# OCONEE COUNTY PROCUREMENT OFFICE 415 S. PINE STREET, ROOM 100

## WALHALLA, SC 29691

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#### ADDENDUM NO. 2 ITB 16-14

# PHASE 1 & PHASE 2 MASS GRADING IMPROVEMENTS FOR OCONEE INDUSTRY AND TECHNOLGY PARK

#### OPENING DATE: MARCH 1, 2017 AT 2:00 PM - UNCHANGED

This Addendum #2 contains answers to all questions received by the deadline for questions, February 22, 2017 at 2:00pm. The Bidder shall include a copy of this Addendum No. 2 signed with the bid and acknowledge addendum on the bid form.

Question 1: Could the bids be emailed?

**Answer 1:** No, only hard copies of the bids will be accepted.

Question 2: Is the contractor required to provide a field office for the owner or engineer?

Answer 2: No.

Question 3: Phase 1 appears to have excess material. Can this be placed in the future fill area for

Phase 2?

**Answer 3:** Yes, the excess material is to be placed in the "stockpile" area shown in the Phase 1

Plans. The fill is to be compacted as Specified in Section 2204–Earthwork Part 3.9 Field

Quality Control.

Question 4: If unsuitable material is encountered will the contractor be able to leave it on site?

**Answer 4:** Unsuitable material, if encountered, can be disposed of onsite at a location approved by

the Owner and Engineer.

Question 5: Please confirm owner will allow burning onsite.

**Answer 5:** Oconee County does not have any restrictions on burning. However, contractors are

required to notify the South Carolina Forestry Commission and follow their instructions and guidelines for burning. See attached document from their web page. Contractor is

to notify Engineer before conducting burning activities.

Question 6: Confirm if the owner will provide material testing. Special Conditions SC-5 states

contractor to provide material testing, but specification 01410 Section 1.4 Item A says

owner is to provide material testing.

**Answer 6:** The Owner will provide material testing.

- Question 7: Specials Conditions SC-7C state builders risk insurance is required. Construction of a building/structure is not part of this scope. Confirm builders risk is not required. It is not needed for site work construction.
- **Answer 7:** Builders Risk Insurance is not required.
- Question 8: Supplementary Conditions Item SC6.02B state that weekend work must be approved by owner. Confirm the owner will allow work on Saturdays as part of the standard work week. And confirm if the owner will allow work on Sundays if needed for the schedule.
- Answer 8: Saturday work will be allowed by the Owner as part of the standard work week. Sunday work will be allowed, but will need to be approved in advance by the Owner. Work on Sunday will only be allowed after 1:00 pm.
- Question 9: Confirm which section governs; Special Conditions Section SC-23 or Supplementary Conditions Section SC-6.12.B
- Answer 9: Special Conditions Section SC-23 governs. Contractor is to provide a record drawing survey of the pond and stormwater system. Record Drawing should include elevations, pond, top of bank, toe of slope and emergency spillway of the pond, pipe sizes, elevations and dimensions of outlet structure including weir and orifice dimensions and elevations. Record Drawing is to be tied to South Carolina State Plane Coordinate system and must be certified and signed by registered Surveyor in the State of South Carolina.
- Question 10: Supplementary Conditions section SC-6.13.A.3, second paragraph states Engineer may require enclosing or special protection from weather. Does this refer to a building or to site work? If it pertains to site work, what could be the required protection?
- Answer 10: Strike out words "deemed necessary by Engineer" from Supplementary Conditions Section SC-6.13.A.3, Paragraph 2.
- Question 11: Confirm the compaction requirements for the project. The specifications state unpaved areas are to be compacted to 90% standard proctor. With expectation that buildings and roads will be built in the future should the compaction be as if all area could be under pavement?
- Answer 11: In accordance with the Geotechnical Engineer, all areas are to be compacted to 95% standard proctor in accordance with ASTM D698. The areas below the Future Road "A", Road "B" and Road "C" are to be compacted to 98% compaction for the last 12" of subgrade. Roadway compaction should be 30' feet wide measured from each centerline shown on the plans.
- Question 12: Special Conditions SC-16 states itemized quantities will be paid as a unit price per what is needed to complete the project. Specification 02210 Soil Erosion Control Section 1.6 states most of the erosion control items are a lump sum price. Please confirm which section governs.
- Answer 12: The contract is Lump Sum. The quantities shown are estimates for information purposes only.

- Question 13: Will rain days and the subsequent days to dry out before working can resume extend the contract time day for day?
- Answer 13: Per Section 00506 Standard Form Agreement, Article 3.1, six (6) rain days are included for Phase 1 and twenty (20) rain days are included in the Phase 2 contract time. Time delays due to rain in excess of the above days shall be reported by the Contractor to the Engineer in writing, within 30 days of each event. Extension to the contract time due to time delays associated with rain will be evaluated by the Engineer and Owner.
- Question 14: Phase 1 The bid proposal for (Phase 1) lists the number of stone check dams as 5 each. 10 rock check dams are shown on sheet EC2.1. How will the contractor be compensated for the additional 5 stone check dams?
- Answer 14: The intent of the Phase 1 Plans is to show a total of 5 check dams and this is the quantity that should be bid. The SCDHEC symbol for a check dam actually appears to be two check dams.
- Question 15: Phase 1 The bid proposal form (Phase 1) lists the 15" and 18" pipe as HDPE. Sheet C2.1 calls both pipe runs to be CMP while the sediment basin detail on sheet EC4.4 lists the outlet pipe as RCP. Which pipe product are we to bid?
- Answer 15: The pipe will be installed for temporary purposes. The material can be installed as CMP, HDPE or RCP, sufficient to handle construction access to the site.
- Question 16: What type of North American Green Erosion Control Blanket is to be used?

  See Specification Section 02210 Soil Erosion Control, Section 2.6 Erosion Control Blanket.
- Question 17: There is not a pay item for sodding. Will sodding be paid for in the grassing line item? Are the slopes of the pond the only thing to get sodded?
- Answer 17: There are no areas that are intended to be sodded. All areas are to be seeded in accordance with Specification Section 02902 Grassing.
- Question 18: Phase 2 What is to get sodded in this phase?

  Answer 18: No areas are to be sodded. See answer above to Question 17.
- Question 19: The initial erosion control plans show the Sediment Basin 1-3 and Pond 1 being installed first. Will the contractor be allowed to place the excavation out of the ponds in the fill areas onsite or will the contractor have to stockpile the cut from the ponds and then touch it again to place as onsite fill?
- Answer 19: The Contractor will be allowed to place the fill in the immediate fill areas adjacent to the basins as necessary to completed the construction of the pond and sediment basins. Diversions/swales must be in place to divert all runoff from these areas to the pond/sediment basin to which it drains.
- Question 20: Will the contractor be allowed the clear and grub the entire 110 acres at one time?

  The contractor is to follow the phasing schedule as shown on the Erosion Control Plan Sheets. The entire site can be cleared once the perimeter BMP's are installed and pond/sediment basins are installed.

- Question 21: What are the limits of respreading topsoil? The plans show the centerline of the future roads within the park. Does the Owner still want to respread topsoil in these areas since the road will not be constructed yet?
- Answer 21: Topsoil is to be respread in all areas with the exception of the building pad closest to future Road "A", and within the future Road A, Road B and Road C limits (30' width).
- Question 22: Is there an address for the project site?
- Answer 22: 1000 Innovation Way, Westminster, SC 29693 is the address of the existing industry, Baxter Manufacturing and Hi-Tech Mold Carolina, inside the park. This is the only address for the park as it is currently the only occupant; however, do not enter the property of the existing facility within the park.
- Question 23: Phase 2 Is the RCP used on the project to be O-Ring with rubber gaskets or tongue and groove with conseal? If O-Ring, may tongue and groove with conseal be substituted for this pipe?
- **Answer 23:** O-Ring Reinforced Concrete Pipe with rubber gaskets is to be provided.
- Question 24: Is there a more up-to-date boring location sheet that shows the current site plan with the boring data? The geotechnical report indicates that existing cultivated soils are not suitable for building support and should be undercut from beneath any planned building areas. It looks as though both building pads lay within the limits of the existing cultivated soils. It would be helpful to have this information to better dictate the limits of undercut since unsuitable soil removal/replacement and rock excavation will not be paid for by the Owner.
- Answer 24: Terracon is currently performing an additional geotechnical exploration on the site. It was anticipated to be completed by Monday, February 20, 2017, but due to setbacks, the work is currently not completed. 25 Boring Logs have been provided showing the infield data collected. The soil boring logs and location map are enclosed. The borings completed are highlighted on the Boring Location Map in yellow. Three of the borings encountered rock; however, only the rock in Boring B-6 was above the proposed finished grade elevation. The borings that encountered rock are highlighted in green. The new geotechnical report will be provided as soon as possible. Bid earthwork as unclassified.
- Question 25: Since we are required to have 2 bid Bonds One for Phase 1 and One for Phase 2 should we enclose each bid in a separate envelope?
- **Answer 25:** The Bids are to be submitted in the same envelope.
- Question 26: Would it be possible to include a Unit Price to Bid for Rock Excavation? This is the normal practice when no Rock quantity is given and would apply to each bidder.
- Answer 26: No, the project is to be bid as Unclassified. No separate unit payment will be made for rock removal.
- Question 27: Section 01135 Bidder's Qualifications, is this to be submitted with the bid?
- Answer 27: Yes, since there will be a short time frame between the bid opening and county Council Meeting, please provide a completed copy of Specification Section 01135 Bidder's Qualifications with the Bid.

- Question 28: After reviewing the earthwork for the Phase 2 bid, would the Engineer allow the contractor to adjust grades in order to produce a balanced site? What would be the maximum that the contractor could raise or lower the site in order to balance it and not affect utilities?
- Answer 28: If the earthwork is determined to be unbalanced, the material can either be stored or found onsite, at locations as approved by the Owner, Engineer and Geotechnical consultant.

Question 29: Will a Plan Holder's List be provided?

Answer 29: The updated Plan Holder's List is enclosed.

#### END ADDENDUM NO. 2

Dated: February 23, 2017	
Please acknowledge receipt of Adde	endum by signing and attaching to your bid.
BY:(Contractor)	DATE:
(Signature)	(Title of Signing Officer)

#### Frequently Asked Questions about Outdoor Burning in South Carolina

#### Q: What can I legally burn?

A: Vegetative debris, including limbs, leaves, and grass clippings can be burned. If it grows on your property, you can burn it.

#### Q: What items cannot be legally burned?

A: You cannot burn household garbage, plastics, shingles, tires, lumber, rubber, or anything other than plant growth that originates on the site.

#### O: What do I have to do before I conduct an outdoor burn?

A: State law requires that you notify the Forestry Commission (see below) and follow certain precautions. To implement the proper precautions, you must clear a firebreak around the burn site and have the right equipment (water hose, tractor, shovel, hand tools, etc) available to keep the fire under control. You must also stay with the fire until it is completely safe.

All burning MUST comply with regulations established by the SC Department of Health and Environmental Control. To find out more about DHEC regulations and outdoor burning, follow this link: http://www.scdhec.gov/environment/baq/OpenBurning/

In addition to state laws regulating outdoor burning, there may be other local ordinances that apply in your area. Be sure to check with your local fire department or county fire marshal before burning.

#### O: What time of day can I burn?

A: The law does not restrict the time of day you can burn. However, burning during the late afternoon or at night, temperature inversions can cause smoke to linger close to the ground, where it may impact your neighbors or nearby roads. In general, it is best to burn between 10 am and 3 pm. This time of day is best for smoke dissipation, and will reduce the risk of negatively impacting your neighbors.

#### Q: How do I notify the Forestry Commission?

A: The toll-free numbers below allow you a quick, easy way to make your yard debris burning notification. Just dial the appropriate number, listen to the message, and leave your name, address and phone number. The notification law does not apply within town or corporate limits.

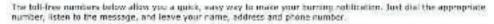


## Land Clearing, Construction, and Other Burning Information

#### Notification Procedure

If adjacent to woods, leash, or grassland, state law requires you notify the Porestry Commission before huming any vegetative materials from land clearing activity or right-of-way maintenance. Also included is any outdoor burning conducted for training purposes. The state notification law does not apply within flown or city limits, but certain city ordinances may regulate the burning.

All burning of this type must comply with DHEC Regulation 61-62.2. You should make sure you understand the requirements prior to calling for notification. Forestry Commission dispatchers are not sutherized to interpret this regulation. If you need an explanation of Regulation S1-62.2, call the nearest office of the SC Department of Health and Environmental Control.





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1-800-895-7958	History	1-800-916-5404
1-800-895-7059	3asper	1-810-956-5405
1-800-891-7060	Kershaw	1-800-705-8609
1-800-695-7061	Lancaster	1-800-705-8610
1-800-895-7052	Laranuria	1-800-705-8611
1-800-895-7063	Lose	1 800 705 8612
1-800-895-7064	Lexington	1:800:709:8613
1-800-905-3593	Harion	1-800-705-0614
1-800-985-2594	Harlboro	1-800-705-8615
1 800 986 3595	McCormick.	1-800-709-8616
1-800-986-3596	hewberry	1-800-705-8617
:-800-986-3597	Ocones	1-800-705-8618
1-800-986-3999	Orangeburg	1-800-517-9636
1-800-908-3742	Pickens	1-800-517-9637
1-900-985-3745	Richiend	1-808-517-9638
1-800-986-3746	Saluda	1 800 517 9639
1-800-906-5138	Spartanburg:	1-800-517-9640
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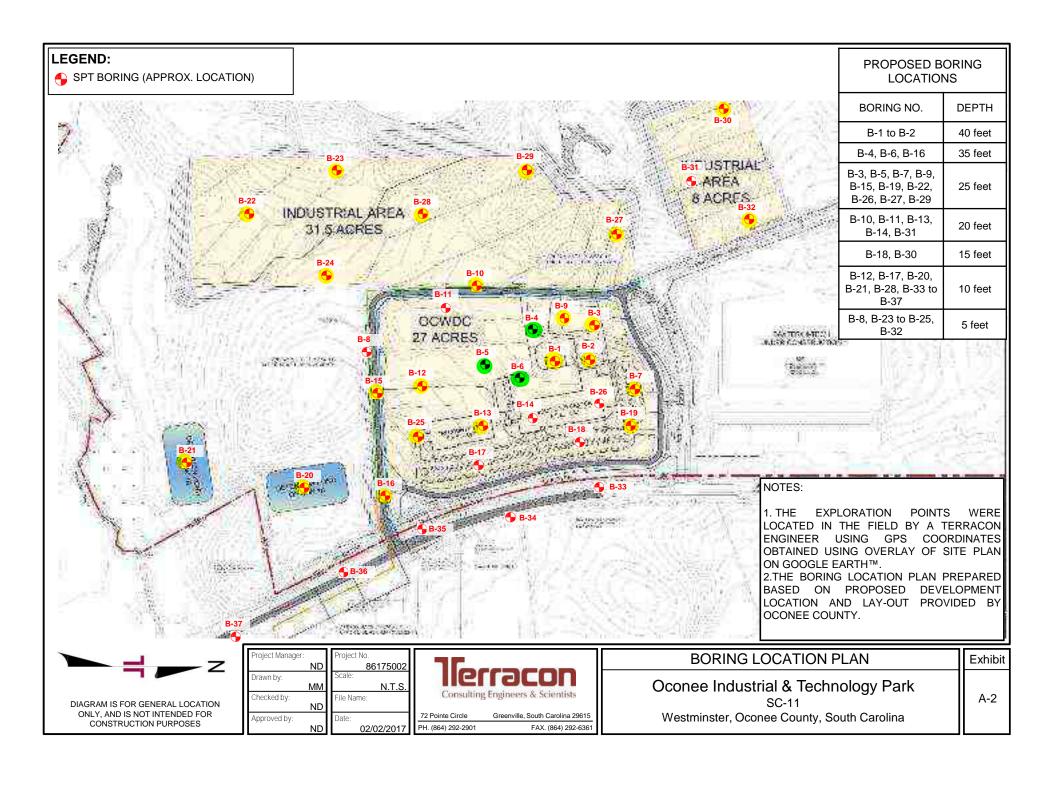
Laws and Regulations

Outdoor Burning/ Frequently Asked Questions

SCFC Items / Review and Events / Fire and Gurring Deformation / Possets and Flatter / Landowner Services / Souding Sales / Forest Hamagement / Tree Care and Community Forests

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23.5 28.5 33.5	25 25 30 35		A law	27	Residual Silty Sands part Brown Black Residual Silty Sands grown white arange  Bory reduced at 28 deet due of						
18.5 23.5 28.5	25		A law	27	Residual Silty Sands part Brown Black Residual Silty Sands grown white arange  Bory reduced at 28 deet due of						
18.5 23.5 28.5 33.5	25 25 30 35		A law	27	Residual Silty Sands part Brown Black Residual Silty Sands grown white arange  Bory reduced at 28 deet due of						
18.5 23.5 28.5 33.5	20 25 30 35		A law	27	Residual Silty Sands part Brown Black Residual Silty Sands grown white arange  Bory reduced at 28 deet due of						
18.5 23.5 28.5 33.5	25 25 30 35		A law	27	Residual Silty Sands part Brown Black Residual Silty Sands grown white arange  Bory reduced at 28 deet due of						

	ID: B	5	7			2.20-1	-	-	lerraco
Client: Projec Site Lo Latitud Longiti	Number cation: e: ude:	er: % 100	o 'no 5 2 Nate Hawth		Date: Auger/WR R Boring Diame Depth of Bori Water Level: Well Installed	Drilling Method			
Logge Driller:			Brett Burnet		Drill Rig:	d: No GP#7	38		Rock Core
, ∄De		Gra	b/Composite	Time		Time	DTW:	ft BLS / ft bTC	OC Sample Method
			Grab						Hand Auger Macro Core X Split Spoon Shelby Tube
Hugo Hugo Hugo Hugo Hugo Hugo Hugo Hugo	Depth (ft) Recovery (inches) Blows per 6"		MINOR MAJOR GR. moisture, density, ot	SSIFICATION), sand size, co odor, geologic unit					
0		-	- 1	5 - 9	Topsoil _	Gravel	Asph	alt	ConcreteNA
1	2.5		314	14	T11	any	1	12 5 11	1 Fig. C
3.5	5		46	7	esional	Sandy	ML ML	Red	F-C Wasser
6	7.5		612	17	Res 10 W	4 Sanoy	ML	lightra	o Fil win
8.5	10		66	18	Same	Sand	ML	lighter	ed F-C w/mi
13.5	15		314	1-2	Vegida	al 50	Ky Z	014 1	Redish onen
18.5	20		8 VZ	35	Residua	13.14	no INI	b- Ou	in tea white
23.5	25				8				· w/ nu
					Borr	refinal	o a	li feet	due to bedood
28.5	30			1					
28.5	30						-		
28.5	35								
			港				Xi <sub>2</sub>		
33.5	35		港						

Ι .	Bori	NGIT	og					76	rrac	on
Client	g ID: E : ct Numb	35	11750	02	Date: Auger/WR Ref	1-20-/	Z 27	NA C	Prilling Metho	d
	ocation		1832		Boring Diamete Depth of Borin	er: 6	inches		☐ DPT X HSA	
Longit	d By:	83,0	Nate Hawtho		Water Level: Well Installed:	F No GP#738	Feet / No wa	ater	☐ Mud Rot	y
Driller	: epth	Gra	Brett Burnette	Time *	Drill Rig:	ьтос	Rock Co	nod		
			Grab						☐ Hand Aug ☐ Macro Co X Split Spo ☐ Shelby Tu	re on
(4) H-20	Ceptin (π)	Recovery (inches)	Blows per 6"		IOR MAJOR GRAI sture, density, othe					size, color,
0	2.5		0 4	7 5	Topsoil	Gravel	Asphalt	Cone	crete _	NA
3.5	5		516	8	5/4/ 55/19/91	5M	s Red	FINE	-C	100 lay
6	7.5		819	18	residua,	5M	Red	FA	e w/	mus co
8.5	10		512	8	estonal	Sany	Red w/	F-	ر ٧	/ muscou
13.5	, 15 ,		312	3 R	esidual	5 1/2	anou MI	E RED	Ach	nne
18.5	20		9 V8	50/6 K	esidaa	13:14	y Sand	(1)	e Blace	non
23.5	25				Auger	Refusal	al 23' du	ne do be	drak,	The
28.5	30									
33.5	35		e the							
38.5	40		: "							
43.5	45									
Notes:										-

Soil F	Bori	ng L	og					Tarr	acon
Boring	ID: B	7				t			
Client:			100		Date:				g Method
Project I			175002		Auger/WR		6 inches		Hand Auger DPT
Site Loc Latitude		100	o innovata	30	Boring Dia		o inches		HSA
Longituo		83.	05234		Water Lev			Mud Rotary	
Logged	_	001	Nate Hawtho	orne	Well Insta		Air Rotary		
Driller:			Brett Burnett		Drill Rig:	lled: No GP#7		Rock Core	
	al.	Oun	b/Composite	Time		Time	DTW: ft BLS / f	t bTOC Som	ple Method
Dept	uı	Gra	Grab	18116	Date	Tille	DIVV. RDEST		land Auger
		-	Grab						Macro Core
									Split Spoon
									Shelby Tube
Depth (ft)		Recovery (inches)	Blows per 6"				IPONENTS (USCS ts, structure, angula		
0	2.5		415	7	5 Topsoil	Grave	Asphalt	Concrete	NA
-	2.0		112	-	FIII .	5.14	mosts Post	( F-	- (
3.5	5		45	7		2417	A 1	T-1	
	7.5		3 10	18	Sunt	5M	Red	- Fil	12 W C
8.5	10		5/15/	-	Same		Fed on	F-(	w) (
0.0	10				Same	Sandy	)	Ţ.	
13.5	15	errina the	415	φ.	Residu	ul 57	by said	Yink R	Black
18.5	20	AT ST	4 14	4	San	5M	PAK W	black	Fine in
23.5	25		415	15	Resiliual Same	5M	idn't pin	CSn DIDAM	Fine mu
	71				Carrie	The first transport of the second	refue to the		. 1464
28.5	30				Bo	nd derma	ated at	25' . N	o bedroull
33.5	35					0			
	-		4	-					
38.5	40						1		
				-					
43.5	45								

	ID: B	9						1-7 1-	_		lerra	
Client:			1 1-2				Date:	11		1/NA	Drilling Meth	
				5000			Auger/WR Refusal: NA Enring Diameter: 6 inches					luger
Latitud	cation:	000	0.00	north	100		Depth of Bori		O INCINE:	,	☐ DPT X HSA	
Longit		22	101	5.6			Water Level: Feet No water Mud					
Logge		1000	Nate	Hawtho	rne		Well Installed	: No			☐ Air Rota	_
Driller:				Burnette			Drill Rig:	GP#7	38		Rock C	
De		Cro	h/Con	nposite	Time	3	Date	Time	DT\//	: ft BLS / ft bT	TOC Sample Me	thod
De	pui	Gra	Grab		Time		Date	THIC	D177	. REECTION	☐ Hand Au	
			Oldo								☐ Macro C	
											X Split Sp	
									1		☐ Shelby	
			1				"					
Don'th (#)	ליו) ויול בא	Recovery (inches)	7. de m	Blows per 6"		MINO moistu	R MAJOR GRA	NN SIZE COM er component	IPONENT	'S (USCS CLA ire, angularity,	ASSIFICATION), san , odor, geologic unit	d size, d
0						4 TO	opsoil	Gravel	Asp	halt	Concrete	NA
1	2.5		3		2		50	Man C	L.	5 34	F-C	
						1	57	1 V2300	vd-	Red		
3.5	5		5	16	8	3	G BYZ-6	Sand	ML	Red	F-C ·	N/ C
6	7.5		10	1/5	17	sest nat sand me 19				F-C		
8.5	10		4	14	5	勸	11/2 317	ly Sa	nds	Daret	Red w bla	K
13.5	15		3	13	8	Re.	sichent	5.14%.	Sagh	ly Red	13h of an	ge F
18.5	20		3	50/5		Re	sidual.	silly:	Sino	15 Book	is day	Ŧ
23.5	25 :		18	174	44	Sa	me.	5M	A	brown	white	ħ
28.5	30		F				Bory	termn	utral	at 25	No bed	neh
	35										,	
33.5												
33.5	40											

			Booking			Manfast	12-4	1194	PI 511	E	5 Kithe	The state of the s	
Soil	Borii	ng L	og 📜	10	1	FD0 17	III.b9	(+7 TE	-ns			JOH .	
201	V-10	100	Ct of	144	YAM	(4 molarly)	7 a	A CT011	rweek.				
Boring Client:	ID: B	10		_	-	Date: 2	17-17	-	Creek		Drilling Me		
Project	Numbi	er: S	417500	7		Auger/WR Re	efusal:		N.A			Auger	
Site Lo			innovat	25.7		Boring Diameter: 6 inches DPT							
Latitude		4.6	9774			De th of Bori					X HSA		
Longitu		53 0	5405			Water Level:	r		Rotary				
Logged			Nate Hawtho	rne		Well Installed		☐ Air Ro	tary				
Driller:			Brett Burnett	е		Drill Rig:	GP#	738			Rock	Core	
Dep	th	Gra	b/Composite	Time	7	Date	Time	DTW:	ft BLS / ft b	тос	Sample M	lethod	
		Grab									☐ Hand A		
											☐ Macro		
		_									X Split S		
											☐ Shelby	Tube	
Depth (ft)		Recovery (inches)	Blows per 6"			R MAJOR GRA							
0			11	1	5.10	ppsoil	Gravel	Asph	nalt	Cor	crete	NA	
1	2.5		75	10	A	11 2	141	Sund	· de	1	me	W/la	
3.5	5		57	8	30	Sidna	//// //M	1211-161-	Mht.	o d	Film	اس	
6	7.5		619	1/3	Ke	\ua\	Sandy M	иL	PA INT		F-C	Mus	
8.5	10	-	66	7	20	anyle	561	M ML	<u> </u>	114	T	+trace	
					PAG	Sidnal	5/4	154	VS K	od .		muse	
13.5	15		516	4	0	6idua	121	JIE	end Re	Wy.		1	
				W 1	25	Oi a wa	1 2.1	- Yuk	10 7	40	no	range	
18.5	20		3 3	3	Re	3 dua	151	ty s	ands	Ph	t Bro	15 7	
23.5	25		414	5	Re	231dna	15:1	4/50	nds x	Ved.	Isho	bun	
28.5	30					Bony	termin	ateel o	t 20	, N	becho	och mics	
						0							
33.5	35												
38.5	40	-						-					
	-t∪												
40.5	45	-		_									
43.5	45			-							•		
otes:							/						

	l Bor		.og						71	erracon		
Borin	ng ID:	B-/-2				Date:						
	ct Num	ber:	617500	5		Auger/WR Re	efusai:		, NA	Drilling Method Hand Auger		
	ocation					Boring Diameter: 6 inches DPT						
Latitu		4,6	9695			Depth of Bori Water Level:	ing: /o		100	X HSA		
Longi		83	05233			☐ Mud Rotary						
	ed By:	_	Nate Hawtho			Well Installed				☐ Air Rotary		
Drille	·		Brett Burnett	9		Drill Rig:	GP#7	738		Rock Core		
:D	epth	Gra	ab/Composite	Time 3		Date	Time	DTW: ft	BLS / ft bTOC	Sample Method		
			Grab							☐ Hand Auger		
					_					Macro Core		
_	_	-			-			-		X Split Spoon		
	_	_								Shelby Tube		
	Depth (ff)	Recovery (inches)	Błows per 6"	r	MINOR noistur	: MAJOR GRA	AIN SIZE COM ner componen	IPONENTS (Uts, structure, a	JSCS CLASSI	FICATION), sand size, color, r, geologic unit		
0	2.5		314		<u> 3</u> Top	osoil	Gravel	Asphalt		Concrete NA		
	2.0			1	1	111 3	1/5 17	Solute	Red	F-C rou		
3.5	5		415	5	B	25/Vual	San	MC 01	angish (	ed F-C tr		
6	7.5		67	6	E	1 50	12/1/2	Marales	Led	F-C Wus		
8.5	10		214	3	5	51 mal	SM	01	angish M	of Fine mus		
13.5	15	.57				borto	L termin	utcel.	ut 101	. No bedrock		
						(			10	. IND DEBIDO		
18.5	20											
23.5	25											
28.5	30					juli in lindu. Ž	agan ber seminatus (M. Semanas and Seminatus Seminatus Seminatus Seminatus Seminatus Seminatus Seminatus Semina Seminatus Seminatus					
33.5	35					-				٠,		
			01.00	4								
38.5	40											
12.5	45		1 .					2. 2.				
13.5	45											
otes;				_								

	Bori	-100S	.og				\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	76	erracon
Client			61750c	, 7	Date:	/WR Refusal:	·	/NA	Drilling Method
Site L Latitu Longi	ocation de:	100	o innova	tion	Boring Diameter: 6 inches  Depth of Boring  Water Level: Feet No water				☐ Hand Auger ☐ DPT X HSA ☐ Mud Rotary
	ed By:	3.00	Nate Hawtl Brett Burne			nstalled: No	#738	THO Water	Air Rotary  Rock Core
, *D	epth	Grab/Composite Grab		Time	e " D	ate Time	DTW: ft E	BLS / ft bTOC	Sample Method Hand Auger Macro Core
								·	X Split Spoon Shelby Tube
Depth (ft)		Recovery (inches)	Recovery (inches) Blows per 6"		MINOR MAJO moisture, dens	PR GRAIN SIZE CO sity. other compone	MPONENTS (Unts, structure, a	SCS CLASSIF	FICATION), sand size, color, , geologic unit
0	2.5		4 4	16-	Topsoil	Gravel	Asphalt	C	concrete NA
3.5	5			15/	Fill.	s.14/ 5	unds K	ei(	
6	7.5		7 1	18	San Sam	ne -			
8.5	10		7 K	IS	Sam	٤			
			2.12.	1,2	Resin	lual S.	AJ San	ide u	rite Black
13.5	15	78	7 18	8	Residu	.154%	sart u	11/4 B	Slack Craye
18.5	20		23	13	Doc Au	1 5:14	Sands	Brown	rul to
23.5	25			1	Ale	Born tarmin	yel at 20	. No bad	mile.
28.5	30					- V			
33.5	35	5							
38.5	40		164			• • • • • • • • • • • • • • • • • • •			
					-				
	45						E. Wing		

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	Bori		og					76	rrac	on		
Client		No.				-20-17			Orilling Metho	d		
	t Numb	The second second	617500	22_	Auger/WR F		-	NA	Hand Au	ger		
Site L Latitue	ocation	187	novation	1	Boring Diam		6 inches		☐ DPT			
					Water Level	Depth of Boring:  Water Level:  Feet  No water  ✓ Mud Rotary						
							_ reetNo	water	☐ Mud Rota	-		
Driller									☐ Air Rotary ☐ Rock Core			
:De	epth	Gra	b/Composite	Time *	Date	Time	DTW: ft BLS	ft bTOC	Sample Meth			
	_		Grab	-		_			Hand Aug			
	-	-		-	_				☐ Macro Co			
						_			X Split Spoo			
					_	_	14	- 1	Shelby Tu	be		
(a) H120	(ii) iidən	Recovery (inches)	Blows per 6"	A n	MINOR MAJOR GR. noisture, density, ot	AIN SIZE COM her componen	IPONENTS (USCS	CLASSIFICA	ATION), sand : eologic unit	size, color,		
0	2.5		515	5-1	Topsoil	Gravel	Asphalt	Con	crete	NA		
	Lio			-	111 00	binso-	ide Do	/	F-C	~		
3.5	5		414		De Cliva	114 200				1/		
0.0	-		11	1	KC) I will	Sand	ML Re	E	-C	us con		
6	7.5		99	9	Re-Sudian	Cand	AA.	201 1112				
	1.0		1 1	1	TIAL S	H Sala	To true	who Do	5-1 F-C	Mass		
8.5	10		414	4	40 (00) 34 5	7×1-71	DED HOU	7	61	The state of the s		
0.0	10		11/	1	les na	S ha MI	erandia	1000	in Ch	W/		
					14071	7 1 1 1	).,,	1100		Miss		
13.5	15		V13	11	W.	Samori	AA a	Cana (	_			
10.0	10		710	71	1	2 110	1 D	range	01 1	-C W		
					45 Mal	Sitty	5000000	(Delica )	Clark	PHONE		
18.5	200		275	11	100			al al	4.7	1-1		
10.5	20		22	7	Paril	1 1/		OI A	まりり //	WALL T		
-				11: 13	Kesilur.	15/41	Sand 1	4h+1	100 mint	Kelih 1		
	1		22177	11				30	- LU	MAG		
23.5	<sup>°</sup> 25		4/4/	4	11/20:1	1	11		4 Mg 15 4	151		
-			100	All La	MESILL	4151	y and	5 1-017-	L 10:01	5		
				11	astild			20	- Lan	1 paule		
28.5	30				0	WALL STATE OF THE		AND THE PROPERTY OF	(Γ, <b>ε</b> γ	1,1,00		
					Bor	my termi	at at	S NU	bed rock			
		. 0				U						
33.5	35											
			en.									
			e∯rk ——IIII ——π									
38.5	40											
			- 1/1									
		: 01					FeB. 1					
		13					* Be /					
13.5	45		T				Past					
13.5	45	13					Pas:					

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	Bori	07	.og					7	Terracon
Client Project Site L Latitu	ct Numb ocation: de:	er: 😤	141750 Watie	202	Date: Auger/WR Re Boring Diame Depth of Boring Water Level	efusal: iter:	6 inches	NA .	Drilling Method Hand Auger DPT X HSA Mud Rotary
Logge	ed By:		Nate Hawtho		Well Installed	: No GP#7		NO Water	☐ Air Roţary
Driller		Brett Burnette  Grab/Composite Time			Drill Rig:	Rock Core  C Sample Method			
	Depth		Grab	Time	Date	Time	DIVI. KD	LS / ft bTO	Hand Auger  Macro Core  X Split Spoon  Shelby Tube
Š	Deptin (II)	Recovery (inches)	Blows per 6"		NOR MAJOR GRA sisture, density, oth		•		SIFICATION), sand size, color, lor, geologic unit
0	2.5		3 3	2 0	Topsoil	_ Gravel	Asphalt		ConcreteNA
3.5	5		2 17	7	D.11 5:17	1151	ds Rea	1.sh	Brown
6	7.5		22	1	-, 11 6	y Sy	13	EWIN !	pronze
8.5	10		212	2	Sam + Fill 5.1	ty sa	nd lig	11/13/20	oun Orange
13.5	15		ネス	3 /	esidue	s./Ly	Sarl	light	Brow. white
18.5	20		2 13	4 5	Same				
23.5	25		Ç 5	5	lesidual	silt,	Carl-	Boou	nunita-
28.5	30		3 141	5	IVIC GIRT	****			
33.5	35		4 5	45	16077 6				
38.5	40				Borg ter	mirated	at 35'	. No	bedrock
43.5	45								
Notes:									

Client	g ID: /B	11			Date:			Drilling Method
	t Numb		6/7500	2	Auger/WR Ref		_ 1/NA	
Site L	ocation:	1000	o Innuati	007	Boring Diamet		6 inches	☐ DPT
Latitud					Depth of Borin	F. 1 06	X HSA	
Longit			N. 1. 11 (1		Water Level:	NI-	FeetNo water	
Logge			Nate Hawtho		Well Installed:	No OD#70	0	☐ Air Roţary
Driller.			Brett Burnett	9	Drill Rig:	GP#73		Rock Core
D€	epth	Gra	b/Composite	Time	<sup>7</sup> Date	Time	DTW: ft BLS / ft b1	
		-	Ġrab	-				Hand Auger
				-				Macro Core
	-			-				X Split Spoon
				I				Shelby Tube
(#) through	(ii) inded	Recovery (inches)	Blows per 6"		MINOR MAJOR GRAI moisture, density, othe			ASSIFICATION), sand size, o odor, geologic unit
0	0.5		5 1/		Topsoil	_Gravel	Asphalt	Concrete NA
1	2.5		0 4	0	F11 -	12/2	Ja Val	F-C
3.5	5		1115	6.	FILE	ty Jai	MUS NEW	
			7 13	8	Sance	M	Red	Fine W/c
6	7.5		9 17	7	Same	Sandy ML	Ed	F-( w/
8.5	10		4 4	5	Some	Sandy	Of Milit	F-C
-								ted ted a limit
13.5	15		516	6	Darlla	Alex	· Part	Elect HAR
13.5	15		5 4	6	Recident 5	5./4y G	ends Pink	Black HA
13.5 18.5	15		5 4 5	5	Residual s	5.14 y G	ends Pink	And a Fine
			5 14	5	Residual Sama	5.14460 5M	pink-1	man Fre
18.5	20		5 14	5	777	5M	pink/	Mach Fine
			5 14 4 15 4 14	5	777	5M	pink-le	And Fre
18.5	20		5 14 4 15 4 14	5 4	Residual :	5.446 5M 3.446	Sands 1gM	Brown white
18.5	20		5 4 4 15 4 14	5 4	Residud s	- V		
18.5	20		5 14 4 15 4 14	5 4	Residud s	- V		
18.5	20		5 14 4 15 4 14	5 4	Residud s	5. Hy Exercised		
18.5 23.5 28.5	20 25 30		5 14 4 15 4 14	5 4	Residud s	- V		
18.5	20		5 14 4 15 4 14	5 4	Residud s	- V		
18.5 23.5 28.5	20 25 30		5 4 4 5 4 4	5 4	Residud s	- V		
18.5 23.5 28.5 33.5	20 25 30 35		5 4 5 4 4	3 4	Residud s	- V		
18.5 23.5 28.5	20 25 30		5 4 4 5 4 4	5 4	Residud s	- V		
18.5 23.5 28.5 33.5	20 25 30 35		5 4 5 4 4	3 4	Residud s	- V		

	l Bor		-og					זר	erracon		
Clien Proje	ct Numi	ber: ,	2 67500 nov :		Date: Auger/WR Re Boring Diamer	fusal: ter:	6 inches	NA	Drilling Method Hand Auger DPT X HSA		
	itude:		Note Haveba		Water Level:	Water Level: FeetMo water ☐ Mud Rotary					
Drille	ed By: r:		Nate Hawtho Brett Burnette	Well Installed: Drill Rig:	No GP#7	☐ Air Rotary ☐ Rock Core					
iD	Depth		Grab/Composite Grab		Date	Time D	DTW:	ft BLS / ft bTOC	Sample Method  Hand Auger  Macro Core		
									X Split Spoon  Shelby Tube		
:	Depth (ft)	Recovery (inches)	Blows per 6"		INOR MAJOR GRAI				FICATION), sand size, color, , geologic unit		
Ó				2	Topsoil	Gravel	Aspha	it c	ConcreteNA		
1	2.5		916	5 1	T/ < 14	h Cornera	1 2/2	101.6	,		
3.5	5		13 13	73	1 1	/ /	1				
6	7.5		5/ 3	3	residual s	5:14 V	and	K+d /-	Black		
0.5	40		7 1/	10	Perilua	5.144	Sand	s Redd.	in Orange la		
8.5	10		7 7		posidual	5:14	Sau	nd light	L brown Pint		
13.5	15			=	ann ton	materal	at 10'	No bedroe	la		
18.5	20				lacid tests			The best for			
23.5	25										
				Si	salara Meneger	* ************************************					
28.5	30				CP 96						
33.5	35								,		
38.5	40	8	1				ı				
13.5	45										
otes:											

Clie	ing ID: nt:	B X	1		Date: 2	77-7	,	116	stracc
	ect Num	ber:	81-17501	22	Auger/WR Re			_/_NA	Drilling Method
			1110/4/5000	•	Boring Diamet		6 inches	-Chie	☐ Hand Auger☐ DPT
Latit	ude:		No. 10 and St.		Depth of Borin		O II IOITES		X HSA
Long	jitude:				Water Level:	at the	Feet L	No water	☐ Mud Rotary
Logg	ed By:		Nate Hawthorn	ie	Well Installed:	No		erro water	Air Rotary
Drille			Brett Burnette		Drill Rig:	GP#7	738		Rock Core
91	Depth	T Gr	ab/Composite	Time *					
	zcpa1	U	Grab	Time .	Date	Time	DTW: ft E	BLS / ft bTOC	Sample Method
			Orab	_			_		Hand Auger
									Macro Core
									X Split Spaon
			1		1				Shelby Tube
	Depth (ft)	Recovery (inches)	Blows per 6"	MINO	R MAJOR GRAIN	N SIZE COM	PONENTS (U	SCS CLASSIFI ngularity. odor, g	CATION), sand size, geologic unit
0	2.5		212 1	4 To	opsoil	Gravel	Asphalt	Co	ncrete N
3.5	5		8141	y t	<u>III 51</u>	Hy -		Dontak	2-0
6	7.5		41510	1 +.	5.	ILY :	ounds	Red	
3.5	10		3141	5	Sann a				
					Dann e				
3.5	15			-	Bory term	wheel at	Mola A	lo bedruk	
3.5	20				V				
3.5	25								
5.5	30				7	A COMPANY OF THE PARTY OF THE P	-		
1									
	35		in.						
.5		+							
.5	40	+							

Soil Bo						1	Terrac	
Client:	W 101584	RANKS.		Date: 又~	2.10	81		
Project Nun		18500	22		Augor/MD Define			
Site Locatio	n: /600	2 inno	Untion	Boring Diame	eter:	6 inches	☐ Hand Auge	
Latitude:				Depth of Bori	no. 23	o inches	DPT	
Longitude:				Water Level:	15	Feet No water	X HSA	
Logged By: Driller:		ate Hawtho		Well Installed	l: No	No water	☐ Mud Rotary	
	Br	ett Burnett	е	Drill Rig:	GP#7	'38	☐ Air Rotary	
Depth		omposite	Time	Date	Time		Rock Core	
	Gr	ab			Time	DTW: ft BLS / ft bTOC	DOLLSON IN CELLOR	
							Hand Auger	
	-				1		☐ Macro Core	
		-					X Split Spoon	
	1 - 1					1.	☐ Shelby Tube	
0 2.5	5	1471	y 4 To	opsoil	Grav I	C	oncreteN	
		1.7	1-1-	1/3:14	1 Same	18:30 18:51	F- (	
.5 5	1600	1-2 17	100					
	1	16	1		Sar Ville W	Spran		
	9	10	Fil.	11511	Sand	Lad F-	c w/r	
5 7.5	9	18 1	2 8	11511	Sands	Raf F-	c w/c	
ĵ 7.5	7	18 1	ZR	11 5:11) esidual	Sand Sand	Raf F-	c w/c	
	7	18 1	7 F.	USilly esidual	Sand Sand	Raf F-	lish orange	
ĵ 7.5	7	18 1	7 F.	231	Sands	Raf F-	c w/c	
5 10	7 70	12 17	7 F.	231	Sand Silf	Raf F-	L'strorange	
ĵ 7.5	7 7 70 3	12 17 13 12 13 12	Ba	Sidual s	41041	Kaf F- ( Ny Mi X Fonds Redo Sands Redo	C W/C	
5 10	7 70 3	12 17 13 12	2 P.	Sidual s	Sand Six Six anogmi	Kaf F- ( Ny Mi X Fonds Redo Sands Redo	C W/C	
5 10 5 15	3	12 17 13 12 13 12	Ba	Sidual s	41041	Kaf F- ( Ny Mi X Fonds Redo Sands Redo	C W/C	
5 10	3	12 17 15 10 13 12	Ba	Sidual s	41041	Kaf F- ( Ny Mi X Fonds Redo Sands Redo	c w/c	
5 10 5 15	3	12 17 15 10 13 18	Ba	Sidual s	anogmi	Ray F- C Ny Mi X FRANS Redo Sounds Refel - Red light on	c w/c	
5 10 5 15	3 3	12 17 15 10 13 12 12 15	Ba	Sidual s	anogmi	Kaf F- ( Ny Mi X Fonds Redo Sands Redo	c w/c F-C F-C F-C Tac F-C	
5 7.5 5 10 5 15 5 20	3 3 3	12 17 15 10 13 12 12 15	Les	Sidual 3	anogmi	Ray F- ( No Ked)  Sands Radio  Red light one	C W/C 1:4: orange F-C Me F-C	
5 7.5 5 10 5 15 5 20	3 3 7	12 17 15 10 13 13 12 15	Les	Sidual s	anogmi	Ray F- C Ny Mi X FRANS Redo Sounds Refel - Red light on	c w/c F-C L's/rorange ACL P-C ACL F-N	
5 7.5 5 10 5 15 5 20	3 3 7 1	12 17 15 10 13 12 13 13	Les	Sidual 3	anogmi	Ray F- ( No Ked)  Sands Radio  Red light one	c w/c   F-C  F-C  F-C  F-C  F-C  F-C  F-C  F-	
5 7.5 5 10 5 15 5 20	3 3 3 7 7	12 17 15 10 13 12 12 15 14 15	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20	3 3 3 7	12 17 15 10 13 12 12 15 14 15	Les	Aldural S	anogmi	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20	3 3 7 7	12 17 13 12 13 12 13 13	Les	Aldural S	anogmi s. Hy SM	Ray F- ( No Ked)  Sands Radio  Red light one	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20 5 25	3 3 3 7 1	12 17 13 18 13 18 14 15	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20 5 25	3 3 7 1	12 17 15 10 13 18 12 15 13 18	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20 5 25	7 7 7 3 3 7 1	12 17 13 12 13 12 13 13 14 15	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20 5 25 7 30	3 3 3 7 1	12 17 13 12 13 12 14 15 17 15	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20 5 25 7 30	3 3 3 7 1	12 17 15 10 13 18 12 15 13 18	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	
5 7.5 5 10 5 15 5 20 5 25 7 30	3 3 7 1	12 17 13 18 13 18 17 15 17 15 11 1	Les	Aldural S	anogmi s. Hy SM	Red light orange w blo	Tacled Fack F-N	

	ng ID: I	B- 2	3		- X-		110	erracor		
Cilen	ıt:					20-17		Drilling Method		
	ect Numl		10/750	12	Auger/WR R		NA 6 inches	☐ Hand Auger		
	Location	11)	notito.	7	Boring Diame	☐ DPT				
Latitu	itude:	_			Depth of Bori Water Level:	X HSA				
	ed By:		Nate Hawthor	me	Well Installed	: No	Mud Rotary			
Drille			Brett Burnette		Drill Rig:	. INO GP#7	738	☐ Air Roţary ☐ Rock Core		
	Depth		vi.				4			
U			Grab/Composite Ĝrab		Date	Time	DTW: ft BLS / ft bTOC	Sample Method  Hand Auger		
			Grub .					☐ Macro Core		
								X Split Spoon		
		5						☐ Shelby Tube		
i i	Depth (ff)	Recovery (inches)	Blows per 6"	MIN	NOR MAJOR GRA	IN SIZE COM er componen	IPONENTS (USCS CLASSIF ts, structure, angularity, odor	FICATION), sand size, color , geologic unit		
0			6-17 T	3	Topsoil	Gravel	Asphalt C	Concrete NA		
1	2.5		216	1	11 < 2	77	1 11 1 31	AB F-C W		
3.5	5		4 -7	7 1	111 ).	17/201	1312 KEGO 124	70		
3.0	3		21/	-	$\Gamma = 5$	dury M	C Res	F-C W/0		
6	7.5				TOWNE	7	V 15-5-02-	1 - 1 01		
8.5	10				Borne	tromnate				
					TO A LAL	THE WHAT A THE		L. I. I.		
						TO THORNE	at 5' . No	bedook		
					0	O HANGE	l at 5'. No	bedrank		
13.5	15				0	Continues	l at 5' .No	bedrank		
13.5	15				0	U Herior C	l at 5'. No	bedrank		
						TO MANUEL C	l at 5' .No	bedrank		
13.5	15					U Ministro	l at 5' .No	bedrank		
						U Ministro	l at 5' .No	bedrank		
18.5	20					U Ministro	l at 5' .No	bedrank		
						TO MANUEL CO	l at 5' .No	bedrank		
18.5	20					Common	l at 5' .No	bedrank		
18.5	20					U Ministro	l at 5' .No	bestronk		
18.5 23.5	20					Commission	l at 5' .No	bedrank		
18.5 23.5 28.5	20 25 30					Commission	l at 5' .No	bestrank		
18.5 23.5 28.5	20					Commission	l at 5' .No	bedrank		
18.5 23.5	20 25 30					Commission	l at 5' .No	bestrant		
18.5 23.5 28.5 33.5	20 25 30 35					Common	l at 5' .No	bedrank		
18.5 23.5 28.5 33.5	20 25 30					U TINNEX C	l at 5' .No	bestrant		
18.5 23.5 28.5	20 25 30 35						l at 5' .No	bed and		
18.5 23.5 28.5 33.5	20 25 30 35					U I I I I I I I I I I I I I I I I I I I	l at 5' .No	bedrank		

d

Borir	ng ID: E	3. 2	4				110	erracon				
Clien Proje Site L	t: ct Numb .ocation	per: &	17500 Z		Boring Diam	Auger/WR Refusal: : NA						
Latitu	ue: tude: 🥈	30	737	V	Water Level		Feet No water	X HSA				
	ed By:	0,0	Nate H wtho	rne								
Drille			Brett Burnett		Drill Rig:	u. 100 GP#73	28	☐ Air Rotary ☐ Rock Core				
		Cro	b/Composite	Time *				V.				
:Depth		Gra	Grab	Time.	Date	Time	DTW: ft BLS / ft bTOC	Sample Method Hand Auger Macro Core X Split Spoon Shelby Tube				
; ;	Depth (ft)	Recovery (inches)	Blows per 6"	n	MINOR MAJOR GR noisture, density, ot	AIN SIZE COMP her components	PONENTS (USCS CLASSIF s, structure, angularity, odor,	ICATION), sand size, color geologic unit				
0	2.5		414	4	Topsoil	Gravel	AsphaltC	oncreteNA				
3.5	5		< 17	9	Fill 3.	4/300	Va April	F-C 0				
6	7.5				T.// 5.	Hy &	unds fell	Stronging &				
8.5	10				0		W/	out tragment				
					bon	of termi	nated at 5'-1	do bedrock				
13.5	15	45										
18.5	20											
23.5	25											
28.5	30					rhaat it vallettiis. Tällistattastasjasja ja kirja vallet 2						
33.5	35											
38.5	40	1										
		131					190-9					

	ent:	-	5.		Date:			116	stracc
Pro	ject Num	nber: [	4175002		Auger/WR R	efusal:	- 1	NA	Drilling Method
Site	Location	n:/00i	Innovation	1 Way	Boring Diame		6 inches	INA	☐ Hand Auger☐ DPT
_	tude: gitude:		05143		Depth of Bori	ng: 5			X HSA
	ged By:	801	Nate Hawth	rne	Water Level: Well Installed	- N	_ Feet VNo wa	ater	☐ Mud Rotary
Drill			Brett Burnet		Drill Rig:	l: No GP#7	20		Air Rotary
*	Depth	Gr	ab/Composite	Time '	Date	Time			Rock Core
4			Grab		Date	Time	DTW: ft BLS / ft	ьтос	Sample Method
		-							☐ Hand Auger ☐ Macro Core
	_	-							X Split Spoon
									☐ Shelby Tube
	Depth (ft)	Recovery (inches)	Blows per 6"	Mil	NOR MAJOR GRA isture, density, oth	IN SIZE COMI er component	PONENTS (USCS C s, structure, angularit	LASSIFIC ty, odor, ge	ATION), sand size, o eologic unit
0	2.5		30 6	9 2	Topsoil	Gravel	Asphalt	Con	creteNA
0.5	-			1 1	5/15/5	(1) Se	related		
3.5	5		5 17	10		/			
6	7.5				Sume				
8.5									
0.0	10				Bory ten	nneted .	at 5'. No	bedru	L .
					Bory ten	mneted .	at 5'. No	bedicul	4
	10	R			Borg ten	mneted	at 5'. No	bedro	4
3.5					Borg ten	mneted	at 5'. No	bedial	4
3.5	15				Borg ten	mneted	out 5'. No	bedial	4
3.5	15				Borg ten	mneted	at 5'. No	bedrod	
3.5 8.5 3.5	15				0	mreted	at 5'. No	bedro	
3.5	20				0	mnated	at 5'. No	bedro	
3.5	15 20 25 30	ä			0	mreted	at 5'. No	bedro	
3.5	15 20 25 30	4			0	Mreded	at 5'. No	bedro	

Clie		ber Ø	175002		Date: 7-	Date: 7 August Aug					
Site	Location	11:1800	Innovation			Auger/WR Refusal: NA Hand Auger Boring Diameter: 6 inches DPT					
	ude:	39.6	9964	NJ.	Depth of Bor	ing: Z	5	X HSA			
	jitude: jed By:	83	. 05499 Nate Hawtho		Water Level:		Feet No water	☐ Mud Rotary			
Drille			Brett Burnett		Well Installed Drill Rig:	d: No GP#7	220	☐ Air Rotary ☐ Rock Core			
	Pepth	Gra		Time	10						
			Grab/Composite Grab		Date	Time	DTW: ft BLS / ft bTOC	Sample Method Hand Auger Macro Core X Split Spoon Shelby Tube			
	Depth (ft)	Recovery (inches)	Blows per 6"	M	IINOR MAJOR GRA	AIN SIZE COM eer component	PONENTS (USCS CLASSIF s, structure, angularity, odor,	TCATION), sand size, col geologic unit			
0			5	77	// Topsoil	Gravel	Asphalt C	oncreteNA			
1	2.5		7 1		Silve	AN		T C // d			
3.5	5		×/14 ]	5		7 dk 2904 N	16 Shah	F-C W/ C1			
6	7.5		5 12 1	6	12. 11. 55.1	1460	inds Religion	1) bravin W (d)			
8.5	10		35 18/1	S 1	esimual	0,14	Sand Crass	e hts			
				_6	16 Jun	Port 4	no while	F-M			
13.5	15	u singer	1121	20	60 1	= 77772	MC 11.				
			- S-7 +	100	1 6 , , l W.L.	z xxeyez	w w	lac lave			
8.5	20	1	3151	C D	esiden l	5. H.	sole Alth	1 /2			
4			6.11	13	torte	E   1	MY X THE PURE	White			
3.5	25	1	7 17	2 0	/	11	1 1 1	W/ OWE			
				1	e idra!	Silty	Sin Vian	1 116974 Bed			
8.5	30				30-3			1 4 -			
		Ť	-		Bonn t	orminated	at 25' Mo	basheck			
_					0	was a state of the	284 776 13MV	CONTRACTOR OF THE PARTY OF THE			
	35	1			11031			100			
3.5	-		u/	-							
3.5			1000								
3.5	40										
	40										
	40						¥				

Bor	il Bo						ור	erracor
Proj Site Latit	ect Nun Locatio	n:[200	86175007 Theyali	2 Way	Date: Auger/WR Re Boring Diame De th of Bori	ter:	NA 6 inches	Drilling Method Hand Auger DPT
Long	jitude: jed By:	83.	055 25 Nate Hawtho Brett Burnette		Water Level: Well Installed Drill Rig:	14	Feet No water	X HSA  Mud Rotary  Air Rotary  Rock Core
, I	Depth	Gr	ab/Composite Grab	Time *	Date	Time	DTW: ft BLS / ft bTOC	
	Depth (ft)	Recovery (inches)	Blows per 6"	MI mo	ostare, density, othe	IN SIZE COMF er components	PONENTS (USCS CLASS) , structure, angularity, odo	FICATION), sand size, color r, geologic unit
0	2.5		44	09	Topsoil	_Gravel	Asphalt	ConcreteNA
3.5	5		9 5	5	Fill 381	4/2/4/2	de Ked	F-(
6	7.5	d	3151	7	) fell Kes	dua 70	aw c ,	7-6
8.5	10		5 161	5 R	E177 5.	14	ands Les	h Fine W/
13.5	15				Bonny	_/_		
18.5	20				0	CONTINE	d at 10' . No	Deolavell
23.5	25							
28.5	30				A	energy (Carleston (Car		
33.5	35							
38.5	40							
3.5	45						X	
							∑X	

Clien	1	B. 2°	L		Date: 2 -	707	7	The state of the s	acor	
Proie	ct Numl	ber: 2	6175002		Date: Auger/WR Re	and the second	) NA		Method	
Site L	ocation	1000	Innountron	Way	Boring Diamet		6 inches		fand Auger OPT	
Latitu	ide:	34.6	9836	Trial C	Depth of Borin		F 30'		ISA	
Longi	itude:	83 1	05603	0	Water Level:	-	Feet No wate		lud Rotary	
	ed By:		Nate Hawtho		Well Installed:					
Drille	r:		Brett Burnett	9	Drill Rig:	GP#73	□ R	☐ Rock Core		
, ∛Depth		Grab/Composite Grab		Time	Date	Time	DTW: ft BLS / ft b	□ на	-	
									olit Spoon selby Tube	
	Depth (ft)	Recovery (inches)	Blows per 6"	MIN moi	OR MAJOR GRA	IN SIZE COMF er components	PONENTS (USCS CLA s, structure, angularity,	ASSIFICATION odor, geologic	), sand size, cold unit	
0	2.5		2/10	20	Topsoil	_Gravel	Asphalt	Concrete	NA	
1	2.5		10	7	11 0.11	15	1. D. O.	hours	Fa.	
3.5	5		3 13	4	Sam 6	YSM.	Revolish by	wh F	ine wie	
6	7.5		314	5 1	SI VIII	1 Grad	& Reddies	Bow	- Fine	
8.5	10		713	4 8	sidual /	Sand	ml Re	J F-	c' w/	
13.5	15		Wall wolf	- RE	11 5/15	of mt Sand	s Red Bu	range July-y	F-C W/C	
8.5	20		312	41		Sand	MU Olan	ish I	de F	
					BULL	2044	20 July 1311	adratel	Lichel	
	25		2131	4 \$	Foldual	5M	Orange	whit	e Film	
3.5	30		2131 4141	4 8	4518hal	SM SM	Orangis orangis	white	e Film	
8.5			2 13 1 4 14 1	4 5	Borns to	SM SM	Orangis	white	e Film	
8.5	30		2 13 1 4 14 1	4 8	Borry to	SM SM	Orangis	white white	e Film	
8.5	30		2 13 1 4 14 1 	4 8	Bong to	SM SM	Orangis	white white	e Film	

3 4 5

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Soil	Bori	ing L	og						76	3//3		
<b>Borin</b> Client	g ID: i	8- 30	9			Date:	20-1	,	111	Drilling Met	COL	
		ber: 8	6175	00 %		Auger/WR Re			I/NA		Auger	
Project Number: \$17500 Z Site Location: John Transversion Value					Way			6 inches	epiton.	DPT		
.atitu	de:	34	DHE	n our	V	Depth of Bori	ng:	201		X HSA		
.ongi		83. (	571			Water Level:		_ FeetN	o water	☐ Mud R	otary	
	ed By:	-		lawtho	_	Well Installed	: No	\$		Air Ro	- ·	
Oriller	:		Brett E	Burnette	Э	Drill Rig:	GP#7	38		Rock Core		
Depth		Grab/Composite Grab		Time	, Date	Time	DTW: ft BL	S / ft bTOC				
		-								☐ Macro		
										X Split S	ooon	
					11 7					☐ Shelby		
Depth (ft)		Recovery (inches)		Blows per 6"		MINOR MAJOR GRA moisture, density, oth	R MAJOR GRAIN SIZE COMPONENTS (USCS CLASSIFICATION), sand si ure, density, other components, structure, angularity, odor, geologic unit					
0	0.5		<	7	1723	Z Topsoil	_Gravel	Asphalt	c	oncrete	NA	
1	2.5		2	/	10	r 11 × 1	1	1 17	A	Fine.		
2.5	-		2	1	-9	05-11-51	- V Sa	TUS IKE	61	1 6100	Musco	
3.5	5	2	2	0	1	Le Honal	100	1-0	r ngi	TA.	W	
6	7.5		6	7	9	1 csdu	Sandy N	n > 1	A red	F_C	w/	
8.5	10		4	4/	5	DARDE	Sam	MI:	7 7 7	la en	MUS	
			100			K+Silaa	Silve	1-bound	s Kon	dien.	orangi	
			L			Brack	-	1	Me .	Nac	147/	
3.5	15		3	4	3		5904	100 101		0.	407	
				0.500		RAGILLI	1 5019	Y Sarry	10 80	down	Dran	
						111111111111111111111111111111111111111		1	1,17		610170	
8.5	20		5	5	Cy	Λ Λ			h and the		14/	
				-	-	K 6: 1/4	12.1	Jan J	( 1200 )	200	H 12/.	
		11				por Storaca	1 01 1	y sana	6 604	10 11	MICIL	
2 5	25		-			bellet to		<u> </u>		Files -	E/ 10 18	
3.5	25		_		-	0 00	1-1-1	1	1 1012	April Marie Comment	1	
-					-	bonh	Tenniso	e at Zi	, No	bedrock		
		1	_			V						
8.5	30	9 1										
										- 20		
3.5	35											
3.5	40	1	T									
,.0	-10		_		-							
								- 1				
		1										
3.5	45											
3.5	45	-		_	-							

	Bori							76	erracon		
Client:					Date:			/	Drilling Method		
Project Number: 8617500 2 Site Location: Location: Way					Auger/WR Re Boring Diamet	er:	NA	☐ Hand Auger ☐ DPT X HSA			
Latitude: 4.70155  Longitude: 4.552  Logged By: Nate Hawthorne  Driller: Brett Burnette			Water Level:	Well Installed: No							
	:Depth		b/Composite Grab	Timė *	Date						
									Shelby Tube		
\$; 4; C	Depth (ft)		Blows per 6"	N rr	MINOR MAJOR GRA	OR MAJOR GRAIN SIZE COMPONENTS (USCS CLASSIFICATION), sand size, colo ture, density, other components, structure, angularity, odor, geologic unit					
0	2.5		213	4	Topsoil	Gravel M	Asphalt	C	oncrete NA		
3.5	5		415	19	F: 151	jano	ML OF	e Ke	F-C Clay For		
6	7.5				TAMA 20	14		CO			
8.5	10				Borry	terminal	al at 5'	. No	bedruh		
13.5	15						,				
18.5	20										
23.5	25				Sector for						
28.5	30										
33.5	35								,		
38.5	40						** To				
43.5	43.5 45					A STATE OF THE STA					
Notes:											

Bids Due: March 1, 2017

Company	Name	Address	Phone	Mobile	Email
Baker's Construction		P O Box 417 Piney Flats,			
Services	Emily Chapman	TN 37686	423-538-4400		emilybcs@earthlink.net
		4308 Evans to Locks Road	706-868-1950		
Blair Construction	Dale Moody	Evans, GA 30809	x206		dale@blairconstruction.us
	Riley Tilley, Tonya				riley.tilley@bmcoconstruction.com;
BMCO Construction	Beal	Lumberton, NC 28359	910-738-6693		tonya@bmcoconstruction.com
	Andy Painter,	150 Conway Black Road			Andy@claryhood.com;
Clary Hood Inc.	Justin Pearson	Spartanburg, SC 29307	864-579-8881		justin@claryhood.com
C.a.yccac.	0.00	750 Tallulah Road			Justin (Gegenal y no cuncern)
Graham County Land Co.	Storm Jordan	Robbinsville, NC 28771	828-479-3581		storm@gclnc.com
La Karal A Da La	D 11 1	2053 Hwy 64E Hayesville,	000 000 0000		ledfordandparkerjl@gmail.com;
Ledford & Parker	Cameron Bethel	NC 28904	828-389-3900		cbethel@brmemc.net
	-	654 St. Mark Road	004 000 0000		fmfreeland@loftiscorp.com;
Loftis Corp	Loftis	Taylors, SC 29689	864-292-9088	864-616-5392	ealoftis@loftiscorp.com
		5497 S. Frontage Rd.			
		PO Box 5497			Bmimms@mbccinc.com;
Martin Bros. Const. Co. Inc.	Bill Mimms	Gray Court, SC 29645	864-876-2634		twood@mbccinc.com
	Bob Mina, Steve				bmina@morgan-corp.com;
	Teaster, Bill	1800 E. Main Street			steaster@morgan-corp.com;
Morgan Corp.	Heape	Duncan, SC 29334	864-433-8800		bheape@morgan-corp.com
		375 Lee Industrial Blvd.			
Plateau Excavation	Joe Davis	Austell, GA 30168	864-506-6788		jdavis@plateauexcavation.com
	Lauren				estimator@richdirt.com;
		6806 Monticello Road			lpittard@richdirt.com;
Richardson Construction	Donnette Moak	Columbia, SC 29230	803-786-9741	843-442-8363	dmoak@richdirt.com
Simpson's Trucking &		1364 Candler Road			
Grading	David Hammond	Gainesville, GA 30507	770-536-4731	678-858-9769	dhammond@simpsontrucking.com
		PO Box 1293			
Thrift Brothers Inc.	Mike Cox	Seneca, SC 29679	864-882-3931		mike@thriftbrothers.com
	Gary Thrift, Ryan	P O Box 2125			gthrift@thriftdev.com;
Thrift Development Corp.	Miller	Seneca, SC 29679	864-882-4582		rmiller@thriftdev.com
		18001 Great Smokey Mtn			
Thunder Contracting	Alex Keith	Expway, Waynesville, NC	828-734-8097		akeith@thunderdisaster.com
<u> </u>		P O Box 2438			
Vecellio & Grogan, Inc.	Allison Michael	Beckley, WV 25802	304-252-6575		allison.michael@vecellioGrogan.com
voceme a cregari, me.	/ uncorr whorldor	349 Buck Corley Court	0012020010		diliconi.monaci@yecomicorogam.com
J. C. Wilkie	John Brock	Lexington, SC 29073	803-530-2789		jbrock4@gmail.com
The Blue Book - Contractor's	CONTI DIOGIC	P O Box 500 Jefferson	230 000-2109		<u> </u>
	Erin McVeigh	Valley, NY 10535	800-431-2584		emcveigh@thebluebook.com
regiotor, mo.	Lini Wo v cigii	30 Technology Pkwy South,	000-401-2004		STITUTE OF THE STITUT
Contractors Market Data		Suite 100, Norcross, GA			
Group, LLC	Morgan O'Banion	30092	800-364-2059		mobanion@isqft.com
Upstate Grading &	INIOI Yan O Danion	114 Amber Drive,	000-304-2039		inovarion@isqrt.com
Engineering, Inc.	Carter Davis	Inman, Sc 29349	864-503-0957		c.davis@unitedforestinc.com
Engineering, into.	Cartor Davio		00 <del>1</del> -000-0807		C.davis@unitediorestinc.com