X2 - 1 min. (counts)	BLOW COUNT	REMARKS
	10 _	-								Run 1 continued
	11 — 		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings, few calcite filled vugs	5	N/A	0.0 ppm				Corebox 2 RUN 2
	- - 13-		13.4 - Clay infilled fracture				remarks			RQD 52% water loss: 150 gal
	13 — - - 14 — -									cpm @ background except: 104 cpm & 99 cpm - 2.4-3.0 (12.9-13.5)
	15 - -									thought to be radon gas in fractures
	16— -									
	17 -		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings,	5.0	N/A					RUN 3 RQD 52% water loss: 100 gal
	18 -		few calcite filled vugs							
	19— - —									
	20 —									
	- - - -									
	- - -									

			HTW DRILLIN						HOLE	NO. 606DR		
PROJEC	T	Guterl S	Stool	10. HOL	E LOCATIO	A03		SHEET SHEETS 1 OF 2				
1. LOCA	TION	Gulen	oleei .	11. NO.	OF OVERB	URDEN GEOTEC	CH SAMPLES			DISTURBED UNDISTURBED		
2. COMF	PANY	Lockpoi	rt, NY	12 SAM	IPI ES FOR	N/A RADIOLOGICAL		N/A N/A 13. Total Number of Core Boxes				
2. 00WI	Earth Tech					See Table		to 3.7.5	-4	2		
3. DRILL	ING COM			14. SUR	FACE ELE	/ATION AT HOLE				15. ELEVATION DATUM		
4. MANU	JFACTURE	SJB R'S DESIGNA	ATION OF DRILL	17. DAT	E HOLE ST	599.49 ft ARTED				NAVD 1988 18. DATE HOLE COMPLETED		
5 0175	AND TYPE	CME - 7	_	46 DED	TH OF OR	10/8/2007				10/8/2007		
5. SIZE	AND TYPE		plitspoon ; 6 1/4 inch ID HSA	16. DEP	TH OF GRO	Not encou		overbur	den.			
6. NAME	OF DRILL			19. WE	ATHER							
7. THICK	(NESS OF	OVERBURDI	EN	20. DISF	POSITION C		>85 F; n	noderate	wind; hi	gh humidity		
		5 ft				Complete	d as bed	rock mon	itoring v	vell		
8. DEPT	H DRILLEI	o into rock		21. NAM	IE O							
9. TOTA	L DEPTH (30t dasing	22. SIG	TAN							
ELEV-	DEPTH	21 ft		REC.	SAMPLE	PID	Ludlum	Nal 2221	BLOW			
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	REMARKS		
			Dark brown silty fine sand, trace medium to coarse sand,	0.5	N/A	0.0 ppm		N/A	1 1 2	Background PID: 0.0 ppm		
	1— — — 2—		fine gravel, and wood pieces, dry			b	ackgrour	nd 	3	Background Nal: 65 cpm		
	3— 3—		Same as above to 0.3 0.3-0.6 tan silty clay and gravel, moist	0.6	N/A	@ back	ground	N/A	2 3 3 5			
	4— — — 5—		Sample is slough from above	0.2	N/A	@ back	ground	N/A	50/0.3 at 5'	Auger to 5' and take split spoon - dolostone chips		
	5— — — 6—								50/0.5	Auger to 6' bgs		
	6— - 7— - 8—		Brown gray grading to gray dolostone (Goat Island Member of the Lockport Group), very fractured, shale partings	2.5	N/A	@ back	ground	N/A	N/A	Corebox 1 RUN 1 RQD 0% water loss: 5 gal		
	9-		Gray dolostone (Goat Island Member of the Lockport Group), few shale partings	5	N/A	@ back	ground	N/A	N/A	Corebox 1 RUN 2 RQD 24% water loss: 10 gal		

			HTW DRILLIN	IG L	.OG				HOLE N	
PROJEC	Т	Guterl	Steel							SHEET SHEETS 2 OF 2
1. LOCA	TION			21. NAI	ME OF INSPI	ECTOR				Z
Lockport, NY 2. COMPANY				22. SIG	NATURE OF					
ELEV-	DEPTH	Earth LEGEND	Tech	REC.	SAMPLE		I	I	LOW	
ATION	(FEET)		CLASSIFICATION OF MATERIAL	(ft)	No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	REMARKS
	10 _									
	11 -									RUN 2 continued
	12 <u> </u>									
	13-									
	14— - 15— - 16— - 17— - 18—		Gray dolostone (Goat Island Member of the Lockport Group), few sahle partings.	5	N/A	@ back	ground	N/A	N/A	Corebox 1 & 2 RUN 3 RQD 46% water loss: 5 gal
	19— - 20— - 21—		Gray dolostone, few shale partings, trace vugs	2.5	N/A	@ back	ground	N/A	N/A	Corebox 2 RUN 4 RQD 52% water loss: 5 gal

			HTW DRILLIN						HOLE	NO. 607D		
PROJEC	Т	Guterl	Steel	10. HOI	LE LOCATIO	A03				SHEET SHEETS 1 OF 2		
1. LOCA	TION	Lockpo		11. NO.	OF OVERB	URDEN GEOTEC		DISTURBED UNDISTURBED N/A N/A				
2. COMF	2. COMPANY Earth Tech					RADIOLOGICAL		to 2.7.5	1	13. Total Number of Core Boxes		
3. DRILL	ING COMP	ANY	есп	14. SUF	RFACE ELE	See Table		10 3.7.5	-4	2 15. ELEVATION DATUM		
4. MANU	IFACTURER	SJB R'S DESIGNA	ATION OF DRILL	17. DAT	TE HOLE ST	597.93 ft ARTED				NAVD 1988 18. DATE HOLE COMPLETED		
5 CI7E	AND TYPE (CME -		16 DE	OTH OF CO	7/10/2007				7/18/2007 (coring); 7/23/07 (pad)		
		2-inch	splitspoon ; 6 1/4 inch ID HSA	TO. DEF	TH OF GRO	Not encou		overbur	den.			
6. NAME	OF DRILLE	R		19. WE	ATHER	Overcast:	70-85 F:	moderat	e wind a	and humidity		
7. THICK	(NESS OF C	VERBURDE		20. DIS	POSITION C	OF HOLE						
8. DEPT	H DRILLED	1.6 INTO ROCK	ft	21. NAN	ME OF INSP	Complete ECTOR	d as bedi	ock mon	itoring v	veli		
9. TOTA	L DEPTH OI		ft (for socket)	22. SIG	NATURE							
		17.9	t									
ELEV- ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	SAMPL No. (TIME)	(ppm)	2221/44-10 Nal (cpm)	2X2 - 1 min. (counts)	COUNT	REMARKS		
	1 —		Brown fine sandy silt, trace organics, dry to 0.4; 0.4-0.5 Tan fine to coarse sand and	0.5	N/A	0.4 ppm	40 cpm	N/A	2 8 22	Background PID: 0.4 ppm		
	2—		gravel, dry; In shoe, gray dolostone pieces			No rea above bad			50/0.1	Background Nal: 40 cpm		
	2.9—		No recovery	0.0	N/A	N/A	N/A	N/A	N/A	Auger to 2.9' bgs & set 4-inch steel casing		
			Brownish gray dolostone (Goat Island Member of the Lockport Group), few calcite filled vugs, vertical fractures throughout	3.0	N/A	0.0 ppm b	40 cpm @ ackgrour	N/A nd	N/A	Corebox 1 RUN 1 RQD 0% water loss: 10 gal		
	8 - - 8 - - 9 - - 10 -		Gray dolostone (Goat Island Member of the Lockport Group), few calcite filled vugs few shale partings	5.0	N/A	0.0 ppm b	40 cpm @ ackgrour		N/A	Corebox 1 RUN 2 RQD 22% water loss: 20 gal		

			HTW DRILLIN	G L	.OG				HOLE	NO.	607D
PROJEC	т	Guterl								SHEET 2	SHEETS OF 2
1. LOCA	TION			21. NA	ME OF INS						of 2
2. COMF	PANY	Lockpo	ort, NY	22. SIG	NATURE						
		Earth LEGEND	Tech		SAMPLE	DID	Ludhar	N-1 2024	DI OW	ı	
ELEV- ATION	(FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (ft)	No. (TIME)	PID (ppm)	Ludlum 2221/44-10 Nal (cpm)	Nal 2221 2X2 - 1 min. (counts)	BLOW		REMARKS
	10 _				(TIIVIE)		ivai (cpiii)	(counts)		Run 2	continued
	10.9— - 12— - - 13—		Gray dolostone (Goat Island Member of the Lockport Group), few calcite filled vugs few shale partings	5.0	N/A	0.0 ppm	40 cpm @ ackgrour		N/A	Coreb RUN RQD	3
	14 — - - - 15 — -		ram g							water	loss: 30 gal
	15.9— - - 17— - -		Gray dolostone (Goat Island Member of the Lockport Group), few calcite filled vugs few shale partings	2.0	N/A	0.0 ppm	40 cpm @ ackgrour		N/A	Coreb RUN RQD	4
	17.9—										