



ESHID-602439

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Date: **MAR 06 2017**
Symbol: EPC-DO: 17-095
LA-UR: 17-21107
Locates Action No.: N/A

Mr. John E. Kieling
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Subject: Notification of Resolved Off-site Shipment Discrepancy

Dear Mr. Kieling:

On November 9, 2016, the Permittees provided the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) an email notification which served as the three day notice per Permit Section 2.4.7(4). Permit Section 2.4.7(4) which states the Permittees shall notify the NMED-HWB in writing within three days of receipt of a notice of a waste not matching the pre-approved waste analysis certification or accompanying waste manifest from the receiving facility.

The purpose of this letter is to follow up with the NMED-HWB regarding the past waste characterization discrepancy and provide a summary of the discrepancy and corrective actions.

The Permittees shipped a regulated liquid waste container W830372 to Veolia ES Technical Solutions, LLC in Colorado on September 29, 2016 and the shipment was received on October 5, 2016. The manifest was returned to the Permittees thereafter without any discrepancies. In accordance with normal operations at the Treatment Storage and Disposal Facility (TSDF) the pH levels were verified and measured at 2.22. On November 8, 2016, the Permittees received a notification from Veolia ES Technical Solutions, LLC stating that the pH of container (W830372) was 2.22, however the waste profile indicated a pH of >12.5. Additional information is provided in Enclosed 1.

LANL has evaluated the waste characterization discrepancy and enclosed a discrepancy summary and corrective actions. Also enclosed are the Waste Profile Forms (WPF) related to the discrepancy. The waste

Mr. John Kieling
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was originally shipped out as WPF 42757 (Enclosure 3) and then corrected in WPF 41866 (Enclosure 2) waste stream.

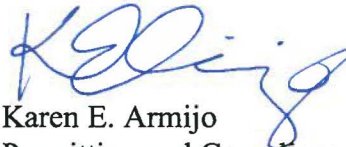
If you have comments or questions regarding this discrepancy, please contact Karen E. Armijo, NA-LA, at (505) 665-7314 or Mark P. Haagenstad, LANS, at (505) 665-2014.

Sincerely,



John C. Bretzke
Division Leader

Sincerely,



Karen E. Armijo
Permitting and Compliance Program Manager

JCB/KEA/MPH/PLP:am

- Enclosure (s) 1: Discrepancy Summary and Corrective Actions
2: Waste Profile Form 41866
3: Waste Profile Form 42757

Copy: Laurie King, USEPA/Region 6, Dallas, TX (E-File)
Dave Cobrain, NMED/HWB, Santa Fe, NM (E-File)
Karen E. Armijo, NA-LA, (E-File)
Jody M. Pugh, NA-LA, (E-File)
Michael T. Brandt, ADESH, (E-File)
John C. Bretzke, EPC-DO, (E-File)
Steven J. Singledecker, WM-SVS, (E-File)
Jeffery Lee, DESHF-WFO, (E-File)
Mark P. Haagenstad, EPC-CP, (E-File)
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ENCLOSURE 1

Discrepancy Summary and Corrective Action

EPC-DO: 17-095

LA-UR-17-21107

MAR 06 2017

Date: _____

Discrepancy Summary

On September 20, 2016 the Waste Management Coordinator (WMC) began accumulating waste water from an etching solutions tank located at Technical Area (TA) 22, Los Alamos National Laboratory (LANL). The area and process from which this waste originated produces a combination of sodium hydroxide, ferric chloride, and water from flushing and draining of etching solution tanks. Waste characterization Acceptable Knowledge (AK) provided by the generator indicated that the drum should have contained inorganic liquids, very dilute aqueous liquids containing more than 99% water from recirculating water with sodium hydroxide from a TA-22 etching shop tank. AK and previous screening of this waste stream indicated that it would have a pH of >12.5.

During subsequent fact finding regarding this issue, it was determined that the waste stream produced was predominantly ferric chloride when it was anticipated to only contain sodium hydroxide and water. Thus resulted in a much lower pH than expected. This waste type is an anticipated waste stream from this source and, had pH screening been performed, would have been correctly characterized under Wastes Profile Form (WPF) 41866. The Waste Management Coordinator (WMC) typically tests waste from this process but inadvertently missed this container for confirmation.

On September 29, 2016, LANL shipped container W830372 to Veolia ES Technical Solutions, LLC in Colorado. The shipment was received on October 5, 2016, and the manifest returned to LANL with no discrepancies. LANL received notification on November 8, 2016 that the pH of the waste in this container was at 2.22, however it was inadvertently characterized with a pH of >12.5 (WPF 42757).

The waste item, W830372 contained recirculating water with sodium hydroxide from a TA-22 etching shop tank. A D002 EPA Hazardous Waste Number was applied to the waste, and the WPF showed as having a pH of >12.5. This waste was shipped as UN1824, waste sodium hydroxide solution, 8, II.

Corrective Actions

The following corrective actions were implemented immediately after notification of the discrepancy to preclude a recurrence of the events described in this discrepancy summary:

- Waste shipments from TA-22 were paused until all aqueous liquid waste streams from TA-22 could be screened for pH and validated with existing WPFs. All aqueous liquid waste streams from TA-22 were screened for pH.

In addition, the following corrective actions and additional evaluations are recommended to preclude a recurrence of the events described in this discrepancy summary:

- P409, Waste Management Tools will be updated to require all aqueous hazardous waste undergo pH screening.

- Standing Order, WM-SVS-SO-14-006, WM-SVS Area L and J Pre-Screening Process will be updated until P409 and associated tools are updated to include pH screening requirements.
- Standing Order, WM-SVS-SO-14-006, WM-SVS Area L and J Pre-Screening Process will be revised to require WM-SVS to perform pH screening for waste located at Area L or J and require aqueous waste shipped directly off-site from a generator waste storage area to undergo pH screening.
- LANL will hold formally documented training on the revised pH screening standard.
- LANL will issue a lessons learned regarding the events.

ENCLOSURE 2

Waste Profile Form 41866

EPC-DO: 17-095

LA-UR-17-21107

MAR 06 2017

Date: _____



WASTE PROFILE FORM COVER SHEET

41866
APPROVED

Waste Characterization Information

Waste Stream ID: 41866
WPF ID (Legacy):
Waste Stream Name: SPENT FERRIC CHLORIDE ETCHANT AND WATER.
Expiration Date: 07/29/2017
Waste Type: Hazardous Waste
Radiological Type: Non Radioactive
RCRA Category: RCRA Solid Hazardous
Ancillary Types:
Primary Composition: Aqueous Solutions
Composition (other): WATER;FERRIC CHLORIDE;HCL
EPA Codes: D002 D007
Waste Acceptance:
EPA Form Code: W105
Inorganic Liquids: Acidic aqueous wastes less than 5% acid (diluted but pH <2)
EPA Source Code: G04
Wastes from Ongoing Production and Service Processes: Etching (using caustics or other methods to remove layers or partial layers)

Waste Generation Estimates

YEAR	VOLUME
2018	600.00 gal
2017	600.00 gal
2016	600.00 gal
2015	600.00 gal



WASTE PROFILE FORM



Reference Number	
WCATS ID 41866	Legacy WPF ID

Generator's Z Number 088282	Waste Generator's Name (print) MILLS, WILLIAM	WMC's Z Number 217511	WMC's Name (print) LEE, JEFFREY	Generator's Phone 5056675401	
Generator's Mail Stop P950	Waste Generating Group DET-3	Waste Stream Technical Area 22	Building 000091	Room B111	WMC Phone 5056674537

Waste Accumulation (check only one)

- Satellite Accumulation Area
- Less-than-90 Days Storage Area
- TSDF
- Universal Waste Storage Area
- Used Oil for Recycle

Site No: _____
Site No: _____
Site No: _____
Site No: _____

- PCBs Storage Area
- NM Special Waste
- Rad Staging Area
- Rad Storage Area
- None of the Above

Site No: _____
Site No: _____
Site No: _____
Site No: _____

ER Use Only

- ER Site

SWMU/AOC No. _____

Method of Characterization (check as many as apply)

- Analysis/Documents Attached
- Chemical/Physical Analysis
- Radiological Analysis
- PCB Analysis
- Acceptable Knowledge Documentation
- Material Safety Data Sheet (MSDS)

- Attached
- Attached
- Attached
- Attached
- Attached
- Attached

Sample No: WST22-15-98287
Sample No: _____
Sample No: _____
Sample No: _____

Documentation No: _____

Ferric Chloride Etchants MSDS

Section 1 - Waste Prevention/Minimization (answer all questions)

Can hazard segregation, elimination, or material substitution be used?	<input type="checkbox"/> Yes (provide comments)	<input checked="" type="checkbox"/> No
Can any of the materials in the waste stream be recycled or reused?	<input type="checkbox"/> Yes (provide comments)	<input checked="" type="checkbox"/> No
Has waste minimization been incorporated into procedures or other process controls?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No (provide comments)
Can this waste be generated outside a RCA?	<input type="checkbox"/> Yes (provide comments)	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Comments:

Section 2 - Chemical and Physical Information

Waste Type (check only one) <input type="checkbox"/> Unused/Unspent Chemical <input checked="" type="checkbox"/> Process Waste/Spent Chemical/Other	Waste Category (check all that apply) <input checked="" type="checkbox"/> Inorganic <input type="checkbox"/> Organic <input type="checkbox"/> Solvent (see instructions) <input type="checkbox"/> Degreaser (see instructions) <input type="checkbox"/> Dioxin <input type="checkbox"/> Electroplating <input type="checkbox"/> Treated Hazardous Waste or Residue <input type="checkbox"/> No-Longer Contained-In <input type="checkbox"/> Explosive Process <input type="checkbox"/> Infectious/Medical <input type="checkbox"/> Biological <input type="checkbox"/> Beryllium <input type="checkbox"/> Empty Container (see instructions) <input type="checkbox"/> Battery (see instructions) Asbestos <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable PCB Source Concentration <input type="checkbox"/> PCB < 50 ppm <input type="checkbox"/> PCB >= 50 - < 500 ppm <input type="checkbox"/> PCB >= 500 ppm <input type="checkbox"/> Hazardous Waste Contaminated Soil <input type="checkbox"/> Untreated Hazardous Debris <input type="checkbox"/> Commercial Solid Waste <input type="checkbox"/> Other [Describe] Other:	Waste Source (check only one) Waste Source A <input type="checkbox"/> Decon <input checked="" type="checkbox"/> Materials Processing/Production <input type="checkbox"/> Research/Development/Testing <input type="checkbox"/> Scheduled Maintenance <input type="checkbox"/> Housekeeping - Routine <input type="checkbox"/> Spill Cleanup - Routine <input type="checkbox"/> Sampling - Routine Monitoring <input type="checkbox"/> Other (describe) Waste Source B <input type="checkbox"/> Abatement <input type="checkbox"/> Construction/Upgrades <input type="checkbox"/> Demolition <input type="checkbox"/> Decon/Decom <input type="checkbox"/> Investigative Derived <input type="checkbox"/> Orphan/Legacy <input type="checkbox"/> Remediation/Restoration <input type="checkbox"/> Repacking (secondary) <input type="checkbox"/> Unscheduled Maintenance <input type="checkbox"/> Housekeeping (non-routine) <input type="checkbox"/> Spill Cleanup (non-routine) <input type="checkbox"/> Non-Petroleum Tanks <input type="checkbox"/> Petroleum Tanks <input type="checkbox"/> Other (describe) Other:	Waste Matrix (check only one) Gas <input type="checkbox"/> ≤ 1.5 Atmospheres Pressure <input type="checkbox"/> > 1.5 Atmospheres Pressure <input type="checkbox"/> Liquefied Compressed Gas Liquid <input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Non-Aqueous <input type="checkbox"/> Suspended Solids/Aqueous <input type="checkbox"/> Suspended Solids/Non-Aqueous Solid <input type="checkbox"/> Powder/Ash/Dust <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Absorbed/Solidified Liquid <input type="checkbox"/> Debris Matrix Type (check only one) <input checked="" type="checkbox"/> Homogeneous <input type="checkbox"/> Heterogeneous Estimate Annual Volume (m³):
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Section 3 - Process and Waste Description

Process Description:
SPENT FERRIC CHLORIDE ETCHANT FROM RENSING AND DRAINING OF THE ETCHING MACHINE.

Waste Description:
FERRIC CHLORIDE AND WATER

Section 4 - Characteristics

Ignitability (check only one) <input type="checkbox"/> < 73 F (< 22.8 C) <input type="checkbox"/> 73 - 99 F (22.8 - 37.2 C) <input type="checkbox"/> 100 - 139 F (37.8 - 59.4 C) <input type="checkbox"/> 140 - 200 F (60.0 - 99.3 C) <input type="checkbox"/> > 200 (> 99.3 C) <input type="checkbox"/> EPA Ignitable - Non-liquid <input type="checkbox"/> DOT Flammable Gas <input type="checkbox"/> DOT Oxidizer <input checked="" type="checkbox"/> Not Ignitable	Corrosivity (check only one) (pH) <input checked="" type="checkbox"/> <= 2.0 <input type="checkbox"/> 2.1 - 4.0 <input type="checkbox"/> 4.1 - 6.0 <input type="checkbox"/> 6.1 - 9.0 <input type="checkbox"/> 9.1 - 12.4 <input type="checkbox"/> >= 12.5 <input type="checkbox"/> Liquid Corrosive to Steel <input type="checkbox"/> Non-aqueous	Reactivity (check as many as apply) <input type="checkbox"/> RCRA Unstable <input type="checkbox"/> Water Reactive <input type="checkbox"/> Cyanide Bearing <input type="checkbox"/> Sulfide Bearing <input type="checkbox"/> Pyrophoric <input type="checkbox"/> Shock Sensitive <input type="checkbox"/> Explosive [Specify DOT Div.] <input checked="" type="checkbox"/> Non-Reactive	Boiling Point (check only one) <input type="checkbox"/> <= 95 F (<= 35 C) <input checked="" type="checkbox"/> >95 F (> 35 C) <input type="checkbox"/> Not Applicable
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Identify for all contaminants listed	Characterization Method				Concentration of Contaminants		Regulatory Limit
	AK	TCLP	Total	None or Non-detect	Minimum	Maximum	
Toxicity Characteristic Metals							
(10,000 ppm = 1%)							
Arsenic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 to	0.0556 ppm	5.0 ppm
Barium	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 to	0.16 ppm	100.0 ppm
Cadmium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	1.0 ppm
Chromium	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 to	9.34 ppm	5.0 ppm
Lead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Mercury	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.2 ppm
Selenium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	1.0 ppm
Silver	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 to	0.0331 ppm	5.0 ppm
Toxicity Characteristic Organics							
Benzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
Carbon tetrachloride	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
Chlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	100.0 ppm
Chloroform	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	6.0 ppm
Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
p-Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
m-Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
o-Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	7.5 ppm
1,2-Dichloroethane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
1,1-Dichloroethylene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.7 ppm
2,4-Dinitrotoluene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.13 ppm
Hexachlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.13 ppm
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
Hexachloroethane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	3.0 ppm
Methyl ethyl ketone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
Nitrobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	2.0 ppm
Pentachlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	100.0 ppm
Pyridine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Tetrachloroethylene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.7 ppm
Trichloroethylene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	2.0 ppm
2,4,5-Trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	400.0 ppm
Vinyl chloride	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.2 ppm
Herbicides and Pesticides							
Chlordane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.03 ppm
2,4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	10.0 ppm
Endrin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.02 ppm
Heptachlor (& its epoxide)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.008 ppm
Lindane (gamma-BHC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.4 ppm
Methoxychlor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	10.0 ppm
2,4,5-TP (Silvex)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	1.0 ppm
Toxaphene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm

Section 5 - Additional Constituents and Contaminants

Additional Constituents and Contaminants. Please account for 100% of waste. Range should be given within guidelines of individual constituents. List all other constituents (including inerts) not identified above and attach any applicable analysis. No chemical formula allowed in this field. Continue in Section 3 Additional information as necessary. CAS numbers are needed for all chemical constituents, for material without a CAS number, enter "No CAS Number".

CAS No.	Name of constituent	Minimum (ppm)	Maximum (ppm)
7732-18-5	WATER	300000 to	550000
7440-50-8	COPPER	10000 to	30000
7439-89-6	IRON	50000 to	160000
7439-96-5	MANGANESE	100 to	500
7440-23-5	SODIUM	100 to	1100
7440-66-6	ZINC	10 to	50
7429-90-5	ALUMINUM	10 to	40
7440-70-2	CALCIUM	10 to	60
7440-02-0	NICKEL	10 to	40
7439-95-4	Magnesium	10 to	30
7440-09-7	Potassium	10 to	40
7439-98-7	Molybdenum	10 to	30
7440-31-5	Tin	10 to	40
7440-48-4	Cobalt	10 to	30
7705-08-0	Ferric chloride	300000 to	500000
7647-01-0	Hydrochloric acid	10 to	10000
7440-24-6	Strontium	10 to	30
7440-62-2	Vanadium	10 to	30
14808-60-7	Quartz	1 to	100
----	Silicon Dioxide	1 to	100
Total of max. ranges of this section and page 2		125.22 in %	

Additional Information

If additional information is available on the chemical, physical, or radiological character of the waste not covered on this form, provide it below

Section 6 - Work Control Documentation

Do the procedures for this process cover how to manage this waste? Yes No (provide comments)

Do the procedures for this process address controls to prevent changes to waste constituents and concentrations or addition or removal of waste to/from containers? Yes No (provide comments)

Comments:

Section 7 - Packaging and Storage Control

Describe how the waste will be packaged in according to the applicable WAC.
DOT compliant container

Identify the storage management controls that will be used for this waste stream: (check all that apply)

Tamper Indication Devices Limited use locks with log-in for waste Locked cabinet or building Other (describe)

Section 8 - Waste Certification Statements

Waste appears to meet WAC attachment for: HAZ

Waste stream needs exception/exemption for treatment, storage, or disposal.

Waste does not meet the criteria for any known TSDF. (DOE approval is required. Contact the office of the Principle Associate Director for Weapons Programs [PADWP] for assistance.)

Waste Generator Certification: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the waste characterization information on this form is correct and that it meets the requirements of the applicable waste acceptance criteria. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature: WILLIAM MILLS (088282) Date: 07/30/15 08:26 AM

Waste Certifying Official: I have reviewed this form and any associated attachments and the characterization information provided appears to be complete and accurate. I certify, to the best of my knowledge, that the waste characterization information provided by the waste generator meets the requirements of the applicable WAC.

Signature: JEFFREY LEE (217511) Date: 07/30/15 08:46 AM

RCRA Review: I have reviewed this form and any associated attachments and the characterization information provided appears to be complete and accurate. I certify, to the best of my knowledge, that the waste characterization information provided by the waste generator meets the requirements of the applicable WAC.

Signature: ANDY ELICIO (118692) Date: 07/30/15 08:56 AM

Attachment 4 - LDR and UHC

Identify category and presence of any constituents listed below (equal to or above limit).

Non-Wastewater/Wastewater Category (check only one)

- Non Wastewater Wastewater [as defined by 40 CFR 268.2(f)] Lab Pack [40 CFR 268.2(f)] **Sign Certification #1**

Notifications and Certifications - Check the applicable boxes

Generator Requirements:

- This shipment contains hazardous waste contaminated soil that does not meet treatment standards **Sign Certification #2**
 This shipment contains untreated hazardous debris to be treated to 40 CFR 268.45 treatment standards **(No certification)**
 Hazardous wastes (except soil) meeting treatment standards at point of generation **Sign Certification #3**
 Hazardous wastes contaminated soil meeting treatment standards at point of generation **Sign Certification #4**

TSDF or Generator Treatment:

- TSDF treated hazardous debris meeting the alternative treatment standards of 40 CFR 268.45 **Sign Certification #5**
 Generator treated hazardous debris meeting the alternative treatment standards of 40 CFR 268.45 **Sign Certification #6**
 Hazardous wastes contaminated soil treated to 40 CFR 268.49 **Sign Certification #7**
 Wastes or residues from characteristic hazardous waste treatment meeting treatment standards and UTS **Sign Certification #8**
 Wastes or residues from characteristic hazardous waste treatment not meeting UTS **Sign Certification #9**
 Other TSDF wastes meeting the more stringent 40 CFR 268.40 treatment standards to be land disposed **Sign Certification #10**
 Other generator wastes meeting the more stringent 40 CFR 268.40 treatment standards to be land disposed **Sign Certification #11**

Notification of Underlying Hazardous Constituents

(Check the applicable underlying constituents above the concentration levels for D001 through D043 characteristic wastes only)

- No Underlying Hazardous Constituents in this waste stream.**

	Organic Constituents	CASRN	Wastewater Standard (mg/L)	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
<input type="checkbox"/>	Acenaphthene	83-32-9	0.059	3.4	34.0
<input type="checkbox"/>	Acenaphthylene	208-96-8	0.059	3.4	34.0
<input type="checkbox"/>	Acetone	67-64-1	0.28	160.0	1600.0
<input type="checkbox"/>	Acetonitrile	75-05-8	5.6	38.0	380.0
<input type="checkbox"/>	Acetophenone	98-86-2	0.01	9.7	97.0
<input type="checkbox"/>	2-Acetylaminofluorene	53-96-3	0.059	140.0	1400.0
<input type="checkbox"/>	Acrolein	107-02-8	0.29	N/A	N/A
<input type="checkbox"/>	Acrylamide	79-06-1	19.0	23.0	230.0
<input type="checkbox"/>	Acrylonitrile	107-13-1	0.24	84.0	840.0
<input type="checkbox"/>	Aldicarb sulfone	1646-88-4	0.056	0.28	2.8
<input type="checkbox"/>	Aldrin	309-00-2	0.021	0.066	0.66
<input type="checkbox"/>	4-Aminobiphenyl	92-67-1	0.13	N/A	N/A
<input type="checkbox"/>	Aniline	62-53-3	0.81	14.0	140.0
<input type="checkbox"/>	o-Anisidine	90-04-0	0.01	0.66	6.6
<input type="checkbox"/>	Anthracene	120-12-7	0.059	3.4	34.0
<input type="checkbox"/>	Aramite	140-57-8	0.36	N/A	N/A
<input type="checkbox"/>	alpha-BHC	319-84-6	0.00014	0.066	0.66
<input type="checkbox"/>	beta-BHC	319-85-7	0.00014	0.066	0.66
<input type="checkbox"/>	delta-BHC	319-86-8	0.023	0.066	0.66
<input type="checkbox"/>	Barban	101-27-9	0.056	1.4	14.0
<input type="checkbox"/>	Bendiocarb	22781-23-3	0.056	1.4	14.0
<input type="checkbox"/>	Benomyl	17804-35-2	0.056	1.4	14.0
<input type="checkbox"/>	Benz[a]anthracene	56-55-3	0.059	3.4	34.0
<input type="checkbox"/>	Benzal chloride	98-87-3	0.055	6.0	60.0
<input type="checkbox"/>	Benzene	71-43-2	0.14	10.0	100.0
<input type="checkbox"/>	Benzo(b)fluoranthene	205-99-2	0.11	6.8	68.0
<input type="checkbox"/>	Benzo[a]pyrene	50-32-8	0.061	3.4	34.0
<input type="checkbox"/>	Benzo[ghi]perylene	191-24-2	0.0055	1.8	18.0
<input type="checkbox"/>	Benzo[k]fluoranthene	207-08-9	0.11	6.8	68.0
<input type="checkbox"/>	Bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2	72.0
<input type="checkbox"/>	Bis(2-chloroethyl) ether	111-44-4	0.033	6.0	60.0
<input type="checkbox"/>	Bis(2-chloroisopropyl) ether	39638-32-9	0.055	7.2	72.0
<input type="checkbox"/>	Bis(2-ethylhexyl) phthalate	117-81-7	0.28	28.0	280.0
<input type="checkbox"/>	Bromodichloromethane	75-27-4	0.35	15.0	150.0
<input type="checkbox"/>	Bromomethane	74-83-9	0.11	15.0	150.0
<input type="checkbox"/>	4-Bromophenyl phenyl ether	101-55-3	0.055	15.0	150.0
<input type="checkbox"/>	n-Butyl alcohol	71-36-3	5.6	2.6	26.0
<input type="checkbox"/>	Butyl benzyl phthalate	85-68-7	0.017	28.0	280.0
<input type="checkbox"/>	Butylate	2008-41-5	0.042	1.4	14.0
<input type="checkbox"/>	Carbaryl	63-25-2	0.006	0.14	1.4

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<input type="checkbox"/>	Carbendazim	10605-21-7	0.056	1.4	14.0
<input type="checkbox"/>	Carbofuran	1563-66-2	0.006	0.14	1.4
<input type="checkbox"/>	Carbofuran phenol	1563-38-8	0.056	1.4	14.0
<input type="checkbox"/>	Carbon disulfide	75-15-0	3.8	4.8	48.0
<input type="checkbox"/>	Carbon tetrachloride	56-23-5	0.057	6.0	60.0
<input type="checkbox"/>	Carbosulfan	55285-14-8	0.028	1.4	14.0
<input type="checkbox"/>	Chlordane	57-74-9	0.0033	0.26	2.6
<input type="checkbox"/>	p-Chloro-m-cresol	59-50-7	0.018	14.0	140.0
<input type="checkbox"/>	p-Chloroaniline	106-47-8	0.46	16.0	160.0
<input type="checkbox"/>	Chlorobenzene	108-90-7	0.057	6.0	60.0
<input type="checkbox"/>	Chlorobenzilate	510-15-6	0.1	N/A	N/A
<input type="checkbox"/>	Chlorodibromomethane	124-48-1	0.057	15.0	150.0
<input type="checkbox"/>	Chloroethane	75-00-3	0.27	6.0	60.0
<input type="checkbox"/>	2-Chloroethyl vinyl ether	110-75-8	0.062	N/A	N/A
<input type="checkbox"/>	Chloroform	67-66-3	0.046	6.0	60.0
<input type="checkbox"/>	Chloromethane	74-87-3	0.19	30.0	300.0
<input type="checkbox"/>	2-Chloronaphthalene	91-58-7	0.055	5.6	56.0
<input type="checkbox"/>	2-Chlorophenol	95-57-8	0.044	5.7	57.0
<input type="checkbox"/>	Chloroprene	126-99-8	0.057	0.28	2.8
<input type="checkbox"/>	3-Chloropropylene	107-05-1	0.036	30.0	300.0
<input type="checkbox"/>	Chrysene	218-01-9	0.059	3.4	34.0
<input type="checkbox"/>	p-Cresidine	120-71-8	0.01	0.66	6.6
<input type="checkbox"/>	m-Cresol	108-39-4	0.77	5.6	56.0
<input type="checkbox"/>	o-Cresol	95-48-7	0.11	5.6	56.0
<input type="checkbox"/>	p-Cresol	106-44-5	0.77	5.6	56.0
<input type="checkbox"/>	m-Cumenyl methylcarbamate	64-00-6	0.056	1.4	14.0
<input type="checkbox"/>	Cyanide (Amenable)	57-12-5*	0.86	30.0	300.0
<input type="checkbox"/>	Cyanide (Total)	57-12-5	1.2	590.0	5900.0
<input type="checkbox"/>	Cyclohexanone	108-94-1	0.36	0.75	7.5
<input type="checkbox"/>	2,4-D	94-75-7	0.72	10.0	100.0
<input type="checkbox"/>	o,p'-DDD	53-19-0	0.023	0.087	0.87
<input type="checkbox"/>	p,p'-DDD	72-54-8	0.023	0.087	0.87
<input type="checkbox"/>	o,p'-DDE	3424-82-6	0.031	0.087	0.87
<input type="checkbox"/>	p,p'-DDE	72-55-9	0.031	0.087	0.87
<input type="checkbox"/>	o,p'-DDT	789-02-6	0.0039	0.087	0.87
<input type="checkbox"/>	p,p'-DDT	50-29-3	0.0039	0.087	0.87
<input type="checkbox"/>	Di-n-butyl phthalate	84-74-2	0.057	28.0	280.0
<input type="checkbox"/>	Di-n-octyl phthalate	117-84-0	0.017	28.0	280.0
<input type="checkbox"/>	Di-n-propylnitrosamine	621-64-7	0.4	14.0	140.0
<input type="checkbox"/>	Dibenz[a,h]anthracene	53-70-3	0.055	8.2	82.0
<input type="checkbox"/>	Dibenz[a,e]pyrene	192-65-4	0.061	N/A	N/A
<input type="checkbox"/>	1,2-Dibromo-3-chloropropane	96-12-8	0.11	15.0	150.0
<input type="checkbox"/>	1,2-Dibromoethane	106-93-4	0.028	15.0	150.0
<input type="checkbox"/>	Dibromomethane	74-95-3	0.11	15.0	150.0
<input type="checkbox"/>	1,4-Dichlorobenzene	106-46-7	0.09	6.0	60.0
<input type="checkbox"/>	m-Dichlorobenzene	541-73-1	0.036	6.0	60.0
<input type="checkbox"/>	o-Dichlorobenzene	95-50-1	0.088	6.0	60.0
<input type="checkbox"/>	Dichlorodifluoromethane	75-71-8	0.23	7.2	72.0
<input type="checkbox"/>	1,1-Dichloroethane	75-34-3	0.059	6.0	60.0
<input type="checkbox"/>	1,2-Dichloroethane	107-06-2	0.21	6.0	60.0
<input type="checkbox"/>	1,1-Dichloroethylene	75-35-4	0.025	6.0	60.0
<input type="checkbox"/>	trans-1,2-Dichloroethylene	156-60-5	0.054	30.0	300.0
<input type="checkbox"/>	2,4-Dichlorophenol	120-83-2	0.044	14.0	140.0
<input type="checkbox"/>	2,6-Dichlorophenol	87-65-0	0.044	14.0	140.0
<input type="checkbox"/>	1,2-Dichloropropane	78-87-5	0.85	18.0	180.0
<input type="checkbox"/>	trans-1,3-Dichloropropene	10061-02-6	0.036	18.0	180.0
<input type="checkbox"/>	cis-1,3-Dichloropropylene	10061-01-5	0.036	18.0	180.0
<input type="checkbox"/>	Dieldrin	60-57-1	0.017	0.13	1.3
<input type="checkbox"/>	Diethyl phthalate	84-66-2	0.2	28.0	280.0

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<input type="checkbox"/>	Dimethyl phthalate	131-11-3	0.047	28.0	280.0
<input type="checkbox"/>	p-Dimethylaminoazobenzene	60-11-7	0.13	N/A	N/A
<input type="checkbox"/>	2,4-Dimethylphenol	105-67-9	0.036	14.0	140.0
<input type="checkbox"/>	4,6-Dinitro-o-cresol	534-52-1	0.28	160.0	1600.0
<input type="checkbox"/>	1,4-Dinitrobenzene	100-25-4	0.32	2.3	23.0
<input type="checkbox"/>	2,4-Dinitrophenol	51-28-5	0.12	160.0	1600.0
<input type="checkbox"/>	2,4-Dinitrotoluene	121-14-2	0.32	140.0	1400.0
<input type="checkbox"/>	2,6-Dinitrotoluene	606-20-2	0.55	28.0	280.0
<input type="checkbox"/>	Dinoseb	88-85-7	0.066	2.5	25.0
<input type="checkbox"/>	1,4-Dioxane	123-91-1	12.0	170.0	1700.0
<input type="checkbox"/>	Diphenylamine	122-39-4	0.92	13.0	130.0
<input type="checkbox"/>	1,2-Diphenylhydrazine	122-66-7	0.087	N/A	N/A
<input type="checkbox"/>	Disulfoton	298-04-4	0.017	6.2	62.0
<input type="checkbox"/>	Dithiocarbamates (total)	WCATS-001	0.028	28.0	280.0
<input type="checkbox"/>	EPTC	759-94-4	0.042	1.4	14.0
<input type="checkbox"/>	Endosulfan I	959-98-8	0.023	0.066	0.66
<input type="checkbox"/>	Endosulfan II	33213-65-9	0.029	0.13	1.3
<input type="checkbox"/>	Endosulfan sulfate	1031-07-8	0.029	0.13	1.3
<input type="checkbox"/>	Endrin	72-20-8	0.0028	0.13	1.3
<input type="checkbox"/>	Endrin aldehyde	7421-93-4	0.025	0.13	1.3
<input type="checkbox"/>	Ethyl acetate	141-78-6	0.34	33.0	330.0
<input type="checkbox"/>	Ethyl benzene	100-41-4	0.057	10.0	100.0
<input type="checkbox"/>	Ethyl ether	60-29-7	0.12	160.0	1600.0
<input type="checkbox"/>	Ethyl methacrylate	97-63-2	0.14	160.0	1600.0
<input type="checkbox"/>	Ethylene oxide	75-21-8	0.12	N/A	N/A
<input type="checkbox"/>	Famphur	52-85-7	0.017	15.0	150.0
<input type="checkbox"/>	Fluoranthene	206-44-0	0.068	3.4	34.0
<input type="checkbox"/>	Fluorene	86-73-7	0.059	3.4	34.0
<input type="checkbox"/>	Fluoride	16984-48-8	35.0	N/A	N/A
<input type="checkbox"/>	Formetanate hydrochloride	23422-53-9	0.056	1.4	14.0
<input type="checkbox"/>	Heptachlor (& its epoxide)	76-44-8	0.0012	0.066	0.66
<input type="checkbox"/>	Heptachlor epoxide	1024-57-3	0.016	0.066	0.66
<input type="checkbox"/>	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	0.000035	0.0025	0.025
<input type="checkbox"/>	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	0.000035	0.0025	0.025
<input type="checkbox"/>	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	0.000035	0.0025	0.025
<input type="checkbox"/>	Hexachlorobenzene	118-74-1	0.055	10.0	100.0
<input type="checkbox"/>	Hexachlorobutadiene	87-68-3	0.055	5.6	56.0
<input type="checkbox"/>	Hexachlorocyclopentadiene	77-47-4	0.057	2.4	24.0
<input type="checkbox"/>	Hexachloroethane	67-72-1	0.055	30.0	300.0
<input type="checkbox"/>	Hexachloropropene	1888-71-7	0.035	30.0	300.0
<input type="checkbox"/>	HxCDDs (All Hexachlorodibenzo-p-dioxins)	34465-46-8	0.000063	0.001	0.01
<input type="checkbox"/>	HxCDFs (All Hexachlorodibenzo-furans)	55684-94-1	0.000063	0.001	0.01
<input type="checkbox"/>	Indeno[1,2,3-cd]pyrene	193-39-5	0.0055	3.4	34.0
<input type="checkbox"/>	Iodomethane	74-88-4	0.19	65.0	650.0
<input type="checkbox"/>	Isobutyl alcohol	78-83-1	5.6	170.0	1700.0
<input type="checkbox"/>	Isodrin	465-73-6	0.021	0.066	0.66
<input type="checkbox"/>	Isosafrole	120-58-1	0.081	2.6	26.0
<input type="checkbox"/>	Kepone	143-50-0	0.0011	0.13	1.3
<input type="checkbox"/>	Lindane (gamma-BHC)	58-89-9	0.0017	0.066	0.66
<input type="checkbox"/>	Mercury (Retort Residues)	7439-97-6*	N/A	0.2	2.0
<input type="checkbox"/>	Methacrylonitrile	126-98-7	0.24	84.0	840.0
<input type="checkbox"/>	Methanol	67-56-1	5.6	0.75	7.5
<input type="checkbox"/>	Methapyrilene	91-80-5	0.081	1.5	15.0
<input type="checkbox"/>	Methiocarb	2032-65-7	0.056	1.4	14.0
<input type="checkbox"/>	Methomyl	16752-77-5	0.028	0.14	1.4
<input type="checkbox"/>	Methoxychlor	72-43-5	0.25	0.18	1.8
<input type="checkbox"/>	Methyl ethyl ketone	78-93-3	0.28	36.0	360.0
<input type="checkbox"/>	Methyl isobutyl ketone	108-10-1	0.14	33.0	330.0
<input type="checkbox"/>	Methyl methacrylate	80-62-6	0.14	160.0	1600.0

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<input type="checkbox"/>	Methyl methanesulfonate	66-27-3	0.018	N/A	N/A
<input type="checkbox"/>	Methyl parathion	298-00-0	0.014	4.6	46.0
<input type="checkbox"/>	3-Methylcholanthrene	56-49-5	0.0055	15.0	150.0
<input type="checkbox"/>	4,4'-Methylene bis(2-chloroaniline)	101-14-4	0.5	30.0	300.0
<input type="checkbox"/>	Methylene chloride	75-09-2	0.089	30.0	300.0
<input type="checkbox"/>	Metolcarb	1129-41-5	0.056	1.4	14.0
<input type="checkbox"/>	Mexacarbate	315-18-4	0.056	1.4	14.0
<input type="checkbox"/>	Molinate	2212-67-1	0.042	1.4	14.0
<input type="checkbox"/>	N-Nitroso-di-n-butylamine	924-16-3	0.4	17.0	170.0
<input type="checkbox"/>	N-Nitrosodiethylamine	55-18-5	0.4	28.0	280.0
<input type="checkbox"/>	N-Nitrosodimethylamine	62-75-9	0.4	2.3	23.0
<input type="checkbox"/>	N-Nitrosodiphenylamine	86-30-6	0.92	13.0	130.0
<input type="checkbox"/>	N-Nitrosomethylethylamine	10595-95-6	0.4	2.3	23.0
<input type="checkbox"/>	N-Nitrosomorpholine	59-89-2	0.4	2.3	23.0
<input type="checkbox"/>	N-Nitrosopiperidine	100-75-4	0.013	35.0	350.0
<input type="checkbox"/>	N-Nitrosopyrrolidine	930-55-2	0.013	35.0	350.0
<input type="checkbox"/>	Naphthalene	91-20-3	0.059	5.6	56.0
<input type="checkbox"/>	2-Naphthylamine	91-59-8	0.52	N/A	N/A
<input type="checkbox"/>	5-Nitro-o-toluidine	99-55-8	0.32	28.0	280.0
<input type="checkbox"/>	o-Nitroaniline	88-74-4	0.27	14.0	140.0
<input type="checkbox"/>	p-Nitroaniline	100-01-6	0.028	28.0	280.0
<input type="checkbox"/>	Nitrobenzene	98-95-3	0.068	14.0	140.0
<input type="checkbox"/>	o-Nitrophenol	88-75-5	0.028	13.0	130.0
<input type="checkbox"/>	p-Nitrophenol	100-02-7	0.12	29.0	290.0
<input type="checkbox"/>	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	0.000063	0.005	0.05
<input type="checkbox"/>	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	0.000063	0.005	0.05
<input type="checkbox"/>	Øxamyl	23135-22-0	0.056	0.28	2.8
<input type="checkbox"/>	Parathion	56-38-2	0.014	4.6	46.0
<input type="checkbox"/>	PeCDDs (All Pentachlorodibenzo-p-dioxins)	36088-22-9	0.000063	0.001	0.01
<input type="checkbox"/>	PeCDFs (All Pentachlorodibenzo-furans)	30402-15-4	0.000035	0.001	0.01
<input type="checkbox"/>	Pebulate	1114-71-2	0.042	1.4	14.0
<input type="checkbox"/>	Pentachlorobenzene	608-93-5	0.055	10.0	100.0
<input type="checkbox"/>	Pentachloroethane	76-01-7	0.055	6.0	60.0
<input type="checkbox"/>	Pentachloronitrobenzene	82-68-8	0.055	4.8	48.0
<input checked="" type="checkbox"/>	Pentachlorophenol	87-86-5	0.089	7.4	74.0
<input type="checkbox"/>	Phenacetin	62-44-2	0.081	16.0	160.0
<input type="checkbox"/>	Phenanthrene	85-01-8	0.059	5.6	56.0
<input type="checkbox"/>	Phenol	108-95-2	0.039	6.2	62.0
<input type="checkbox"/>	o-Phenylenediamine	95-54-5	N/A	N/A	N/A
<input type="checkbox"/>	Phorate	298-02-2	0.021	4.6	46.0
<input type="checkbox"/>	Phthalic acid	100-21-0	0.055	28.0	280.0
<input type="checkbox"/>	Phthalic anhydride	85-44-9	0.055	28.0	280.0
<input type="checkbox"/>	Physostigmine	57-47-6	0.056	1.4	14.0
<input type="checkbox"/>	Physostigmine salicylate	57-64-7	0.056	1.4	14.0
<input type="checkbox"/>	Promecarb	2631-37-0	0.056	1.4	14.0
<input type="checkbox"/>	Pronamide	23950-58-5	0.093	1.5	15.0
<input type="checkbox"/>	Propanenitrile	107-12-0	0.24	360.0	3600.0
<input type="checkbox"/>	Propham	122-42-9	0.056	1.4	14.0
<input type="checkbox"/>	Propoxur	114-26-1	0.056	1.4	14.0
<input type="checkbox"/>	Prosulfocarb	52888-80-9	0.042	1.4	14.0
<input type="checkbox"/>	Pyrene	129-00-0	0.067	8.2	82.0
<input type="checkbox"/>	Pyridine	110-86-1	0.014	16.0	160.0
<input type="checkbox"/>	Safrole	94-59-7	0.081	22.0	220.0
<input type="checkbox"/>	Sulfide	18496-25-8	14.0	N/A	N/A
<input type="checkbox"/>	2,4,5-T	93-76-5	0.72	7.9	79.0
<input type="checkbox"/>	TCDDs (All Tetrachlorodi-benzo-p-dioxins)	41903-57-5	0.000063	0.001	0.01
<input type="checkbox"/>	TCDFs (All Tetrachlorodibenzofurans)	30402-14-3	0.000063	0.001	0.01
<input type="checkbox"/>	2,4,5-TP (Silvex)	93-72-1	0.72	7.9	79.0
<input type="checkbox"/>	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14.0	140.0

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<input type="checkbox"/>	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0	60.0
<input type="checkbox"/>	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0	60.0
<input type="checkbox"/>	Tetrachloroethylene	127-18-4	0.056	6.0	60.0
<input type="checkbox"/>	2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4	74.0
<input type="checkbox"/>	Thiodicarb	59669-26-0	0.019	1.4	14.0
<input type="checkbox"/>	Thiophanate-methyl	23564-05-8	0.056	1.4	14.0
<input type="checkbox"/>	Toluene	108-88-3	0.08	10.0	100.0
<input type="checkbox"/>	Total PCBs (Polychlorinated biphenyls)	1336-36-3	0.1	10.0	100.0
<input type="checkbox"/>	Toxaphene	8001-35-2	0.0095	2.6	26.0
<input type="checkbox"/>	Triallate	2303-17-5	0.042	1.4	14.0
<input type="checkbox"/>	Tribromomethane	75-25-2	0.63	15.0	150.0
<input type="checkbox"/>	2,4,6-Tribromophenol	118-79-6	0.035	7.4	74.0
<input type="checkbox"/>	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.057	30.0	300.0
<input type="checkbox"/>	1,2,4-Trichlorobenzene	120-82-1	0.055	19.0	190.0
<input type="checkbox"/>	1,1,1-Trichloroethane	71-55-6	0.054	6.0	60.0
<input type="checkbox"/>	1,1,2-Trichloroethane	79-00-5	0.054	6.0	60.0
<input type="checkbox"/>	Trichloroethylene	79-01-6	0.054	6.0	60.0
<input type="checkbox"/>	Trichloromonofluoromethane (R11)	75-69-4	0.02	30.0	300.0
<input type="checkbox"/>	2,4,5-Trichlorophenol	95-95-4	0.18	7.4	74.0
<input type="checkbox"/>	2,4,6-Trichlorophenol	88-06-2	0.035	7.4	74.0
<input type="checkbox"/>	1,2,3-Trichloropropane	96-18-4	0.85	30.0	300.0
<input type="checkbox"/>	Triethylamine	121-44-8	0.081	1.5	15.0
<input type="checkbox"/>	Tris(2,3-dibromopropyl) phosphate	126-72-7	0.11	0.1	1.0
<input type="checkbox"/>	Vernolate	1929-77-7	0.042	1.4	14.0
<input type="checkbox"/>	Vinyl chloride	75-01-4	0.27	6.0	60.0
<input type="checkbox"/>	Xylene	1330-20-7	0.32	30.0	300.0
<input type="checkbox"/>	2,4-Xylidine	95-68-1	0.01	0.66	6.6
<input type="checkbox"/>	Antimony	7440-36-0	1.9	1.15	11.5
<input type="checkbox"/>	Arsenic	7440-38-2	1.4	5.0	50.0
<input type="checkbox"/>	Barium	7440-39-3	1.2	21.0	210.0
<input type="checkbox"/>	Beryllium	7440-41-7	0.82	1.22	12.2
<input type="checkbox"/>	Cadmium	7440-43-9	0.69	0.11	1.1
<input checked="" type="checkbox"/>	Chromium	7440-47-3	2.77	0.6	6.0
<input checked="" type="checkbox"/>	Lead	7439-92-1	0.69	0.75	7.5
<input type="checkbox"/>	Mercury	7439-97-6	0.15	0.025	0.25
<input type="checkbox"/>	Nickel	7440-02-0	3.98	11.0	110.0
<input type="checkbox"/>	Selenium	7782-49-2	0.82	5.7	57.0
<input type="checkbox"/>	Silver	7440-22-4	0.43	0.14	1.4
<input type="checkbox"/>	Thallium	7440-28-0	1.4	0.2	2.0
<input type="checkbox"/>	Vanadium	7440-62-2	4.3	1.6	16.0
<input checked="" type="checkbox"/>	Zinc	7440-66-6	2.61	4.3	43.0

Attachment 1 - Additional Radionuclides

Please list the supplementary radionuclides and their concentration values.

ENCLOSURE 3

Waste Profile Form 42757

EPC-DO: 17-095

LA-UR-17-21107

MAR 06 2017

Date: _____



**WASTE PROFILE FORM
COVER SHEET**

**42757
APPROVED**

Waste Characterization Information

Waste Stream ID: 42757
WPF ID (Legacy): _____
Waste Stream Name: RECIRCULATING WATER WITH SODIUM HYDROXIDE FROM TA-22 ETCHING SHOP TANK
Expiration Date: 02/01/2018
Waste Type: Hazardous Waste
Radiological Type: Non Radioactive
RCRA Category: RCRA Solid Hazardous
Ancillary Types: _____
Primary Composition: Aqueous Solutions
Composition (other): _____
EPA Codes: D002
Waste Acceptance: _____
EPA Form Code: W101
Inorganic Liquids: Very dilute aqueous waste containing more than 99% water (land disposal restriction defined wastewater that is not exempt under NPDES or POTW discharg
EPA Source Code: G13
Other Intermittent Events or Processes: Cleaning out process equipment (periodic sludge or residual removal from enclosed processes including internal scrubbing or cleaning)

Waste Generation Estimates

YEAR	VOLUME
2018	150.00 gal
2017	150.00 gal
2016	150.00 gal



WASTE PROFILE FORM

Reference Number	
WCATS ID 42757	Legacy WPF ID

Generator's Z Number 088282	Waste Generator's Name (<i>print</i>) MILLS, WILLIAM	WMC's Z Number 217511	WMC's Name (<i>print</i>) LEE, JEFFREY	Generator's Phone 5056675401
Generator's Mail Stop P950	Waste Generating Group DET-3	Waste Stream Technical Area 22	Building 000091	Room B111
			WMC Phone 5056674537	

Waste Accumulation (*check only one*)

<input type="checkbox"/> Satellite Accumulation Area <input checked="" type="checkbox"/> Less-than-90 Days Storage Area <input type="checkbox"/> TSDF <input type="checkbox"/> Universal Waste Storage Area <input type="checkbox"/> Used Oil for Recycle ER Use Only <input type="checkbox"/> ER Site	Site No: _____ Site No: <u>6200</u> Site No: _____ Site No: _____ Site No: _____ SWMU/AOC No. _____
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<input type="checkbox"/> PCBs Storage Area <input type="checkbox"/> NM Special Waste <input type="checkbox"/> Rad Staging Area <input type="checkbox"/> Rad Storage Area <input type="checkbox"/> None of the Above	Site No: _____ Site No: _____ Site No: _____ Site No: _____ Site No: _____
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Method of Characterization (*check as many as apply*)

<input type="checkbox"/> Chemical/Physical Analysis <input type="checkbox"/> Radiological Analysis <input type="checkbox"/> PCB Analysis <input type="checkbox"/> Acceptable Knowledge Documentation <input checked="" type="checkbox"/> Material Safety Data Sheet (MSDS)	<input type="checkbox"/> Attached <input type="checkbox"/> Attached <input type="checkbox"/> Attached <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Attached	Sample No: _____ Sample No: _____ Sample No: _____ Documentation No: _____ Sodium Hydroxide MSDS/LAMINA
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Section 1 - Waste Prevention/Minimization (*answer all questions*)

Can hazard segregation, elimination, or material substitution be used?	<input type="checkbox"/> Yes (<i>provide comments</i>)	<input checked="" type="checkbox"/> No
Can any of the materials in the waste stream be recycled or reused?	<input type="checkbox"/> Yes (<i>provide comments</i>)	<input checked="" type="checkbox"/> No
Has waste minimization been incorporated into procedures or other process controls?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No (<i>provide comments</i>)
Can this waste be generated outside a RCA?	<input type="checkbox"/> Yes (<i>provide comments</i>)	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Comments:

Section 2 - Chemical and Physical Information

<p>Waste Type (<i>check only one</i>)</p> <input type="checkbox"/> Unused/Unspent Chemical <input checked="" type="checkbox"/> Process Waste/Spent Chemical/Other <p>Radiological Information</p> Was Waste generated in a RCA? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Non-radioactive <input type="checkbox"/> Radioactive - Low Level <input type="checkbox"/> Radioactive - Transuranic <p>Waste Destination (<i>check one</i>)</p> <input type="checkbox"/> SWWS <input type="checkbox"/> RLWTF <input type="checkbox"/> RLWTP <input type="checkbox"/> TA-16/HE <input type="checkbox"/> NTS <p>Classified Information</p> <input checked="" type="checkbox"/> Unclassified <input type="checkbox"/> Classified/Sensitive	<p>Waste Category (<i>check all that apply</i>)</p> <input checked="" type="checkbox"/> Inorganic <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Solvent (see instructions) <input type="checkbox"/> Degreaser (see instructions) <input type="checkbox"/> Dioxin <input type="checkbox"/> Electroplating <input type="checkbox"/> Treated Hazardous Waste or Residue <input type="checkbox"/> No-Longer Contained-In <input type="checkbox"/> Explosive Process <input type="checkbox"/> Infectious/Medical <input type="checkbox"/> Biological <input type="checkbox"/> Beryllium <input type="checkbox"/> Empty Container (see instructions) <input type="checkbox"/> Battery (see instructions) <p>Asbestos</p> <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <p>PCB Source Concentration</p> <input type="checkbox"/> PCB < 50 ppm <input type="checkbox"/> PCB >= 50 - < 500 ppm <input type="checkbox"/> PCB >= 500 ppm <input type="checkbox"/> Hazardous Waste Contaminated Soil <input type="checkbox"/> Untreated Hazardous Debris <input type="checkbox"/> Commercial Solid Waste <input type="checkbox"/> Other [Describe] Other: _____	<p>Waste Source (<i>check only one</i>)</p> <p>Waste Source A</p> <input type="checkbox"/> Decon <input type="checkbox"/> Materials Processing/Production <input type="checkbox"/> Research/Development/Testing <input checked="" type="checkbox"/> Scheduled Maintenance <input type="checkbox"/> Housekeeping - Routine <input type="checkbox"/> Spill Cleanup - Routine <input type="checkbox"/> Sampling - Routine Monitoring <input type="checkbox"/> Other (describe) <p>Waste Source B</p> <input type="checkbox"/> Abatement <input type="checkbox"/> Construction/Upgrades <input type="checkbox"/> Demolition <input type="checkbox"/> Decon/Decom <input type="checkbox"/> Investigative Derived <input type="checkbox"/> Orphan/Legacy <input type="checkbox"/> Remediation/Restoration <input type="checkbox"/> Repacking (secondary) <input type="checkbox"/> Unscheduled Maintenance <input type="checkbox"/> Housekeeping (non-routine) <input type="checkbox"/> Spill Cleanup (non-routine) <input type="checkbox"/> Non-Petroleum Tanks <input type="checkbox"/> Petroleum Tanks <input type="checkbox"/> Other (describe) Other: _____	<p>Waste Matrix (<i>check only one</i>)</p> <p>Gas</p> <input type="checkbox"/> ≤1.5 Atmospheres Pressure <input type="checkbox"/> >1.5 Atmospheres Pressure <input type="checkbox"/> Liquefied Compressed Gas <p>Liquid</p> <input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Non-Aqueous <input type="checkbox"/> Suspended Solids/Aqueous <input type="checkbox"/> Suspended Solids/Non-Aqueous <p>Solid</p> <input type="checkbox"/> Powder/Ash/Dust <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Absorbed/Solidified Liquid <input type="checkbox"/> Debris <p>Matrix Type (<i>check only one</i>)</p> <input checked="" type="checkbox"/> Homogeneous <input type="checkbox"/> Heterogeneous <p>Estimate Annual Volume (m³):</p>
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Section 3 - Process and Waste Description

Process Description:
Recirculating water from TA-22 etching shop holding tank.

Waste Description:
Waste will consist of rinse water, sodium hydroxide and trace film photopolymer from draining of the recirculating tank at TA-22-91.

Section 4 - Characteristics

Ignitability (check only one) <input type="checkbox"/> < 73 F (< 22.8 C) <input type="checkbox"/> 73 - 99 F (22.8 - 37.2 C) <input type="checkbox"/> 100 - 139 F (37.8 - 59.4 C) <input type="checkbox"/> 140 - 200 F (60.0 - 99.3 C) <input type="checkbox"/> > 200 (> 99.3 C) <input type="checkbox"/> EPA Ignitable - Non-liquid <input type="checkbox"/> DOT Flammable Gas <input type="checkbox"/> DOT Oxidizer <input checked="" type="checkbox"/> Not Ignitable	Corrosivity (check only one) (pH) <input type="checkbox"/> <= 2.0 <input type="checkbox"/> 2.1 - 4.0 <input type="checkbox"/> 4.1 - 6.0 <input type="checkbox"/> 6.1 - 9.0 <input type="checkbox"/> 9.1 - 12.4 <input checked="" type="checkbox"/> >= 12.5 <input type="checkbox"/> Liquid Corrosive to Steel <input type="checkbox"/> Non-aqueous	Reactivity (check as many as apply) <input type="checkbox"/> RCRA Unstable <input type="checkbox"/> Water Reactive <input type="checkbox"/> Cyanide Bearing <input type="checkbox"/> Sulfide Bearing <input type="checkbox"/> Pyrophoric <input type="checkbox"/> Shock Sensitive <input type="checkbox"/> Explosive [Specify DOT Div.] <input checked="" type="checkbox"/> Non-Reactive	Boiling Point (check only one) <input type="checkbox"/> <= 95 F (<= 35 C) <input type="checkbox"/> >95 F (> 35 C) <input checked="" type="checkbox"/> Not Applicable
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Identify for all contaminants listed	Characterization Method				Concentration of Contaminants		Regulatory Limit
	AK	TCLP	Total	None or Non-detect	Minimum	Maximum	
Toxicity Characteristic Metals							
(10,000 ppm = 1%)							
Arsenic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Barium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	100.0 ppm
Cadmium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	1.0 ppm
Chromium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Lead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Mercury	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.2 ppm
Selenium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	1.0 ppm
Silver	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Toxicity Characteristic Organics							
Benzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
Carbon tetrachloride	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
Chlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	100.0 ppm
Chloroform	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	6.0 ppm
Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
p-Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
m-Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
o-Cresol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	7.5 ppm
1,2-Dichloroethane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
1,1-Dichloroethylene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.7 ppm
2,4-Dinitrotoluene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.13 ppm
Hexachlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.13 ppm
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
Hexachloroethane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	3.0 ppm
Methyl ethyl ketone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	200.0 ppm
Nitrobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	2.0 ppm
Pentachlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	100.0 ppm
Pyridine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	5.0 ppm
Tetrachloroethylene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.7 ppm
Trichloroethylene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	2.0 ppm
2,4,5-Trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	400.0 ppm
Vinyl chloride	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.2 ppm
Herbicides and Pesticides							
Chlordane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.03 ppm
2,4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	10.0 ppm
Endrin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.02 ppm
Heptachlor (& its epoxide)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.008 ppm
Lindane (gamma-BHC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.4 ppm
Methoxychlor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	10.0 ppm
2,4,5-TP (Silvex)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	1.0 ppm
Toxaphene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	to	ppm	0.5 ppm

Section 5 - Additional Constituents and Contaminants

Additional Constituents and Contaminants. Please account for 100% of waste. Range should be given within guidelines of individual constituents. List all other constituents (including inerts) not identified above and attach any applicable analysis. No chemical formula allowed in this field. Continue in Section 3 Additional information as necessary. CAS numbers are needed for all chemical constituents, for material without a CAS number, enter "No CAS Number".

CAS No.	Name of constituent	Minimum (ppm)	Maximum (ppm)
7732-18-5	Water	990000 to	1000000
1310-73-2	Sodium hydroxide	30 to	60
----	Poly film residue	1 to	1500
Total of max. ranges of this section and page 2			100.16 in %

Additional Information

If additional information is available on the chemical, physical, or radiological character of the waste not covered on this form, provide it below
 PH level for the waste was >12.5.

Section 6 - Work Control Documentation

Do the procedures for this process cover how to manage this waste? Yes No (provide comments)

Do the procedures for this process address controls to prevent changes to waste constituents and concentrations or addition or removal of waste to/from containers? Yes No (provide comments)

Comments:

Section 7 - Packaging and Storage Control

Describe how the waste will be packaged in according to the applicable WAC.
 DOT Certified Container

Identify the storage management controls that will be used for this waste stream: (check all that apply)
 Tamper Indication Devices Limited use locks with log-in for waste Locked cabinet or building Other (describe)

Section 8 - Waste Certification Statements

Waste appears to meet WAC attachment for: HAZ

Waste stream needs exception/exemption for treatment, storage, or disposal.

Waste does not meet the criteria for any known TSDF. (DOE approval is required. Contact the office of the Principle Associate Director for Weapons Programs [PADWP] for assistance.)

Waste Generator Certification: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the waste characterization information on this form is correct and that it meets the requirements of the applicable waste acceptance criteria. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature: WILLIAM MILLS (088282) Date: 02/02/16 11:57 AM

Waste Certifying Official: I have reviewed this form and any associated attachments and the characterization information provided appears to be complete and accurate. I certify, to the best of my knowledge, that the waste characterization information provided by the waste generator meets the requirements of the applicable WAC.

Signature: JEFFREY LEE (217511) Date: 02/02/16 11:58 AM

RCRA Review: I have reviewed this form and any associated attachments and the characterization information provided appears to be complete and accurate. I certify, to the best of my knowledge, that the waste characterization information provided by the waste generator meets the requirements of the applicable WAC.

Signature: ROBERT MOLTER (239137) Date: 02/02/16 12:39 PM

Attachment 4 - LDR and U

Identify category and presence of any constituents listed below (equal to or above limit).

Non-Wastewater/Wastewater Category (check only one)

Non Wastewater Wastewater [as defined by 40 CFR 268.2(f)] Lab Pack [40 CFR 268.2(f)] **Sign Certification #1**

Notifications and Certifications - Check the applicable boxes

Generator Requirements:

This shipment contains hazardous waste contaminated soil that does not meet treatment standards **Sign Certification #2**
 This shipment contains untreated hazardous debris to be treated to 40 CFR 268.45 treatment standards **(No certification)**
 Hazardous wastes (except soil) meeting treatment standards at point of generation **Sign Certification #3**
 Hazardous wastes contaminated soil meeting treatment standards at point of generation **Sign Certification #4**

TSDF or Generator Treatment:

TSDF treated hazardous debris meeting the alternative treatment standards of 40 CFR 268.45 **Sign Certification #5**
 Generator treated hazardous debris meeting the alternative treatment standards of 40 CFR 268.45 **Sign Certification #6**
 Hazardous wastes contaminated soil treated to 40 CFR 268.49 **Sign Certification #7**
 Wastes or residues from characteristic hazardous waste treatment meeting treatment standards and UTS **Sign Certification #8**
 Wastes or residues from characteristic hazardous waste treatment not meeting UTS **Sign Certification #9**
 Other TSDF wastes meeting the more stringent 40 CFR 268.40 treatment standards to be land disposed **Sign Certification #10**
 Other generator wastes meeting the more stringent 40 CFR 268.40 treatment standards to be land disposed **Sign Certification #11**

Notification of Underlying Hazardous Constituents

(Check the applicable underlying constituents above the concentration levels for D001 through D043 characteristic wastes only)

No Underlying Hazardous Constituents in this waste stream.

	Organic Constituents	CASRN	Wastewater Standard (mg/L)	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
<input type="checkbox"/>	Acenaphthene	83-32-9	0.059	3.4	34.0
<input type="checkbox"/>	Acenaphthylene	208-96-8	0.059	3.4	34.0
<input type="checkbox"/>	Acetone	67-64-1	0.28	160.0	1600.0
<input type="checkbox"/>	Acetonitrile	75-05-8	5.6	38.0	380.0
<input type="checkbox"/>	Acetophenone	98-86-2	0.01	9.7	97.0
<input type="checkbox"/>	2-Acetylaminofluorene	53-96-3	0.059	140.0	1400.0
<input type="checkbox"/>	Acrolein	107-02-8	0.29	N/A	N/A
<input type="checkbox"/>	Acrylamide	79-06-1	19.0	23.0	230.0
<input type="checkbox"/>	Acrylonitrile	107-13-1	0.24	84.0	840.0
<input type="checkbox"/>	Aldicarb sulfone	1646-88-4	0.056	0.28	2.8
<input type="checkbox"/>	Aldrin	309-00-2	0.021	0.066	0.66
<input type="checkbox"/>	4-Aminobiphenyl	92-67-1	0.13	N/A	N/A
<input type="checkbox"/>	Aniline	62-53-3	0.81	14.0	140.0
<input type="checkbox"/>	o-Anisidine	90-04-0	0.01	0.66	6.6
<input type="checkbox"/>	Anthracene	120-12-7	0.059	3.4	34.0
<input type="checkbox"/>	Aramite	140-57-8	0.36	N/A	N/A
<input type="checkbox"/>	alpha-BHC	319-84-6	0.00014	0.066	0.66
<input type="checkbox"/>	beta-BHC	319-85-7	0.00014	0.066	0.66
<input type="checkbox"/>	delta-BHC	319-86-8	0.023	0.066	0.66
<input type="checkbox"/>	Barban	101-27-9	0.056	1.4	14.0
<input type="checkbox"/>	Bendiocarb	22781-23-3	0.056	1.4	14.0
<input type="checkbox"/>	Benomyl	17804-35-2	0.056	1.4	14.0
<input type="checkbox"/>	Benz[a]anthracene	56-55-3	0.059	3.4	34.0
<input type="checkbox"/>	Benzal chloride	98-87-3	0.055	6.0	60.0
<input type="checkbox"/>	Benzene	71-43-2	0.14	10.0	100.0
<input type="checkbox"/>	Benzo(b)fluoranthene	205-99-2	0.11	6.8	68.0
<input type="checkbox"/>	Benzo[a]pyrene	50-32-8	0.061	3.4	34.0
<input type="checkbox"/>	Benzo[ghi]perylene	191-24-2	0.0055	1.8	18.0
<input type="checkbox"/>	Benzo[k]fluoranthene	207-08-9	0.11	6.8	68.0
<input type="checkbox"/>	Bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2	72.0
<input type="checkbox"/>	Bis(2-chloroethyl) ether	111-44-4	0.033	6.0	60.0
<input type="checkbox"/>	Bis(2-chloroisopropyl) ether	39638-32-9	0.055	7.2	72.0
<input type="checkbox"/>	Bis(2-ethylhexyl) phthalate	117-81-7	0.28	28.0	280.0
<input type="checkbox"/>	Bromodichloromethane	75-27-4	0.35	15.0	150.0
<input type="checkbox"/>	Bromomethane	74-83-9	0.11	15.0	150.0
<input type="checkbox"/>	4-Bromophenyl phenyl ether	101-55-3	0.055	15.0	150.0
<input type="checkbox"/>	n-Butyl alcohol	71-36-3	5.6	2.6	26.0
<input type="checkbox"/>	Butyl benzyl phthalate	85-68-7	0.017	28.0	280.0
<input type="checkbox"/>	Butylate	2008-41-5	0.042	1.4	14.0
<input type="checkbox"/>	Carbaryl	63-25-2	0.006	0.14	1.4

	Organic Constituents	CASRN	Wastewater Standard (mg/L)	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
<input type="checkbox"/>	Carbendazim	10605-21-7	0.056	1.4	14.0
<input type="checkbox"/>	Carbofuran	1563-66-2	0.006	0.14	1.4
<input type="checkbox"/>	Carbofuran phenol	1563-38-8	0.056	1.4	14.0
<input type="checkbox"/>	Carbon disulfide	75-15-0	3.8	4.8	48.0
<input type="checkbox"/>	Carbon tetrachloride	56-23-5	0.057	6.0	60.0
<input type="checkbox"/>	Carbosulfan	55285-14-8	0.028	1.4	14.0
<input type="checkbox"/>	Chlordane	57-74-9	0.0033	0.26	2.6
<input type="checkbox"/>	p-Chloro-m-cresol	59-50-7	0.018	14.0	140.0
<input type="checkbox"/>	p-Chloroaniline	106-47-8	0.46	16.0	160.0
<input type="checkbox"/>	Chlorobenzene	108-90-7	0.057	6.0	60.0
<input type="checkbox"/>	Chlorobenzilate	510-15-6	0.1	N/A	N/A
<input type="checkbox"/>	Chlorodibromomethane	124-48-1	0.057	15.0	150.0
<input type="checkbox"/>	Chloroethane	75-00-3	0.27	6.0	60.0
<input type="checkbox"/>	2-Chloroethyl vinyl ether	110-75-8	0.062	N/A	N/A
<input type="checkbox"/>	Chloroform	67-66-3	0.046	6.0	60.0
<input type="checkbox"/>	Chloromethane	74-87-3	0.19	30.0	300.0
<input type="checkbox"/>	2-Chloronaphthalene	91-58-7	0.055	5.6	56.0
<input type="checkbox"/>	2-Chlorophenol	95-57-8	0.044	5.7	57.0
<input type="checkbox"/>	Chloroprene	126-99-8	0.057	0.28	2.8
<input type="checkbox"/>	3-Chloropropylene	107-05-1	0.036	30.0	300.0
<input type="checkbox"/>	Chrysene	218-01-9	0.059	3.4	34.0
<input type="checkbox"/>	p-Cresidine	120-71-8	0.01	0.66	6.6
<input type="checkbox"/>	m-Cresol	108-39-4	0.77	5.6	56.0
<input type="checkbox"/>	o-Cresol	95-48-7	0.11	5.6	56.0
<input type="checkbox"/>	p-Cresol	106-44-5	0.77	5.6	56.0
<input type="checkbox"/>	m-Cumenyl methylcarbamate	64-00-6	0.056	1.4	14.0
<input type="checkbox"/>	Cyanide (Amenable)	57-12-5*	0.86	30.0	300.0
<input type="checkbox"/>	Cyanide (Total)	57-12-5	1.2	590.0	5900.0
<input type="checkbox"/>	Cyclohexanone	108-94-1	0.36	0.75	7.5
<input type="checkbox"/>	2,4-D	94-75-7	0.72	10.0	100.0
<input type="checkbox"/>	o,p'-DDD	53-19-0	0.023	0.087	0.87
<input type="checkbox"/>	p,p'-DDD	72-54-8	0.023	0.087	0.87
<input type="checkbox"/>	o,p'-DDE	3424-82-6	0.031	0.087	0.87
<input type="checkbox"/>	p,p'-DDE	72-55-9	0.031	0.087	0.87
<input type="checkbox"/>	o,p'-DDT	789-02-6	0.0039	0.087	0.87
<input type="checkbox"/>	p,p'-DDT	50-29-3	0.0039	0.087	0.87
<input type="checkbox"/>	Di-n-butyl phthalate	84-74-2	0.057	28.0	280.0
<input type="checkbox"/>	Di-n-octyl phthalate	117-84-0	0.017	28.0	280.0
<input type="checkbox"/>	Di-n-propylnitrosamine	621-64-7	0.4	14.0	140.0
<input type="checkbox"/>	Dibenz[a,h]anthracene	53-70-3	0.055	8.2	82.0
<input type="checkbox"/>	Dibenzo[a,e]pyrene	192-65-4	0.061	N/A	N/A
<input type="checkbox"/>	1,2-Dibromo-3-chloropropane	96-12-8	0.11	15.0	150.0
<input type="checkbox"/>	1,2-Dibromoethane	106-93-4	0.028	15.0	150.0
<input type="checkbox"/>	Dibromomethane	74-95-3	0.11	15.0	150.0
<input type="checkbox"/>	1,4-Dichlorobenzene	106-46-7	0.09	6.0	60.0
<input type="checkbox"/>	m-Dichlorobenzene	541-73-1	0.036	6.0	60.0
<input type="checkbox"/>	o-Dichlorobenzene	95-50-1	0.088	6.0	60.0
<input type="checkbox"/>	Dichlorodifluoromethane	75-71-8	0.23	7.2	72.0
<input type="checkbox"/>	1,1-Dichloroethane	75-34-3	0.059	6.0	60.0
<input type="checkbox"/>	1,2-Dichloroethane	107-06-2	0.21	6.0	60.0
<input type="checkbox"/>	1,1-Dichloroethylene	75-35-4	0.025	6.0	60.0
<input type="checkbox"/>	trans-1,2-Dichloroethylene	156-60-5	0.054	30.0	300.0
<input type="checkbox"/>	2,4-Dichlorophenol	120-83-2	0.044	14.0	140.0
<input type="checkbox"/>	2,6-Dichlorophenol	87-65-0	0.044	14.0	140.0
<input type="checkbox"/>	1,2-Dichloropropane	78-87-5	0.85	18.0	180.0
<input type="checkbox"/>	trans-1,3-Dichloropropene	10061-02-6	0.036	18.0	180.0
<input type="checkbox"/>	cis-1,3-Dichloropropylene	10061-01-5	0.036	18.0	180.0
<input type="checkbox"/>	Dieldrin	60-57-1	0.017	0.13	1.3
<input type="checkbox"/>	Diethyl phthalate	84-66-2	0.2	28.0	280.0

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<input type="checkbox"/>	Dimethyl phthalate	131-11-3	0.047	28.0	280.0
<input type="checkbox"/>	p-Dimethylaminoazobenzene	60-11-7	0.13	N/A	N/A
<input type="checkbox"/>	2,4-Dimethylphenol	105-67-9	0.036	14.0	140.0
<input type="checkbox"/>	4,6-Dinitro-o-cresol	534-52-1	0.28	160.0	1600.0
<input type="checkbox"/>	1,4-Dinitrobenzene	100-25-4	0.32	2.3	23.0
<input type="checkbox"/>	2,4-Dinitrophenol	51-28-5	0.12	160.0	1600.0
<input type="checkbox"/>	2,4-Dinitrotoluene	121-14-2	0.32	140.0	1400.0
<input type="checkbox"/>	2,6-Dinitrotoluene	606-20-2	0.55	28.0	280.0
<input type="checkbox"/>	Dinoseb	88-85-7	0.066	2.5	25.0
<input type="checkbox"/>	1,4-Dioxane	123-91-1	12.0	170.0	1700.0
<input type="checkbox"/>	Diphenylamine	122-39-4	0.92	13.0	130.0
<input type="checkbox"/>	1,2-Diphenylhydrazine	122-66-7	0.087	N/A	N/A
<input type="checkbox"/>	Disulfoton	298-04-4	0.017	6.2	62.0
<input type="checkbox"/>	Dithiocarbamates (total)	WCATS-001	0.028	28.0	280.0
<input type="checkbox"/>	EPTC	759-94-4	0.042	1.4	14.0
<input type="checkbox"/>	Endosulfan I	959-98-8	0.023	0.066	0.66
<input type="checkbox"/>	Endosulfan II	33213-65-9	0.029	0.13	1.3
<input type="checkbox"/>	Endosulfan sulfate	1031-07-8	0.029	0.13	1.3
<input type="checkbox"/>	Endrin	72-20-8	0.0028	0.13	1.3
<input type="checkbox"/>	Endrin aldehyde	7421-93-4	0.025	0.13	1.3
<input type="checkbox"/>	Ethyl acetate	141-78-6	0.34	33.0	330.0
<input type="checkbox"/>	Ethyl benzene	100-41-4	0.057	10.0	100.0
<input type="checkbox"/>	Ethyl ether	60-29-7	0.12	160.0	1600.0
<input type="checkbox"/>	Ethyl methacrylate	97-63-2	0.14	160.0	1600.0
<input type="checkbox"/>	Ethylene oxide	75-21-8	0.12	N/A	N/A
<input type="checkbox"/>	Famphur	52-85-7	0.017	15.0	150.0
<input type="checkbox"/>	Fluoranthene	206-44-0	0.068	3.4	34.0
<input type="checkbox"/>	Fluorene	86-73-7	0.059	3.4	34.0
<input type="checkbox"/>	Fluoride	16984-48-8	35.0	N/A	N/A
<input type="checkbox"/>	Formetanate hydrochloride	23422-53-9	0.056	1.4	14.0
<input type="checkbox"/>	Heptachlor (& its epoxide)	76-44-8	0.0012	0.066	0.66
<input type="checkbox"/>	Heptachlor epoxide	1024-57-3	0.016	0.066	0.66
<input type="checkbox"/>	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	0.000035	0.0025	0.025
<input type="checkbox"/>	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	0.000035	0.0025	0.025
<input type="checkbox"/>	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	0.000035	0.0025	0.025
<input type="checkbox"/>	Hexachlorobenzene	118-74-1	0.055	10.0	100.0
<input type="checkbox"/>	Hexachlorobutadiene	87-68-3	0.055	5.6	56.0
<input type="checkbox"/>	Hexachlorocyclopentadiene	77-47-4	0.057	2.4	24.0
<input type="checkbox"/>	Hexachloroethane	67-72-1	0.055	30.0	300.0
<input type="checkbox"/>	Hexachloropropene	1888-71-7	0.035	30.0	300.0
<input type="checkbox"/>	HxCDDs (All Hexachlorodibenzo-p-dioxins)	34465-46-8	0.000063	0.001	0.01
<input type="checkbox"/>	HxCDFs (All Hexachlorodibenzo-furans)	55684-94-1	0.000063	0.001	0.01
<input type="checkbox"/>	Indeno[1,2,3-cd]pyrene	193-39-5	0.0055	3.4	34.0
<input type="checkbox"/>	Iodomethane	74-88-4	0.19	65.0	650.0
<input type="checkbox"/>	Isobutyl alcohol	78-83-1	5.6	170.0	1700.0
<input type="checkbox"/>	Isodrin	465-73-6	0.021	0.066	0.66
<input type="checkbox"/>	Isosafrole	120-58-1	0.081	2.6	26.0
<input type="checkbox"/>	Kepone	143-50-0	0.0011	0.13	1.3
<input type="checkbox"/>	Lindane (gamma-BHC)	58-89-9	0.0017	0.066	0.66
<input type="checkbox"/>	Mercury (Retort Residues)	7439-97-6*	N/A	0.2	2.0
<input type="checkbox"/>	Methacrylonitrile	126-98-7	0.24	84.0	840.0
<input type="checkbox"/>	Methanol	67-56-1	5.6	0.75	7.5
<input type="checkbox"/>	Methapyrilene	91-80-5	0.081	1.5	15.0
<input type="checkbox"/>	Methiocarb	2032-65-7	0.056	1.4	14.0
<input type="checkbox"/>	Methomyl	16752-77-5	0.028	0.14	1.4
<input type="checkbox"/>	Methoxychlor	72-43-5	0.25	0.18	1.8
<input type="checkbox"/>	Methyl ethyl ketone	78-93-3	0.28	36.0	360.0
<input type="checkbox"/>	Methyl isobutyl ketone	108-10-1	0.14	33.0	330.0
<input type="checkbox"/>	Methyl methacrylate	80-62-6	0.14	160.0	1600.0

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<input type="checkbox"/>	Methyl methanesulfonate	66-27-3	0.018	N/A	N/A
<input type="checkbox"/>	Methyl parathion	298-00-0	0.014	4.6	46.0
<input type="checkbox"/>	3-Methylcholanthrene	56-49-5	0.0055	15.0	150.0
<input type="checkbox"/>	4,4'-Methylene bis(2-chloroaniline)	101-14-4	0.5	30.0	300.0
<input type="checkbox"/>	Methylene chloride	75-09-2	0.089	30.0	300.0
<input type="checkbox"/>	Metolcarb	1129-41-5	0.056	1.4	14.0
<input type="checkbox"/>	Mexacarbate	315-18-4	0.056	1.4	14.0
<input type="checkbox"/>	Molinate	2212-67-1	0.042	1.4	14.0
<input type="checkbox"/>	N-Nitroso-di-n-butylamine	924-16-3	0.4	17.0	170.0
<input type="checkbox"/>	N-Nitrosodiethylamine	55-18-5	0.4	28.0	280.0
<input type="checkbox"/>	N-Nitrosodimethylamine	62-75-9	0.4	2.3	23.0
<input type="checkbox"/>	N-Nitrosodiphenylamine	86-30-6	0.92	13.0	130.0
<input type="checkbox"/>	N-Nitrosomethylethylamine	10595-95-6	0.4	2.3	23.0
<input type="checkbox"/>	N-Nitrosomorpholine	59-89-2	0.4	2.3	23.0
<input type="checkbox"/>	N-Nitrosopiperidine	100-75-4	0.013	35.0	350.0
<input type="checkbox"/>	N-Nitrosopyrrolidine	930-55-2	0.013	35.0	350.0
<input type="checkbox"/>	Naphthalene	91-20-3	0.059	5.6	56.0
<input type="checkbox"/>	2-Naphthylamine	91-59-8	0.52	N/A	N/A
<input type="checkbox"/>	5-Nitro-o-toluidine	99-55-8	0.32	28.0	280.0
<input type="checkbox"/>	o-Nitroaniline	88-74-4	0.27	14.0	140.0
<input type="checkbox"/>	p-Nitroaniline	100-01-6	0.028	28.0	280.0
<input type="checkbox"/>	Nitrobenzene	98-95-3	0.068	14.0	140.0
<input type="checkbox"/>	o-Nitrophenol	88-75-5	0.028	13.0	130.0
<input type="checkbox"/>	p-Nitrophenol	100-02-7	0.12	29.0	290.0
<input type="checkbox"/>	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	0.000063	0.005	0.05
<input type="checkbox"/>	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	0.000063	0.005	0.05
<input type="checkbox"/>	Oxamyl	23135-22-0	0.056	0.28	2.8
<input type="checkbox"/>	Parathion	56-38-2	0.014	4.6	46.0
<input type="checkbox"/>	PeCDDs (All Pentachlorodibenzo-p-dioxins)	36088-22-9	0.000063	0.001	0.01
<input type="checkbox"/>	PeCDFs (All Pentachlorodibenzo-furans)	30402-15-4	0.000035	0.001	0.01
<input type="checkbox"/>	Pebulate	1114-71-2	0.042	1.4	14.0
<input type="checkbox"/>	Pentachlorobenzene	608-93-5	0.055	10.0	100.0
<input type="checkbox"/>	Pentachloroethane	76-01-7	0.055	6.0	60.0
<input type="checkbox"/>	Pentachloronitrobenzene	82-68-8	0.055	4.8	48.0
<input type="checkbox"/>	Pentachlorophenol	87-86-5	0.089	7.4	74.0
<input type="checkbox"/>	Phenacetin	62-44-2	0.081	16.0	160.0
<input type="checkbox"/>	Phenanthrene	85-01-8	0.059	5.6	56.0
<input type="checkbox"/>	Phenol	108-95-2	0.039	6.2	62.0
<input type="checkbox"/>	o-Phenylenediamine	95-54-5	N/A	N/A	N/A
<input type="checkbox"/>	Phorate	298-02-2	0.021	4.6	46.0
<input type="checkbox"/>	Phthalic acid	100-21-0	0.055	28.0	280.0
<input type="checkbox"/>	Phthalic anhydride	85-44-9	0.055	28.0	280.0
<input type="checkbox"/>	Physostigmine	57-47-6	0.056	1.4	14.0
<input type="checkbox"/>	Physostigmine salicylate	57-64-7	0.056	1.4	14.0
<input type="checkbox"/>	Promecarb	2631-37-0	0.056	1.4	14.0
<input type="checkbox"/>	Pronamide	23950-58-5	0.093	1.5	15.0
<input type="checkbox"/>	Propanenitrile	107-12-0	0.24	360.0	3600.0
<input type="checkbox"/>	Propham	122-42-9	0.056	1.4	14.0
<input type="checkbox"/>	Propoxur	114-26-1	0.056	1.4	14.0
<input type="checkbox"/>	Prosulfocarb	52888-80-9	0.042	1.4	14.0
<input type="checkbox"/>	Pyrene	129-00-0	0.067	8.2	82.0
<input type="checkbox"/>	Pyridine	110-86-1	0.014	16.0	160.0
<input type="checkbox"/>	Safrole	94-59-7	0.081	22.0	220.0
<input type="checkbox"/>	Sulfide	18496-25-8	14.0	N/A	N/A
<input type="checkbox"/>	2,4,5-T	93-76-5	0.72	7.9	79.0
<input type="checkbox"/>	TCDDs (All Tetrachlorodi-benzo-p-dioxins)	41903-57-5	0.000063	0.001	0.01
<input type="checkbox"/>	TCDFs (All Tetrachlorodibenzofurans)	30402-14-3	0.000063	0.001	0.01
<input type="checkbox"/>	2,4,5-TP (Silvex)	93-72-1	0.72	7.9	79.0
<input type="checkbox"/>	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14.0	140.0

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<input type="checkbox"/>	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0	60.0
<input type="checkbox"/>	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0	60.0
<input type="checkbox"/>	Tetrachloroethylene	127-18-4	0.056	6.0	60.0
<input type="checkbox"/>	2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4	74.0
<input type="checkbox"/>	Thiodicarb	59669-26-0	0.019	1.4	14.0
<input type="checkbox"/>	Thiophanate-methyl	23564-05-8	0.056	1.4	14.0
<input type="checkbox"/>	Toluene	108-88-3	0.08	10.0	100.0
<input type="checkbox"/>	Total PCBs (Polychlorinated biphenyls)	1336-36-3	0.1	10.0	100.0
<input type="checkbox"/>	Toxaphene	8001-35-2	0.0095	2.6	26.0
<input type="checkbox"/>	Triallate	2303-17-5	0.042	1.4	14.0
<input type="checkbox"/>	Tribromomethane	75-25-2	0.63	15.0	150.0
<input type="checkbox"/>	2,4,6-Tribromophenol	118-79-6	0.035	7.4	74.0
<input type="checkbox"/>	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.057	30.0	300.0
<input type="checkbox"/>	1,2,4-Trichlorobenzene	120-82-1	0.055	19.0	190.0
<input type="checkbox"/>	1,1,1-Trichloroethane	71-55-6	0.054	6.0	60.0
<input type="checkbox"/>	1,1,2-Trichloroethane	79-00-5	0.054	6.0	60.0
<input type="checkbox"/>	Trichloroethylene	79-01-6	0.054	6.0	60.0
<input type="checkbox"/>	Trichloromonofluoromethane (R11)	75-69-4	0.02	30.0	300.0
<input type="checkbox"/>	2,4,5-Trichlorophenol	95-95-4	0.18	7.4	74.0
<input type="checkbox"/>	2,4,6-Trichlorophenol	88-06-2	0.035	7.4	74.0
<input type="checkbox"/>	1,2,3-Trichloropropane	96-18-4	0.85	30.0	300.0
<input type="checkbox"/>	Triethylamine	121-44-8	0.081	1.5	15.0
<input type="checkbox"/>	Tris(2,3-dibromopropyl) phosphate	126-72-7	0.11	0.1	1.0
<input type="checkbox"/>	Vernolate	1929-77-7	0.042	1.4	14.0
<input type="checkbox"/>	Vinyl chloride	75-01-4	0.27	6.0	60.0
<input type="checkbox"/>	Xylene	1330-20-7	0.32	30.0	300.0
<input type="checkbox"/>	2,4-Xylidine	95-68-1	0.01	0.66	6.6
<input type="checkbox"/>	Antimony	7440-36-0	1.9	1.15	11.5
<input type="checkbox"/>	Arsenic	7440-38-2	1.4	5.0	50.0
<input type="checkbox"/>	Barium	7440-39-3	1.2	21.0	210.0
<input type="checkbox"/>	Beryllium	7440-41-7	0.82	1.22	12.2
<input type="checkbox"/>	Cadmium	7440-43-9	0.69	0.11	1.1
<input type="checkbox"/>	Chromium	7440-47-3	2.77	0.6	6.0
<input type="checkbox"/>	Lead	7439-92-1	0.69	0.75	7.5
<input type="checkbox"/>	Mercury	7439-97-6	0.15	0.025	0.25
<input type="checkbox"/>	Nickel	7440-02-0	3.98	11.0	110.0
<input type="checkbox"/>	Selenium	7782-49-2	0.82	5.7	57.0
<input type="checkbox"/>	Silver	7440-22-4	0.43	0.14	1.4
<input type="checkbox"/>	Thallium	7440-28-0	1.4	0.2	2.0
<input type="checkbox"/>	Vanadium	7440-62-2	4.3	1.6	16.0
<input type="checkbox"/>	Zinc	7440-66-6	2.61	4.3	43.0

Attachment 1 - Additional Radionuclides

Please list the supplementary radionuclides and their concentration values.