Geotechnical Summary Hydrogeological Summary Groundwater Mitigation Plan

Crystal River Borrow Pit 6580 West Calvary Lane Beverly Hills, Florida

Prepared for:

George L. Southworth PO Box 16966 Tampa, Florida 33687

Prepared by:



Purpose

The purpose of this report is to document the suitability of the site as a source of fill, to establish the hydrogeological setting of the site, and to evaluate potential onsite and offsite impacts on the underlying aquifer resulting from mining operations on the site.

Prospecting Summary

Creative Environmental Solutions contracted Southern Drilling Solutions (SDS) to perform the drilling services for this project. On September 3rd and 4th, 2024 CES supervised fourteen (14) Direct Push Technology (DPT) borings. The borings were logged by a geologist. The borings ranged in depth from ten (10) to forty (40) feet below land surface (ft-bls). The drillhole locations are illustrated on the attached map. The boring logs are attached to this report as well. Four (4) of the borings were converted to piezometers for water level monitoring purposes.

The borings all encountered sand at land surface that persisted to depths ranging from 7 to more 35 feet below land surface (ft-bls). The sands were underlain by clayey sediments and in some cases dolomitic limestone (with no intervening clay).

Representative samples of the sand recovered from the borings were analyzed as necessary for minus (-) 200 content and Atterberg limits (clayey soils). The data indicated the soil is well suited as a source of structural fill for FDOP projects.

Use of soil from this site should be guided by FDOT Index 120-001. Both A-3 and A-2-4 are considered select soils by FDOT. The A-3 soils encountered on this site appear to be suitable for use on FDOT projects, including embankments, when used in accordance with Index 120-001. The A-2-4 soils appear be suitable for use on FDOT projects, including embankments, when used in accordance with Index 120-001; however, these soils may hold moisture and may be difficult to compact, so it may be best if they are used above the water table.

Topography

According to the USGS Crystal River, FL quadrangle map of 1954, the elevation varies from less than 10 ft (NGVD 1929) in the southwest part of the site to just over 30 ft- in the northeast part. Less than ½ mile

to the east the land rises to 50 ft, and then further east to more than 100 ft. The elevations to the west of the site are generally 10 ft or less. A topographic survey is included in the mining permit application.

Geology

All of Citrus County is underlain by a vast thickness of limestone (Groundwater Resource Availability Inventory: Citrus County, FL, SFWWMD, 1987). The uppermost limestone unit in the county is the Suwannee Limestone, below which is the Ocala Limestone and then the Avon Park Limestone. In the central part of the county, there is a layer of clay atop the limestone and a layer of sand atop the clay. On the east and west edges of the county, the limestone is close to the surface. According to the Geologic Map of Citrus County prepared by the Florida Geological Survey (FGS), the uppermost geologic unit in the study area is the Quaternary dunes, described as thick sands with dune morphology. The onsite drilling program confirmed the occurrence of thick sand.

Hydrogeology

There are two aquifers in Citrus County—the Floridan that is county-wide and the overlying surficial aquifer that is only present in the central part of the county. The surficial aquifer occurs in the surficial sands and the Floridan aquifer in the deeper limestone units. The two aquifers may be separated by the low-permeability clays, though usually they are in direct hydraulic communication because the clays are discontinuous.

In the project area, the uppermost aquifer is the surficial. Water levels measured in onsite piezometers found the water table onsite varies from 8 to 25 ft-bls. The elevation of the water table varies from approximately 4 to 7 ft NAD88. Groundwater flow in the surficial aquifer is generally toward the southwest. A water table contour map is attached.

The elevation of the potentiometric surface of the Floridan aquifer in the project area is approximately 3 to 5 ft NAD88 based on the Potentiometric Surface Maps of the Upper Floridan Aquifer published 2017 and earlier by SWFWMD. These maps indicate that groundwater flow in the upper Floridan aquifer across the County is generally from east to west.

The water levels in the site piezometers were similar to those predicted for the Floridan aquifer in this location. This suggests the two aquifers are in hydraulic communication. This notion is supported by the borings that penetrated sand and then limestone, with no intervening clay (or low-permeability soils).

Well Survey

The area to the east of the site occupied by Pine Ridge is served by Citrus County Utilities. Homes within 1,000 ft of the proposed excavation that may be connected to private wells are identified in the following table and shown on the attached map.

Address	Owner Name
6889 W. Wicker St.	Jackson, Julianne
3937 N. Buckhorn Dr.	Paley, Norman
4759 N. Mattox Pt.	Dudley, Steven
7035 W. Hodges Ln.	Douglas, Rebecca
4510 N. Ellen Pt.	Kelly, Bobbie
3855 N. Brookshire Pt.	Magill, Charles; Jackson, Julianne
6854 W. Sentinel Post Path	Davidson, Warren
6742 W. Sentinel Post Path	Cox, Joe
6618 W. Sentinel Post Path	Wagner, Steven
6454 W. Corral Pt.	West, Jeffrey

Contaminated Sites Nearby

The FDEP Contamination Locator map was reviewed to identify the locations of known releases of petroleum, dry-cleaner solvents and other contaminants on and near the site. The closest reported discharge is 11,700 ft to the southwest of the site. This is the Metals Industries site, ERIC_13250, located at 8409 NE Crystal Street in Crystal River. This site and two others in Crystal River are down gradient of the project site.

Mining Plan

The borrow pit will be approximately 150 acres in size. The excavation will not come closer than 500 feet to adjoining property owners.

The excavation activities will intersect the water table of the surficial aquifer; however, the underlying clayey soil will not be excavated, meaning the excavation will not impinge on the underlying Floridan aquifer. Dewatering will not be conducted without first obtaining a Water Use Permit from the SWFWMD.

The material will not be sorted or graded onsite, so process water will not be generated. Water treatment chemicals (e.g., flocculants) will not be used during mining.

Potential for Impact

The mining operation is not expected to significantly affect groundwater levels onsite or offsite. For this reason, water levels in nearby wetlands and drinking water or irrigation wells will not be impacted.

The mining operation will not introduce any chemicals to the aquifer. For this reason, there is no significant potential for contaminating nearby wells.

The contaminated sites that are almost two miles to the southwest of the project site will not have any effect on or be affected by the mining operation due to the long distance away and the direction of groundwater flow.

Mitigation Plan

The applicant is fully prepared to investigate any complaints of offsite impacts. If offsite impacts related to mining are confirmed, the mining plan will be modified to eliminate the impacts.

Professional Geologist Certification

This document has been reviewed by George K. Foster of Creative Environmental Solutions, Inc. (CES), Brooksville, Florida, and appears to comply with the current standards and practices in the field of geology in the State of Florida. CES's professional services have been performed using the degree of care and skill ordinarily exercised under similar circumstances by other professionals practicing in this field. The certification of geologic work contained herein applies only to the original sealed document(s), and specifically does not pertain to any copies of this document or any portion thereof including mylars, linen, sepia or other materials which can be changed by the entity or entities with

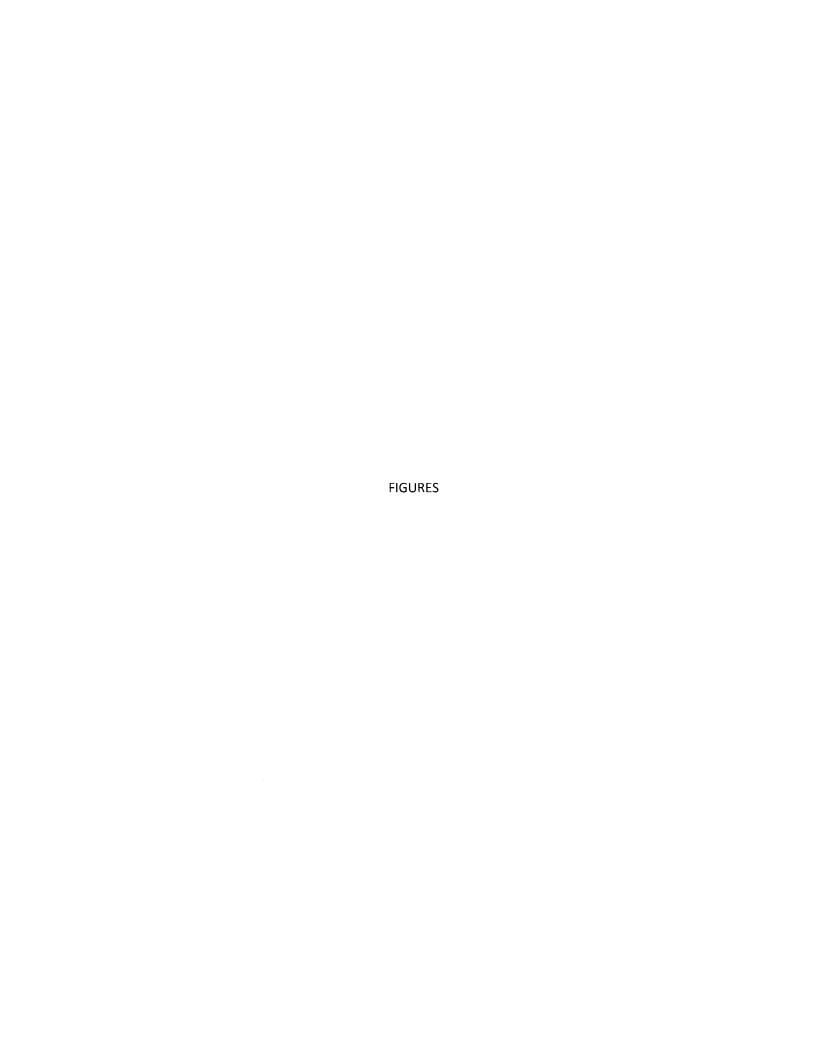
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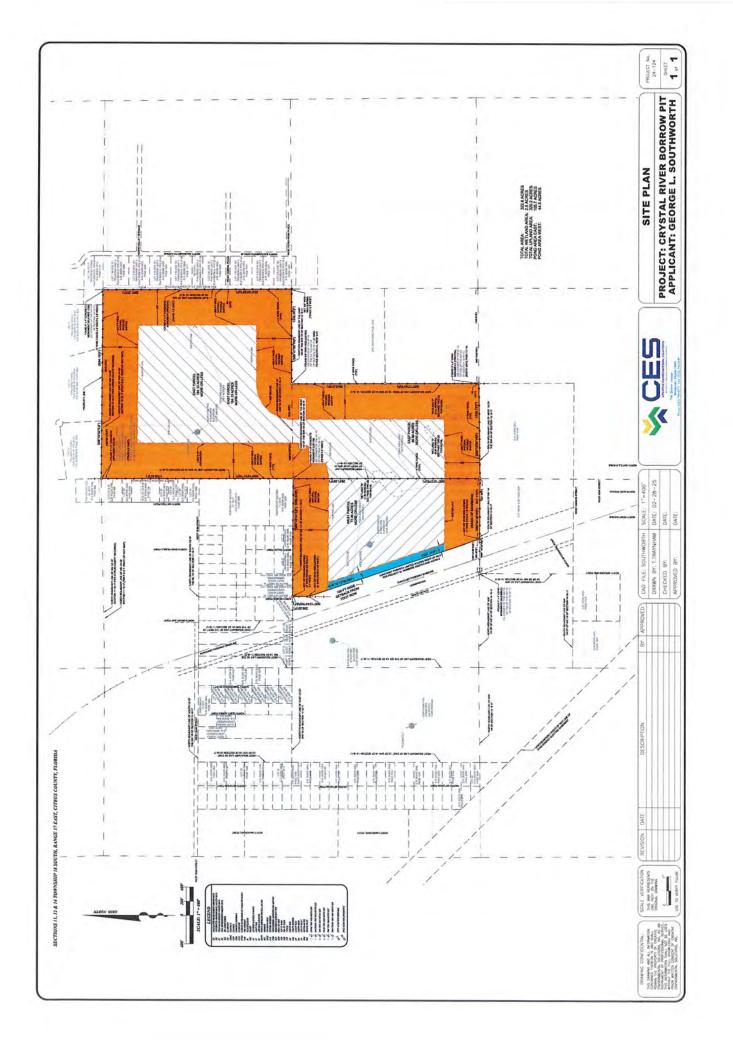
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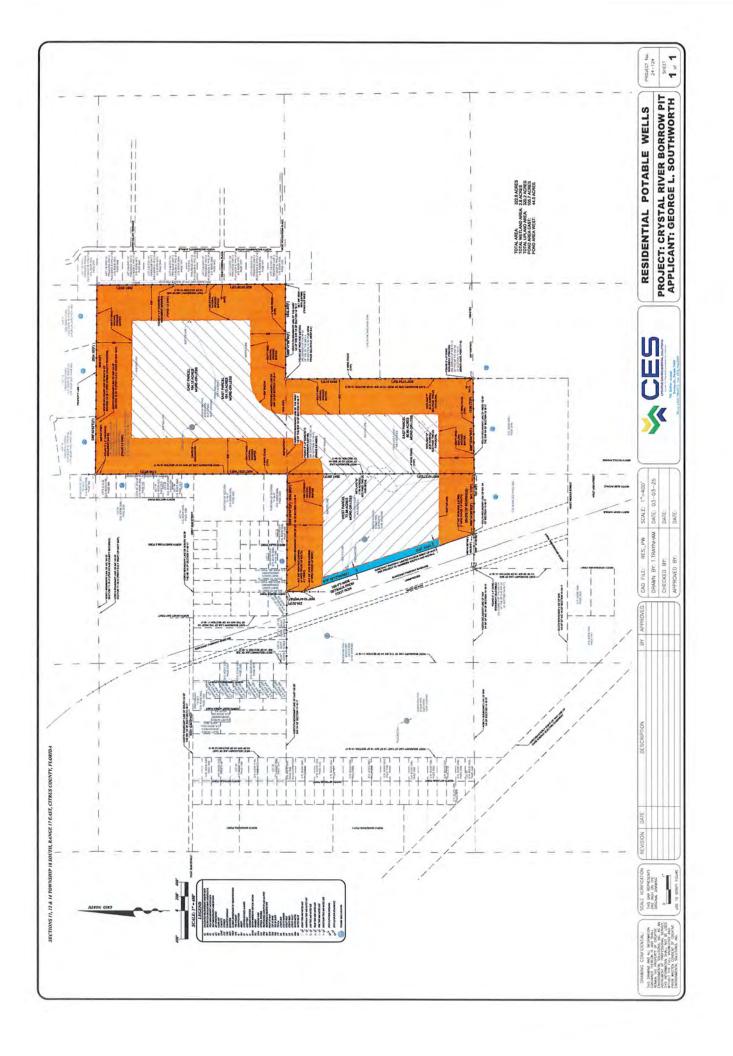
Date of signature

President/Principal

Creative Environmental Solutions, Inc.





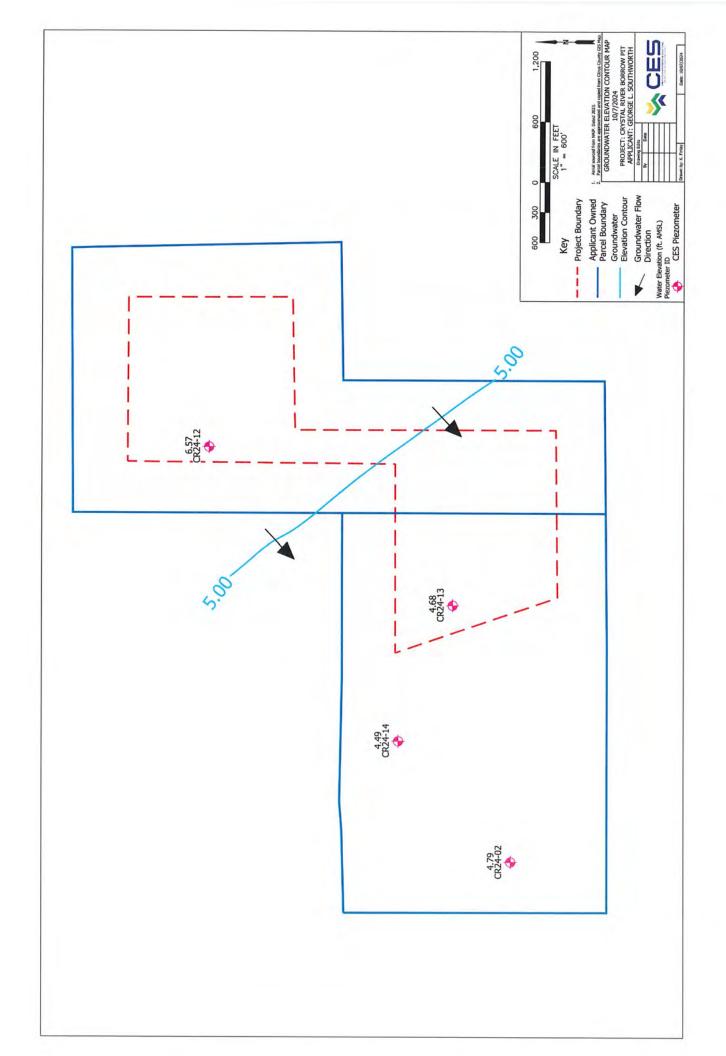


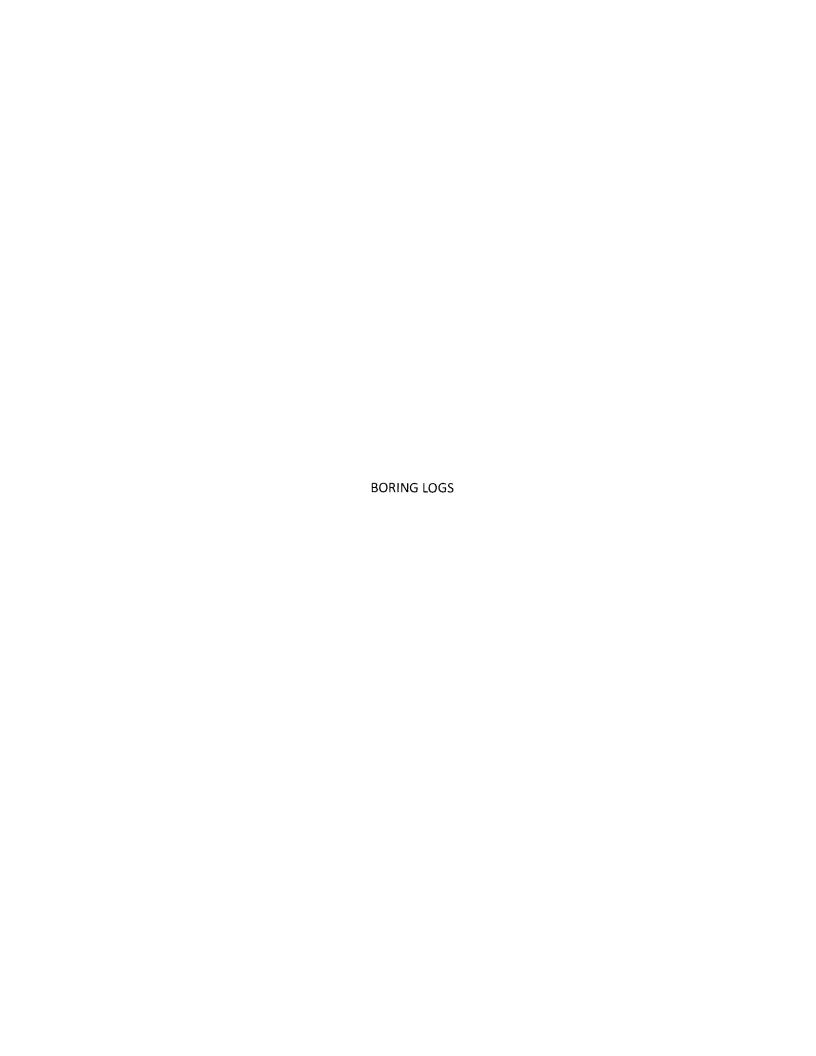
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DRILLING LOCATION MAP PROJECT: CRYSTAL RIVER BORROW PIT APPLICANT: GEORGE L. SOUTHWORTH









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Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Soule Core; DC = Drill Cuttings, Moisture Content Codes: D = Dry; M = Moist; W = Wel; S = Saturated



						BURING LUG			Page 2 of
_	ell Number:	FDEP Fac	cility Identi	ification Number:	:	Site Name:	Borehole Start Da	re: %/ 4]	24
C22	4-06						End Date: 🎖 🎉	4/24	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, o staining, and other remarks)	USCS	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DPT	15-20	607			16	15: SA-D, VILT TAN, WET, LOSE		W 15'	15-20
					17				
					18				
					_ ¹⁹				
	20-25	907			_ 20			W	20-25
					_ 21				
					22				
					23				
					24				
	25-30	907			25				
					26				
					_ 27				
					28	20 6' CHITH CA A			
					- ²⁹	29.5': SILTY SAW LT B	<i>louin</i>	W	25-301
						TERMWAPED AT 30	o'		
					32	DELLER/HELPER REPORT	275		
					33	TERMWAPED AT 30 DULLER/HELPER REPORT CLAY BEFORE GEO SE TO DE LUZ STOPS RIG	4		





													rage 1 01
Boring/We	ll Number: _24-0	 ר		Permi	t Number:	7818	-90	Chara	FD	EP Faci	lity Ident	ification Nu	mber:
Site Name:	-24-0			Borch	ole Start I	2818 Date: 814	104	Start Time	10 1090	9/			
					End I	, ,	164					₹ AM	
Environme	ntal Contractor:	:	·	Geolo	gist's Nan			End Time	: <u>694</u> IEn		ntal Tech	rician's Na	
Creati	ve Enviror	nmental	Solutio		_	MAY				, ii oiiiiic	ntai reen	moian 3 14a	inc.
Drilling Co		merica	Joidio	Pavement T			hole Diame	ter (in):	Boi	rehole D	epth (fee	t):	···
Si	5 5							. ,		3		,	
Drilling Me	ethod(s):		Borehole DT			I	Well DTW		ov		_	i check type	·):
HAL	DPT	(from soil	moisture coi	ntent):		(after wate	er recharges	s in well):				௺ FID	┌ ЫD
Disposition	of Drill Cutting	gs [check m	ethod(s)]:	F	Drum	「Spread	r Ba	ackfill	┌ Stockp	ile	Other	(describe)	
(describe if	other or multip	le items are	checked)			•						()	
Borehole C	ompletion (chec	k one):		Г Well	┌ Gro	ut F	Bentonite	□ Bacl	kfill	J" Oth	er (descr	ibe)	
		ွှ										T	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	(include grai	in size base	e Description ed on USCS, ner remarks)	, odors, stai	ning,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	105%				0': SA~	20 Pol	GANICS	LT GRAY	VF		7	0-21
١					1	0: <u>SA~</u>	~2 1.T	TON VI	C	·			
}					2	-			•				
					– *								
	2-5	1007			3								
					⊢ ⁴							1	0 6
5					5	c'.c							1-5
1387	5-10	600				2 : 7 a	-2, V.L	T TON	,V.F				
		-77			_ 6								
										ļ			5-10
					- 7								19 " 10"
					8					1			
										1			
					_ 9								
	10-15	90%			10								
		<i>[.</i> 1			11								
					12								
						,,,		.					,
					13	13: CU	AYEY	50, <u>C-162</u>	Marce C. F.	,		$ \mathcal{D} $	10-15
			:		14	\ \.\.^*	s Consta	SAND, OR	Burney	,			
			•			'''	y ·						
[15								



		117			BORING LOG	T ·		Page 2 of
Boring/Well Number:	FDEP Fac	cility Ident	ification Number	:	Site Name:	Borehole Start	Date: Tul	24
Sample Depth Interval (feet) Sample Type	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, staining, and other remarks)	end Date: VSCS symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
D3T 15-28	60%			16	15: SA-2, TAN, U.F-1	F,	W16	15-20'
20-25	1002			17 18 19 20 21 22 23	h N		W	20-25
25-30	100%			24 25 26 27	26.5/1 <u>SA-0</u> LT Blad VF, SL.S	~), IUTY	M	25-30
36-35	1007			28 29 30 31 32 33	31.5'. SANDY CLAY, BUST WHITE, BOX. SA V.F SAND TOTAL DEPTH 35'	okun	W	30-31.5 31.5-35





BO	D	IN		T	α	
BU.	к	HV	۱r			•

						DOIGH TO DO	•				Page 1 of
Boring/Wel	1 Number:	V&			Number:		2.54499	FDEP Fa	cility Identi	fication Nu	mber:
Site Name:	<u></u>	<u> </u>		Boreh	ole Start I	Date: SUI 1711	Start Time:	OFT		₩ AM	
CTO	us Ca	DOT (aris		End D	-1 -1 -1		0 28		X AM	□ PM □ PM
	ital Contractor:		<u></u>		gist's Nam				nental Tech	nician's Nar	
Creati	ve Enviror	mental	Solution	ns							
Drilling Co				Pavement Th	nickness (i	in): Borehole Di	iameter (in):	Borehole	Depth (feet	t):	
S	DS							2	51		
Drilling Me	thod(s):		Borehole DT moisture con			Measured Well I		OVA (lis	t model and	check type):
44	DP7_			•						r fid	L. bīd
Disposition	of Drill Cutting	gs [check m	ethod(s)]:	Г	Drum	「Spread 「	Backfill [5	Stockpile	C Other	(describe)	
(describe if	other or multip	le items are	checked)			•		-		(=====)	
Borehole Co	ompletion (chec	ck one):		┌ Well	┌ Gro	ut	nite ┌ Backfill	Го	ther (descri	be)	
8	E &	Sai	÷								Lab Soil and
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	(include grain size	mple Description based on USCS, odo dother remarks)	rs, staining,	USCS Symbol	Moisture Content	Groundwater Samples (list sample number and depth or
pe	ec) ith	very	s les)	,					bol	6	temporary screen interval)
AH	0-2	1002			_ 1	O' SANU	GOGANICS, C	CUAY,		D	0-2'
1					_ 2	1: SA-2, U	LET TAN, KI	2		5	
					3	,					7-5
	2-5	100/			4						
					5	//			!		E /
DPT	5-10	707			_ 6					D	5-101
					7						
					_ 8						
4					9					O	10-15
	10-15	85%			10	/,	',				,
		, r-v			11						
					12						
					13						
					14						<u> </u>
				L	15						



Boring/Wel	ll Number:	FDEP Fa	cility Ident	tification Number	:	Site Name:	Boreho	ole Start Dat	e:	
CZ2	4-08						End Da			
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, staining, and other remarks)	odors,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DPT	20-25	85%	9)		16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	CONT FROM 1: SO VIET TAN, V.F TAN BROWN, FIRM WI DEPTH TOTAL DEPTH 25	LAY SALO		M 23'	15-20'
	_				33					





, ,						DOIG	III LO	_					Tage For
Boring/Well	Number: 7 24- (19		Perm	it Number:	129	-87	545	30	FDEP Fac	ility Identif	ication Num	ber:
Site Name:	10 64 C	<i>.</i>		Borel	nole Start D	ate:	1/24	Start		110		⋌ AM	□ PM
Carox	us cal	007 C	022.10C	l l	End D	-1	751	End '	Time:	•		ГАМ	┌ PM
Environment	al Contractor:			Geolo	gist's Nam	e:				Environme	ental Techn	ician's Nam	e:
Creativ	e Environ	mental	Solution:	s I	K.F.	LAY							
Drilling Con					hickness (i		orehole Di	ameter (in):		Borehole I	Depth (feet)	:	
55	>		ļ							1	30		
Drilling Met			orehole DTW					TW in feet		OVA (list	model and	check type)	:
HALI	76-1	(from soil n	noisture conte	nt):		(after v	water recha	irges in well):			r fid	₽ID
Disposition of	of Drill Cutting	s [check me	thod(s)]:	Г	Drum	F Spre	ad f	Backfill	Γ St	ockpile	C Other (describe)	
_	other or multip					•				-			
	mpletion (chec			┌ Well	┌ Gro	ut.	☐ Bentor	nite 「	Backfill	∫ Ot	her (describ	oe)	
	<u> </u>	70			1 1	-							
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	(include	grain size	mple Descri based on U d other rem	SCS, odors	s, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
AA	0-5	100%			_ 1	0': S 0.5 :	SANS	organi V.LT	CS, GOA' TAN, V	JUF (F		D	0-5
A COLUMN TO THE PARTY OF THE PA					_ 3 _ 4 _ 5	,							
DPT	5-10	807			6	,		7,				7	5-10
					8 9	7		ren Ba		termina			
	10-15	86%			10							D	10-195
					12								
					14								
	1				1 ,,								



Boring/Wel	l Number:	FDEP Fac	ility Ident	ification Number		Site Name:	Boreho	le Start Date:		
C22	4-09						End Da			
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, staining, and other remarks)		USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DPT	15-20	807			16 17 18 19 20 21 22	CONT FROM 0.5' SAND, V.LT TAN, V.F (WIOSILT BEDS NOW)				15-20
è	20-75°	જું			23 24 25	23.5: SAW BUFF V.F GR.	инп	ε,	D	20 - 26.5
	25-30	100]			26 27 28 29	26.5: CLAY TAN OR FRM, 2576 SAN COMPONENT, CLAY NOT SAMPLED	A-KE つ 1	,	D	
					30 31 32 33	TOTAL DESTH 3	BY			





		*					·		***. * * * * * * * * * * * * * * * * *		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Boring/Well	Number: 24 - 10	ı		Permi	t Number:	336,-87	54545	FDEP Fac	ility Identif	ication Num	ber:
Site Name:	2-1-10			Boreh	ole Start D	ate: 8/4/24	Start Time:	50		KAM	Г РМ
1	us cas	DUT 10	100000		End D	-1 11 -1		137		r AM	₽ PM
Environmen	tal Contractor:) -	AG CONTRACT	Geolo	gist's Nam				ental Techn	ician's Nam	
Creativ	e Environ	mental	Solution	ns K	Fire	A4					
Drilling Con				Pavement T			meter (in):	Borehole I	Depth (feet)	:	
								4	6		
Drilling Met	hod(s):		orehole DT			Measured Well Di				check type):	
			noisture con	tent):		(after water rechar	ges in wen).				
	<u> </u>	ł	16							FID	L ND
Disposition	of Drill Cutting	s [check me	ethod(s)]:	Γ	Drum	□ Spread □	Backfill	tockpile	Cother ((describe)	:
(describe if	other or multip	le items are	checked)								
Borehole Co	mpletion (chec	k one):		⊤ Well	□ Gro	ut 『Bentoni	e 『Backfill	Г Ot	her (descrit	ne)	
		70									
Sa	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	7	5	a			US	. =	Lab Soil and Groundwater
Sample Type	nple erval	ple Recc (inches)	xix.	Net OVA	Depth (feet)		iple Description based on USCS, odor	s, staining,	USCS Symbol	Moisture Content	Samples (list sample
Ty	Dep	ecov	lows	VΑ	(feet		other remarks)		ymb	ure	number and depth or temporary screen
*	₽ €	ery							유		interval)
	,					01542	ORGANICS 35	ادرارا	-		1
HA	0-5'	hory			_ 1		LT TAN, V	Corner,		2	0-5
١,		£.				1:5 <u>A~D</u> ,	LLT TAN U	c			
					<u></u> − ²	·	, •	r			
					_ 3						
					4						
						,					C 12
7	5-10	60%	<u> </u>		5	1,	1)			0	5-10
DPT	, ,	- a									
					<u></u> 6						
				1	7						
					⊢ ′						
					8						
					9						
							· C)	10-15
	10-15	80%			10	Cary "~ OF	is Sa-s Fi	lom 1			•
	10 17	80%			11						
]					⊢ ''						
					12						
					_ 13	St. 420					
					l 14						
			1		15						



	TENTINE ENGINEERS INVACAN	INIA ISBNITE				BORING LOG			Page 2 of
Boring/Wel	Number:	FDEP Fa	cility Identif	ication Numb	er:	Site Name:	Borehole Start	Date:	
C22	4-10						End Date:		
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, staining, and other remarks)	odors,	Moisture Content	Lab Soil and Groundwater Samples (list sampl number and depth of temporary screen interval)
DPT	15-20	802			16	WET AT 16'		W16	15-20
					_ 17	19 6' C - Sale And	15		
Acceptant					18	BROWN, V.F GR.			
And and the Control of the Control o	20-25				20			W	20-25
Toward.					_ 21				
					22				
					_ 24				
	25-30	1087			_ 25	// \\		W	25-30'
					_ 27	, a, b;			
					28	*			
		*		-0%	_ 29	1			
	30-35	902		***	_ 30				30-35
					_ 31				
					33	= Direct Push: SC = Sonic Core: DC = Drill Cuttines M			



	REATIVE ENVIRONMENTA	L SOLUTIONS				BORING LOG				Page 3 of
Boring/Well	l Number:	FDEP Fac	ility Ident	ification Number:		Site Name:	Borehol	e Start Date	8/4/2	Ч
C224	1-10			· · · · · · · · · · · · · · · · · · ·			End Dat		, r 	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, on staining, and other remarks)		USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DPT	30-35	907			34	33.5: SA-0, BUFF . V.F	JH ITE	·)	7	30-35
					36 37	37: CLAY 12.50. a				
					³⁸ ³⁹	37: CLAY, BUFF WAY, 38.3: SAND WICLAY, OLANGED WHITE,	v.f		\Box	35-40
The state of the s	35-40	957			40 41	TOTAL DEPTH 4				
					42					
					44					
					46 47					
					- ⁴⁸					
					50 51					





	•	Permit 1	Number:				FDEP Fac	ility Identif	ication Nun	nber:
1				327:	-87.54	925		J		
 .		Boreho		= 8141	24 Start		30		ГАМ	≮ PM
DOT B	opincs		End Dat	te:	End	•	-		「 AM	₽M
·		Geologi	ist's Name:	4	_	L		ental Techn	ician's Nan	ne:
mental	Solutions	K	F	VAY						
					ole Diameter (in)	:	1 -	Depth (feet)):	
							10			
							OVA (list	model and	check type)	:
(from soil n	noisture content	t):		(after wate	r recharges in wel	11):			┌ FID	L bid
a fabools —a	the d(a)];			** 5		- 0		7º O4	(17)	
•		₁¯ D	rum	i Spread	☐ Backfill	r- St	юскрие	Other	(uescribe)	
		·								
k one):		Well	□ Grout	: Г	Bentonite 「	Backfill	ਿ Ot	ther (descril	pe)	
Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	include grai	in size based on l	USCS, odor:	s, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
1007			1 6) SAA	p N02Ca	NICS, G	۳۸,		D	0-5
80.5			3 4 5 6 7 8 9 9	8.5 : C.B	LAY TAN	To Bu , H. PLA			Δ	5-8.5
	Apparent B (from soil n s [check me le items are k one): Sample Recovery [inches]	Apparent Borehole DTW i (from soil moisture content is [check method(s)]: le items are checked) k one): Sample Recovery [inches]	Borchol DOG BOLLOS Geology Mental Solutions Pavement This Apparent Borchole DTW in feet (from soil moisture content): Is [check method(s)]: Is [check met	Borchole Start Dat End Dat Geologist's Name: Pavement Thickness (in) Apparent Borchole DTW in feet (from soil moisture content): Is [check method(s)]: Is	28.93327 Borchole Start Date: 8/4/ End Date: Geologist's Name: Geologist's Name: Measured (after wate (from soil moisture content): Measured (after wate tems are checked) F Drum Spread (after wate tems are checked) F Well Grout Grout Growth (finches) Grout Grout Grout Growth (finches) Growth (finches)	Borchole Start Date: 84/24 Start End Date: En	Borchole Start Date: Start Time: 13	Borehole Start Date: 8/4/24 Start Time: 1330 End Date: End Date: End Time: 1345 Geologist's Name: Environm Pavement Thickness (in): Borehole Diameter (in): Borehole (after water recharges in well): Special DTW in feet (after water recharges in well): Special DTW	DOT BOLLOCS Borchole Start Date:	Description Sample Descrip





Page 1 of

Boring/Well	Number:			Permit	Number:			FDEP Fac	ility Identif	ication Num	ber:
	24-17	<u></u>		2	8.931	38-82,5 te: 8/4/24	54932				
Site Name:				Boreho	le Start Da	te: 8/4/24				ΓAM	► PM
CITZ	us Cont	DO 7			End Da		End Time:	<u> </u>		J" AM	₽ PM_
Environmen	tal Contractor:				ist's Name			Environme	ental Techn	ician's Name	e:
	e Enviror	mental	Solution	ıs	K.F.	MAY					
Drilling Con	npany:			Pavement Th	ickness (in): Borehole Dian	neter (in):	Borehole I	Depth (feet)):	
Drilling Met	hod(s):	Apparent B				Measured Well DT		OVA (list	model and	check type):	
11.4/2		(from soil m		tent):		(after water recharg	ges in well):				
<u> </u>	2P7	<u> </u>	3'					_	F 041-	(dasariba)	□ PID
l -	of Drill Cuttin			, I	Drum	「Spread 「	Backfil 「St	ockpile	□ Other	(describe)	
	other or multip		checked)								
Borehole Co	ompletion (che	ck one):		Г Well	┌ Grou	t Bentonite	Backfill	J‴ Ot	her (descri	be)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	(feet)	(include grain size b and	ple Description ased on USCS, odors other remarks)		USCS Symbol		Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-5	won			1	0/5A-0 W/09	GANICS GRAY	BROWN		D	0-5'
Der	5-10	607			2 3 4 5 6 7 8 9		ives from			7	5-10
	10-15	70%			10 11 12 13 14		ISILT, TAN- LT, WET AT	LT Ble		W13	10-15

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings, Moisture Content Codes: D = Dry, M = Moist; W = Wet; S = Saturated



Boring/We	II Number:	FDEP Fac	ility Identific	ation Numb	per:	2015	Borehole End Date	Start Date	e:	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, o staining, and other remarks)	dors,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DPT	15-20	lovz			_ 16	V.F.WET	1		W	15-20
	20-25	1007			_ 18 _ 19 _ 20 _ 21 _ 22				W	20-25
	25-30	1002			_ 23 _ 24 _ 25 _ 26 _ 27 _ 28	BROWN, V.F	S	e 	W	25-30
	30-35	1007			_ 29 _ 30 _ 31 _ 32	SCORE 18-23			W	30 - 35





						20141	'G EO	•					rage 101
Boring/Wel		· · · · · ·			it Number:	<u> </u>	81 6	55420	I	DEP Fa	cility Ident	ification Nu	mber:
Site Name:	- 1 - 1 - 2			Boreh	ole Start D	ate:	<u> </u>	Start Tim	ie: 157	17		ГАМ	[Æ PM
Citt	zus Ca	o Col	a sol			٠,	4/24	End Tim	-			Γ AM	
	ital Contractor				gist's Nam	e:	1 ()				nental Tech	ınician's Na	
Creati	ve Enviror	nmental	Solutio	ns \	とんし	~LA-	`						
Drilling Co				Pavement T			rehole Diar	neter (in):	F	Borehole	Depth (fee	et):	
5	5S									35)		
Drilling Me	thod(s):		Borehole DT moisture co				ed Well DT			VA (list	t model an	d check type	:):
121	DOT	LI)	ment):		(arter w	ater recharg	ges in well):				#	
Disposition	of Daill Cuttin	1 1	-th - d(-\}.									f FID	□ PID
1	of Drill Cuttin	-		F	Drum	T Sprea	ıd 🏲	Backfill	□ Stoc	kpile	C Other	(describe)	
<u> </u>	other or multip		checked)						5°				
Borenole Co	ompletion (che	uk one).		「 Well	⊢ Gro	nt [Bentonite	е ГВа	ckfill	F 0	ther (descr	ibe)	
70	- x	Sa	a a										Lab Soil and
Sample Type	Sample Depth Interval (feet)	Sample Recovery	SPT Blows (per six inches)	Z	Depth (feet)		Samj	ple Descriptio	n		USCS Symbol	2 \$	Groundwater
le T	le De	ple Reco	SPT Blows er six inche	Net OVA	(S)	(include g		ased on USCS other remarks		taining,	Syı	Moisture Content	Samples (list sample number and depth or
ype	ect)	over	ws hes)	-	et)		anu (опет тешатк	s <i>)</i>		nbol	= 7	temporary screen interval)
	<u> </u>	 			_							ļ	mici vai)
HA	7-5	1007				0:3	1-2-40	LT TA	, Gray,	V,F		7	A 6.
		6				0.5	(A~)	LT TAN	JUC				0-5
(2			,	· , v . i			İ	
					_ 3								
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	10-15	70%			13	1,	17		Ci.				10.10
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•	STOCKED CHICAGO CAMPAGNA	BAL BOUMPI				BORING LOG			Page 2 of
Boring/Well Number: FDEP Facility Identification Number:				fication Number	:	Site Name:	Borehole Start Dat	:	
C224-13						CITAUS CO. DOT	End Date:		
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, staining, and other remarks)		Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
))51	15-20	70%			16				15-20
					17	17.5'SILTYSAND, TAN TO BUFF WHITE,	J.F	W	
	20-25	100-5			19			W	20-25
					21 22 23				
	25-30	1007			24 24 25 26	11 "		W	25-30
					_ 27	I" PUC INSTALLED			
	30-35	507			_ 29 _ 30	(20' TOTAL)		W	NOT SAMPLE
					31	BLOWN+ OLANGE, N SAWD, POOR QUALT LOW PLASTICITY TOTAL DEPTH	M, NOT SAM	PLES	





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Boring/Well	Number:	14			ermit N	91	612	8	2.5	5845	,	FDEP Fa	cility Identi	fication Nur	nber:	
Site Name:				E	Borehole	Start D	ate:	14/24		Start Time	e: (6%	55		ГАМ		□ PM
CIT	rus (.o. C	W(1.1)	c)		End D		1-12-	`	End Time				ГАМ		ſ PM
Environmen	tal Contractor:				Geologist								ental Techr		ne:	
Creativ	e Enviror	nmental	Solution	ns	V	.F	لساسه	14								
Drilling Cor				Paveme	ent Thick			Borehole	Diamete	er (in):]	Borehole	Depth (feet):		
<	525											39	. /			
Drilling Met			Borehole DTV		et .			sured We r water re					model and	check type):	
I/AH	797			,			ľ		J					r fid	Γ	PID
Disposition	of Drill Cutting	gs (check me	ethod(s)]:		┌ Dru	m	r sp	read	Γ Baι	ckfill	┌ Stoo	kpile	Other	(describe)	-	-
(describe if	other or multip	le items are	checked)													
Borehole Co	mpletion (chec	k one):		₽ We	ell 1	Gro	ut	「 Ben	tonite	厂 Bac	kill	Го	ther (descri	be)		
	- %	Sa	<u></u>						-						Lab	Soil and
Sample Type	Sample Depth Interval (feet)	Sample Recovery	SPT Blows (per six inches)	2	2	Depth (feet)		:	Sample	Description	n		USCS Symbol	ი ≱		ndwater
) le T	le D	ple Reco	SPT Blows er six inche	Net OVA		th (fo	(includ			d on USCS		staining,	S Syı	Moisture Content		S (list sample and depth or
уре	epth feet)	:0vei	ws	A	1	eet)		;	and oth	er remarks	5)		mbo	nt e	tempo	rary screen
		্য							_				_		in	terval)
HA	7.6	1087				1	0%	5 <u>A~</u> 5	V, C	7 DA~	7,4,6			(1	\wedge	C
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St. Leading	10-15	300					7	Der 100	1111	- 1- D	T 1301	OFi)		J	' `	. /
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						BURING LUG			Page 2 of
Boring/Well Number		DEP Fac	ility Identi	fication Number:		Site Name:	Borehole Start Dat	e:	
C224-16	}						End Date:		:
Interval (feet) Sample Type		Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, o staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DPT 15.	200	702			16 17 18	15.5' SAWD, BUFF W V.F, I" CLAY A TOL CONTACT	HITE	D	15-20
70-7	25				19 20 21 22 23	~20': BECOMING SIETY SAND (~20°2 SIET) WET	AT 2	W 22	20-25'
25-3	30 1	1007			24 25 26 27 28	~25; SILTY SA-D BUFF TAN, V.F >407, SILT PARTS MOD. F.R.	^	W	25-30
					30	1" PVC SET SCREW TO MS-2	14.6		2 /
305		44			32	TOTAL DEPTH			30-35'





				7										
Boring/Well CR	Number: _24 - C	26		Permit	Permit Number: 28.92601,-82.54874					FDEP Facility Identification Number:				
Site Name:				Boreh	Borehole Start Date: 8/3/24 Start Time: 13					40 FAM &P				
CITA	LUS CO	. DOT			End Date: End Time:					· ·				
Environment	tal Contractor:			Geolog	gist's Nam	e:			Environn	nental Techn	ician's Nar			
Creativ	e Environ	mental	Solution	ns	k.F	ا~،	AΥ							
Drilling Con				Pavement TI			Borehole Dian	neter (in):	Borehole	Depth (feet)):			
53	sS													
Drilling Met	hod(s):		orehole DTV				sured Well DT		OVA (lis	t model and	check type):		
D/AH	17	(from soil r	noisture cont	ent):		(aft	er water recharg	ges in well):			┌ FID	⊏ bID		
Disposition of	of Drill Cutting	s [check me	ethod(s)]:		Drum	T S ₁	oread [Backfill ¹	Stockpile	□ Other	(describe)			
	other or multip			•		,	,				(======			
F	mpletion (chec			「 Well	┌ Gro		☐ Bentonite	e Γ Back	- F 6					
	· ·) wen	, 010	ui.	Bentonia	Back	m) (ther (descri	oe)			
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (feet)	(inclu	de grain size b	ple Description ased on USCS, o other remarks)	odors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)		
HA	0-2	1007			ı	٥.	CAP CAP	a, V.F			D	0-2'		
DPT	2-5	200 200			2 3 4 5 6	5:	<u>Sa-o</u> v.	LT TAN,	v. p - F		Ď	2-5' 5-10'		
	10-15	707			8 9 10 11 12 13 14	Table Control of the	∾ไ มิย	50-0, TO			^	10-15		



	Doring ATT	II November	II) === -	***			BORING LOG		_	Page 2 of
	Boring/Wel		FDEP Fac	cuity [den	ntification Number	:	Site Name:	Borehole Start I	Date: 8/	
	C224	1-05		,				End Date: 🖇	13/24	-1-1
	Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Net OVA	Depth (fect)	Sample Description (include grain size based on USCS, o staining, and other remarks)	usc	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
Sam		15-20	95%		Spoon: ST = Shelby Tube	22	MET AT 18' 15: SALD, BUFF WHIT ORANGE, WE V. P-F 19.5: CLAY BUFF WHIT NOT SANF FIRM TOTAL DEPTH 20	TE DED,	3	