UNIVERSITY OF KENTUCKY
Purchasing Division

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

UNIVERSITY OF KENTUCKY
Purchasing Division

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) with corroborating documentation.
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.

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| **Recertification**

__ [redacted] LOUISVILLE, KY OFFICE LOUISVLLE KY |001 | 004 |
|__| **Invoice Addr** **OFFICE** **CITY** **ST**

Veolia ES TSDF requested _____ **Technology requested** _____ **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY **State Wastestream No.** _____

City LEXINGTON **State** KY **Country** US **ZIP** 40546 0490

NAICS(SIC) Code 8221 61131 _____ _____ **Source** G09 **Origin** 1 **Form** W119 **System Type** _____

---

2. Waste Name UK501 METAL SOLUTION/PHOTO CHEMICALS **Lab or Waste Area** _____

3. Process Generating Waste

waste consolidation

4. Shipping Name HAZARDOUS WASTE, LIQUID, n.o.s.

Hazard Class 9 **UN/NA No.** NA3082 **PG** III **RQ amt** 0 **lb** **Waste:** N **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1. 2.

DOT Des: 1. BARIUM 2. LEAD

5. Waste Codes D004 D005 D006 D007 D008 D010 D011

Wastewater _____ **Non Wastewater** X **Sub Category** D006-NA, D008-NA **Mix:** N **Sol:** N

---

6. Physical and chemical properties:

pH

a ___ < 2
b X 2 - 5
c ___ 5 - 9
d ___ 9 - 12.5
e ___ > 12.5
_____ - _____ exact

Specific Gravity

a ___ <.8
b ___ .8 - 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
_____ - _____ exact

Flash Point(F)

a ___ < 80
b ___ 80 - 100
c ___ 100 - 140
d ___ 140 - 200
e ___ > 200
f X no flash _____ - _____ exact

Solids

0 - 0% suspended
0 - 0% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb

Free Liquid 80 -100 %
VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi-solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ___
b mild ___
c strong ___
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase**

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	BRN
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 243436

[redacted]

WASTESTREAM INFORMATION PROFILE

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

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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
T,U,	ARSENIC	.00	5.00	%
T,U,	BARIUM (ELEMENT)	.00	5.00	%
T,U,	CHROMIUM	.00	5.00	%
T,U,	LEAD	.00	5.00	%
T,U,	SELENIUM (ELEMENT)	.00	5.00	%
S,T,U,	CADMIUM (METAL)	.00	5.00	%
	WATER	80.00	90.00	%
T,	HYDROQUINONE, LIQUID	.00	10.00	%
T,U,	SILVER	.00	5.00	%
T,	SULFURIC ACID SOLUTION, 0.1-1% IN WATER	.00	10.00	%

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 Concentration _____.00 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 _____.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

    Volatile Organic Concentration _____.00 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 __ No X

---

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** :

WIP NO. 243436

[redacted]

WASTESTREAM INFORMATION PROFILE

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	[redacted]	[redacted]6/2011
Name (Print or Type)	**Phone**	**Date**
Ronald W. Taylor Digitally signed by Ronald W. Taylor DN: cn=Ronald W. Taylor, o=University of Kentucky, ou=Environmental Management Department, email=rwtayl4@uky.edu, c=US Date: 2011.12.07 11:08:38 -05'00'	Environmental Affairs Compliance Manager	
Signature	**Title**	

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

WIP NO. 243436

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| **Recertification**

__ [redacted] LOUISVILLE, KY OFFICE LOUISVLLE KY |001 | 004 |

|__| **Invoice Address** **OFFICE** **CITY** **ST**

Veolia ES TSDF requested _____ **Technology requested** _____ **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY **State Wastestream No.** _____

City LEXINGTON **State** KY **Country** US **ZIP** 40546 0490

NAICS(SIC) Code 8221 61131 _____ _____ **Source** G09 **Origin** 1 **Form** W319 **System Type** _____

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2. Waste Name CAUSTIC SOLIDS UK804 **Lab or Waste Area** _____

3. Process Generating Waste

consolidation of waste

4. Shipping Name WASTE CORROSIVE SOLIDS, n.o.s.

Hazard Class 8 **UN/NA No.** UN1759 **PG** II **RQ amt** 0 **lb** **Waste:** Y **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1._____ 2._____

DOT Des: 1._____ 2._____

5. Waste Codes NONE

Wastewater _____ **Non Wastewater** X **Sub Category** _____ **Mix:** _ **Sol:** _

---

6. Physical and chemical properties:

pH

a ___ < 2
b ___ 2 - 5
c ___ 5 - 9
d ___ 9 - 12.5
e X > 12.5
_____ - _____ exact

Specific Gravity

a ___ <.8
b ___ .8 - 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
_____ - _____ exact

Flash Point(F)

a ___ < 80
b ___ 80 - 100
c ___ 100 - 140
d ___ 140 - 200
e ___ > 200
f X no flash _____ - _____ exact

Solids

0 - 0% suspended
0 - 0% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb

Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State

s X solid
m ___ semi-solid
l ___ liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ___
b mild ___
c strong ___
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	WHT
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 244876

[redacted]

WASTESTREAM INFORMATION PROFILE

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

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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
	POTASSIUM HYDROXIDE, SOLID	.00	100.00	%
	SODIUM HYDROXIDE, SOLID (DRY, FLAKE, BEAD OR GRANULAR)	.00	100.00	%

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 Concentration .00 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 .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
    Volatile Organic Concentration .00 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 __ No X

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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** :

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 [redacted] [redacted]6/2011

Name(Print or Type) **Phone** **Date**

Ronald W. Taylor
Digitally signed by Ronald W. Taylor
DN: cn=Ronald W. Taylor, o=University of Kentucky, ou=Environmental Management Department, email=rwtay44@uky.edu, c=US
Date: 2011.12.07 16:58:50 -05'00'

Environmental Affairs Compliance Manager

Signature **Title**

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

WIP NO. 244876

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| **Recertification**

__ [redacted] LOUISVILLE, KY OFFICE LOUISVLLE KY |001 | 004 |

|__| **Invoice Address** **OFFICE** **CITY** **ST**

Veolia ES TSDF requested _____ **Technology requested** _____ **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY **State Wastestream No.** _____

City LEXINGTON **State** KY **Country** US **ZIP** 40546 0490

NAICS(SIC) Code 8221 61131 _____ _____ **Source** G09 **Origin** 1 **Form** W110 **System Type** _____

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2. Waste Name UK803 ORGANIC CAUSTIC **Lab or Waste Area** _____

3. Process Generating Waste

waste consolidation

4. Shipping Name WASTE CORROSIVE LIQUID, BASIC, ORGANIC,n.o.s. _____

Hazard Class 8 **UN/NA No.** UN3267 **PG** II **RQ amt** 0 **lb** **Waste:** Y **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1. _____ 2. _____

DOT Des: 1. ETHANOL 2. SODIUM HYDROXIDE

5. Waste Codes D001 D002 _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Wastewater _____ **Non Wastewater** X **Sub Category** D001-IL **Mix:** N **Sol:** N

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6. Physical and chemical properties:

pH	**Specific Gravity**	**Flash Point(F)**	**Solids**	
a ___ < 2	a ___ <.8	a ___ < 80	0 - 0% suspended	0 - 0 % ash
b ___ 2 - 5	b ___ .8 - 1.0	b X 80 - 100	0 - 0% settleable	0 - 0 % water solubility
c ___ 5 - 9	c ___ 1.0	c ___ 100 - 140	0 - 0% dissolved	0 - 0 BTU/lb
d ___ 9 - 12.5	d ___ 1.0 - 1.2	d ___ 140 - 200		
e X > 12.5	e ___ > 1.2	e ___ > 200	**Free Liquid**	0 - 0 %
_____ - _____ exact	_____ - _____ exact	f ___ no flash _____ - _____ exact	**VOC**	0 - 0 %

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 ___
l X liquid	c ___ cyanide 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 hazard	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
q ___ pumpable liquid			

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	**Color**
Viscosity	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
by	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
Layer:	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 243643

[redacted]

WASTESTREAM INFORMATION PROFILE

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

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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
	ETHYL ALCOHOL	10.00	40.00	%
	SODIUM HYDROXIDE, SOLUTION	60.00	90.00	%

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 Concentration .00 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 .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
    Volatile Organic Concentration .00 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 __ No X

---

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** :

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 [redacted] 12/6/2011

Name(Print or Type) **Phone** **Date**

Ronald W. Taylor
Digitally signed by Ronald W. Taylor
DN: cn=Ronald W. Taylor, o=University of Kentucky, ou=Environmental Management Department, email=rwtayl4@uky.edu, c=US
Date: 2011.12.07 16:55:47 -05'00'

Environmental Affairs Compliance Manager

Signature **Title**

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

WIP NO. 243643

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| **Recertification**

__ [redacted] LOUISVILLE, KY OFFICE LOUISVLLE KY |001 | 004 |

|__| **Invoice Address** **OFFICE** **CITY** **ST**

Veolia ES TSDF requested _____ **Technology requested** _____ **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY **State Wastestream No.** _____

City LEXINGTON **State** KY **Country** US **ZIP** 40546 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 Generating Waste

waste consolidation

4. Shipping Name WASTE CORROSIVE LIQUIDS, n.o.s. _____

Hazard Class 8 **UN/NA No.** UN1760 **PG** II **RQ amt** 0 **lb** **Waste:** Y **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1._____ 2._____

DOT Des: 1._____ 2._____

5. Waste Codes D002 D007 D011 _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Wastewater _____ **Non Wastewater** X **Sub Category** _____ **Mix:** N **Sol:** N

---

6. Physical and chemical properties:

pH

a X < 2
b ___ 2 - 5
c ___ 5 - 9
d ___ 9 - 12.5
e ___ > 12.5
_____ - _____ exact

Specific Gravity

a ___ <.8
b ___ .8 - 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
_____ - _____ exact

Flash Point(F)

a ___ < 80
b ___ 80 - 100
c ___ 100 - 140
d ___ 140 - 200
e ___ > 200
f X no flash _____ - _____ exact

Solids

0 - 0% suspended
0 - 0% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb

Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi-solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ___
b mild ___
c strong ___
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	**Color**
Viscosity	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
by	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
Layer:	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 243619

[redacted]

WASTESTREAM INFORMATION PROFILE

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
T,	AMMONIUM CHLORIDE	.00	20.00	%
T,U,	CHROMIUM	.00	1.00	%
T,	HYDROCHLORIC ACID SOLUTION	.00	20.00	%
T,	SILVER CHLORIDE	.00	20.00	%
	WATER	80.00	90.00	%
	PHOSPHORIC ACID SOLUTION (85% IN WATER)	.00	20.00	%
T,	SULFURIC ACID, <=51%	.00	20.00	%

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 Concentration .00 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 .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
    Volatile Organic Concentration .00 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 __ No X

---

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** :

WIP NO. 243619

[redacted]

WASTESTREAM INFORMATION PROFILE

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	[redacted]	[redacted]6/2011
Name (Print or Type)	**Phone**	**Date**
Ronald W. Taylor Digitally signed by Ronald W. Taylor DN: cn=Ronald W. Taylor, o=University of Kentucky, ou=Environmental Management Department, email=rwtayl4@uky.edu, c=US Date: 2011.12.07 16:46:01 -05'00'	Environmental Affairs Compliance Manager	
Signature	**Title**	

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

WIP NO. 243619

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| **Recertification**

__ [redacted] LOUISVILLE, KY OFFICE LOUISVLLE KY |001 | 004 |

|__| **Invoice Address** **OFFICE** **CITY** **ST**

Veolia ES TSDF requested ____ **Technology requested** _____ **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** _____

Address 355 COOPER DR FACILITY **State Wastestream No.** _____

City LEXINGTON **State** KY **Country** US **ZIP** 40506 ____

NAICS(SIC) Code 8221 61131 _____ _____ **Source** G22 **Origin** 1 **Form** W105 **System Type** _____

---

2. Waste Name ACID WASTE - SULFURIC & NITRIC <5% **Lab or Waste Area** _____

3. Process Generating Waste

lab waste accumulation _____

4. Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, n.o.s.

Hazard Class 8 **UN/NA No.** UN3264 **PG** II **RQ amt** 100 **lb** **Waste:** Y **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1.D002 2.

DOT Des: 1.NITRIC ACID, NOT MORE THAN 20% 2.SULFURIC ACID

5. Waste Codes D002

Wastewater ____ **Non Wastewater** X **Sub Category** **Mix:** Y **Sol:** Y

---

6. Physical and chemical properties:

pH

a ___ < 2
b ___ 2 - 5
c ___ 5 - 9
d ___ 9 - 12.5
e ___ > 12.5
1.0- 3.0 exact

Specific Gravity

a ___ <.8
b ___ .8 - 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
- exact

Flash Point(F)

a ___ < 80
b ___ 80 - 100
c ___ 100 - 140
d ___ 140 - 200
e ___ > 200
f X no flash - exact

Solids

0 - 0% suspended
0 - 0% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb
Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State

a ___ aerosol
c ___ cylinder
d ___ debris per 40 CFR 268.45
e ___ debris per O.Reg.347
b ___ filter
f ___ flowable powder
g ___ gas
l ___ limited quantity
l X liquid
r ___ pressurized liquid
q ___ pumpable liquid
p ___ pumpable semi-solid
m ___ semi-solid
h ___ sharps
n ___ small inner containers
s ___ solid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ____
b mild ____
c strong ____
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

WIP NO. 1103606

[redacted]

WASTESTREAM INFORMATION PROFILE

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	**Color**
Viscosity	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
by	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
Layer:	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	
	___ gas	___ gas	___ gas	

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**
	WATER	75.00	85.00	%
T,	NITRIC ACID (<=20%)	.00	5.00	%
T,	SULFURIC ACID, <=51%	15.00	20.00	%

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 Concentration .00 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 .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
    Volatile Organic Concentration .00 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 __ No X

14. **Container Information** :

Packaging: 551H1 Type/Size: DF 55 GAL CLOSED HEAD PLASTIC DM
_____ Type/Size: __ _____

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

15. **Additional Information** :

WIP NO. 1103606

[redacted]

WASTESTREAM INFORMATION PROFILE

16. Product Reclaim

Does Generator want material back (TOLL)? Yes _ 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 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:

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	[redacted]	Jun 21, 2022
Name(Print or Type)	**Phone**	**Date**
Brian Butler	Hazardous Waste System Specialist	
Signature	**Title**	

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

WIP NO. 1103606

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| **Recertification**

__ [redacted] LOUISVILLE, KY OFFICE LOUISVILLE KY |001 | 004 |

|__| **Invoice Address** **OFFICE** **CITY** **ST**

Veolia ES TSDF requested _____ **Technology requested** _____ **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY **State Wastestream No.** _____

City LEXINGTON **State** KY **Country** US **ZIP** 40546 0490

NAICS(SIC) Code 8221 61131 _____ _____ **Source** G22 **Origin** 1 **Form** W219 **System Type** _____

---

2. Waste Name NITRIC WITH ORGANICS UK807 **Lab or Waste Area** _____

3. Process Generating Waste

consolidation of nitrics/organics

4. Shipping Name WASTE CORROSIVE LIQUIDS, FLAMMABLE, n.o.s. _____

Hazard Class 8 **UN/NA No.** UN2920 **PG** II **Sub Haz** (3) **RQ amt** 0 **lb** **Waste:** Y **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1. _____ 2. _____

DOT Des: 1. NITRIC ACID 2. ACETONE

5. Waste Codes D001 D002 F003 _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Wastewater _____ **Non Wastewater** X **Sub Category** D001-IL, F003-NA **Mix:** N **Sol:** N

---

6. Physical and chemical properties:

pH

a X < 2
b ___ 2 - 5
c ___ 5 - 9
d ___ 9 - 12.5
e ___ > 12.5
_____ - _____ exact

Specific Gravity

a ___ <.8
b ___ .8 - 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
_____ - _____ exact

Flash Point(F)

a ___ < 80
b X 80 - 100
c ___ 100 - 140
d ___ 140 - 200
e ___ > 200
f ___ no flash _____ - _____ exact

Solids

0 - 0% suspended 0 - 0 % ash
0 - 0% settleable 0 - 0 % water solubility
0 - 0% dissolved 0 - 0 BTU/lb

Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi-solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ___
b mild ___
c strong ___
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 244890

[redacted]

WASTESTREAM INFORMATION PROFILE

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
U,	ACETONE	5.00	70.00	%
T,	NITRIC ACID (>20% BUT <65%)	.00	15.00	%
	WATER	15.00	90.00	%

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 Concentration .00 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 .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
    Volatile Organic Concentration .00 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 __ No X

---

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** :

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 [redacted] 12/6/2011

Name (Print or Type) **Phone** **Date**

Ronald W. Taylor Digitally signed by Ronald W. Taylor DN: cn=Ronald W. Taylor, o=University of Kentucky, ou=Environmental Management Department, email=rwtayl4@uky.edu, c=US Date: 2011.12.09 13:41:45 -05'00'

Environmental Affairs Compliance Manager

Signature **Title**

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

WIP NO. 244890

WASTESTREAM INFORMATION PROFILE

Disposal Code

| | **Recertification**

| | **Invoice Address** [redacted] | LOUISVILLE, KY OFFICE **OFFICE** | LOUISVILLE **CITY** | KY **ST** | 001 \| 004

Veolia ES TSDF requested ____ **Technology requested** **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.**

Address 355 COOPER DR FACILITY **State Wastestream No.**

City LEXINGTON **State** KY **Country** US **ZIP** 40506

NAICS(SIC) Code 8221 61131 **Source** G22 **Origin** 1 **Form** W105 **System Type**

---

2. Waste Name NITRIC ACID W <260 HG **Lab or Waste Area**

3. Process Generating Waste

consolidation of acids

4. Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, n.o.s.

Hazard Class 8 **UN/NA No.** UN3264 **PG** II **RQ amt** 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

Wastewater ____ **Non Wastewater** X **Sub Category** D006-NA, D008-NA, D009-NR **Mix:** _ **Sol:** _

---

6. Physical and chemical properties:

pH

a X < 2
b ___ 2 5
c ___ 5 9
d ___ 9 - 12.5
e ___ > 12.5
____ - ____ exact

Specific Gravity

a ___ <.8
b ___ .8 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
____ - ____ exact

Flash Point(F)

a ___ < 80
b ___ 80 100
c ___ 100 140
d ___ 140 - 200
e ___ > 200
f X no flash ____ - ____ exact

Solids

0 - 0% suspended
0 - 0% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb

Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none
b mild
c strong
describe

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	____
	___ solid	___ solid	___ solid	

WIP NO. 325138

WASTESTREAM INFORMATION PROFILE

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
	YTTRIUM OXIDE	.00	5.00	%
T,U,	ARSENIC	.00	200.00	M
T,U,	MERCURY	.00	200.00	M
T,	NITRIC ACID (>70%)	.00	5.00	%
	WATER	90.00	99.00	%
T,	CHROMIUM COMPOUNDS LIQUID (CHEM NAME NOT SPECIFIED)	.00	200.00	M
M, T,	LEAD COMPOUNDS (CHEM NAME NOT SPECIFIED)	.00	10.00	M
T,	SILVER COMPOUNDS LIQUID (CHEM NAME NOT SPECIFIED)	.00	200.00	M
T,	BARIUM COMPOUNDS LIQUID & SOLID (CHEM NAME NOT SPECIFIED)	.00	10.00	M
T,	CADMIUM COMPOUNDS LIQUID OR SOLID (CHEM NAME NOT SPECIFIED)	.00	200.00	M
T,	SELENIUM COMPOUNDS LIQUID & SOLID (CHEM NAME NOT SPECIFIED)	.00	200.00	M

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 Concentration _____.00 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 .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
    Volatile Organic Concentration .00 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 __ No X

---

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 :

WIP NO. 325138

16. Product Reclaim

Does Generator want material back (TOLL)? Yes _ 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 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:

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	[redacted]	6/15/2018 | 1:12 PM PDT
Name(Print or Type)	Phone	Date

DocuSigned by: Brian Butler Signature on File E477FA495347423

Signature

Haz. Waste Systems Specialist

Title

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

WIP NO. 325138

WASTESTREAM INFORMATION PROFILE

Disposal Code

| | **Recertification**

| | **Invoice Address** | LOUISVILLE, KY OFFICE (OFFICE) | LOUISVILLE (CITY) | KY (ST) | 001 \| 004 |

Veolia ES TSDF requested ____ **Technology requested** **Generator No.** 583256 **Generator EPA ID No.** KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY **Generator State No.** ____

Address 355 COOPER DR FACILITY **State Wastestream No.** ____

City LEXINGTON **State** KY **Country** US **ZIP** 40506 ____

NAICS(SIC) Code 8221 61131 ____ ____ **Source** G09 **Origin** 1 **Form** W110 **System Type** ____

---

2. Waste Name UK803 ORGANIC CAUSTIC **Lab or Waste Area**

3. Process Generating Waste

consolidation of caustics

4. Shipping Name WASTE FLAMMABLE LIQUIDS, CORROSIVE, n.o.s.

Hazard Class 3 **UN/NA No.** UN2924 **PG** II **Sub Haz** (8) **RQ amt** 100 **lb** **Waste:** Y **PIH:** N **IH:** N **DWW:** N **P:** N

RQ Des: 1.D001 2.D002

DOT Des: 1.ETHANOL 2.SODIUM HYDROXIDE

5. Waste Codes D001 D002 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Wastewater ____ **Non Wastewater** X **Sub Category** D001-IL **Mix:** N **Sol:** N

---

6. Physical and chemical properties:

pH

a ___ < 2
b ___ 2 5
c ___ 5 9
d ___ 9 - 12.5
e X > 12.5
____ - ____ exact

Specific Gravity

a ___ <.8
b ___ .8 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e ___ > 1.2
____ - ____ exact

Flash Point(F)

a ___ < 80
b X 80 100
c ___ 100 140
d ___ 140 - 200
e ___ > 200
f ___ no flash ____ - ____ exact

Solids

0 - 0% suspended
0 - 0% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb

Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ____
b mild ____
c strong ____
describe ____

Halogens

Br .0 .0 % Bromine
Cl .0 .0 % Chlorine
F .0 - .0 % Fluorine
I .0 .0 % Iodine

Layers: | **a** ____ **multilayered:** **b** ____ **bi-layered:** **c** ____ **single phase** |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	____
	___ solid	___ solid	___ solid	

WIP NO. 408287

WASTESTREAM INFORMATION PROFILE

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
	ETHANOL	10.00	40.00	%
	SODIUM HYDROXIDE SOLUTION	60.00	90.00	%

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 Concentration .00 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 .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
   Volatile Organic Concentration .00 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 __ No X

---

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 :

---

16. Product Reclaim

Does Generator want material back (TOLL)? Yes _ 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 for rebate? ___

Transportation Provided By: _ Veolia _ Generator _ Other

Returned in: _ Bulk (_ T/T _ T/C _ ISO) _ Drums _ Other

WIP NO. 408287

WASTESTREAM INFORMATION PROFILE

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	[redacted]	12/18/2018 | 11:01 AM PST
Name(Print or Type)	**Phone**	**Date**
DocuSigned by: Brian Butler E477FA495347423...	Haz. Waste Systems 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.

WIP NO. 408287

WASTESTREAM INFORMATION

☐ Recertification

☐ ADDRESS CITY ST

☐ Manifest from - blank if direct

Disposal Code

VEOLIA TSDF requested _____ Technology requested _____ Generator No. 583258 Generator EPA ID KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY Generator State # _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY State Wastestream # _____

City LEXINGTON State KY Country US Zip 40506 0490

SIC Code 8221 1st NAICS Code _____ 2nd NAICS Code _____ 3rd NAICS Code _____

Source G22 Origin _____ Form W219 System Type _____

2. Waste Name DUAL WASTE RCRA HAZ AND BIO WASTE Lab or Waste _____

3. Process Generating LAB WASTE

4. Shipping Name FLAMMABLE LIQUIDS, TOXIC, n.o.s.

Hazard Class 3 UN/NA Number UN1992 PkgGrp II, III Sub Hzds (II) 6.1 (III) 6.1 RQ Amt (lbs.) 0

RQ Desc:	1.	2.
DOT Desc:	1. ALCOHOL	2.

5. Waste Codes F003-NA, D001-IL

Wastewater (Y/N) N Sub-Category NA - NONE
IL - IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >= 10% TOC PER 261.21(a)(1)

6. Physical and chemical

pH Lo 6	Specific Gravity Lo 0	Flash Point (F) Lo 70	Water Solubility Lo 0	BTU/lb Lo 0
pH Hi 8	Specific Gravity Hi 0	Flash Point (F) Hi 140	Water Solubility Hi 0	BTU/lb Hi 0

Solids:

Suspended Lo 0	Settleable (%) Lo 0	Dissolved (%) Lo 0	% Ash Lo 0	Free Liquid (%) Lo 50
Suspended Hi 0	Settleable (%) Hi 0	Dissolved (%) Hi 0	% Ash Hi 0	Free Liquid (%) Hi 100

Physical State:	Hazardous	Layer
Physical State 1 L - liquid	Haz. Char. 1	Top
Physical State 2	Haz. Char. 2	Middle
Physical State 3	Haz. Char. 3	Bottom

Halogens:

Bromine (%) Lo	Chlorine (%) Lo	Fluorine (%) Lo	Iodine (%) Lo	Color 1 BRN
Bromine (%) Hi	Chlorine (%) Hi	Fluorine (%) Hi	Iodine (%) Hi	Color 2
				Intensity

WID NO 740000

Odor Intensity _____ | Contains Used Oil? No HOC < 1000 ppm __ HOC > 1000 ppm __

Description _____

7. Chemical Composition:

Component	Low	High	%/PPM/PPB
ALCOHOL	35	35	%
ZINC SULFATE	5	5	%
WATER	55	55	%
STOOL	5	5	%

Other	Yes/N		
8. Is the wastestream being imported into the USA?	No	PCB	
9. Does the wastestream contain PCBs regulated by 40 CFR?	No	concentration:	0.00 PPM
10. Is the wastestream subject to the Marine Pollutant Regulations?	No		
11. Is the wastestream subject to Benzene NESHAP?	No	Benzene	
If Yes, is the wastestream subject to Notification and Control Reqs?	No	concentration:	0.00 PPM
Does it contain >= 10% water?	No	TAB at Facility:	0.00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls?	No	Vol. Org. Conc.,	
CC approved analytical method? General Knowledge?		if known:	0.00 PPMV
13. Is the wastestream from a CERCLA or state mandated cleanup?	No		

14. Reclaim Composition: There are no reclaim components

15. Container Information (Identify UN container marking if

Packaging: Bulk ____ Type/Size _____ Bulk Liquid: ____ Type/Size _____ Drum: _____ Type/Size _____

Other: _____

Shipping Frequency: Units _____ Per Month _____ Quarter _____ Year _____ One Time _____ Other _____

16. Additional Information:

Is analytical or an MSDS available that describes the waste? Yes ____ No ____ If Yes, please attach.

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) | PHONE | DATE

SIGNATURE | TITLE

FACILITY

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

WP NO. 740992

TSDF PROCESSING USE ONLY: PPE REQUIRED? No DESCRIBE: _____

WIP NO. 740992

[redacted]

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| Recertification

|__| Invoice Address [redacted] | LOUISVILLE, KY OFFICE (OFFICE) | LOUISVILLE (CITY) | KY (ST) | |001 | 004 |

Veolia ES TSDF requested ____ Technology requested _____ Generator No. 583256 Generator EPA ID No. KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY Generator State No. _____

Address ENVIRONMENTAL MGMT 355 COOPER DR, FACILITY State Wastestream No. _____

City LEXINGTON State KY Country US ZIP 40506 0490

NAICS(SIC) Code 8221 _____ _____ _____ Source G22 Origin 1 Form W219 System Type _____

---

2. Waste Name CLINICAL LAB BULK WASTE Lab or Waste Area _____

3. Process Generating Waste

Testing serum/plasma samples for HIV, Hep C and CMV

4. Shipping Name WASTE FLAMMABLE LIQUIDS, TOXIC, n.o.s. _____

Hazard Class 3 UN/NA No. UN1992 PG II Sub Haz (6.1) RQ amt 0 lb Waste: Y PIH: N IH: N DWW: N P: N

RQ Des: 1. _____ 2. _____

DOT Des: 1. ISOPROPANOL 2. THIOCYANIC ACID

5. Waste Codes D001 _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Wastewater _____ Non Wastewater X Sub Category D001-IL Mix: N Sol: N

---

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids	
a ___ < 2	a ___ <.8	a ___ < 80	0 - 0% suspended	0 - 0 % ash
b ___ 2 - 5	b ___ .8 - 1.0	b ___ 80 - 100	0 - 0% settleable	0 - 0 % water solubility
c ___ 5 - 9	c ___ 1.0	c ___ 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 0 - 0 %
___ - ___ exact	___ - ___ exact	f X no flash ___ - ___ exact		VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi-solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none ___
b mild ___
c strong ___
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: a ____ multilayered: b ____ bi-layered: c ____ single phase

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 69140

[redacted]

WASTESTREAM INFORMATION PROFILE

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
	ETHANOL	.01	2.00	%
T,	ISOPROPANOL (<98% CONCENTRATION)	.00	20.00	%
	THIOCYANIC ACID	.00	2.00	%
	LITHIUM CHLORIDE	.00	1.00	%
T,	SODIUM AZIDE	.00	2.00	%
	GUANIDINE THIOCYANATE	2.00	5.00	%
	AMINOGUANIDINE HYDROCHLORIDE	.00	5.00	%
	INERT INGREDIENTS	30.00	30.00	%
	PLASTICS	75.00	95.00	%

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 Concentration .00 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 .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
   Volatile Organic Concentration .00 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 __ No X

14. Container Information :

Packaging: 55H2 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?

WIP NO. 69140

[redacted]

WASTESTREAM INFORMATION PROFILE

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 for rebate? ___

Transportation Provided By: _ [redacted] _ Generator _ Other

Returned in: _ Bulk (_ T/T _ T/C _ ISO) _ 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.

Brian P. Butler _____ [redacted] _____

Name(Print or Type) **Phone** **Date**

Signature on File _____ Haz. Waste Systems Specialist

Signature **Title**

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

WIP NO. 69140

[redacted]

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| Recertification

|__| Invoice Address [redacted] LOUISVILLE, KY OFFICE (OFFICE) LOUISVILLE (CITY) KY (ST) |001 | 004 |

Veolia ES TSDF requested ____ Technology requested _____ Generator No. 583256 Generator EPA ID No. KYD000830851

1. Generator Name UNIVERSITY OF KENTUCKY Generator State No. _____

Address ENVIRONMENTAL MGMT 355 COOPER DR. FACILITY State Wastestream No. _____

City LEXINGTON State KY Country US ZIP 40506 0490

NAICS(SIC) Code 8221 61131 _____ _____ Source G22 Origin 1 Form W219 System Type _____

---

2. Waste Name ORGANIC ACIDS UK805 Lab or Waste Area _____

3. Process Generating Waste

consolidation of acids

4. Shipping Name WASTE CORROSIVE LIQUIDS, FLAMMABLE, n.o.s.

Hazard Class 8 UN/NA No. UN2920 PG II Sub Haz (3) RQ amt 100 lb Waste: Y PIH: N IH: N DWW: N P: N

RQ Des: 1.D001 2.D002

DOT Des: 1.SULFURIC ACID 2. _____

5. Waste Codes D001 D002 D007 D011 D022 F002 F003

Wastewater _____ Non Wastewater X Sub Category D001-IL, F003-NA Mix: N Sol: N

---

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids	
a X < 2	a ___ <.8	a ___ < 80	0 - 0% suspended	0 - 0 % ash
b ___ 2 - 5	b ___ .8 - 1.0	b X 80 - 100	0 - 0% settleable	0 - 0 % water solubility
c ___ 5 - 9	c ___ 1.0	c ___ 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 0 - 0 %
_____ - _____ exact	_____ - _____ exact	f ___ no flash _____ - _____ exact		VOC 0 - 0 %

Physical State

s ___ solid
m ___ semi-solid
l X liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics

a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor

a none _____
b mild _____
c strong _____
describe _____

Halogens

Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: | a ____ multilayered: b ____ bi-layered: c ____ single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by Layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	VAR
	___ medium(oil)	___ medium(oil)	___ medium(oil)	___
	___ low(water)	___ low(water)	___ low(water)	_____
	___ solid	___ solid	___ solid	

WIP NO. 244880

[redacted]

WASTESTREAM INFORMATION PROFILE

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
T,	AMMONIUM CHLORIDE	.00	20.00	%
T,U,	CHLOROFORM	.00	20.00	%
T,U,	METHYLENE CHLORIDE	.00	20.00	%
T,	FORMIC ACID, <80%	.00	20.00	%
T,	HYDROCHLORIC ACID SOLUTION	.00	20.00	%
T,	ISOPROPYL ALCOHOL	.00	30.00	%
T,	SILVER CHLORIDE	.00	20.00	%
	WATER	40.00	70.00	%
	PHOSPHORIC ACID SOLUTION (85% IN WATER)	.00	20.00	%
	ACETIC ACID (10-50% IN WATER)	.00	20.00	%
T,	SULFURIC ACID, <=51%	.00	20.00	%

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 Concentration .00 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 .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
   Volatile Organic Concentration .00 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 __ No X

---

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** :

WIP NO. 244880

[redacted]

WASTESTREAM INFORMATION PROFILE

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 [redacted] 9/25/2014

Name(Print or Type) Phone Date

Signature on File Ronald W Taylor Environmental Affairs Compliance Manager

Signature Title

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