

INVITATION FOR BIDS

UK-2325-23

HAZARDOUS & SPECIAL WASTE COLLECTION, TRANSPORTATION AND FINAL DISPOSITION ADDENDUM # 2 4/18/2023

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 4/21/2023 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

Refer to and incorporate within the offer, the enclosed Questions and Responses.

OFFICIAL APPROVAL UNIVERSITY OF KENTUCKY

Patricia Pflug

Contracting Officer / (859) 257-5409

SIGNATURE

Typed or Printed Name

University of Kentucky Purchasing Division 322 Peterson Service Building Lexington, KY 40506-0005



Written Questions and Answers

HAZARDOUS & SPECIAL WASTE COLLECTION, TRANSPORTATION AND FINAL

DISPOSITION UK-2325-23 Closing Date: 4/21/2023 Today's Date: 4/18/2023

No.	Question	Answer
1	Would the University of Kentucky consider an extension until April 28? Due to the need to get pricing and data from various sources and the requirement for printing the documents. Also there is not a lot of time between the Questions and Answer and the due date.	The proposal due date has been extended to 4/21/23 per addendum #1 posted on our website.
2	Is the RCRA Haz Rx waste moved by UK staff from AB Chandler and Good Sam Hospitals to the EQ building OR will our staff service at the individual hospitals?	Hazardous waste pharmaceuticals are shipped directly from the Chandler hospital location every 2 weeks.
3	Can historical data or evidence be provided regarding labor hours for the quarterly, lab packing initiative at the EQMC location for two chemists? Does this normally take 3 days, 4 days?	4-5 days, 6 hours/day with 3 technicians
4	Are there any fees required by the vendor from Payment Works, Inc to participate with them?	No, there is no charge associated with PaymentWorks. If the vendor chooses ZNOW payment terms via a credit card, there is a fee.
5	Is the RFP review team comfortable with the controlled substance waste stream being priced with the pharmaceutical waste stream together?	Yes
6	Attachment B For the non labpack waste streams (drum/bulk waste streams); could you provide hazardous waste profiles for the streams to review?	We are providing 11 profiles in response to Questions 18, 20 and 22. It is felt that this is a sufficient representation to provide an informed proposal response to the RFP.
7	Contract term, are the renewal years mutually agreeable between the University and vendor? Will we be able to include a CPI ?	Correct, the contract renewal is not automatic & must be mutually agreed upon each year. We allow for one yearly price increase

			(normally at the time of renewal)
8	How long does your current vendor spend onsite for a typical service? How many crew members? Typical service frequency?		For quarterly shipments: 3 technicians approximately 6 hours/day for 5 days. For bi-weekly shipments: 2 techs on-site for 1-2 hours.
9	Attachment B: Is the cost per container to include disposal, labor, supplies? Or can we include separate pricing line items?		Cost per container should be all inclusive.
10	Page 10: Will King's Daughter Medical Center be party to this contract? Who is their current vendor?		It will be up to their discretion if they decide to utilize this contract. They will reach out to the awarded vendor directly if they choose to do so. I am unsure if they have a current contract for hazardous waste disposal.
11	Do we need to provide replacement drums for bulk containers?		No, UK purchases their own drums for bulking.
12	How many off-campus locations require routine pickups? How often do these locations Ship?		Two (2) SQG's in Fayette Co. (2 times/year) and two (2) to three (3) VSQG's in Western KY (annually)
13	Would the contractor have access to a loading dock for these services?		Yes
14	If required for shipments, would the semi- trailer require a liftgate?		No
15	Straight-Truck Capacity states, "includes some double stacking" will the University provide equipment such as a forklift to assist with stacking drums?		No, double stacking would be limited to the 18-gallon hazardous waste pharmaceutical container (typically average weight 25 lbs.)
16	How often does the University require Labpack services?		Quarterly
17	How many hours does it typically take to provide labpack services during a scheduled pickup? How many personnel?		Three (3) technicians approximately 6 hours/day for 5 days.
18	What are the chemical constituents for the Clinical Lab Waste steam? Please provide profile		Two (2) profiles are attached for the Clinical lab bulk waste and Patient samples
19	Who is the current hazardous waste vendor for the University of Kentucky? Could you provide invoices and manifests for the past 2 years?		Information about current University of Kentucky contracts and their usage may only be released through an open records request.
20	What are the chemical constituents for Heavy Metals Solutions, Inorganic? Please provide profile a.This waste stream has a D002. What is the concentration of corrosive material?	_	A profiled is attached – Heavy metal solutions, inorganic
21	For each of the corrosive liquid bulk waste streams, may you please provide the concentration? Please provide profiles.		Attached are eight (8) separate profiles.

22	Do the "Off spec Product" line items only apply to the Used Oil?	The line items of the Attachment B spreadsheet that requested this information (i.e., lines 171-175) are no longer applicable for this RFP and no response is required.
23	Can you please provide more details on the "Clinical Lab" Waste with RCRA waste code D001. Does this Wastestream have inner containers or is this bulk waste in a drum? What are the constituents?	The profile has been provided in response to Question 18. This waste consists of small amounts of residual chemicals in a plastic cartridge (similar to an ink cartridge).
24	Regarding section 7.1 of the RFP, please clarify 7.1 (1)b. The scope says we are to inspect waste management facilities with University Personnel. What are we inspecting and to what standard? How much time is the University expecting us to dedicate towards this task? What is the frequency?	The intent of the service described in that sub-section was to ensure that the successful contractor became aware of (i.e., familiar with) the University's basic operating requirements for the facilities from which they would pick up waste. Including such things as knowing evacuation routes, alarms and other signaling meanings, etc. Therefore, the notion of "inspecting" was meant to relay the action of routine professional familiarization which would be gained through initial and regular communication with the facility managers/directors. It would be likely that the successful contractor would use such information in composing their own procedures descriptions and work plan for their staff.
25	Regarding section 7.1 of the RFP, please clarify 7.1 (1)c. What types of procedures are we developing? Are these for our own operations?	See the response for Question 24 above.
26	We would like a better description or a waste profile for the following: PFOAs, PFOS etc.	The University does not currently have a specific profile available. Therefore, the description of these classes of chemicals (i.e., available as part of the wider discussion of per- and polyfluoroalkyl substances) can be attained in general professional literature available from EPA and other reputable sources online.

_					Disposal Code
Recertification	1				
_					
_		LOUISVILLE, KY OFFICE	LOUISVILLE	KY	001 004
Invoice Address	,	OFFICE	CITY	ST	
Vaclia BC MCDB mamor	machaelers a	amontal Conservation	No 502256		00000000000
Veolia ES TSDF reques	ItedTechnology r	equestedGenerate	or No. <u>583256</u> Generat	tor EPA ID No. K	0000830851
1. Generator Name ON	WERSTLY OF RENIDERI		Generator St	Wagtogtroom No	
City LEXINGTON		COPER DR. FACILITI	plate	7TD 40546	0490
NATCE (STC) Code 8		Source CO9	Origin 1 Form W119	Sustem Time	0490
MAICS (SIC) COde <u>62</u>	.21 01131		origin <u>i</u> Form <u>will</u>	Зувсет туре	
2. Waste Name IIK501 M	METAL SOLUTION / PHOTO C	HEMICALS	Lab	or Waste Area	
3. Process Generating	Waste	HEFICALS	140	OI Waste Alea	
waste consolidatio					
4. Shipping Name WA77	ARDOUS WASTE LIQUID	D.O.S.			
Hazard Class 9	UN/NA No. NA3082 PC T	TT	RO amt 0 lb Way	ste: N PTH. N TH.	N DWW:N P.N
RO Des: 1			2.		<u>A DANI A FI A</u>
DOT Des: 1.BARTUM			2.LEAD		
5. Waste Codes D004	D005 D006 D00	7 0008 0010 0011	2.100		
Wastewater	Non Wastewater X	Sub Category D006-NA, D00			Mix: N Sol: N
6. Physical and chemi	ical properties:				
pH	Specific Gravi	ty Flash Point (1	?) Solids		
a < 2	a <.8	a < 80	0 - 0% s	suspended 0 -	0 % ash
b X 2 - 5	b .8 - 1.0	b 80 - 100	0 - 0% s	settleable 0 -	0 % water solubility
c 5-9	c 1.0	G 100 - 140	0 - 0%	dissolved 0 -	0 BTU/lb
d 9 - 12.5	d 1.0 - 1.2	d 140 - 200)		
e > 12.5	e > 1.2	e > 200	-	Free Liquid 80 -	100 %
- exact	- exact	f X no flash	- exact	VOC 0 -	- 0 %
Physical State		Hazardous Character	istics		Odor
s solid	a air re	active r rad	lioactive or NRC regulated	a none	
m semi-solid	w water	reactive s sho	ock sensitive	b mild	_
1 X liquid	c cvanid	e reactive t ter	np sensitive	c strong	_
p pumpable semi-s	solid f sulfid	e reactive m pol	vmerization/monomer	describe	_
f flowable powder	e explos	ive n OSE	A carcinogen		
a as	o oxidiz	ing acid i int	fectious	На	logens
a aerosol	p peroxi	de former h inh	nalation hazard	Br .0 -	.0 % Bromine
r pressurized lig	ruid	Zone :		Cl .0 -	.0 % Chlorine
d debris per 40 (CFR 268.45		-	F .0 -	.0 % Fluorine
h sharps				T .0 -	.0 % Todine
g pumpable liquid	1				
· Faultaneo reduct					
Layers: a mu	ultilayered:	b bi-layered:	c	single phase	I
	Top Layer	Second Layer		Bottom Layer	Color
Viscosity	high(syrup)	high(syrup)		high(syrup)	BRN
by	medium(oil)	medium(oil)		medium(oil)	
Layer:	low(water)	low(water)		low(water)	
	solid	solid	·	solid	
		·			·

Used oil y/n ____ HOC < 1000 ppm ____ HOC > 1000 ppm ____

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,

		U=Underlying	Hazardous	Constituent,	B=Benzene	NESHAP,	T=TRI	Chemical,	C=OSHA	Carcinogen]	
--	--	--------------	-----------	--------------	-----------	---------	-------	-----------	--------	-------------	--

Constituents

	Constituents		Ranges	Units	
	T,U, ARSENIC		.00	5.00	ele .
	T,U, BARIUM (ELEMENT)		.00	5.00	ş
	T,U, CHROMIUM		.00	5.00	જ
	T,U, LEAD		.00	5.00	8
	T,U, SELENIUM (ELEMENT)		.00	5.00	황
	S,T,U, CADMIUM (METAL)		.00	5.00	ø
	WATER		80.00	90.00	ŝ
	T, HYDROQUINONE, LIQUID		.00	10.00	ŝ
	T,U, SILVER		.00	5.00	aja
	T, SULFURIC ACID SOLUTION, 0	1-1% IN WATER	.00	10.00	황
Oth	ther:				
8.	. Is the wastestream being imported into the USA?	Yes	No <u>X</u>		
9.	. Does the wastestream contain PCBs regulated by 40CFR?	Yes	No <u>X</u>		
	PCB Concentration00 ppm				
10.	0. Is the wastestream subject to the Marine Pollutant Regu	lations? Yes	No <u>X</u>		
11.	1. Is the wastestream from an industry regulated under Ben:	zene NESHAP? Yes	No <u>X</u>		
	If yes:				
	Is the wastestream subject to Notification/Control Re	equirements? Yes	No <u>X</u>		
	Benzene Concentration		.00 ppm		
	Does it contain >= 10% water?	Yes	No <u>X</u>		
	What is the TAB at your facility?	_	.00 Mg/Yr		

Yes __ No_X

Yes __ No_X Yes No X

Yes No X

_____ 00 ppmw

12. Is the wastestream subject to RCRA subpart CC controls? Volatile Organic Concentration CC Approved Analytical Method?

Generator	Knowledge?

13. Is the wastestream from a CERCLA or state mandated cleanup?

14. Container Informa	tion :	:						
Packaging:	1 1	Type/S Type/S	Size:					
Shipping Frequency: U: U:	nits OM	. 00	Per Day _ DESCRIPTION:	Per Week _	Per Month _	Per Qtr _	Per Year _	One Time _

15. Additional Information :

Other:

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.



has all the necessary permits and licenses for the waste that has been characterized

If approved for management, and identified by this profile.

					Disposal Code
	ion				
—	LO	UISVILLE, KY OFFICE	LOUISVILLE	KY	001 004
Invoice Addr	ess	OFFICE	CITY	ST	
Veolia ES TSDF req	uestedTechnology req	uestedGenerate	or No. <u>583256</u> Genera	ator EPA ID No. KYI	000830851
1. Generator Name	UNIVERSITY OF KENTUCKY		Generator	State No.	
Address ENVIRON	IMENTAL MGMT 355 COC	PER DR. FACILITY	State	e Wastestream No	
City LEXINGTON		State KY	Country US	ZIP <u>40546</u>	0490
NAICS(SIC) Code	8221 61131	Source G09	Origin 1 Form W319	System Type	
2. Waste Name CAUS	TIC SOLIDS UK804		Lal	o or Waste Area	
3. Process Generat	ing Waste				
consolidation c	of waste	~			
4. Shipping Name M	ASTE CORROSIVE SOLIDS, n.c	.\$	Do ant o lb M		7 DURT 17 D 17
Hazard Class 8	UN/NA_NO. UN1759 PG 11		RQ amt 0 16 Wa	aste: Y PIH: N IH: N	<u>Dww: n P: n</u>
DOT Dest 1			2.		
5. Waste Codes NON	IE		2.		
Wastewater	Non Wastewater X S	ub Category			Mix: Sol:
6. Physical and ch	memical properties:				
рН	Specific Gravity	Flash Point()	?) Solids		
a < 2	a <.8	a < 80	0 - 0%	suspended <u>0</u> -	0 % ash
b 2 - 5	b8 - 1.0	b 80 - 100	0 - 0%	settleable <u>0</u> -	0 % water solubility
c 5 - 9	c 1.0	c 100 - 140) 0 *	dissolved <u>0</u> -	0 BTU/1b
d 9 - 12.5	d 1.0 - 1.2	d 140 - 200)		
e <u>X</u> > 12.5	e > 1.2	e > 200		Free Liquid <u>0</u> -	0 %
exact	exact	f \underline{X} no flash	exact	VOC	0 %
Physical Sta	ite	Hazardous Characteri	stics	(Ddor
s X solid	a air read	tive r rad	lioactive or NRC regulated	a none _	
m semi-solid	w water re	active s sho	ock sensitive	b mild	
l liquid	c cyanide	reactive tter	np sensitive	c strong _	
p pumpable sem	ni-solid f sulfide	reactive m po.	lymerization/monomer	describe	
I IIOWADIE POW	der e explosiv	e nOSP	A carcinogen		
g gas	o oxidizin	formor h in	ection bagard	na.	0 & Bromino
a aerosor	p peroxide		latacion nazaro	Cl 0-	0 % Chlorine
d debris per 4	11quia	Done.	-	E .0 -	0 % Eluorine
h sharps				I .0 -	.0 % Iodine
<pre>q pumpable lig</pre>	ruid				
Layers: a	multilayered:	<pre>b bi-layered:</pre>	c	single phase	I
	Top Laver	Second Laver		Bottom Laver	Color
Viscosity	high(syrup)	high(syrup)		high(syrup)	WHT
by	medium(oil)	medium(oil)		medium(oil)	
Layer:	low(water)	low(water)	I	low(water)	
-	solid	solid	I	solid	
			·		

WAGTEGTOENM INFOD	MATTON DD	OPTLE

	Marine Pollutant, S=Severe Mar	rine Pollutant, O=Ozone	Depleting Subs	tance,			
U=Und	erlying Hazardous Constituent,	B=Benzene NESHAP, T=TR	I Chemical, C=C	SHA Car	cinoger	1]	
Constitu	ents			Ranges		Units	
	POTASSIUM HYDROXIDE, SO	LID			.00	100.00	\$
1	SODIUM HYDROXIDE, SOLID	(DRY, FLAKE, BEAD OR G	RANULAR)		.00	100.00	ajo
ther:							
. Is the wastestream being	g imported into the USA?		Yes	No <u>X</u>			
. Does the wastestream co:	ntain PCBs regulated by 40CFR?		Yes	No <u>X</u>			
PCB Concentration	.00 ppm						
0. Is the wastestream subj	ect to the Marine Pollutant Reg	gulations?	Yes	No <u>X</u>			
1. Is the wastestream from	an industry regulated under Be	enzene NESHAP?	Yes	No_X			
If yes:							
Is the wastestream s	ubject to Notification/Control	Requirements?	Yes	No_X			
Benzene Concentratio	n			.00	ppm		
Does it contain >= 1	0% water?		Yes	NoX			
What is the TAB at y	our facility?			.00 Mg	/Yr		
2. Is the wastestream subj	ect to RCRA subpart CC controls	\$?	Yes	No_X			
Volatile Organic Con	centration			.00	ppmw		
CC Ap	proved Analytical Method?		Yes	No <u>X</u>			
Gener	ator Knowledge?		Yes	No_X			
3. Is the wastestream from	a CERCLA or state mandated cle	eanup?	Yes	No <u>X</u>			
A Containor Information							
ackaging.	• Tume/Size·						
				Vear	One	e Time	
hipping Frequency: Units	.00 Per Dav Per Week	c Per Month P	er Otr Per	ICAL			
hipping Frequency: Units UOM	.00 Per Day Per Weel DESCRIPTION:	C_ Per Month_ P	er Qtr _ Per	- icai -		-	
hipping Frequency: Units _ UOM	.00 Per Day _ Per Wee	K_ Per Month_ P	er Qtr _ Per				
hipping Frequency: UnitsUOM 	.00 Per Day _ Per Week DESCRIPTION:	<_ Per Month _ F 	er Qtr _ Per				
<pre>hipping Frequency: UnitsUOM </pre>	Per Day Per Week	< _ Per Month _ F	er Qtr _ Per				
hipping Frequency: Units UOM 5. Additional Information	.00 Per Day _ Per Week DESCRIPTION:	<_ Per Month F	er Qtr _ Per				
hipping Frequency: Units UOM 5. Additional Information	.00 Per Day _ Per Week DESCRIPTION: :	< _ Per Month _ F	er Qtr _ Per				
<pre>bhipping Frequency: Units UOM 5. Additional Information</pre>	.00 Per Day _ Per Week	c_ Per Month_ F 	er Qtr _ Per				
hipping Frequency: UnitsUOM 5. Additional Information ENERATOR CERTIFICATION	Per Day Per Week	< _ Per Month _ F	er Qtr _ Per				
hipping Frequency: Units UOM 5. Additional Information ENERATOR CERTIFICATION I hereby certify that all :	Per Day Per Week DESCRIPTION: : : information submitted in this a	<pre>c _ Per Month _ F</pre>	er Qtr _ Per	rue and	accurat	ce descrip	tions of th
hipping Frequency: Units _ UOM 5. Additional Information ENERATOR CERTIFICATION I hereby certify that all i waste. Any sample submitted	OPer DayPer Week DESCRIPTION: : information submitted in this a d is representative as defined	<pre>c _ Per Month _ F and all attached docume in 40 CFR 261 - Append</pre>	er Qtr _ Per	ue and	accurat	ce descrip	tions of th All relev
hipping Frequency: Units _ UOM 5. Additional Information ENERATOR CERTIFICATION I hereby certify that all : waste. Any sample submitted information regarding known	OPer DayPer Week DESCRIPTION: : information submitted in this a d is representative as defined n or suspected hazards in the p	and all attached docume in 40 CFR 261 - Append possession of the gener	er Qtr _ Per	rue and ng an eq lisclose	accurat uivaler d. I a	e descrip nt method. authorize	tions of th All relev sampling of
hipping Frequency: Units	OPer DayPer Week DESCRIPTION: : information submitted in this a d is representative as defined n or suspected hazards in the p poses of recertification.	and all attached docume in 40 CFR 261 - Append possession of the gener	er Qtr _ Per	rue and ng an eq lisclose	accurat uivaler d. I a	ce descrip nt method. authorize	tions of th All relev sampling of
Thipping Frequency: UnitsUOM 5. Additional Information 	OPer DayPer Week DESCRIPTION: : information submitted in this a d is representative as defined n or suspected hazards in the p poses of recertification.	and all attached docume in 40 CFR 261 - Append possession of the gener	er Qtr _ Per ents contains tr lix I or by usin rator has been d 6/2011	rue and ng an eq lisclose	accurat uivaler d. I a	te descrip at method. authorize	tions of th All relev sampling of
Chipping Frequency: Units UOM 5. Additional Information ENERATOR CERTIFICATION I hereby certify that all is waste. Any sample submitted information regarding known any waste shipment for purp Ronald W. Taylor Name (Pr:		and all attached docume in 40 CFR 261 - Append possession of the gener Phone	er Qtr _ Per ents contains tr lix I or by usir rator has been d <u>6/2011</u> Date	rue and ng an eq lisclose	accurat uivaler d. I a	te descrip at method. authorize	tions of th All relev sampling of
hipping Frequency: Units _ UOM 5. Additional Information 5. Additional Information ENERATOR CERTIFICATION I hereby certify that all : waste. Any sample submitted information regarding know any waste shipment for purp Ronald W. Taylor Name (Pr. Ronald W. Taylor		and all attached docume in 40 CFR 261 - Append possession of the gener Phone	er Qtr _ Per ents contains tr lix I or by usin rator has been d 6/2011 Date	rue and ng an eq lisclose	accurat uivaler d. I a	te descrip at method. authorize	tions of th All relev sampling of

If approved for management, has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

_					
Recertificatio	n				Disposal Code
_		LOUISVILLE, KY OFFICE	LOUISVILLE	KY	001 004
Invoice Addre		OFFICE	CITY	ST	
olia ES TSDE reque	sted Technology	remiested Generat	or No. 583256 General	OF EPA ID NO. KY	70000830851
Generator Name UN	IVERSITY OF KENTUCKY		Generator St	ate No.	10000000001
Address ENVIRONME	NTAL MGMT 355	COOPER DR. FACILITY	State	Wastestream No.	
City LEXINGTON		State KY	Country US	ZIP 40546	0490
NAICS(SIC) Code 8	221 61131	Source G09	Origin 1 Form W110	System Type	
Waste Name UK803	ORGANIC CAUSTIC		Lab	or Waste Area	
Process Generatin	g Waste		240		
waste consolidati	on				
Shipping Name WAS	TE CORROSIVE LIQUID	BASIC, ORGANIC n.o.s.			
Hazard Class 8	UN/NA No. UN3267 PC	TT	RO amt 0 lb Way	te: Y PTH, N TH.	N DWW N P.N
Des: 1	UN3207 PG		2.		<u></u>
T Des: 1 ETHANOL			2.SODIUM HYDROXIDE		
Waste Codes D001	D002		2.00DIGH HIDROAIDE		
Wastewater		Sub Category Dool II			Mix. N Sol. N
Mascewaler	Non wastewater <u>A</u>	_ Sub category			MIX: <u>N</u> 501: <u>N</u>
Dhuginal and sham	i an 1 mman ambiana.				
ruysical and chem	cal properties:	den Black Baland			
	Specific Grav	ity Flash Point ()	r) Solids		
< 2	a <.8	a < 80	<u> </u>	suspended 0	- <u>0</u> %ash
2 - 5	b8 - 1.0	b <u>X</u> 80 - 100	<u> </u>	settleable <u>0</u>	- <u>0</u> % water solubi
5 - 9	c 1.0	c 100 - 140	0 <u> </u>	lissolved <u>0 -</u>	0 BTU/1b
5 - 9 9 - 12.5	c 1.0 d 1.0 - 1.2	c 100 - 144 d 140 - 200	0 <u>0 - 0</u> % (lissolved <u>0 -</u>	<u>0</u> BTU/16
5 - 9 9 - 12.5 _X > 12.5	c 1.0 d 1.0 - 1.2 e > 1.2	c 100 - 140 d 140 - 200 e > 200	0 <u>0 - 0</u> % d	lissolved <u>0</u> Free Liquid <u>0</u> -	0 BTU/16
<u>5 - 9</u> <u>9 - 12.5</u> <u>X</u> > 12.5 <u>- </u> exact	c 1.0 d 1.0 - 1.2 e > 1.2 exac	c 100 - 140 d 140 - 200 e > 200 t f no flash	00% (iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u> -	0 BTU/16 0 % 0 %
5 - 9 9 - 12.5 _X > 12.5 exact	c 1.0 d 1.0 - 1.2 e > 1.2 exac	c 100 - 140 d 140 - 200 e > 200 t f no flash	0% <	iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u>	0 BTU/16 0 % 0 %
<pre> 5 - 9 9 - 12.5 > 12.5 exact exact Physical State</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character	0 0 * 0 0 exact	iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u> -	0 BTU/16 0 % 0 % Odor
5 - 9 9 - 12.5 > 12.5 exact Physical State solid	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac	0 <u>0 - 0</u> % o exact istics dioactive or NRC regulated	iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u> a none	0 % 0 % 0 %
<pre> 5 - 9 9 - 12.5 exact exact Physical State solid semi-solid</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho	exact exact istics dioactive or NRC regulated ock sensitive	iissolved <u>0</u> - Free Liquid <u>0</u> VOC <u>0</u> a none b mild	0 BTU/16 0 % 0 % Odor
<pre> 5 - 9 9 - 12.5 > 12.5 exact exact solid semi-solid semi-solid liquid</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive t ter	exact exact istics dioactive or NRC regulated ock sensitive mp sensitive	iissolved <u>0</u> - Free Liquid <u>0</u> - VOC <u>0</u> - a none b mild c strong	0 BTU/16 0 % 0 % Odor
<pre> 5 - 9 9 - 12.5 exact exact solid semi-solid liquid pumpable semi-</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m po	exact exact exact dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer	iissolved <u>0 -</u> Free Liquid <u>0 -</u> VOC <u>0 -</u> a none b mild c strong describe	0 BTU/16 0 % 0 % Odor
<pre> 5 - 9 9 - 12.5 exact exact solid semi-solid liquid pumpable semi flowable powde</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m poi sive n 0SB	<pre> exact exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen</pre>	iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u> a none b mild c strong describe	0 BTU/16 0 % 0 % Odor
<pre> 5 - 9 9 - 12.5 exact exact solid solid semi-solid liquid pumpable semi flowable powde gas</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m po sive n OSI zing acid i int	exact exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious	iissolved <u>0</u> - Free Liquid <u>0</u> - VOC <u>0</u> - a none b mild _ c strong describe Ha	0 BTU/15 0 % 0 % Odor alogens
<pre> 5 - 9 9 - 12.5 exact exact Physical State solid semi-solid liquid pumpable semi flowable powde gas aerosol</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i init ide former h init	exact exact dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard	iissolved <u>0 -</u> Free Liquid <u>0 -</u> VOC <u>0 -</u> a none b mild _ c strong _ describe	0 BTU/15 0 % Odor alogens % Bromine
<pre>5 - 99 - 12.5exactexactexactsolidsemi-solidliquidpumpable semiflowable powdegasaerosolpressurized li</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i ini ide former h ini Zone:	<pre> exact exact dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard </pre>	iissolved <u>0 -</u> Free Liquid <u>0 -</u> VOC <u>0 -</u> a none b mild _ c strong _ describe	0 % 0 % Odor alogens % Bromine % Chlorine
<pre>5 - 99 - 12.5exactexactexactsolidsemi-solidliquidpumpable semiflowable powdegasaerosolpressurized lidebris per 40</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m po sive n OSI zing acid i ini ide former h ini Zone:	<pre> exact exact dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard </pre>	iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u> a none b mild c strong describe Br0 F0	0 BT0/15 0 % Odor alogens
<pre>5 - 99 - 12.5exactexactsolidsemi-solid Xliquidpumpable semiflowable powdegasaerosolpressurized lidebris per 40sharps</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i ini ide former h inil Zone:	<pre> exact exact dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard </pre>	iissolved <u>0</u> Free Liquid <u>0</u> VOC <u>0</u> a none b mild c strong describe Br0 F0 I0	0 BT0/15 0 % Odor alogens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Iodine
<pre>5 - 99 - 12.5 _X > 12.5exact Physical Statesolidsemi-solid _X liquidpumpable semiflowable powdegasaerosolpressurized lidebris per 40sharpspumpable liqui</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 e xac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i ini ide former h ini Zone:	<pre> exact exact exact exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard</pre>	iissolved <u>0</u> - Free Liquid <u>0</u> VOC <u>0</u> a none b mild _ c strong _ describe Ha Br <u>.0</u> F <u>.0</u> I <u>.0</u>	0 BT0/15 0 % Odor alogens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Iodine
<pre> 5 - 9 9 - 12.5 _X > 12.5 exact Physical State solid semi-solid _X liquid pumpable semi flowable powde gas aerosol pressurized li debris per 40 sharps pumpable liqui</pre>	c 1.0 d 1.0 - 1.2 e > 1.2 e xac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i ini ide former h inl Zone:	<pre> exact exact exact exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard</pre>	iissolved <u>0</u> - Free Liquid <u>0</u> VOC <u>0</u> a none b mild _ c strong _ describe Ha Br <u>.0</u> F <u>.0</u> I <u>.0</u>	0 BT0/15 0 % Odor alogens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Iodine
5 - 9 9 - 12.5 exact exact solid solid semi-solid flowable semi- flowable powde gas aerosol pressurized li debris per 40 sharps pumpable liqui yers: a m	c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d ultilayered:	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: reactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i ini ide former h ini Zone:	<pre>0 exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard - c</pre>	iissolved <u>0</u> - Free Liquid <u>0</u> VOC <u>0</u> a none b mild <u>0</u> c strong <u>0</u> describe <u>-</u> En <u>0</u> - <u>-</u> F <u>0</u> - <u>-</u> I <u>0</u> - <u>-</u> Single phase	<u>0</u> BTU/15 <u>0</u> % Odor <u>0</u> % Alogens <u>0</u> % Bromine <u>0</u> % Chlorine <u>0</u> % Fluorine <u>0</u> % Iodine
5 - 9 9 - 12.5 <u>X</u> > 12.5 exact solid solid <u>X</u> liquid pumpable semi- flowable powde gas aerosol pressurized li debris per 40 sharps pumpable liqui yers: a m	<pre>c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d ultilayered: </pre>	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive m poi sive n OSI zing acid i ini ide former h inil Zone: b bi-layered:	exact exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard d	iissolved <u>0</u> - Free Liquid <u>0</u> - VOC <u>0</u> a none b mild _ c strong _ describe Br0 F0 I0 single phase Bottom Laver	0 BTU/15 0 % Odor alogens alogens _
5 - 9 9 - 12.5 exact exact solid solid semi-solid flowable semi- flowable powde gas aerosol pressurized li debris per 40 sharps pumpable liqui syss: a m 	<pre>c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d ultilayered: </pre>	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive m poi sive n OSI zing acid i ini ide former h ini Zone: b bi-layered: Second Layer	exact exact distics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard 	<pre>iissolved</pre>	0 BTU/15 0 % Odor alogens alogens _
5 - 9 9 - 12.5 exact exact solid semi-solid liquid pumpable semi- flowable powde gas aerosol pressurized li debris per 40 sharps pumpable liqui yers: a m iscosity	<pre>c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d ultilayered: high(syrup) medium(cil)</pre>	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive m poi sive n OSI zing acid i ini ide former h ini Zone: b bi-layered: second Layer high(syrup)	<pre> exact exact istics dioactive or NRC regulated ock sensitive mp sensitive lymerization/monomer HA carcinogen fectious halation hazard c</pre>	iissolved Free Liquid0 VOC0 a none b mild c strong describe Br0 El0 I0 single phase Bottom Layer high(syrup)	0 BTU/15 0 % Odor alogens alogens _
<pre> 5 - 9 9 - 12.5 exact exact solid semi-solid liquid pumpable semi flowable powde gas aerosol pressurized li debris per 40 sharps pumpable liquiyers: a m</pre>	<pre>c 1.0 d 1.0 - 1.2 e > 1.2 exac a air r w water c cyani solid f sulfi r e explo o oxidi p perox quid CFR 268.45 d ultilayered: high (syrup) medium(oil) low(water)</pre>	c 100 - 140 d 140 - 200 e > 200 t f no flash Hazardous Character: eactive r rac reactive s sho de reactive t ter de reactive m poi sive n OSI zing acid i ini ide former h ini Zone: b bi-layered: second Layer high(syrup) medium(oil)	<pre> exact exact istics dioactive or NRC regulated ock sensitive np sensitive lymerization/monomer HA carcinogen fectious halation hazard c</pre>	<pre>iissolved</pre>	0 BT0/15 0 % Odor alogens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Iodine

U=Underlying Hazardous Consti	re Marine Pollutant, O=Ozone i tuent, B=Benzene NESHAP, T=TRI	Depleting Substa Chemical, C=OSH	nce, MA Carcinoge	n]	
Constituents		Ra	inges	Units	
ETHYL ALCOHOL			10.00	40.00	್ರಿ
SODIUM HYDROXIDE,	SOLUTION		60.00	90.00	8
ther:					
. Is the wastestream being imported into the USA?		Yes No	<u>x</u>		
Does the wastestream contain PCBs regulated by	40CFR?	Yes No	<u>x</u>		
PCB Concentration00 ppm					
). Is the wastestream subject to the Marine Pollut	ant Regulations?	Yes No	<u>x</u>		
. Is the wastestream from an industry regulated w	nder Benzene NESHAP?	Yes No	<u>x</u>		
If yes:					
Is the wastestream subject to Notification/C	ontrol Requirements?	Yes No	<u>x</u>		
Benzene Concentration			.00 ppm		
Does it contain >= 10% water?		Yes No	DX_		
What is the TAB at your facility?			00 Mg/Yr		
2. Is the wastestream subject to RCRA subpart CC c	ontrols?	Yes No	<u>x</u>		
Volatile Organic Concentration			.00 ppmw		
CC Approved Analytical Method	?	Yes No	<u>x</u>		
Generator Knowledge?		Yes No	<u>x</u>		
3. Is the wastestream from a CERCLA or state manda	ted cleanup?	Yes No	<u>x</u>		
4. Container Information :					
ackaging: Type/Size:					
Type/Size:					
hipping Frequency: Units00 Per Day _ Po UOM DESCRIPTION:	er Week Per Month Pe	r Qtr _ Per N	Year _ On	e Time _	
5. Additional Information :					
ENERATOR CERTIFICATION					
ENERATOR CERTIFICATION	this and all attached documen	ts contains true	and accura	te descrip	tions of thi
ENERATOR CERTIFICATION I hereby certify that all information submitted in waste. Any sample submitted is representative as d	this and all attached documen efined in 40 CFR 261 - Appendi:	ts contains true x I or by using	e and accura an equivales	te descrip nt method.	tions of thi All releva
ENERATOR CERTIFICATION I hereby certify that all information submitted in waste. Any sample submitted is representative as d information regarding known or suspected hazards in	this and all attached documen efined in 40 CFR 261 - Appendi n the possession of the genera	ts contains true x I or by using tor has been dis	e and accura an equivales closed. I a	te descrip nt method. authorize s	tions of thi All releva sampling of
ENERATOR CERTIFICATION I hereby certify that all information submitted in waste. Any sample submitted is representative as d information regarding known or suspected hazards in any waste shipment for purposes of recertification	this and all attached documen efined in 40 CFR 261 - Appendi n the possession of the genera	ts contains true x I or by using tor has been dis	e and accura an equivale closed. I a	te descript nt method. authorize s	tions of thi All releva sampling of
ENERATOR CERTIFICATION I hereby certify that all information submitted in waste. Any sample submitted is representative as d information regarding known or suspected hazards is any waste shipment for purposes of recertification Ronald W. Taylor	this and all attached documen defined in 40 CFR 261 - Appendia n the possession of the genera 	ts contains true x I or by using tor has been dis	e and accura an equivales closed. I a	te descrip nt method. authorize :	tions of thi All releva sampling of
ENERATOR CERTIFICATION I hereby certify that all information submitted in waste. Any sample submitted is representative as d information regarding known or suspected hazards in any waste shipment for purposes of recertification Ronald W. Taylor Name (Print or Type)	this and all attached document efined in 40 CFR 261 - Appendia n the possession of the genera <u>12/6</u> Phone	ts contains true x I or by using tor has been dis 5/2011 Date	e and accura an equivale: closed. I a	te descrip nt method. authorize :	tions of thi All releva sampling of
ENERATOR CERTIFICATION I hereby certify that all information submitted in waste. Any sample submitted is representative as d information regarding known or suspected hazards is any waste shipment for purposes of recertification Ronald W. Taylor Name (Print or Type) Diversify Renad W. Taylor Diversify Renad W. Taylor Diversify Renad W. Taylor Diversify Renad W. Taylor	this and all attached document efined in 40 CFR 261 - Appendit n the possession of the general <u>12/6</u> Phone Environmental Affairs Complian	ts contains true x I or by using tor has been dis 5/2011 Date nce Manager	e and accura an equivales closed. I a	te descrip nt method. authorize :	tions of thi All releva sampling of

and identified by this profile.

_					Disposal Code
Recertif	lication				
_		LOUISVILLE, KY OFFICE	LOUISVILLE	KY	001 004
Invoice	Address	OFFICE	CITY	ST	
Veolia ES TSDF	requestedTechnology	requestedGenerate	or No. 583256 Generat	or EPA ID No. KY	D000830851
1. Generator N	Tame UNIVERSITY OF KENTUCKY	t.	Generator St	ate No.	
Address ENV	VIRONMENTAL MGMT 355	COOPER DR. FACILITY	State	Wastestream No.	
City LEXING	TON	State KY	Country US	ZIP <u>40546</u>	0490
NAICS (SIC)	Code 8221 61131	Source G09	Origin 1 Form W119	System Type	
2. Waste Name	UK801 INORGANIC ACIDS		Lab	or Waste Area	
3. Process Gen	erating Waste				
waste consc	blidation				
 Shipping Na 	MASTE CORROSIVE LIQUID	3, n.o.s			
Hazard Clas	8 8 UN/NA No. UN1760 P	<u>, 11</u>	RQ amt 1b Was	te: <u>Y</u> PIH: <u>N</u> IH:	<u>N</u> DWW: <u>N</u> P: <u>N</u>
RQ Des: 1			2		
DOT Des: 1			2		
5. Waste Codes	<u>D002 D007 D011</u>				
Wastewater	Non Wastewater X	Sub Category			Mix: <u>N</u> Sol: <u>N</u>
Physical an	d chemical properties:				
рН	Specific Gra	vity Flash Point ()	F) Solids		
a <u>X</u> < 2	a <.8	a < 80	a * <u>0</u> a	suspended <u>0</u> -	0 % ash
b 2 - 5	b8 - 1.0	b 80 - 100	a % <u>0 - 0</u>	ettleable <u>0</u> -	_0 % water solubility
c5-9	c 1.0	c 100 - 14	0 <u> </u>	lissolved <u>0</u> -	0 BTU/lb
d 9 - 12.5	d 1.0 - 1.2	d 140 - 200	0		
e > 12.5	e > 1.2	e > 200		Free Liquid <u>0</u> -	0 %
ex	act exa	f <u>X</u> no flash	exact	voc	0 %
Physical	State	Hazardous Character:	istics		Odor
s solid	a air	reactive r rac	dioactive or NRC regulated	a none _	
m semi-sol	.id wwate	er reactive s she	ock sensitive	b mild _	
l <u>X</u> liquid	с суа	nide reactive t ter	mp sensitive	c strong _	
p pumpable	semi-solid f sul:	ide reactive m po	lymerization/monomer	describe	
f flowable	e powder e exp	losive nOSI	HA carcinogen		
g gas	0 0xio	lizing acid i in:	fectious	На	logens
a aerosol	p perc	oxide former h inl	nalation hazard	Br	.0 % Bromine
r pressuri	zed liquid	Zone:	-	Cl	.0 % Chlorine
d debris p	per 40 CFR 268.45			F	.0 % Fluorine
h sharps				I <u>.0</u>	.0 % Iodine
q pumpable	e liquid				
Layers: a	multilayered:	<pre>b bi-layered:</pre>	c	single phase	I
 I	Top Layer	Second Layer	I	Bottom Layer	Color
Viscosity	high(syrup)	high(syrup))	high(syrup)	VAR
by	medium(oil)	medium(oil))	medium(oil)	·
Laver:	low(water)	l low(water)		low(water)	
	solid	solid		solid	·
·		·	'		·

WIP NO. 243619

WASTESTREAM INFORMATION PROFILE

U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=T	RI Chemical, C=OSHA Carcinogen]	
Constituents	Ranges Units	
T, AMMONIUM CHLORIDE	.00 20.00	ŝ
T,U, CHROMIUM	.00 1.00	ş
T, HYDROCHLORIC ACID SOLUTION	.00 20.00	ş
T, SILVER CHLORIDE	.00 20.00	ş
WATER	80.00 90.00	ş
PHOSPHORIC ACID SOLUTION (85% IN WATER)	.00 20.00	ŝ
T, SULFURIC ACID, <=51%	.00 20.00	ş
Other:		
8. Is the wastestream being imported into the USA?	Yes No_X	
9. Does the wastestream contain PCBs regulated by 40CFR?	Yes No_X	
PCB Concentration00 ppm		
10. Is the wastestream subject to the Marine Pollutant Regulations?	Yes No_X	
11. Is the wastestream from an industry regulated under Benzene NESHAP?	Yes No_X	
If yes:		
Is the wastestream subject to Notification/Control Requirements?	Yes No_X	
Benzene Concentration	ppm	
Does it contain >= 10% water?	Yes <u>Nox</u>	
What is the TAB at your facility?	.00 Mg/Yr	
12. Is the wastestream subject to RCRA subpart CC controls?	Yes No_X	
Volatile Organic Concentration	ppmw	
CC Approved Analytical Method?	Yes No_X	
Generator Knowledge?	Yes No_X	
13. Is the wastestream from a CERCLA or state mandated cleanup?	Yes <u>No X</u>	
14. Container Information :		
Packaging: Type/Size:		
Type/Size:		

Shipping Frequency: Units _____ .00 Per Day _ Per Week _ Per Month _ Per Qtr _ Per Year _ One Time _

UOM ____ DESCRIPTION: _____

15. Additional Information :

Used oil y/n ____ HOC < 1000 ppm ____ HOC > 1000 ppm ____

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Ronald W. Taylor		6/2011	
Name(Print or Type)	Phone	Date	
Ronald W. Taylor Dighaly aged by Ronald W. Taylor Difference and the second se	Environmental Affairs Compliance Manager		
Signature	Title		

If approved for management, **set that has all the necessary permits and licenses for the waste that has been characterized** and identified by this profile.

_					Disposal Code
Recertification					
_	LOU	JISVILLE, KY OFFICE	LOUISVILLE	KY	001 004
Invoice Address		OFFICE	CITY	ST	
Veolia ES TSDF requeste	dTechnology requ	estedGenerator	No. <u>583256</u> Generat	or EPA ID No. KY	D000830851
1. Generator Name UNIVE	RSITY OF KENTUCKY		Generator St	ate No.	
Address 355 COOPER D	R FACILITY		State	Wastestream No.	
City LEXINGTON	—	State <u>KY</u>	Country US	ZIP <u>40506</u>	
NAICS(SIC) Code 8221	61131	Source <u>G22</u> 0	rigin <u>1</u> Form <u>W105</u>	System Type	
• • • • • • • • • • • • • • • •					
2. Waste Name ACID WAST	E - SULFURIC & NITRIC	<5%	Lab	or Waste Area	
3. Process Generating W	aste				
lab waste accumulati	on				
4. Shipping Name WASTE	CORROSIVE LIQUID, ACII	DIC, INORGANIC, n.o.s	· · · · · · · ·		
Hazard Class 8 UN	/NA NO. <u>UN3264</u> PG <u>11</u>		RQ amt 100 1b Was	te: <u>Y</u> PIH: <u>N</u> IH:	<u>n</u> dww: <u>n</u> p: <u>n</u>
RQ Des: 1.0002			_ 2		
DOT Des: 1.NITRIC ACID,	NOT MORE THAN 20%		2.SULFURIC ACID		
5. Waste Codes D002					
Wastewater No:	n Wastewater <u>X</u> Su	ib Category			Mix: \underline{Y} Sol: \underline{Y}
6. Physical and chemica	1 properties:		a.1/1-		
рн	Specific Gravity	Flash Point(F)	Solids		0.0
a<2	a <.8	a < 80	<u> </u>	uspended <u>0</u> -	% asn
D 2 - 5	D8 - 1.0	D 80 - 100	<u> </u>	ettieable <u>0</u> -	% water solubility
c5_9	c 1.0	c 100 - 140	<u> </u>	lissolved <u>0 -</u>	U BTU/16
a 9 - 12.5	a 1.0 - 1.2	a 140 - 200		Two Identia	0.8
e > 12.5	e > 1.2	e > 200		Free Liquid 0 -	*
exact	exact	I A no Ilash _	exact	voc <u> </u>	%
Dhurd and Shake		Waaaadama dhamaabaada			••••••
Physical State		Hazardous Characteris	tics		Odor
a aerosol	a air react	rradi	oactive or NRC regulated	a none _	
c cylinder	w water rea	sshoc	k sensitive	b mild _	
d debris per 40 CFR	268.45c cyanide i	reactive ttemp	sensitive	c strong _	
e debris per O.Reg.	347 f sulfide 1	reactive m poly	merization/monomer	describe	
b filter	e explosive	n OSHA	carcinogen		
f flowable powder	o oxidizing	g acid i infe	ctious	Ha	logens
g gas	p peroxide	former h inha	lation hazard	Br <u>.0</u>	.0 % Bromine
<pre>l limited quantity</pre>		Zone: _		Cl	.0 % Chlorine
l <u>X</u> liquid				F	.0 % Fluorine
r pressurized liqui	đ			I <u>.0</u>	<u>.0</u> % Iodine
q pumpable liquid					
<pre>p pumpable semi-sol.</pre>	id				
m semi-solid					
h sharps					
n small inner conta	inora				
	Iners				
s solid	liers				



yers: a 1	multilayered:	<pre>b bi-layered:</pre>	c single phase	
	Top Layer	Second Layer	Bottom Layer Co	lor
iscosity	high(syrup)	high(syrup)	high(syrup)	VAI
by	medium(oil)	medium(oil)	medium(oil)	
Layer:	low(water)	low(water)	low(water)	
	solid	solid	solid	
i	gas	gas	gas	
i oil y/n HO	C < 1000 ppm HOC > 1	.000 ppm		
. Chemical Compos	sition [M=Marine Polluta	nt, S=Severe Marine Pollutant, O=Oz	cone Depleting Substance,	
-	U=Underlying Hazard	lous Constituent, B=Benzene NESHAP, T	'=TRI Chemical, C=OSHA Carcinogen]	
	Constituents		Ranges Units	
	WATER		75.00 85.00	alo alo
	T, NITRIC	ACID (<=20%)	.00 5.00	ŝ
	T, SULFURI	C ACID, <=51%	15.00 20.00	ejo
ther:				
3. Is the wastest	tream being imported int	o the USA?	Yes No_X	
. Does the waste	estream contain PCBs reg	ulated by 40CFR?	Yes No_X	
PCB Concentrat	tion00 ppm			
0. Is the wastest	tream subject to the Mar	ine Pollutant Regulations?	Yes No X	
1. Is the wastest	tream from an industry r	egulated under Benzene NESHAP?	Yes No X	
If yes:				
Is the wast	testream subject to Noti	fication/Control Requirements?	Yes No X	
Benzene Cor	ncentration	-	mqq 00.	
Does it com	ntain >= 10% water?		Yes NoX	
What is the	e TAB at your facility?		.00 Mg/Yr	
2. Is the wastest	tream subject to RCRA su	bpart CC controls?	Yes No X	
Volatile O	rganic Concentration		wmqq 00.	
	CC Approved Analyti	cal Method?	Yes No X	
	Generator Knowledge	?	Yes No X	
3. Is the wastes	tream from a CERCLA or e	tate mandated cleanup?	Yes No X	
	ontona of b		<u>_</u>	
4. Container Info	ormation :			
Packaging:	551H1 Type/Size: Type/Size:	DF 55 GAL CLOSED HEAD PLASTIC DM	<u> </u>	
hipping Frequency	Type/Size: y: Units0 Per UOM DESCR formation :	 Day _ Per Week _ Per Month _ IPTION:	- Per Qtr _ Per Year _ One Time _	

16. Product Reclaim			
Does Generator want material back (TOLL)?	es No _		
If Yes, what is the Generator's product specification?			
Constituents	Range	Units	
APHA Color Other			
Is the waste: grain _ or synthetic _ Ethanol? SDA Formula N	· o		
Have TTB taxes been paid on the contained ethanol and eligible fo	or rebate?		
Transportation Provided By: _ Veolia _ Generator	_ Other		
Returned in: _ Bulk (_ T/T _ T/C _ ISO) _ Drums	_ Other		
Describe the application for the solvent:			
GENERATOR CERTIFICATION			
I hereby certify that all information submitted in this and all	attached documents co	ntains true and accurate d	escriptions of this
waste. Any sample submitted is representative as defined in 40 C	FR 261 - Appendix I o	r by using an equivalent m	ethod. All relevant
information regarding known or suspected hazards in the possessi	on of the generator h	as been disclosed. I auth	orize sampling of
any waste shipment for purposes of recertification.	-		
Brian Butler		Jun 21, 2022	
Name(Print or Type)	Phone	Date	
Brian Budder New Ander Const, 1993 (2017)	Hazardous Waste Sys	stem Specialist	
Signature	Title		
If approved for management, as all the necessary perm	its and licenses for	the waste that has been ch	aracterized

and identified by this profile.

_					Disposal Code
Recertification					
_	LOUISVILLE, H	CY OFFICE	LOUISVILLE	<u>KY</u>	001 004
Invoice Address	01	FICE	CITY	ST	
		6			
Veolia ES TSDF requestedTe	chnology requested	Generator No. <u>5832</u>	Generato	T EPA ID NO. KYI	000830851
Advece ENULPONMENTAL MONT	255 COOPER DR EN	ידי דייע	Generator Sta	lite No.	
City LEXINGTON	555 COOPER DR. FAG	State KV (Scale P		1490
NAICS (SIC) Code 8221 61131	s	ource G22 Origin 1	Form W219	System Type	190
2. Waste Name NITRIC WITH ORGANI	ICS UK807		Lab d	or Waste Area	
3. Process Generating Waste					
consolidation of nitrics/orga	anics				
4. Shipping Name WASTE CORROSIVE	LIQUIDS, FLAMMABLE, n	.o.s.			
Hazard Class 8 UN/NA No. U	N2920 PG II Sub Haz (3)	RQ	amt 0 lb Wast	e: Y PIH: N IH: N	DWW: <u>N</u> P:N
RQ Des: 1		2			
DOT Des: 1.NITRIC ACID		2. <u>ACE</u>	CONE		
5. Waste Codes D001 D002 H	7003				
Wastewater Non Wastewa	iter X Sub Category	0001-IL, F003-NA			Mix: <u>N</u> Sol: <u>N</u>
6. Physical and chemical propert	:ies:				
pH Spec	ific Gravity	Flash Point(F)	Solids		
a <u>X</u> <2 a	c.8 á	a < 80	<u>0 - 0</u> % sı	ispended <u>0</u> -	0 % ash
b2-5 b	8 - 1.0 h	<u>X</u> 80 - 100	<u>0 - 0</u> % se	ettleable <u>0</u> -	0 % water solubility
c5-9 c1		2 100 - 140	<u>0 - 0</u> % di	ssolved <u>0</u> -	0 BTU/lb
d 9 - 12.5 d 1	.0 - 1.2 0	140 - 200			
e>12.5 e>	• 1.2 e	e > 200		Free Liquid 0 -	<u> 0 </u> %
exact	exact	no flash	exact	voc <u>0</u> -	0 %
					·····
rnysical state	nazaro	r radioactivo	or MBC regulated	2 1010	Juor
m semi-solid w	all reactive	r rautoaccive	ive	h mild	
l X liquid	water reactive	t temp sensiti	ve	c strong	
n numnable semi-solid f	cyanide reactive	m polymerizati	on/monomer	describe	
f flowable powder e	explosive	n OSHA carcino	gen		
g gas o	oxidizing acid	i infectious		Ha	ogens
a aerosol p	peroxide former	h inhalation h	azard	Br .0 -	0 % Bromine
r pressurized liquid		Zone :		cl .0 -	.0 % Chlorine
d debris per 40 CFR 268.45		_		F .0 -	.0 % Fluorine
h sharps				I .0 -	.0 % Iodine
qpumpable liquid					_
Layers: a multilayered:	b b:	-layered:	c #	ingle phase	1
Top Las	ver	Second Laver		Bottom Laver	Color
Viscosity high (ev)	(au	high (syrup)	i	high (syrup)	
bv medium(syl	- I	medium(oil)	· · -	medium(oil)	<u>vran</u>
Laver: low/wate	er) -	low(water)	· -	low (water)	·
	·-· / _	solid		solid	·
·	۔ ۱		·		

	bicion (M-Marine Forracane, 5-bever	e Marine Pollutant, O=O2	zone Depleting Su	bstanc	e,		
	U=Underlying Hazardous Constitu	uent, B=Benzene NESHAP, 7	T=TRI Chemical, C	=OSHA	Carcinoger	1]	
	Constituents			Rang	es	Units	
	U. ACETONE				5.00	70.00	*
	T. NITRIC ACID (>20% H	BUT <65%)		-	.00	15.00	8
	WATER				15.00	90.00	8
)ther:							
. Is the wastes	tream being imported into the USA?		Yes	No X			
. Does the wast	estream contain PCBs regulated by 40	0CFR?	Yes	No X			
PCB Concentra	tion .00 ppm		_				
10. Is the wastes	tream subject to the Marine Pollutar	nt Regulations?	Yes	No X			
11. Is the wastes	tream from an industry regulated und	der Benzene NESHAP?	Yes	No X			
If ves:							
Is the was	testream subject to Notification/Con	ntrol Requirements?	Yes	No X			
Benzene Co	ncentration	· · · · · · · · · · · · · · · · · · ·			maga 00		
Does it co	ntain >= 10% water?		Yes	NoX	<u> </u>		
What is th	e TAB at your facility?			00	Ma/Yr		
2. Is the wastes	tream subject to RCRA subpart CC cor	ntrols?	Yes	No X			
Volatile O	rganic Concentration				wmaa 00		
	CC Approved Analytical Method?		Yes	No X	<u> </u>		
	Generator Knowledge?		Yes	_ <u>No X</u>			
13. Is the wastes	tream from a CERCLA or state mandate	ed cleanup?	Ves	NoX			
14. Container Inf	ormation :						
	T (C) = .						
Packaging:	Type/Size:						
Packaging:	Type/Size:		_				
Packaging:	Type/Size:		_				
Packaging: Shipping Frequency	Type/Size: Type/Size: y: Units00 Per Day _ Per	r Week _ Per Month _	Per Qtr _ F	er Yea	r_ One	e Time _	
Packaging: Shipping Frequency	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION:	r Week _ Per Month _	Per Qtr _ P	er Yea	r_ One	e Time _	
Packaging: Shipping Frequency	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION:	r Week _ Per Month _	Per Qtr _ F	Per Yea	r_ One	e Time _	
Packaging: Shipping Frequenc 	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation :	r Week _ Per Month _ 	Per Qtr P	Per Yea	r_One	e Time _	
Packaging: Shipping Frequency 5. Additional In	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation :	r Week _ Per Month _	Per Qtr F	Per Yea	r_One	e Time _	
Packaging: Shipping Frequency 5. Additional In	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation :	r Week _ Per Month _	Per Qtr _ F	Per Yea	r_One	e Time _	
Packaging: Shipping Frequency 	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation :	r Week _ Per Month _	Per Qtr _ F	Per Yea	r_One	e Time _	
Packaging: Shipping Frequenc 5. Additional In:	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation :	r Week _ Per Month _ 	Per Qtr _ P	Per Yea	r_One	e Time _	
Packaging: Shipping Frequenc; 5. Additional In SENERATOR CERTIFIC	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation : 	r Week _ Per Month _	Per Qtr _ F	Per Yea	r_ One	9 Time _	
Packaging: Shipping Frequency 5. Additional In SENERATOR CERTIFIC I hereby certify	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation : CATION that all information submitted in t	r Week _ Per Month _	Per Qtr _ F	er Yea	r _ One	e Time _	tions of t
Packaging: Shipping Frequency 15. Additional In SENERATOR CERTIFIC I hereby certify waste. Any sample	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation : CATION that all information submitted in t e submitted is representative as def	r Week _ Per Month _	Per Qtr _ F	Per Yea	r _ One	e Time _	tions of t All rele
Packaging: Shipping Frequency 5. Additional In SENERATOR CERTIFIC I hereby certify waste. Any sample information reas	Type/Size: Type/Size: y: UnitsOO Per Day _ Per UOM DESCRIPTION: formation : CATION that all information submitted in t e submitted is representative as def rding known or suspected hazards in	r Week _ Per Month _	Per Qtr _ F	Per Yea	r _ One	e Time _ ce descrip nt method. authorize	tions of t All rele sampling o
Shipping Frequency 5. Additional In EXERTION CERTIFIC I hereby certify waste. Any sample information regar any waste shipmen	Type/Size: Type/Size: y: Units00 Per Day Per UOM DESCRIPTION: formation : CATION that all information submitted in t e submitted is representative as def rding known or suspected hazards in nt for purposes of recertification.	r Week _ Per Month _ this and all attached doo fined in 40 CFR 261 - App the possession of the ge	Per Qtr _ F	Per Yea true a sing an	r _ One	e Time _	tions of t All rele sampling o
Packaging: Shipping Frequency 15. Additional In SENERATOR CERTIFIC I hereby certify waste. Any sample information regat any waste shipment Ronald W. Taylor	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation : CATION that all information submitted in the e submitted is representative as defined rding known or suspected hazards in nt for purposes of recertification.	r Week _ Per Month _	Per Qtr _ F	Per Yea	r _ One	e Time _	tions of t All rele sampling o
Packaging: Shipping Frequency 15. Additional In SENERATOR CERTIFIC I hereby certify waste. Any sample information rega: any waste shipment Ronald W. Taylor	Type/Size: Type/Size: y: Units00 Per Day _ Per UOM DESCRIPTION: formation : CATION that all information submitted in t e submitted is representative as def rding known or suspected hazards in nt for purposes of recertification. Name(Print or Type)	r Week _ Per Month _	Per Qtr _ F	true a ding an discl	r _ One	e Time _	tions of t All rele sampling o
Packaging: Shipping Frequency 15. Additional In SENERATOR CERTIFIC I hereby certify waste. Any sample information rega: any waste shipmen Ronald W. Taylor	Type/Size: Type/Size: y: Units00 Per Day Per UOM DESCRIPTION: formation : formation : CATION that all information submitted in t e submitted is representative as def rding known or suspected hazards in nt for purposes of recertification. Name(Print or Type) Teacher = Dimensional Winner	r Week _ Per Month _	Per Qtr _ F	true a ding an discl	r _ One	e Time _	tions of t All rele sampling o
Ackaging: Thipping Frequency 5. Additional In 5. Additional In EENERATOR CERTIFIC I hereby certify waste. Any sample information regat any waste shipment Ronald W. Taylor Ronald W. Taylor	<pre> Type/Size: Type/Size: g: Units00 Per Day _ Per UOM DESCRIPTION: formation : formation : CATION that all information submitted in t e submitted is representative as def rding known or suspected hazards in nt for purposes of recertification. Name (Print or Type) Taylor Definition States of Kentety. Charles and W. Taylor Charles a</pre>	r Week _ Per Month _	Per Qtr _ F	true a disclo	r _ One	te descrip	tions of t All rele sampling o

If approved for management, **the second seco**

Recertification
LOUISVILLE, KY OFFICE LOUISVILLE KY 001 004 Invoice Address OFFICE CITY ST 001 004 Veolis ES TSDF requested
LOUISVILLE, KY OFFICE LOUISVILLE KY [00] 004 Invoice Address OFFICE CITY ST Vecils ES TSDF requested Technology requested Generator No.583256 Generator EPA ID No. KYD000830851 1. Generator Name ENTVERSITY OF ENTUCKY Generator State No. State No. State No. Address 355 COOPER DR FACILITY State Ky Country US SIP 40506 City LEXINNTON State Ky Country US SIP 40506 City LEXINNTON State Ky Country US SIP 40506 Address 355 COOPER DR FACILITY State Ky Country US SIP 40506 City LEXINNTON State Ky Country US SIP 40506 KACEG(SIC) Code 9221 61131 Bource G22 Origin 1 Porm M105 System Type 2. Nance Marke Area Incocease Generating Waste Consolidation of acida I.ab or Maste Area 3. Process Generating Waste OD5 D005 D007 D08 D09 CDT be: 1. 2. State Mastewater X Sub Category D006-MA, D009-NB Mix:
Image:
Veolia #S TSDF requestedTechnology requested Generator No.583255 Generator EPA ID No. KYD000830851 1. Generator Name UNIVERSITY OF KENTUCKY Generator State No
Veolia ES 75D7 requestedTechnology requested Generator No.583256 Generator EPA ID No. <u>KYD000830851</u> 1. Generator Hame UNIVERSITY OF KENTUCKY Generator State No
Veolia ES TSDP requested
Note as in the frequencies Note of the intervention of t
Address 355 COOPER PARTITY State WS State Ws State Ws City LEXINGTON State KY Country US ZIP 40506 Natice State Core Reparting State KY Country US ZIP 40506 2. Waste Name NITERIC ACID W <260 RS
City LEXIMITION Direct mitted fricts NAICS (SIC) Code 9221 61131 Source 622 Origin 1 Form W105 System Type 2. Waste Name NITRIC ACID W <260 HG
Initiation Initiation <thinitiation< th=""> Initiation Initiation</thinitiation<>
2. Waste Name NITRIC ACID W <260 HG
2. Waste Name NITRIC ACID W <260 H3
1. Hitter Haller Hitter Heller 1
consolidation of acids 4. Shipping Name WASTE CORROSIVE LIQUID, ACTDIC, INORGANIC, n.o.s. Harard Class 8 UN/NA No. UN3264 PG II RQ pes: 1. 2. DOT Des: 1. 2. 5. Waste Codes D002 D004 D005 D006 D007 D008 D009 D011
4. Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, n.o.s. n.o.s. Hazard Class 8 UN/NA No. UN3264 PG II RQ ant 0 lb Waste: Y PIH: N IH: N DWW: N P: N RQ Des: 1. 2. DOT Des: 1. 2. 5. Waste Codes D002 D004 D005 D006 D007 D008 D009 D010 D011
Harard Class 8 UN/NA No. UN3264 PG II RQ ant 0 lb Waste: Y PIH: N IH: N DWW: N P: N RQ Des: 1. 2. DOT Des: 1. 2. 5. Waste Codes D002 D004 D005 D006 D007 D008 D009 D011
Reg basis for an intervention of the second
X Jest 1. 2. DOT Des: 1. 2. 5. Waste Codes D002 D004 D005 D006 D007 D008 D009 D010 D011
5. Waste Codes D002 D004 D005 D006 D007 D008 D009 D010 D011
S. waste codes D002 D004 D005 D006 D003 D003 D010 D011 D011 Wastewater Non Wastewater X Sub Category D006-NA, D009-NR
Hastewater Non wastewater X Sub Category Dube-NA, Dobe-NA, Dobe-N
6. Physical and chemical properties: Plash Point (F) Solids a X<2
pH Specific Gravity Flash Point (F) Solids a X < 2
a X < 2 a < <.8 a < < 80 0 - 0* suspended 0 - 0 * ash b 2 5 b8 1.0 b80 100 0 - 0* settleable 0 - 0 * water solubility c 5 9 c1.0 c100 140 0 - 0* dissolved 0 - 0 8TU/lb d 9 - 12.5 d 1.0 - 1.2 d 140 - 200 Free Liquid 0 - 0 * e > 12.5 e > 1.2 e > 200 Free Liquid 0 - 0 * exact exact f X no flash exact VOC 0 - 0 *
a _ < < 2
b 2 5 b 1.0 b a0 1.00
d 9 - 12.5 d 1.0 - 1.2 d 140 - 200 e > 12.5 e > 200 Free Liquid 0 exact exact f X no flash exact VOC 0 Physical State Hazardous Characteristics Odor
u y = 12.5 u
e y 12.5 e y 200 y 100 y 100 - exact - exact f X no flash - exact VOC 0 0 Physical State Hazardous Characteristics Odor
Physical State Hazardous Characteristics Odor
Physical State Hazardous Characteristics Odor
s solid a air reactive r radioactive or NRC regulated a none
m semi solid w water reactive s shock sensitive b mild
1 X liquid c cvanide reactive t temp sensitive c strong
p pumpable semi-solid f sulfide reactive m polymerization/monomer describe
f flowable powder e explosive n OSHA carcinogen
g gas o oxidizing acid i infectious Halogens
a aerosol p peroxide former h inhalation bazard Br 0 0 & Bromine
r pressurized liquid Zone:
d = debris per 40 (TR 268 45)
h sharps
q pumpable liquid
qpumpable liquid
q pumpable liquid Layers: a multilayered: b bi-layered: c single phase
q pumpable liquid Layers: a multilayered: b bi-layered: c single phase Top Layer Second Layer Bottom Layer
q pumpable liquid Layers: a multilayered: b bi-layered: c single phase Top Layer Second Layer Viscosity high(syrup)
q pumpable liquid Layers: a multilayered: b bi-layered: c single phase Top Layer Second Layer Bottom Layer Color Viscosity high(syrup) high(syrup) Migh(syrup) VAR by medium(oil) medium(oil) medium(oil)
qpumpable liquid Layers: amultilayered: bbi-layered: csingle phase Top Layer Second Layer Bottom Layer Color Viscosity high(syrup) high(syrup) VAR by medium(oil) medium(oil) medium(oil) Layer: low(water) low(water) low(water)

Used oil y/n ____ HOC < 1000 ppm ___ HOC > 1000 ppm ___

7. Chemical Composition [M Marine Pollutant, S Severe Marine Pollutant, O Ozone Depleting Substance,

U Underlying Hazardous Constituent, B Benzene NESHAP, T TRI Chemical, C OSHA Carcinogen]

Constituents

Ranges

Units

		1		YTTRIUM OXIDE	.00	5.00	8
		1	T,U,	ARSENIC	.00	200.00	M
		1	T,U,	MERCURY	.00	200.00	M
		1	т,	NITRIC ACID (>70%)	.00	5.00	8
		1		WATER	90.00	99.00	8
		1	т,	CHROMIUM COMPOUNDS LIQUID (CHEM NAME NOT SPECIFIED)	. 00	200.00	M
		Μ,	т,	LEAD COMPOUNDS (CHEM NAME NOT SPECIFIED)	. 00	10.00	M
		1	т,	SILVER COMPOUNDS LIQUID (CHEM NAME NOT SPECIFIED)	. 00	200.00	M
			т,	BARIUM COMPOUNDS LIQUID & SOLID (CHEM NAME NOT SPECIFIED)	. 00	10.00	M
			т,	CADMIUM COMPOUNDS LIQUID OR SOLID (CHEM NAME NOT SPECIFIED)	. 00	200.00	M
		1	т,	SELENIUM COMPOUNDS LIQUID & SOLID (CHEM NAME NOT SPECIFIED)	.00	200.00	M
Ot	her:						
8.	Is the wastest	tream be	ing impo	orted into the USA? Yes	No X		
9.	Does the wast	estream	contain	PCBs regulated by 40CFR? Yes _	No X		
	PCB Concentrat	tion	.00	2 ppm			
10	. Is the wastes	tream su	bject to	the Marine Pollutant Regulations? Yes _	No X		
11	. Is the wastes	tream fr	om an ir	ndustry regulated under Benzene NESHAP? Yes	No X		
	If yes:						

Is the wastestream subject to Notification/Control Requirements? Yes No X Benzene Concentration .00 ppm Does it contain > 10% water? Yes NoX What is the TAB at your facility? .00 Mg/Yr 12. Is the wastestream subject to RCRA subpart CC controls? Yes No X .00 ppmw Volatile Organic Concentration CC Approved Analytical Method? Yes No X Generator Knowledge? Yes No X 13. Is the wastestream from a CERCLA or state mandated cleanup? Yes No X

14. Container Information Packaging:	: Type/Size: Type/Size:					
Shipping Frequency: Units UOM	DESCRIPTION:	Per Week _	Per Month _	Per Qtr _	Per Year _	One Time _
15. Additional Information	a :					

Does Generator want material back (TOLL)?	Yes No		
If Yes, what is the Generator's product specification	1?		
Constituents	Range	Units	
APHA Color Other			
Is the waste: grain _ or synthetic _ Ethanol? SDA Formu	la No		
Have TTB taxes been paid on the contained ethanol and eligibl	e for rebate?		
Transportation Provided By: Veolia Generator	_ Other		
Returned in: _ Bulk (_ T/T _ T/C _ ISO) _ Drums	_ Other		
Describe the application for the solvent:			
Additional Information:			
			20 20
GENERATOR CERTIFICATION			
I hereby certify that all information submitted in this and	all attached document	contains true and accurate de	escriptions of this
waste. Any sample submitted is representative as defined in	40 CFR 261 Appendix	I or by using an equivalent me	thod. All relevant
information regarding known or suspected hazards in the poss	ession of the generat	or has been disclosed. I author	rize sampling of
any waste shipment for purposes of recertification.			
Brian Butler	6/15	/2018 1:12 PM PDT	
DocuSigned by: Name (Print or Type)	Phone	Date	
Brian Butter			
Drive Drive			

If approved for management, has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

Haz. Waste <u>Systems Specialist</u>

Signature on File E477FA495347423

Signature

 Rece	ertification						Disposal Code
		LO	UISVILLE, KY OF	FICE	LOUISVILLE	<u>KY</u>	001 004
Invo	oice Address		OFFICE		CITY	ST	
Veolia ES	TSDF requested	ITechnology req	uested	Generator N	o. <u>583256</u> Generat	tor EPA ID No. KYD	000830851
1. Generat	or Name UNIVER	SITY OF KENTUCKY			Generator St	tate No.	
Address	355 COOPER DR	FACILITY			State	Wastestream No.	
City LE	XINGTON			State KY	Country US	ZIP <u>40506</u>	
NAICS (S	SIC) Code <u>8221</u>	61131	Source	<u>G09</u> Ori	gin 1 Form W110	System Type	
2. Waste N	Jame IIK803 ORGA	NIC CAUSTIC				or Waste Area	
3. Process	Generating Wa	ate			100	of here area	
consoli	dation of caus						
4. Shinnin	A Name WASTE F	LAMMABLE LIGHTDS CO	PROSTUR DOS				
Hazard	Class 3 UN	NA NO. UN2924 PG II	Sub Haz (8)		RO amt 100 lb Was	ate: V PTH: N TH: N	DWW N P.N
RO Dest 1	.D001	<u></u>			2.D002		
DOT Des: 1	ETHANOL			_	2.SODIUM HYDROXIDE		
5. Waste C	odes D001	0002					
Wastewa	ter Nor	Wastewater X S	ub Category D00				Mix: N Sol: N
6. Physica	al and chemical	properties:					
pH		Specific Gravity	Fla	sh Point(F)	Solids		
- a < 2		a <.8	a	< 80	0 - 0% 1	suspended 0 -	0 % ash
b 2	5	b .8 1.0	ъх	80 100	0 - 0%	settleable 0 -	0 % water solubility
c 5	9	c 1.0	c	100 140	0 - 0%	dissolved 0 -	0 BTU/1b
d 9-	12.5	d 1.0 - 1.2	d	140 - 200			
e X > 12	2.5	e > 1.2	е	> 200		Free Liquid 0 -	0 %
-	exact	- exact	f	no flash	- exact	VOC 0 -	0 %
Phys	sical State		Hazardous	Characteristic	CB	c	dor
s soli	ld	a air reac	tive	r radioa	ctive or NRC regulated	a none	
m semi	solid	w water re	active	s shock	sensitive	b mild	
l <u>X</u> liqu	id	c cyanide	reactive	t temp s	ensitive	c strong	
p pump	able semi-soli	d f sulfide :	reactive	m polyme	rization/monomer	describe	
f flow	wable powder	e explosiv	e	n OSHA c	arcinogen		
g gas		o oxidizin	g acid	i infect	ious	Hal	ogens
a aero	losol	p peroxide	former	h inhala	tion hazard	Br <u>.0</u> .	0 % Bromine
r pres	surized liquid	1		Zone: _		ci <u>.o</u>	0 % Chlorine
d debr	is per 40 CFR	268.45				F <u>.0</u> - <u>.</u>	0 % Fluorine
h shar	rps					I <u>.0</u> .	0 % Iodine
q pump	able liquid						
Layers:	a multi	layered:	b bi-lay	ered:	c	single phase	
		Top Laver	Sec	ond Laver	 I	Bottom Laver	Color
Viscosity	·	high(syrup)		igh (syrup)		high (syrup)	
by		medium (oil)	[edium(cil)	I	medium (oil)	
Laver:	· —	low(water)	[1	ow(water)		low(water)	· _
•	·	solid	so	olid	1	solid	

		ne Depleting Substance,
	U Underlying Hazardous Constituent, B Benzene NESHAP, T 7	TRI Chemical, C OSHA Carcinogen]
	Constituents	Ranges Units
	ETHANOL	10.00 40.00 %
	SODIUM HYDROXIDE SOLUTION	60.00 90.00 %
ther:		
. Is the wastes	tream being imported into the USA?	Yes No X
. Does the wast	estream contain PCBs regulated by 40CFR?	Yes No X
PCB Concentrat	tion ppm	
0. Is the wastes	tream subject to the Marine Pollutant Regulations?	Yes No X
1. Is the wastes	tream from an industry regulated under Benzene NESHAP?	Yes No X
If yes:		
Is the was	testream subject to Notification/Control Requirements?	Yes No X
Benzene Co	ncentration	00 ppm
Does it com	ntain > 10% water?	Yes NoX
What is the	e TAB at your facility?	.00 Mg/Yr
2. Is the wastes	tream subject to RCRA subpart CC controls?	Yes No X
Volatile O	rganic Concentration	wmqq 00.
	CC Approved Analytical Method?	Yes No X
	Generator Knowledge?	Yes No X
	tream from a CEPCIA or state mandated sleanun?	
3. Is the wastes	ormation :	Yes <u>NO X</u>
 Is the wastes 4. Container Info ackaging: 	ormation : Type/Size: Type/Size:	Yes <u>NO X</u>
 Is the wastes Container Info ackaging: hipping Frequency 	<pre>ormation : Type/Size: Type/Size: y: Units00 Per Day _ Per Week _ Per Month UOM DESCRIPTION:</pre>	Per Qtr _ Per Year _ One Time _
3. Is the wastes 4. Container Info ackaging: hipping Frequency 5. Additional Inc	ormation : Type/Size:	Per Qtr _ Per Year _ One Time _
 Is the wastes Container Info ackaging: hipping Frequency Additional Inso 	intermediated creanup: ormation Type/Size: Type	Per Qtr _ Per Year _ One Time _
3. Is the wastes 4. Container Info ackaging: hipping Frequency 5. Additional Inc	intermediated creanup: ormation Type/Size:	Yes No_X Per Qtr _ Per Year _ One Time _
 Is the wastes Container Info ackaging: hipping Frequency Additional Inso Additional Inso 6. Product Reclassion 	<pre>intermation : Type/Size: Type/Size: y: Units00 Per Day _ Per Week _ Per Month _ UOM DESCRIPTION: formation : im</pre>	Yes No_X Per Qtr _ Per Year _ One Time _
 Is the wastes Container Info ackaging: hipping Frequency Additional Ins Additional Ins 6. Product Reclass Generator was 	<pre>in material back (TOLL)?</pre>	Per Qtr _ Per Year _ One Time _
3. Is the wastes 4. Container Info ackaging: hipping Frequency 5. Additional In: 6. Product Recla: boes Generator was If Yee with	<pre>interval a cake of state mandated cleanup; interval formation : Type/Size: y: Units00 Per Day _ Per Week _ Per Month _ UOM DESCRIPTION: formation : int material back (TOLL)? Yes _ No _ bat is the Generator's product specification?</pre>	Per Qtr _ Per Year _ One Time _
 3. Is the wastes 4. Container Info ackaging: hipping Frequency 5. Additional Interpretation 6. Product Reclass toes Generator was If Yes, with Constituted 	<pre>interval in the case in andated creanup? interval interval case in andated creanup? interval interval back (TOLL)? interval in</pre>	Per Qtr _ Per Year _ One Time _
 3. Is the wastes 4. Container Info ackaging: hipping Frequency 5. Additional Inst 6. Product Reclass pes Generator was If Yes, wis Constitues 	<pre>internal back (TOLL)? Yes No</pre>	Per Qtr _ Per Year _ One Time _

Describe the application for the solvent:

Additional Information:

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Brian Butler			12/18/2018 11:01 AM PST
DocuSigned by:	Name(Print or Type)	Phone	Date
Brian Butter			
E477EA495347423		Haz. Waste Systems	s Specialist
	Signature	Title	

If approved for management, has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

.£,
·
WASTESTREAM INFORMATI

. .

- Tro. A.-

N CT SALE CONTRACTOR

11:152.CF 8. 1

12 ----

iane:

Receting	VASTESTREAM INFORMA	TION		
				Disposal Code
Manifest from - blank if direct		CITY	31	
VEOLIA TSDF requested Technology req	uestedGenerator No	. <u>583258</u> Genera	ator EPA II	D <u>KYD000830851</u>
1. Generator Name UNIVERSITY OF KENTU	JCKY	Ger	ierator Sta	ie #
Address ENVIRONMENTAL MGMT 355 C	OOPER DR. FACILITY	Stat	te Wastest	tream 🕸
City LEXINGTON	State KY	_Country_US	Zip	40508 0490
SIC Code <u>8221</u> 1st NAICS Code	2nd NAICS Co	de	3rd NAICS	3 Code
Source <u>G22</u> Origin	Form <u>W219</u>	<u> </u>	Gystem Ty	pe
2. Waste NameDUAL WASTE RCRA HAZ .	AND BIO WASTE	Lab or	Waste	
3. Process Generating LAB WASTE		5.		
4. Shipping Name _FLAMMABLE LIQUIDS. 7	OXIC. n.ø.s.		N	
Hazard Class <u>3</u> UN/NA Number <u>UN</u>	<u>1992_</u> PkgGrp <u>II, III_</u> Sub H	Izds <u>() 0.1 (</u>	<u>) 6.1</u> R(Q Amt (lbs.) <u>0</u>
RQ Desc: 1.	2.			
DOT Desc: 1. ALCOHOL	2.			
5. Waste Codes <u>F003-NA, D001-IL</u>				
Wastewater (Y/N) <u>N</u> Sub-Category <u>I</u>				
11 2	1- мампадсе снажаюте: 61.21(а)(1)	abing wasie,		= 10% IOC PER
6. Physical and chemical				•
pH Lo <u>6</u> Specific Gravity Lo <u>0</u>	Flash Point (F) Lo <u>70</u>	Water Solubilit	yLo <u>0</u>	BTWIELO <u>0</u>
pH Hi <u>8</u> Specific Gravity Hi <u>0</u>	Flash Point (F) Hi <u>140</u>	Water Solubilit	<u>у Ні_0_</u>	BLANP HI 0
Solids:				
Suspended Lo U Settleable (%) Lo U		MASHLO		
Suspended Hi _ U Settleable (%) H <u>i U</u>	_ Discolved (%) Hi _ U_	% Ash HI	7 + L56	
Physical State:	Hazardous		Layer _	
Physical State 1 <u>L - liquid</u>	Haz. Char. 1		Тер _	
Physical State 2	Haz. Char. 2		Middle -	
Physical State 3	Haz. Char. 3		Bottom_	0 - 9 0.94
Halopens:			}	Color 1BRN
Bromine (%) Lo) Chlorine (%) Lo) Fluorine (%) Lo	_) lodine (%) L	.0)	Color 2
Bromine (%) Hi Chlorine (%) Hi	Fluorine (%) Hi	_ Iodine (%) F	si	Intensity

0--- x -- n

WID NO 770000

Odor Intensity Contains Used Oil? <u>No</u> HO)C < 1ŭ	10 ppm _	_HOC >	• 1000 ppm
Description			24	
7. Chemical Composition:				
Component		Low	High	%ippmippb
		35	35	%
ZING SULFATE WATER	<u>3</u> .	5	5 55	% %
STOOL		5	5	%
Other ⁻	Yes/N		an terc Western B	
8. Is the wastestream being imported into the USA?	Ne	PCB		
9. Does the wastestream contain PCBs regulated by 40 CPR?	Na	concent	ration:	0.00 PP
10.Is the wastestream subject to the Marine Pollutant Regulations?	No			
11.1s the wastestream subject to Benzene NESHAP?	វិម័ ម	Benzen	<u>e</u>	
If Yes, is the wastestream subject to Notification and Control Reqs?	No	concent	ration:	0.00 PPI
Does it contain >= 10% water?	Na	TAB at I	Facility:	0.00 Mg/Y
12.1s the wastestream subject to RCRA subpart CC controls?	No	Vol. Org). Conc.,	6 66 5544
UL approved analysical method / Useneral Knowledge /	Ma	17 870		0.00 PPM
14. Pealaim Composition: These are pared in composite	Qri			
14. Regiann composition. There are no regiann components				
15.Container Information (Identify UN container marking if				
Packaging: Bulk Type/SizeBulk Liquid:Type/Size	e	Drun	۱: ⁻	Type/Size
Other:				
Shipping Frequency: UnitsPer MonthQuarterYea	ır	_One Tim	ē	_Other
16.Additional Information:				
		1		ι.
Is analytical or an MSDS available that describes the waste? Yes No	If Yes,	please at	tach.	
GENERATOR CERTIFICATION				
i hereby certify that all information submitted in this and all attached documents (this waste. Any sample submitted is representative as defined in 4D GFR 281 - A All relevant information regarding known or suspected hazards in the possession authorize sampling of any waste shipment for purposes of recertification.	contains \ <i>ppiendix</i>) of the g	true and T or by us jenerator l	accurate <i>ling an eq</i> has been	descriptions of wivalent metho disclosed.)
NAME (Print or Type)	⊨ HOME		ANN 2751 CA	DATE
		X		
	7171 ~			
SIGNATURE	RUCE			
SIGNATURE				

WIP NO. 740992

TSDF PROCESSING USE ONLY: PPE REQUIRED? No.__ DESCRIBE: .

WIP NO. 740992

waa					Disposal Code
<pre>Kecertification</pre>					
_	LC	UISVILLE, KY OFFICE	LOUISVILLE	КY	
Invoice Address		OFFICE	CITY	ST	· <u></u> ·
Veolia ES TSDF request	ed Technology reg	uested Generato	r No.583256 Generato	r EPA ID No. KY	0000830851
1. Generator Name UNIV	ERSITY OF KENTUCKY	· · · · · · · · · · · · · · · · · · ·	Generator Sta	te No.	
Address ENVIRONMENT	AL MGMT 355	COOPER DR. FACILITY	State W	astestream No.	
City LEXINGTON		State KY	Country US	21P 40506	0490
NAICS (SIC) Code 822	<u>. </u>	Source <u>622</u>	Origin 1 Form <u>W219</u>	System Type	
2. Waste Name <u>CLINICAL</u>	LAB BULK WASTE		Lab o	r Waste Area	
3. Process Generating	Waste				
Testing serum/plasm	a samples for HIV, Hep	C and CMV			
4. Shipping Name WASTE	FLAMMABLE LIQUIDS, TO	XIC, n.o.s.			
Nazard Class 3 U	N/NA No. UN1992 PG II	Sub Haz (6.1)	RQ amt 0 1b Wast	e: Y PIH; N IH;	<u>N</u> DWW: <u>N</u> P; <u>N</u>
RQ Des: 1			2		
DOT Des: 1. ISOPROPANOL	<i>i</i>		2.TRIOCYANIC ACID		
5. Waste Codes <u>D001</u>	<u> </u>		····		
Wastewater N	Ion Wastewater <u>X</u> S	ub Category D001-IL			Mix: <u>N</u> Sol: <u>N</u>
Physical and chemic	al properties:				
рН	Specific Gravity	Flash Point (F) Solids		
a < 2	a <.8	a < 80	<u>0 ~ 0</u> 3 su	spended 0 -	<u>0</u> \$ash
b2 ~ 5	b8 - 1.0	b 80 - 100	<u>0 - 0</u> % se	ttleable <u>0</u>	_0 % water solubilit
c5-9	e 1.0	c 100 - 140	<u>0 ~ 0</u> % di	ssolved 0 -	0 BTU/lb
d 9 - 12.5	d 1.0 - 1.2	d 140 - 200			
e > 12;5	e > 1.2	e > 200		Free Liquid 0 -	0 %
exact	exact	t <u>X</u> no flash	exact	voc _0	_0 %
Physical State		Hazardous Characteri	stics		
s solid	a air read	tive rrad	ioactive or NRC regulated	a none	
m semi-solid	W water re	active s sho	ck sensitive	b mild	
1 X Liquid		reactive t tem			
- <u> </u>	c cyanide	readerre e tem	p sensitive	c strong _	
p pumpable semi-so	c cyanide olid f sulfide	reactive mpol	p sensitive ymerization/monomer	c strong _ describe	
<pre>p pumpable semi-so f flowable powder</pre>	c cyanide olid f sulfide e explosiv	reactive m pol	p sensitive ymerization/monomer A carcinogen	c strong _ describe	
<pre>p pumpable semi-so f flowable powder ggas</pre>	c cyanide blid f sulfide e explosiv o oxidizin	reactive m pol reactive m pol re n 0SH ng acid i i inf	ymerization/monomer A carcinogen Tectious	c strong _ describe 	logens
p pumpable semi-so f flowable powder g gas aaerosol	c cyanide blid f sulfide e explosiv o oxidizin p peroxide	reactive m pol reactive m pol re n OSH ug acid i inf former h inh	ymerization/monomer ymerization/monomer A carcinogen Fectious Halation hazard	c strong describe 	logens .0 % Bromine
p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu	c cyanide blid f sulfide e explosiv o oxidizin p peroxide	reactive m pol reactive m pol re n OSH ng acid i inf p former h inh Zone:	ymerization/monomer A carcinogen Fectious Malation hazard	c strong describe He Br0 ~ C10 ~	logens .0 % Bromine .0 % Chlorine
p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CE	c cyanide olid f sulfide e explosiv o oxidizin P peroxide nid FR 268,45	reactive m pol re n SR ng acid i inf former h inh Zone:	ymerization/monomer M carcinogen Tectious Halation hazard	c strong describe He Br0 Cl0 F0	logens .0 % Bromine .0 % Chlorine .0 % Fluorine
p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF b sharps	c cyanide olid f sulfide e explosiv o oxidizin P peroxide nid FR 268.45	reactive m pol re n OSH ng acid i inf former h inh Zone:	ymerization/monomer A carcinogen Sectious Halation hazard	c strong describe Br0 Cl0 F0 I0	logens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Icdine
<pre>p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF h sharps q pumpable liquid</pre>	c cyanide blid f sulfide e explosiv o oxidizin p peroxide hid FR 268.45	reactive m pol reactive m pol reaction m OSH ng acid i inf former h inh Zone:	ymerization/monomer A carcinogen Sectious Halation hazard	c strong	logens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Iodine
p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF h sharps q pumpable liquid Layers: [a mul	c cyanide olid f sulfide e explosiv o oxidizin P peroxide hid FR 268.45 Atilayered:	<pre>reactive m pol reactive m pol re</pre>	gwarization/monomer k carcinogen ectious malation hazard c έ	c strong	logens <u>.0</u> % Bromine <u>.0</u> % Chlorine <u>.0</u> % Fluorine <u>.0</u> % Iodine
p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF h sharps q pumpable liquid Layers: [a mul	c cyanide olid f sulfide e explosiv o oxidizin p peroxidd id FR 268.45 Ltilayered: Top Layer	reactive m pol reactive m pol re n OSH ng acid i inf s former h inh Zone: b bi-layered;	gmerization/monomer M carcinogen Vectious malation hazard	c strong describe Br Cl F0 I0 ingle phase	logens .0 % Bromine .0 % Chlorine .0 % Fluorine .0 % Icdine I
<pre>p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF h sharps q pumpable liquid Layers: [a mul Viscosity]</pre>	c cyanide blid f sulfide e explosiv o oxidizin p peroxidd hid FR 268.45 htilayered: Top Layer high(syrup)	reactive m pol reactive m pol re n OSH ug acid i inf s former h inh Zone: b bi-layered; Second Layer ! high (syrup)	gwarization/monomer k carcinogen ectious malation hazard c \$	c strong describe lia Br0 Cl0 F0 I0 ingle phase Bottom Layer high (svrup)	logens <u>.0</u> % Bromine <u>.0</u> % Chlorine <u>.0</u> % Fluorine <u>.0</u> % Iodine I <u>I</u> <u>Color</u> <u>1</u> VAR
p pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF h sharps q pumpable liquid Layers: [a mul Viacosity by	c cyanide olid f sulfide e explosiv o oxidizin P peroxide hid FR 268.45 Ltilayered: Top Layer high (syrup) medium(oil)	reactive m pol reactive m pol reactive m pol ug acid i inf of former h inf 2one: b bi-layered; high (syrup) medium (oil)	ymerization/monomer Wa carcinogen Pectious Halation hazard	c strong describe Br0 Cl0 F0 I0 ingle phase Bottom Layer high (syrup) medium (cil)	logens <u>.0</u> % Bromine <u>.0</u> % Chlorine <u>.0</u> % Fluorine <u>.0</u> % Iodine I <u>I</u> <u>Color</u> <u>1</u> <u>VAR</u> J
<pre>p Pumpable semi-so f flowable powder g gas a aerosol r pressurized liqu d debris per 40 CF h sharps q pumpable liquid Layers: [a mul Viscosity by Layer: </pre>	c cyanide olid f sulfide e explosiv o oxidizin p peroxide hid FR 268.45 	reactive m pol reactive m pol reactive m OSH ug acid i inf p former h inf 2one: b bi-layered;	ymerization/monomer ymerization/monomer A carcinogen Pectious Halation hazard	c strong describe Br0 Cl0 F0 I0 ingle phase Bottom Layer high(syrup) medium(cil) low(water)	logens <u>.0</u> % Bromine <u>.0</u> % Chlorine <u>.0</u> % Fluorine <u>.0</u> % Iodine I <u>I</u> Color <u>1</u> <u>VAR</u> <u>1</u> <u>UAR</u>

Used oil y/n ____ HOC < 1000 ppm ____ HOC > 1000 ppm ____

7. Chemical Composition [M-Marine Pollutant, S-Severe Marine Pollutant, C-Ozone Depleting Substance,

U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen)

	Constituents		Range	às	Units	
	<u> </u>	ETHANOL	 	.01)	2.001	ቼ
	<u> </u>	ISOPROPANOL (<98% CONCENTRATION)	I	.001	20.00	81
	<u> </u>	THIOCYANIC ACID		.001	2.001	81
	<u>.</u>	LITHTUM CHLORIDE	<u>l</u>	.001	1,00	81
	<u>j T</u> ,	SODIUM AZIDE	1	.001	2.00]	8
	<u> </u>	GUANIDINE THIOCYNNATE		2.001	5.001	8
	<u> </u>	AMINOGUANIDINE HYDROCHLORIDE	1	.00‡	5.001	8
		INERT INGREDIENTS	I	30.001	30.001	81
	<u> </u>	PLASTICS		75.001	95.001	81
Other	:					
8. I	s the wastestream being imp	corted into the USA?	Yes No_X			
9. D	ons the wastestream contain	PCBs regulated by 40CFR?	Yes No X			
P	CB Concentration	00 ppm				
10. I	s the wastestream subject (to the Marine Pollutant Regulations?	Yes No X			
11. I	s the wastestream from an :	industry regulated under Benzene NESHAP?	Yes No X			
I	f yes:					
	Is the wastestream subject	ct to Notification/Control Requirements?	Yes No X			
	Benzene Concentration			00 ppm		
	Does it contain >= 10% wa	ater?	Yes NoX			
	What is the TAB at your :	facility?	.00	Ng/Yr		
12. I	s the wastestream subject (to RCRA subpart CC controls?	Yes No_X	1		
	Volatile Organic Concent:	ration		00 ppmw		
	CC Approv	ed Analytical Method?	Yes No_X			
	Generator	Knowledge?	Yes No X			
13. 1	s the wastestream from a C	ERCLA or state mandated cleanup?	Yes No X			

14. Container Information : Packaging:

٥ 8

551H2 Type/Size: DF 55 GAL OPEN HEAD PLASTIC DRUM

Type/Size:

Shipping Frequency: Units 10.00 Per Day Per Week Per Month Per Qtr Per Year X One Time UOM _____DRUMS DESCRIPTION: _____

15. Additional Information :

16. Product Reclaim

Does Generator want material back (TOLL)? Yes No

If Yes, what is the Generator's product specification?

WASTESTREAM INFORM	ATION	PROFILE
--------------------	-------	---------

Constituents	Range	Units	
APHA Color Other			
Is the waste: grain _ or synthetic _ Ethanol? \$D	DA Formula N o.		
Have TTB taxes been paid on the <u>contained</u> ethanol and	eligible for rebate?		
Transportation Provided By: Gener	ator Other		
Returned in:Bulk (T/TT/CISO)	Drums Other		
Describe the application for the solvent:	_		
Additional Information:			

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

	Name(Print or Type)	L HOILE	Date
Signature on File		Haz. Waste Systems Spe	cialist
	Signature	Title	

If approved for management, that has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

	1				Disposal Code
Invoice Address	3 3	OUISVILLE, KY OFFICE OFFICE	LOUISVILLE	<u> KY</u> ST	001 004
Zeolia ES TSDE remes	sted Technology re	miested Generator	No.583256 Generato	T BPA ID NO. KYD	000830851
L. Generator Name UNI	IVERSITY OF KENTUCKY		Generator Sta	ite No.	· · · · · · · · · · · · · · · · · · ·
Address ENVIRONMEN	TAL MGMT 35	5 COOPER DR. FACILITY	State 7	astestream No.	
City LEXINGTON		State KY	Country US	ZIP 40506 0	490
NAICS(SIC) Code 82	<u>61131</u>	Source G22 C	Drigin 1 Form <u>W219</u>	System Type	
. Waste Name ORGANI	C ACIDS UK805		 Гар с	or Waste Area	
3. Process Generating	y Waste				
consolidation of a	acids				
1. Shipping Name WAST	TE CORROSIVE LIQUIDS, F	LAMMABLE, n.o.s.			
Hazard Class 8	UN/NA No. UN2920 PG II	Sub Haz (3)	RQ amt 100 lb Wast	.e. Y PIH: N IH: N	DWW:N P:N
Q Des: 1,D001		_	2.D002		
OOT Des: 1.SULFURIC	ACID		2.		
. Waste Codes D001	D002 D007 D013	D022 F002 F003			
Wastewater	Non Wastewater X	Sub Category D001-IL, F00:	3-NA		Mix: N Sol: N
			·		
5. Physical and chem	ical properties:				
- E	Specific Gravit	ty Flash Point(F)	Solids		
a X < 2	- a. ≺,8	a < 80	0 – 0% ສເ	uspended 0 -	0 % ash
2 - 5	b .8 - 1.0	b x 80 - 100	0 - 0% se	ettleable 0 -	0 % water solubilit
 c 5-9	c 1,0	. c 100 - 140	0 - 0% di	issolved 0 -	0 BTU/1b
1 9 - 12.5	d 1.0 - 1.2	d 140 - 200			
e > 12.5	e > 1,2	e > 200		Free Liquid 0 -	0 %
exact	exact	f no flash	exact	VOC 0 -	0 %
Physical State		Hazardous Characteria	stics	c	dor
s solid	a air rea	active r rad:	ioactive or NRC regulated	a none	
n semi-solid	w water :	reactive s show	ck sensitive	b mild	
l X liquid	c cyanide	e reactive t temp	p sensitive	c strong	,
o pumpable semi-	solid f sulfide	reactive m poly	vmerization/monomer	describe	
		o 100001/0 pv1.			
f flowable powde:	r e explosi	ive nOSHA	A carcinogen		·
f flowable powde:	r eexplos: ooxidizi	ive nOSHing acid iinfe	A carcinogen ectious	на]	ogens
f flowable powde: g gas a aerosol	r e explos: o oxidiz: p peroxid	ive n OSHi Ing acid i infa le former h inha	A carcinogen ectious alation hazard	Ha] Br0	ogens 0 % Bromine
f flowable powde: g gas a aerosol r pressurized liu	r e explos: o oxidiz: p peroxic	ive n OSHi ing acid i inf: le former h inh: Zone:	A carcinogen actious alation hazard	Haj Br <u>0</u> Cl <u>.0</u>	ogens 0 % Bromine 0 % Chlorine
f flowable powde: g gas a aerosol r pressurized lin d debris per 40	r eexplos: ooxidiz: pperoxid quid CFR 269.45	ive n OSH lng acid i inf; le former h inh; Zone:	A carcinogen ectious alation hazard	Hal Br <u>0</u> - <u></u> Cl <u>0</u> - <u></u> F <u>0</u> - <u></u>	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine
fflowable powder ggas aaerosol rpressurized lin ddebris per 40 f hsharps	r e explos: o oxidiz: p peroxic quid CFR 269,45	ive n OSH Ing acid i infa ie former h inha Zone:	A carcinogen actions alation hazard	Hal Br <u>0</u> - <u></u> Cl <u>0</u> - <u></u> F <u>0</u> - <u></u> I <u>0</u> - <u></u>	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine
f flowable powder f flowable powder g gas a aerosol r pressurized lin d debris per 40 0 h sharps g pumpable liquin	r e explos: o oxidiz: p peroxid quid CFR 268.45	ive n OSH ing acid i infa ie former h inha Zone:	A carcinogen ectious alation hazard	Hal Br Cl F I	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine
f flowable powde: g gas a aerosol r pressurized lid d debris per 40 0 h sharps q pumpable liquid	r e explos: o oxidiz: p peroxid quid CFR 268.45 d ultilavered:	b bi-lavered:	A carcinogen ectious alation hazard	Hal Br <u>0</u> - <u></u> Cl <u>0</u> - <u></u> F <u>0</u> - <u></u> I <u>0</u> - <u></u>	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine
fflowable powde: ggas aaerosol rpressurized lid ddebris per 40 d hsharps qpumpable liquid Layers: am	r eexplos: ooxidiz: pperoxid quid CFR 268.45 d ultilayered:	<pre>b local line line line line line line line lin</pre>	A carcinogen ectious alation hazard c	Hal Br <u>.0</u> Cl <u>.0</u> F <u>.0</u> I <u>.0</u> single phase	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine
fflowable powde: ggas aaerosol rpressurized lid ddebris per 40 d hsharps qpumpable liquid Layers: am	r eexplos: ooxidiz: pperoxid cFR 260.45 d ultilayered: Top Layer	b bi-layered:	A carcinogen ectious alation hazard c	Hal Br Cl F I i single phase Bottom Layer	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine Color
f flowable powde: g gas a aerosol r pressurized lin d debris per 40 0 h sharps q pumpable liquin Layers: a m Viscosity	r e explos: o oxidiz: p peroxid cFR 268.45 d ultilayered: Top_Layer high(syrup)	b Second Layer b high(syrup)	A carcinogen ectious alation hazard c : 	Hal Br Cl F I single phase Bottom Layer high (syrup)	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine 1 1 Color VAR
f flowable powde: g gas a aerosol r pressurized lin d debris per 40 0 h sharps q pumpable liquin Layers: a m Viscosity by [r e explos: o oxidiz: p peroxid quid CFR 268.45 d ultilayered: Top Layer high(syrug) medium(oil)	ive n OSH ing acid i info ie former h info Zone: b bi-layered: Second Layer high(syrup) medium(oil)	A carcinogen ectious alation hazard c f 	Hal Br0 Cl0 F0 I0 single phase Bottom Layer high(syrup) medium(oil)	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine Color <u>VAR</u>
f flowable powde: f flowable powde: g gas a aerosol r pressurized lin d debris per 40 0 h sharps q pumpable liquin Layers: a m Viscosity by [Layer: [r eexplos: ooxidiz: pperoxid cFR 269.45 d ultilayered: high(syrup) nedium(oil) low(water)	ive n OSH ing acid i inf ie former h inh Zone: b bi-layered: Second Layer high(syrup) how(water)	A carcinogen ectious alation hazard c 	Hal Br Cl F I single phase Bottom Layer high (syrup) medium (oil) low (water)	ogens 0 % Bromine 0 % Chlorine 0 % Fluorine 0 % Iodine 1 1 Color 1 VAR 1

-

Used oil y/n ____ HOC < 1000 ppm ____ HOC > 1000 ppm ____

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,

U-Underlying Hazardous Constituent, B-Benzene NESHAP, T-TRI Chemical, C=OSHA Carcinogen]

Co	astituents	Ranges	Units	
E	T, AMMONIUM CHLORIDE		20.00	ŝ
1	T,U, CHLOROFORM	.00	20.00	ŝ
	T, U, METHYLENE CHLORIDE	.00	20.00	¥
	T, FORMIC ACID, <80%	1 .00	20.00	\$
	T, HYDROCHLORIC ACID SOLUTION	00, 00	20.00	ŧ
<u> </u>	T, ISOPROPYL ALCOHOL	.00	30,00]	ş
l	T, SILVER CHLORIDE	.00	20.00	\$
1	WATER	40.00	70.00	ŝ
<u> </u>	PHOSPHORIC ACID SOLUTION (85% IN WATER)	.00]	20.00	ક્રે
	ACETIC ACID (10-50% IN WATER)	.00	20.00	읗
 	T, SULFURIC ACID, <=51%	.00	20.00	ŝ
ther:				
. Is the wastestrea	m being imported into the USA?	Yes No_X		
. Does the wastestr	eam contain PCBs regulated by 40CFR?	Yes No X		
PCB Concentration	.00 ppm			
0. Is the wastestrea	m subject to the Marine Pollutant Regulations?	Yes No <u>_X</u>		
1. Is the wastestrea	m from an industry regulated under Benzene NESHAP?	Yes No X		
If yes:				
Is the wastest	ream subject to Notification/Control Requirements?	Yes No <u>X</u>		
Benzene Concentration		.00 ppm		
Does it contai	n >= 10% water?	Yes <u>NoX</u>		
What is the TA	B at your facility?	<u>.00</u> Mg/Yr		
2. Is the wastestrea	m subject to RCRA subpart CC controls?	Yes <u>No X</u>		
Volatile Organ	ic Concentration	.00 ppmw		
	CC Approved Analytical Method?	Yes <u>No X</u>		
	Generator Knowledge?	Yes No X		
3. Is the wastestrea	m from a CERCLA or state mandated cleanup?	Yes No_X		
4. Container Informa	tion :			
ackaging:	Type/Size:			
	Type/Size:			
hipping Frequency: U V	nits <u>.00</u> Per Day _ Per Week _ Per Month _ OM DESCRIPTION:	Per Qtr _ Per Year _ Or	ne Time _	
5. Additional Inform	ation :			

,

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Ronald W. Taylor		9/25/2014	
Name (Print or Type)	Phone	Date	
signature on File Regular Wight	Environmental Title	<u>Affairs Complia</u>	nce Manager

If approved for management, what has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.