This Section for Local Health Department Use Only
Initial submittal received: 11-28-22 by M40 Permit Number: Bres 2211-0039
Date Initials
Permit Number: 3 2211 - 0039
5.S. 130A-335(a4) states the following: 'If a local health department fails to act on an application for an improvement permit ubmitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'
n accordance with G.S. 130A-335(a3) the improvement permit application is:
Incomplete (If box is checked, information in this section is required.)
The following items are missing:
Copies of this were sent to the LSS and the Owner on
State Authorized Agent: Date:
☐ Denied (See attached report.)
Copies of this were sent to the LSS and the Owner on
Date Date: Date:
Note Additionated Agent.
State Authorized Agent: Mah M REIN Date of Issuance: 11-28-22
State Authorized Agent: Mak M PGH Date of Issuance: 11-28-22
·
This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(settached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, naccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.
The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).
mprovement Permit Expiration Date://- Z8-27

See attached site sketch

County: Harnett

11 - 0 27	1119
Initial submittal received: 1-28-22 by	Initials
Initial submittal received: _//-28-22 by	
Permit Number	
G.S. 130A-335(a6) states the following: 'If a local health department fails to act on an esubmitted pursuant to subsection (a5) of the section within 10 business days of receipt department shall issue the construction authorization.'	application for a construction authorization of a complete application, the local health
In accordance with G.S. 130A-335(a5) the construction authorization application is:	
☐ Incomplete (If box is checked, information in this section is required.)	
The following items are missing:	3
Copies of this were sent to the AOWE/PE and the Owner on	
Date	
State Authorized Agent:	Date:
☐ Denied (See attached report.)	
Copies of this were sent to the AOWE/PE and the Owner on	
Date	
State Authorized Agent:	Date:
State Authorized Agent: Man DEHS	Date of Issuance: 11-28-22
This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (acceptable) attached here. This Construction Authorization is subject to revocation in changes, or if information submitted in the application was falsified, inaccurate or mishall not be affected by a change in ownership of the site. This Construction Authority provisions of the Laws and Rules for Sewage Treatment and Disposal and to the consideration of all property lines, easements, water lines, and other appropriate utilization in the constructed to divert water and establish vegetative covers.	the site plan, plat, or the intended use isleading. The Construction Authorization zation is subject to compliance with the litions of this permit. The location and lities shall be the responsibility of the owner.
The Department, the Department's authorized agents, and the local health department any liabilities, duties, and responsibilities imposed by statute or in common law from plans, evaluations, preconstruction conference findings, submittals, or actions from a the General Statutes as a licensed engineer or a person certified pursuant to Article 5 Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Deagents, and the local health departments shall be responsible and bear liability for the obligations under State law or rule, including the issuance of the operations permit process of the operation of Expiration Date: 11-28-27	n any claim arising out of or attributed to a person licensed pursuant to Chapter 89C of 5 of Chapter 90A of the General Statutes as ar partment, the Department's authorized neir actions and evaluations and other

See attached site sketch

This Section for Local Health Department Use Only

County: Harnett

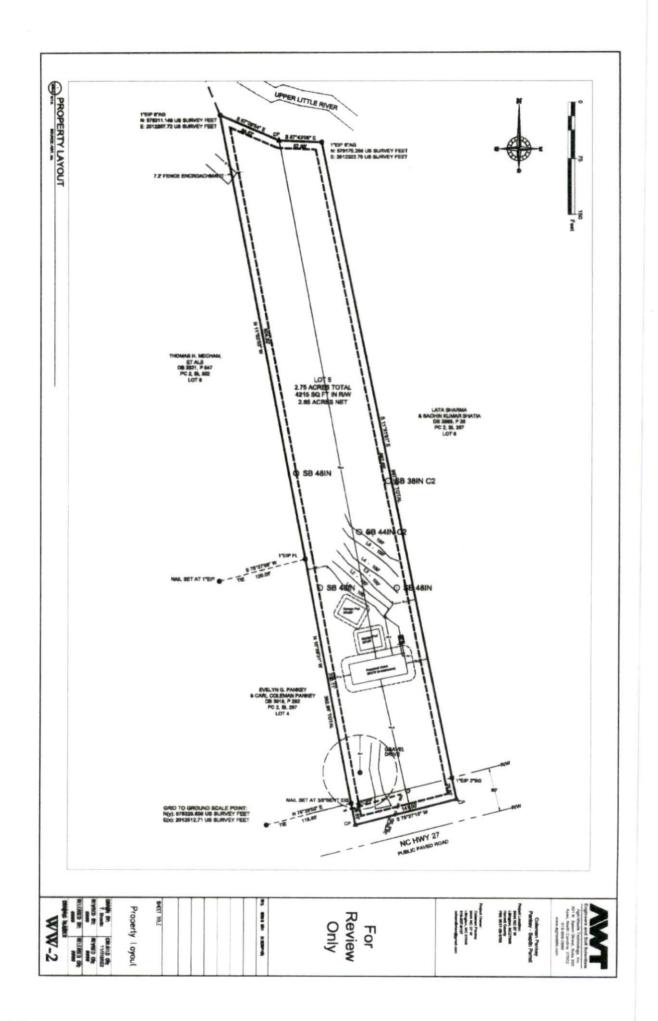
County: Harnett	
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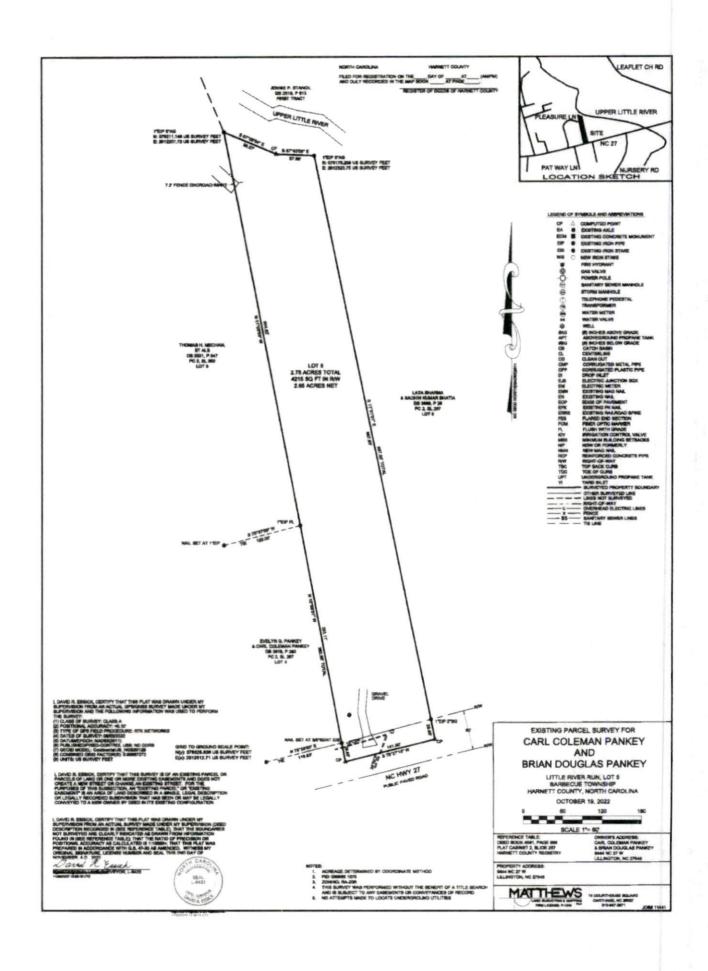
CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 0517-28-3766
Issued To: Coleman Pankey
Property Location: 9444 NC 27 W, Lillington, NC 27546
AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: Jeff Vaughan, 10003E
Facility Type: Single Family Residence
☑ New ☐ Expansion ☐ Repair System Relocation ☐
Basement? ☐ Yes ☐ No Basement Fixtures? ☐ Yes ☐ No
Type of Wastewater System** Gravity, accepted (Initial) Gravity, accepted (Repair
Design Daily Flow: 480 GPD Wastewater Strength: 🗹 dornestic 🗆 high strength 🗆 industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies?
Installation Requirements/Conditions
Septic Tank Size: 1,250 gallons Total Trench/Bed Length: 300 feet Trench/Bed Spacing: 9 feet on center
Drainfield square footage: 900 Trench/Bed Width: 36 inches LTAR: 0.4 gpd/ft ²
Soil Cover: 0inches Slope Adjusted Maximum Trench/Bed Depth: 24inches
Aggregate Depth:inches above pipeinches below pipeinches total
Pump Tank Size (if applicable): gallons Requires more than 1 pump? ☐ Yes ☑ No
Pump Requirements: ft. TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: ☐ Serial ☑ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other:
Artificial Drainage Required: Yes □ No ☑ If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: Yes □ No ☑
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: Yes No
Declaration of Restrictive Covenants: ☐ Yes ☑ No
**If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit. Owner/Legal Representative Print Name:
Owner/Legal Representative Signature: Date:
Pre-Construction Conference Required: Yes ☐ No ☐
Conditions:
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Jeff Vaughan
AOWE/PE Signature: Date: 11/7/2022

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch







Agri-Waste Technology, Inc. 501 N. Salem Street, Suite 203 Apex, North Carolina 27502 919-859-0669 www.agriwaste.com

IP/CA Acknowledgement Form

Acknowledgement of subsurface wastewater evaluation and design by <u>Agri-Waste</u>

Technology, Inc. for 9444 NC 27 W, Lillington NC 27546 for issuance of an IP/CA.

For Improvement Permit (IP) issuance:

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

For Construction Authorization (CA) issuance:

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5), and (a6)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance with G.S. 130A-335(a2), (a3), (a5), and (a6).

Owner	r: Carl Col.	mou	Luke	4/	
	r's Representative:			8	
Date:	Movembe	2 8th	2023	_	



Agri-Waste Technology, Inc. 501 N. Salem Street, Suite 203 Apex, North Carolina 27502 919-859-0669 www.agriwaste.com





Soil Suitability for Domestic Sewage Treatment and Disposal Systems 9444 NC 27 W, Lillington, NC 27546 (Harnett County)

November 7, 2022

Soil suitability for domestic sewage treatment and disposal systems was evaluated on September 8, 2022 for the property located at 9444 NC 27 W in Lillington, NC (Harnett County). Heath Clapp of Agri-Waste Technology, Inc. (AWT) conducted the soil evaluation. This evaluation was done to facilitate permitting for a septic system for a 4 bedroom home. This report and attached documents were prepared to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3). The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

A drawing of the site plan, septic layout, septic system design, and soil boring locations is included in Attachment 1. Profile descriptions for each soil boring are included in Attachment 2.

The total property area is approximately 2.85 acres. The property is mostly wooded with a cleared area in the southern portion. A home served by a private well and a septic system was previously on the property. The proposed septic system for the property is a conventional gravity septic system (accepted drainfield product).

Soil Suitability for Domestic Sewage Treatment and Disposal Systems

The drawing in Attachment 1 details the property boundaries, soil boring locations, and layout of drain field trenches. Five soil borings were advanced without the proposed septic system area on the property. Soil borings were examined to determine soil suitability for on-site sewage disposal systems in accordance with 15A 18A .1900 Rules for Sewage Treatment and Disposal Systems. These borings were advanced with hand auger borings. All soil borings were provisionally suitable for a conventional style trench. Soil borings are within the proposed drainfield area.

The layout shown in Attachment 1 indicates there is available space for a four-bedroom conventional pump initial system. The initial system can be installed with the use of a 25% reduction trench product based on the drainfield layout in the field.

The proposed LTAR (Long Term Acceptance Rate) by AWT is 0.4 GPD/ft². The soils on this property are group III soils within the distribution and treatment zone as used to

define the LTAR. With an LTAR of 0.4 GPD/ft², 300 linear feet of trench is necessary to support a 4-bedroom home for the initial system with the use of the 25% reduction. The proposed trench depth for the trench is 24 inches. The attached drawings substantiate that the necessary linear footage of trench can be installed on the property for the initial system and repair system.

Any logging, disturbances, or grading done in the usable area or within the proposed setbacks will change the potential of using the area designated for a drainfield. Prior to moving forward with the development on the property, Harnett County Health Department should be contacted to complete the necessary Construction Oversight and to issue an OP (Operations Permit) for the property once the septic system has been installed.

Conclusions

An IP (Improvement Permit) and CA (Construction Authorization) for this property can be issued with the site plan that is in Attachment 1. A CA permit will be required in order to secure a building permit for the property. The county issues an Operation Permit after the system has been installed to meet the specifications of the Authorization to Construct. Additional septic layouts have been or will be performed as needed. It will be critical to not disturb any of the proposed septic area or there is a risk that the IP and CA will be revoked. The LSS/AOWE Evaluation and attached documents were prepared to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3). The LSS/AOWE evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a5).

We appreciate the opportunity to assist you in this matter. Please contact us with any questions, concerns, or comments.

Sincerely,

Jeff Vaughan, NC LSS

gett 1/2

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11	
Lot Identifier: 0517-28-3766	
Institute in the content of the cont	
division: Lot #: Block: Section:	
s, name and license number of LSS: Jeff Vaughan, 1227	
oosed Structure: Single Family Residence	
osed Wastewater System Type: Gravity, accepted (Initial) Gravity, accepted (Repair	
system: 🗆 Yes 🛮 No If yes, specify: 🗆 New 🗀 Existing (when adding more than 6 inches of fill to system area please provide a fill plan)	
osed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.4 Proposed LTAR (Repair): 0.4	
gn Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process	
ber of bedrooms: 4 Number of Occupants: 8 Other:	
p Required: ☐ Yes ☑ No ☐ May be required based upon final location and elevations of facilities	
icial Drainage Required: 🗆 Yes 🗵 No If yes, please specify details:	
e of Water Supply: 🗹 Private well 🗆 Public well 🗆 Municipal Supply 🗆 Spring 🗆 Other:	
nfield location meets requirements of Rule .1945: Yes 🛭 No 🗆	
nfield location meets requirements of Rule .1950: Yes 🛛 No 🗆	
nit valid for: 🗷 Five years [site plan submitted pursuant to GS 130A-334(13a)] 🔲 No expiration [plat submitted pursuant to GS 130A-334(7	
nit conditions:	
nsed Soil Scientist Print Name: Jeff Vaughan	
nsed Soil Scientist Signature: Jeff 11/7/2022	
The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).	
See attached site sketch	

County: Harnett

DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON		ORPHOLOGY .1941)	1	OTE PROFILE		S	
		DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	9	A 0-6"	S-LS; Gr	NS; NP; VFr	2.5Y 4/2	-			Suitable
		E 6-28"	LS; Gr	NS; NP; VFr	10YR 6/3	48"+	49"+		0.4GPD/ft2
,	5-9%	Bt 22-48"+	SL-SCL; SBK	SS; SP; Fr	7.5YR 6/4				
		A 0-4"	S-LS; Gr	NS; NP; VFr	2.5Y 4/2	44+"	-	-	Provisionally Suitable
3,		E 4-20"	LS; Gr	NS; NP; VFr	10YR 6/3				Suitable
1	0-2%	Bt 20-44"	SCL; SBK	SS; SP; Fr	7.5YR 6/4 7.5YR 7/7 7.5YR 6/2				0.4GPD/ft2
Ava	DESCRIPTION uilable Space (.1945)	Provision Suitable	onally Prov Suit	risionally able SITE EVAL	ER FACTORS (CLASSIFICAT .UATED BY:	TON (.1948)		nally Suitable	
Sys	tem Type(s)	Conver	tional Con	ventional					
Site	LTAR	0.4GPL	D/Ft ² 0.4 0	GPD/ Ft2					

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way)	t	S (Sand) LS (Loamy Sand)	1 2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb)
OS (Debris Slump) P (Flood Plain) S (Foot Slope)	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky)
H (Head Slope) (Linear Slope) (Nose Slope)	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam)	0.6 - 0.3	0.3 - 0.15		PL (Platy) PR (Prismatic
(Ridge) (Shoulder Slope)		SCL (Sandy Clay Loam) SiL (Silt Loam)			MOIST	WET
(Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			Fl (Firm)	S (Sticky)
		C (Clay)		N	VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic) SP (Slightly Plastic)
*Adius	st LTAR due to depth	, consistence, structure, soil wetne	ss, landscape, position,	wastewater flow a	nd quality.	P (Plastic)

VP (Very Plastic)

NOTES HORIZON DEPTH DEPTH OF FILL RESTRICTIVE HORIZON

In inches below natural soil surface In inches from land surface

Thickness and depth from land surface

S(suitable) or U(unsuitable)
Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

SAPROLITE S(suitable) or SOIL WETNESS Inches from It CLASSIFICATION S (Suitable), I Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft²

cceptance Rate (LTAR):	Show profile loc	ations and other site fea	atures (dimensions,	reference or benchma	ark, and North).	
						
			+ + + + +	+ + + + + -		

AGRITEC-01

CGARKALNS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 9/19/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRO	DUCE	R				NAME: Connie					
Har	tsfiel	d & Nash Agency, Inc. gon Mill Rd., Ste H	Agency, Inc.				556-3698		No): (919)	556-8758	
Wake Forest, NC 27587						LOORESS Connie	@hartsfield-	nash.com			
						18	SURER(S) AFFOR	RDING COVERAGE		NAIC #	
						INSURER A : SELEC	TIVE INSUF	RANCE COMPANY	•	39926	
INS	IRED				INSURER B : Accident Fund Natio			tional Insurance Company		12305	
		Agri-Waste Technology Inc				INSURER C : Evans	And the Party of t	SECOND SE			
		501 N. Salem St Ste 203				INSURER D :					
		Apex, NC 27502								1	
						INSURER E ;					
_			TIELO		WWWED	INSURER F :		DEVECTOR NUMBER	n.		
		AGES CER IS TO CERTIFY THAT THE POLICI			NUMBER:		TO THE 151011	REVISION NUMBE		OLICY DEDICE	
II.	ERTI	ATED. NOTWITHSTANDING ANY R FICATE MAY BE ISSUED OR MAY ISIONS AND CONDITIONS OF SUCH	PERT	EME AIN,	THE INSURANCE AFFO	ON OF ANY CONTRA	ACT OR OTHER	R DOCUMENT WITH RI SED HEREIN IS SUBJE	ESPECT T	O WHICH THIS	
INSR		TYPE OF INSURANCE	ADDL S		POLICY NUMBER		POLICY EXP	1	LIMITS		
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						1710/2022	II I JACOLO			10,000	
								MED EXP (Any one person		2,000,000	
								PERSONAL & ADV INJUR		4,000,000	
	GEN	The state of the s	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$	4,000,000
	\vdash	POLICY X PRO-						PRODUCTS - COMP/OP	AGG \$	4,000,000	
A	AUT	OTHER:	+					COMBINED SINGLE LIMP (Es accident)	5	1,000,000	
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		OWNED SCHEDULED AUTOS ONLY						BODILY INJURY (Per soci			
		HIRED NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	s s		
		AUTOS ONLY AUTOS ONLY						(Per accident)			
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ь		KKERS COMPENSATION EMPLOYERS' LIABILITY Y/N			100003072	1/18/2022	1/18/2023			1,000,000	
	OFF	DOODDIETOR/DADTHED/EYECUTIVE			100003072	1710/2022	1/10/2023	E.L. EACH ACCIDENT	\$	1,000,000	
	(Man	detory in NH)						E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$			
_	DES	s, describe under CRIPTION OF OPERATIONS below				A (0.0 lm 0.00				1,000,000	
C	1000	Pollution			MKLV3ENV103400	8/22/2022	8/22/2023			5,000,000	
A	Lea	sed / Rented			S 2253659	1/18/2022	1/18/2023	Equipment		25,000	
DES	CRIPT	TION OF OPERATIONS / LOCATIONS / VEHIC	LES (AC	CORD	101, Additional Remarks Sche	dule, may be attached if mo	ore space is requi	red)			
CE	RTIF	ICATE HOLDER				CANCELLATION					
		ooThis is ONLY For informa Contact Agency for Specific					N DATE TH	PESCRIBED POLICIES IN HEREOF, NOTICE WI CY PROVISIONS.			
		****				AUTHORIZED REPRES					
						Connie ga	Kalm	_			
40	OPD	25 (2046/02)				_		ORD CORPORATIO	N All ei	nhts reserved	

ACORD