



ESHID-602439

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Date: MAR 0 6 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



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

& for JB

Enclosure (s) 1: Discrepancy Summary and Corrective Actions

2: Waste Profile Form 418663: Waste Profile Form 42757

Copy: Laurie King, USEPA/Region 6, Dallas, TX (E-File)

Dave Cobrain, NMED/HWB, Santa Fe, NM (E-File)

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ENCLOSURE 1

Discrepancy Summary and Corrective Action

EPC-DO: 17-095

LA-UR-17-21107

MAR 0 6 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 that 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 0 6 2017
Date:	



WASTE PROFILE FORM COVER SHEET

41866 APPROVED

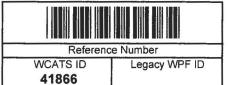
Waste Characteriz	ation Information
Waste Stream ID:	41866
WPF ID (Legacy):	
Waste Stream Name:	SPENT FERRIC CHLORIDE ETCHANT AND WATER.
Expiration Date:	07/29/2017
Waste Type:	Hazardous Waste
Radiological Type:	Non Radioactive
RCRA Category:	RCRA Solid Hazardous
Ancillary Types:	
Primary Composition:	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



Generator's Z Number Wa	aste Generator's Name (pri	nt) VM	C's Z Nu 217	ımber '511	WMC's Name (pa	rint) EFFREY	Generator's Phone 5056675401
		Waste Stre	am Took	haical Area			WMC Phone
Generator's Mail Stop Wa	este Generating Group DET-3	vvaste Stre	22	inical Area	Building 000091	B111	5056674537
Waste Accumulation (check	only one)				☐ PCBs Storage	e Area S	ite No:
☐ Satellite Accumulation Area ☐ Less-than-90 Days Storage ☐ TSDF ☐ Universal Waste Storage A ☐ Used Oil for Recycle ER Use Only	e Area Site No: Site No: orea Site No: Site No:				□ NM Special V □ Rad Staging A □ Rad Storage ☑ None of the A	Vaste S Area S Area S	ite No:ite No:
☐ ER Site	SWMU/AOC No	·					
Method of Characterization	check as many as apply)			***			
☑ Analysis/Documents Attact ☐ Chemical/Physical Analysi ☐ Radiological Analysis ☐ PCB Analysis ☐ Acceptable Knowledge Dot ☑ Material Safety Data Shee	S □ Attach □ Attach □ Attach □ Attach cumentation □ Attach	ned ned ned Do	Sa Sa Sa	imple No: imple No: imple No: tation No:	ric Chloride Etchants	MSDS	
Section 1 - Waste Prevention	Minimization (answer all o	questions)					
Can hazard segregation, elim			1?		Yes (provide com	ments) 5	I No
Can any of the materials in the	waste stream be recycled	or reused?			Yes (provide com		Ĭ No
Has waste minimization been	incorporated into procedur	es or other p	orocess	controls? ☑	Yes	1	No (provide comments)
Can this waste be generated	outside a RCA?				Yes (provide com	ments)] No ☑ N/A
Comments:							
Section 2 - Chemical and Phy	sical Information						
Waste Type (check only one)	Waste Category (che	ck all that ap	oply)	Waste Soul	ce (check only on	e) Wast	Matrix (check only one)
☐ Unused/Unspent Chemical	☑ Inorganic		,	Waste Soul		Gas	
☑ Process Waste/Spent	☐ Organic			☐ Decon			.5 Atmospheres Pressure
Chemical/Other	☐ Solvent (see instru				s Processing/Prod h/Development/Te	ating	.5 Atmospheres Pressure
Radiological Information	☐ Degreaser (see instance) ☐ Dioxin	structions)		Section of property continues the	ed Maintenance	isting 🗆 Lic	uified Compressed Gas
Was Waste generated in a RC					eping - Routine	Liqui	d
☐ Yes ☑ No	☐ Treated Hazardou	s Waste or F	Residue		anup - Routine		ueous
☑ Non-radioactive	☐ No-Longer Contain				g - Routine Monito	-	n-Aqueous
☐ Radioactive - Low Level	☐ Explosive Process			☐ Other (d	escribe)		spended Solids/Aqueous
☐ Radioactive - Transuranic	☐ Infectious/Medical☐ Biological☐						spended Solids/Non- lueous
Waste Destination (check on	- Dendium			Waste Soul	rce B	Solid	
SWWS	☐ Empty Container (ons)	☐ Abateme			wder/Ash/Dust
RLWTF	☐ Battery (see instru	ctions)			ction/Upgrades		
RLWTP	Asbestos ☐ Friable			☐ Demoliti		Si	
☐ TA-16/HE	☐ Non-Friable			☐ Decon/□	ecom ative Derived		sorbed/Solidified Liquid
□NTS	PCB Source Concer	ntration		☐ Orphan/		□ De	
Olera di Information	□ PCB < 50 ppm				ation/Restoration	Matri	k Type (check only one)
Classified Information ☑ Unclassified	☐ PCB >= 50 - < 500) ppm			ng (secondary)	Ø H¢	mogeneous
☐ Classified/Sensitive	☐ PCB >= 500 ppm ☐ Hazardous Waste	Contaminate	ed Soil		duled Maintenance		eterogeneous
Classified/Gensitive	☐ Untreated Hazardo		ea oon		eping (non-routing	=)	nor og on oo do
	☐ Commercial Solid	Waste			anup (non-routine) roleum Tanks	'	
	☐ Other [Describe]			☐ Petroleu			
				☐ Other (d	escribe)	Estim	ate Annual Volume (m³):
	Other:			Other:			775-XX

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) Corrosivity (check only one) (pH) Reactivity (check as many as apply) Boiling Point (check only one) **V** <= 2.0 ☐ RCRA Unstable □ <= 95 F (<= 35 C) □ < 73 F (< 22.8 C) □ 73 - 99 F (22.8 - 37.2 C) □ 2.1 - 4.0 ☐ Water Reactive ☑ >95 F (> 35 C) **4.1 - 6.0** ☐ Cyanide Bearing □ 100 - 139 F (37.8 - 59.4 C) ☐ Not Applicable ☐ 6.1 - 9.0 ☐ Sulfide Bearing □ 140 - 200 F (60.0 - 99.3 C) ☐ Pyrophoric □ > 200 (> 99.3 C) □ 9.1 - 12.4 □>= 12.5 ☐ Shock Sensitive ☐ EPA Ignitable - Non-liquid ☐ Explosive [Specify DOT Div.] ☐ DOT Flammable Gas ☐ Liquid Corrosive to Steel ☐ DOT Oxidizer ☐ Non-aqueous ☑ Non-Reactive ☑ Not Ignitable **Characterization Method Concentration of Contaminants** None or Contaminant present at Identify for all contaminants listed Regulatory Limit Minimum Non-detect Maxiumum (10,000 ppm = 1 **Toxicity Characteristic Metals** 0 to 0.0556 ppm Arsenic V 5.0 ppm Barium $\sqrt{}$ 0.16 ppm 100.0 ppm 0 to Cadmium \checkmark $\sqrt{}$ to ppm 1.0 ppm 9.34 ppm 5.0 ppm Chromium V 0 to $\sqrt{}$ Lead $\sqrt{}$ to ppm 5.0 ppm Mercury $\sqrt{}$ 0.2 ppm to ppm Selenium $\sqrt{}$ $\sqrt{}$ to ppm 1.0 ppm 0.0331 ppm Silver \checkmark 0 to 5.0 ppm **Toxicity Characteristic Organics** $\overline{\mathbf{V}}$ $\sqrt{}$ Benzene to 0.5 ppm ppm 0.5 ppm Carbon tetrachloride $\sqrt{}$ $\sqrt{}$ to ppm Chlorobenzene $\sqrt{}$ 100.0 ppm to ppm Chloroform $\sqrt{}$ 6.0 ppm ablato ppm Cresol \square $\sqrt{}$ to 200.0 ppm ppm \square 200.0 ppm p-Cresol П $\sqrt{}$ to ppm 200.0 ppm m-Cresol \square $\sqrt{}$ to ppm V V 200.0 ppm o-Cresol to ppm 1,4-Dichlorobenzene $\sqrt{}$ ablato ppm 7.5 ppm 1,2-Dichloroethane $\sqrt{}$ \checkmark to ppm 0.5 ppm $\sqrt{}$ $\sqrt{}$ 1,1-Dichloroethylene to ppm 0.7 ppm 0.13 ppm 2,4-Dinitrotoluene $\sqrt{}$ Ø to ppm 0.13 ppm Hexachlorobenzene $\sqrt{}$ $\sqrt{}$ to ppm Hexachlorobutadiene $\sqrt{}$ to 0.5 ppm ppm $\sqrt{}$ 3.0 ppm Hexachloroethane $\sqrt{}$ to ppm Methyl ethyl ketone $\sqrt{}$ П $\sqrt{}$ to 200.0 ppm ppm 2.0 ppm Nitrobenzene ∇ П $\sqrt{}$ to ppm 100.0 ppm Pentachlorophenol V \square to ppm Pyridine \checkmark $\sqrt{}$ to ppm 5.0 ppm Tetrachloroethylene $\sqrt{}$ to 0.7 ppm ppm Trichloroethylene V $\sqrt{}$ to ppm 0.5 ppm \square \square 2.0 ppm 2,4,6-Trichlorophenol to ppm 2,4,5-Trichlorophenol $\sqrt{}$ \square 400.0 ppm to ppm

Vinyl chloride

Methoxychlor

Toxaphene

2,4,5-TP (Silvex)

Chlordane

2,4-D

Endrin

Herbicides and Pesticides

Heptachlor (& its epoxide)

Lindane (gamma-BHC)

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0.2 ppm

0.03 ppm

10.0 ppm

0.02 ppm

0.4 ppm

10.0 ppm

1.0 ppm

0.5 ppm

0.008 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 constients (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"

"No CAS Number".		I Dalimino Luca (m. m. ma)	Marinaum (mm
CAS No.	Name of constituent	Minimum (ppm)	Maximum (ppr
7732-18-5	WATER	300000 to	550000
7440-50-8 7439-89-6	IRON	10000 to	30000 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 %
ection 6 - Work Cor	ntrol Documentation		
Do the procedures for	or this process cover how to manage this waste?	mments)	
Do the procedures it	This process cover now to manage this waste:		
Do the procedures for	or this process address controls to prevent changes to waste constituents and concentration	· · · · · · · · · · · · · · · · · · ·	noval of
	or this process address controls to prevent changes to waste constituents and concentration	· · · · · · · · · · · · · · · · · · ·	moval of
Do the procedures for waste to/from contain Comments: ection 7 - Packagin Describe how the wa	or this process address controls to prevent changes to waste constituents and concentration ners? Yes No (provide comments) g and Storage Control ste will be packaged in according to the applicable WAC.	· · · · · · · · · · · · · · · · · · ·	noval of
Do the procedures for waste to/from contain Comments: ection 7 - Packagin Describe how the wall DOT compliant contains	or this process address controls to prevent changes to waste constituents and concentration ners? Yes No (provide comments) g and Storage Control ste will be packaged in according to the applicable WAC.	· · · · · · · · · · · · · · · · · · ·	noval of
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Do the procedures for waste to/from contain Comments: ection 7 - Packagin Describe how the wa DOT compliant contain dentify the storage management of the process of the p	or this process address controls to prevent changes to waste constituents and concentration there? ☑ Yes ☐ No (provide comments) g and Storage Control ste will be packaged in according to the applicable WAC. inter nanagement controls that will be used for this waste stream: (check all that apply) Devices ☐ Limited use locks with log-in for waste ☑ Locked cabinet or building ☐ Other	ns or addition or ren	noval of
Do the procedures for waste to/from contain Comments: ection 7 - Packagin Describe how the was DOT compliant contain dentify the storage management of Tamper Indication ection 8 - Waste Ce	rethis process address controls to prevent changes to waste constituents and concentration ners?	ns or addition or ren	noval of
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Do the procedures for waste to/from contain Comments: ection 7 - Packagin Describe how the waste Compliant contain Compliant Comp	g and Storage Control ste will be packaged in according to the applicable WAC. inner management controls that will be used for this waste stream: (check all that apply) Devices Limited use locks with log-in for waste Locked cabinet or building Other intification Statements meet WAC attachment for: HAZ dis exception/exemption for treatment, storage, or disposal. eet the criteria for any known TSDF. (DOE approval is required. Contact the office of the Pris [PADWP] for assistance.) rtification: Based on my knowledge of the waste and/or chemical/physical analysis, I certification or agencies and that it meets the requirements of the applicable waste acceptance criteria. regulatory agencies and that there are significant penalties for submitting false information, wing violations. MillLS (088282) Date: 07/30/15 08:26 All ricial: I have reviewed this form and any associated attachments and the characterization in fer. I certify, to the best of my knowledge, that the waste characterization information provide	ns or addition or ren er (describe) inciple Associate Di fy that the waste che I understand that to including the possion	irector for aracterization this information w bility of fines and
Do the procedures for waste to/from contain Comments: ection 7 - Packagin Describe how the waste Compliant contain Compliant Complete Compliant Com	g and Storage Control ste will be packaged in according to the applicable WAC. inner management controls that will be used for this waste stream: (check all that apply) Devices Limited use locks with log-in for waste Locked cabinet or building Othertification Statements meet WAC attachment for: HAZ dis exception/exemption for treatment, storage, or disposal. Beet the criteria for any known TSDF. (DOE approval is required. Contact the office of the Priss [PADWP] for assistance.) retification: Based on my knowledge of the waste and/or chemical/physical analysis, I certification: Based on my knowledge of the waste and/or chemical/physical analysis, I certification: Based on my knowledge of the waste and/or submitting false information, wing violations. MINILS (088282) Date: 07/30/15 08:26 Aid in the waste characterization information provide policable WAC.	ns or addition or ren er (describe) inciple Associate Di fy that the waste che I understand that the including the possi M information provided ed by the waste ger	irector for aracterization this information willity of fines and
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		Att	achment 4 - LDR	and UHC	
Ider	tify category and presence of any constituents				1991
Nor	-Wastewater/Wastewater Category (check of	only one)		82.22	
	Non Wastewater			☐ Lab Pack [40 CFR 268.2	2(f)] Sign Certification #1
	ifications and Certifications - Check the ap	plicable box	es		
	nerator Requirements: This shipment contains hazardous waste conta	aminatad aail	that does not may	at tractment standards	Sign Certification #2
	This shipment contains hazardous waste contains shipment contains untreated hazardous d				(No certification)
	Hazardous wastes (except soil) meeting treatn				Sign Certification #3
	Hazardous wastes contaminated soil meeting	treatment sta	ndards at point of	generation	Sign Certification #4
TSE	OF or Generator Treatment:				
	TSDF treated hazardous debris meeting the a				Sign Certification #5
	Generator treated hazardous debris meeting t			ards of 40 CFR 268.45	Sign Certification #6
	Hazardous wastes contaminated soil treated to Wastes or residues from characteristic hazard			reatment standards and LITS	Sign Certification #7 Sign Certification #8
	Wastes or residues from characteristic hazard				Sign Certification #9
2.650.100	Other TSDF wastes meeting the more stringe			O 1 1 1 1 1 1 1 1	Sign Certification #10
	Other generator wastes meeting the more stri	ngent 40 CFF	R 268.40 treatmen	t standards to be land disposed	Sign Certification #11
1				ardous Constituents	
_	(Check the applicable underlying cons			n levels for D001 through D043 ch	aracterstic wastes only)
	No Underlying Hazardous Constituents in the	nis waste str			
	Ornania Canatituanta	04000	Wastewater	Non Wastewater Standard	Hazardous Soil 10Xs UTS
				(ma/ka rinless noted otherwise)	(malka unlace noted athonying)
П	Organic Constituents Acenaphthene	The state of the later of the l			(mg/kg unless noted otherwise)
	Acenaphthene	83-32-9 208-96-8	0.059	3.4	34.0
	Acenaphthene Acenaphthylene	83-32-9 208-96-8	0.059 0.059		34.0 34.0
	Acenaphthene	83-32-9	0.059 0.059 0.28	3.4 3.4	34.0 34.0 1600.0
	Acenaphthene Acenaphthylene Acetone	83-32-9 208-96-8 67-64-1 75-05-8	0.059 0.059 0.28 5.6	3.4 3.4 160.0 38.0	34.0 34.0 1600.0 380.0
	Acenaphthene Acetone Acetonitrile	83-32-9 208-96-8 67-64-1	0.059 0.059 0.28 5.6 0.01	3.4 3.4 160.0	34.0 34.0 1600.0
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2	0.059 0.059 0.28 5.6 0.01 0.059	3.4 3.4 160.0 38.0 9.7	34.0 34.0 1600.0 380.0 97.0
	Acenaphthene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3	0.059 0.059 0.28 5.6 0.01 0.059	3.4 3.4 160.0 38.0 9.7 140.0	34.0 34.0 1600.0 380.0 97.0
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8	0.059 0.059 0.28 5.6 0.01 0.059	3.4 3.4 160.0 38.0 9.7 140.0 N/A	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1	0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrylamide Acrylonitrile	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1	0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4	0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2	0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1	0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A
	Acenaphthene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl Aniline	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1 62-53-3	0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81 0.01	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A 14.0	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A 140.0
	Acenaphthene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl Aniline o-Anisidine	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1 62-53-3 90-04-0	0.059 0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81 0.01 0.059	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A 14.0 0.66	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A 140.0 6.6
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl Aniline o-Anisidine Anthracene	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1 62-53-3 90-04-0 120-12-7	0.059 0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81 0.01 0.059 0.36	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A 14.0 0.66 3.4	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A 140.0 6.6
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl Aniline o-Anisidine Anthracene Aramite	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1 62-53-3 90-04-0 120-12-7 140-57-8	0.059 0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81 0.01 0.059 0.36 0.00014	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A 14.0 0.66 3.4 N/A	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A 140.0 6.6 34.0 N/A
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl Aniline o-Anisidine Anthracene Aramite alpha-BHC	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1 62-53-3 90-04-0 120-12-7 140-57-8 319-84-6	0.059 0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81 0.01 0.059 0.36 0.00014 0.00014	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A 14.0 0.66 3.4 N/A 0.066	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A 140.0 6.6 34.0 N/A 0.66
	Acenaphthene Acenaphthylene Acetone Acetonitrile Acetophenone 2-Acetylaminofluorene Acrolein Acrylamide Acrylonitrile Aldicarb sulfone Aldrin 4-Aminobiphenyl Aniline o-Anisidine Anthracene Aramite alpha-BHC beta-BHC	83-32-9 208-96-8 67-64-1 75-05-8 98-86-2 53-96-3 107-02-8 79-06-1 107-13-1 1646-88-4 309-00-2 92-67-1 62-53-3 90-04-0 120-12-7 140-57-8 319-84-6 319-85-7	0.059 0.059 0.059 0.28 5.6 0.01 0.059 0.29 19.0 0.24 0.056 0.021 0.13 0.81 0.01 0.059 0.36 0.00014 0.00014 0.0023	3.4 3.4 160.0 38.0 9.7 140.0 N/A 23.0 84.0 0.28 0.066 N/A 14.0 0.66 3.4 N/A 0.066 0.066	34.0 34.0 1600.0 380.0 97.0 1400.0 N/A 230.0 840.0 2.8 0.66 N/A 140.0 6.6 34.0 N/A 0.66 0.66

☐ Butylate

☐ Carbaryl

☐ Benomyl

☐ Benzene

☐ Benz[a]anthracene

☐ Benzo(b)fluoranthene

Benzo[a]pyrene

☐ Benzo[ghi]perylene

☐ Benzo[k]fluoranthene

☐ Bis(2-Chloroethoxy)methane

Bis(2-chloroethyl) ether

☐ Bis(2-chloroisopropyl) ether

☐ 4-Bromophenyl phenyl ether

□ Bromodichloromethane

Bromomethane

n-Butyl alchohol

☐ Butyl benzyl phthalate

Bis(2-ethylhexyl) phthalate

☐ Benzal chloride

17804-35-2

56-55-3

98-87-3

71-43-2

50-32-8

191-24-2

207-08-9

111-91-1

111-44-4

117-81-7

75-27-4

74-83-9

101-55-3

71-36-3

85-68-7

63-25-2

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Ca Ca Ca Ca Ca Ca Ca Ca	arbendazim arbofuran arbofuran phenol arbon disulfide arbon tetrachloride arbosulfan hlordane Chloro-m-cresol Chloroaniline hlorobenzene hlorodibromomethane hloroethane Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chloropropylene hrysene Cresidine	10605-21-7 1563-66-2 1563-38-8 75-15-0 56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.056 3.8 0.057 0.028 0.0033 0.018 0.46 0.057	1.4 0.14 1.4 4.8 6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0 5.6	14.0 1.4 14.0 48.0 60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0 56.0
Ca Ca Ca Ca Ca Ca Ca Ca	arbofuran phenol arbon disulfide arbon tetrachloride arbosulfan hlordane -Chloro-m-cresol -Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane -Chloroethyl vinyl ether hloroform hloromethane -Chloronaphthalene -Chlorophenol hloroprene -Chloropropylene hrysene -Cresidine	1563-38-8 75-15-0 56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.056 3.8 0.057 0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	1.4 4.8 6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	14.0 48.0 60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
Ca Ca Ca Ca Ca Ca Ca Ca	arbon disulfide arbon tetrachloride arbosulfan hlordane Chloro-m-cresol Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane hloroethane Chloroethyl vinyl ether hloromethane Chloromaphthalene Chloropropylene hloropropylene hrysene Cresidine	75-15-0 56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	3.8 0.057 0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	4.8 6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	48.0 60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
Ca Ca Ca Ca Ca Ca Ca Ca	arbon tetrachloride arbosulfan hlordane Chloro-m-cresol Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane chloroethane Chloroethyl vinyl ether hloromethane Chloromethane Chlorophenol hloroprene Chloropropylene hrysene Cresidine	56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.057 0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
Ca Cr	arbosulfan hlordane -Chloro-m-cresol -Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane hloroethane -Chloroethyl vinyl ether hloroform hloromethane -Chlorophenol hloroprene -Chloropropylene hrysene -Cresidine	55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
Cr p-1 Cr	hlordane Chloro-m-cresol Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane hloroethane Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chloroprene Chloropropylene hrysene Cresidine	57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0	2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0
p-d p-d p-d	Chloro-m-cresol Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane hloroethane Chloroethyl vinyl ether hloromethane Chloromaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0	140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
P-1 Cr Cr Cr Cr Cr Cr Cr C	Chloroaniline hlorobenzene hlorobenzilate hlorodibromomethane hloroethane Chloroethyl vinyl ether hloromethane Chloromaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
Cr Cr Cr Cr Cr Cr Cr Cr	hlorobenzene hlorobenzilate hlorodibromomethane hloroethane Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	6.0 N/A 15.0 6.0 N/A 6.0 30.0	60.0 N/A 150.0 60.0 N/A 60.0 300.0
Cr Cr Cr Cr Cr Cr Cr Cr	hlorobenzilate hlorodibromomethane hloroethane Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.1 0.057 0.27 0.062 0.046 0.19 0.055	N/A 15.0 6.0 N/A 6.0 30.0	N/A 150.0 60.0 N/A 60.0 300.0
Cr Cr Cr Cr Cr Cr Cr Cr	hlorodibromomethane hloroethane Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.057 0.27 0.062 0.046 0.19 0.055	15.0 6.0 N/A 6.0 30.0	150.0 60.0 N/A 60.0 300.0
Ch 2-4 Ch Ch Ch Ch Ch Ch Ch C	hloroethane Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.27 0.062 0.046 0.19 0.055	6.0 N/A 6.0 30.0	60.0 N/A 60.0 300.0
2-0 Cr	Chloroethyl vinyl ether hloroform hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.062 0.046 0.19 0.055	N/A 6.0 30.0	N/A 60.0 300.0
Cr Cr Cr	hloroform hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	67-66-3 74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.046 0.19 0.055	6.0 30.0	60.0 300.0
Cr 2-4 Cr 2-4 Cr 3-6 Cr 3-6 Cr 9-6 m-9 p-6 m-9 m-1 m-1 m-1	hloromethane Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	74-87-3 91-58-7 95-57-8 126-99-8 107-05-1	0.19 0.055	30.0	300.0
2-d 2-d Ch	Chloronaphthalene Chlorophenol hloroprene Chloropropylene hrysene Cresidine	91-58-7 95-57-8 126-99-8 107-05-1	0.055		
2-(Chlorophenol hloroprene Chloropropylene hrysene Cresidine	95-57-8 126-99-8 107-05-1	The second secon	5.6	AND THE PARTY OF T
Cr 3-(Cr p-(m- o-(p-(hloroprene Chloropropylene hrysene Cresidine	126-99-8 107-05-1	0.044		
3-(Ch p-(m- p-(p-(m- p-(m-	Chloropropylene hrysene Cresidine	107-05-1	COPP	5.7	57.0
Ch p-(m- o-(p-(hrysene Cresidine		0.057	0.28	2.8
p-(m- p-(p-(m- m- m- m- m- m- m-	Cresidine	040 04 0	0.036	30.0	300.0
m- 0-0 p-0		218-01-9	0.059	3.4	34.0
] o-(120-71-8	0.01	0.66	6.6
] p-(-Cresol	108-39-4	0.77	5.6	56.0
] m-	Cresol	95-48-7	0.11	5.6	56.0
_	Cresol	106-44-5	0.77	5.6	56.0
	-Cumenyl methylcarbamate	64-00-6	0.056	1.4	14.0
_	yanide (Amenable)	57-12-5*	0.86	30.0	300.0
THE RESERVE AND DESCRIPTION OF REAL PROPERTY.	yanide (Total)	57-12-5	1.2	590.0	5900.0
_	yclohexanone	108-94-1	0.36	0.75	7.5
	4-D	94-75-7	0.72	10.0	100.0
_	p'-DDD	53-19-0	0.023	0.087	0.87
	p'-DDD	72-54-8	0.023	0.087	0.87
	p'-DDE	3424-82-6	0.031	0.087	0.87
	p'-DDE	72-55-9	0.031	0.087	0.87
_	p'-DDT	789-02-6	0.0039	0.087	0.87
STREET, SQUARE,	p'-DDT	50-29-3	0.0039	0.087	0.87
	i-n-butyl phthalate	84-74-2	0.057	28.0	280.0
	i-n-octyl phthalate	117-84-0	0.017	28.0	280.0
_	i-n-propylnitrosamine	621-64-7 53-70-3	0.4	14.0	140.0
_	benz[a,h]anthracene		0.055	8.2	82.0
	benzo[a,e]pyrene	192-65-4	0.061	N/A	N/A
	2-Dibromo-3-chloropropane	96-12-8 106-93-4	0.11	15.0	150.0
	2-Dibromoethane	A PROPERTY OF STREET,	0.028	15.0	150.0
W 42	bromomethane	74-95-3		15.0	150.0
	4-Dichlorobenzene -Dichlorobenzene	106-46-7	0.09	6.0	60.0
_		541-73-1	0.036	6.0	60.0
	Dichlorobenzene ichlorodifluoromethane	95-50-1	0.088	6.0	60.0
	Andrew Commence of the Commenc	75-71-8 75-34-3	0.23 0.059	7.2 6.0	72.0
	1-Dichloroethane 2-Dichloroethane	107-06-2	0.059	6.0	60.0
		75-35-4	0.025	6.0	60.0
_	1-Dichloroethylene				60.0
_	ans-1,2-Dichloroethylene	156-60-5	0.054	30.0	300.0
	4-Dichlorophenol	120-83-2	0.044	14.0	140.0
_	6-Dichlorophenol	87-65-0	0.044	14.0	140.0
	2-Dichloropropane	78-87-5	0.85	18.0	180.0
THE RESERVE	ans-1,3-Dichloropropene	10061-02-6	0.036	18.0	180.0
	s-1,3-Dichloropropylene	10061-01-5	AND DESCRIPTION OF THE PARTY OF	18.0	180.0
-	eldrin ethyl phthalate	60-57-1 84-66-2	0.017	0.13 28.0	1.3 280.0

D. Denertlyfaminoazobenzene 60:11.7 0.13 N/A 14.0 2.4-Denethylybenori		Organic Constituents	CASRN	Wastewater Standard (mg/L)	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
□ 24-Dimethylphenol 105-67-9 0.036 14.0 140.0 1800.0		Dimethyl phthalate	131-11-3	0.047	28.0	280.0
□ 48-Dintro-ceresol 534-5271 0.28 160.0 1600.0 □ 24-Dintrorberane 1024 22 23 23 23 □ 24-Distrorbenol 151-28-5 0.12 160.0 1600.0 1600.0 □ 24-Distrorbolume 606-20-2 0.85 2.8 0.20.0 1400.0 □ 24-Distrorbolume 606-20-2 0.85 2.8 2.5 25.0 □ 14-Dissane 122-38-4 0.92 1700.0 17000.0 17000.0 □ 14-Dissane 122-38-4 0.92 13.0 130.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0		p-Dimethylaminoazobenzene	60-11-7	0.13	N/A	N/A
□ 14-Dintrobenzene □ 100-25-4 □ 24-Distroblanel □ 25-Distroblanel □ 25-Distroblane		2,4-Dimethylphenol	105-67-9	0.036	14.0	140.0
2.4-Dintrotolune		4,6-Dinitro-o-cresol	534-52-1	0.28	160.0	1600.0
24-Introducene		1,4-Dinitrobenzene	100-25-4	0.32	2.3	23.0
26-Dimitrotioner 608-202 0.55 28.0 280.0 280.0		2,4-Dinitrophenol	51-28-5	0.12	160.0	1600.0
Dinoseb 88-85-7 0.086 2.5 2.5 2.5		2,4-Dinitrotoluene	121-14-2	0.32	140.0	1400.0
1.4.Discane		2,6-Dinitrotoluene	606-20-2	0.55	28.0	280.0
Diphenylamine		Dinoseb	88-85-7	0.066	2.5	25.0
12.26/phenylhydrazine		1,4-Dioxane	123-91-1	12.0	170.0	1700.0
Distriction		Diphenylamine	122-39-4	0.92	13.0	130.0
Delin Delin Control Proceedings Process Process		1,2-Diphenylhydrazine	122-66-7	0.087	N/A	N/A
EPTC		Disulfoton	298-04-4	0.017	6.2	62.0
Indosulfan 989-98-8 0.023 0.066 0.66 0.66 0.065 0.029 0.13 1.3		Dithiocarbamates (total)	WCATS-001	0.028	28.0	280.0
Endosulfan II		EPTC	759-94-4	0.042	1.4	14.0
Indosulfan sulfate		Endosulfan I	959-98-8	0.023	0.066	0.66
Endrin 72-20-8 0.0028 0.13 1.3		Endosulfan II	33213-65-9	0.029	0.13	1.3
Endrin 72-20-8 0.0028 0.13 1.3		Endosulfan sulfate	1031-07-8	0.029	0.13	
Endrin aldehyde		Endrin	72-20-8	CONTRACTOR OF THE PARTY OF THE		
Ethyl acetate	_	Endrin aldehyde				
Ethyl benzene				100000000000000000000000000000000000000		
Ethyl ether	_		100-41-4		10.0	
Ethylene oxide		Ethyl ether	60-29-7	0.12		
Ethylene oxide	ACCRECATE VALUE OF THE PARTY OF					
Famphur	-	And the Advantage of the part of the Control of the				
Fluoranthene 206-44-0 0.068 3.4 34.0 Fluorene 86-73-7 0.059 3.4 34.0 Fluoride 16984-48-8 35.0 N/A N/A Formetanate hydrochloride 23422-53-9 0.056 1.4 14.0 Heptachlor (& its epoxide) 76-44-8 0.0012 0.066 0.66 Heptachlor (& its epoxide) 1024-57-3 0.016 0.066 0.66 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin 35822-46-9 0.00035 0.0025 0.025 1,2,3,4,6,7,8-Heptachlorodibenzofuran 67662-39-4 0.000035 0.0025 0.025 1,2,3,4,7,8,9-Heptachlorodibenzofuran 67662-39-4 0.000035 0.0025 0.025 1,2,3,4,7,8,9-Heptachlorodibenzofuran 118-74-1 0.055 10.0 100.0 Hexachlorobutadiene 87-88-3 0.055 5.6 56.0 Hexachlorochlorobutadiene 87-88-3 0.055 5.6 56.0 Hexachlorochlorobutadiene 67-72-1 0.055 30.0 300.0 Hexachloropenate 188-71-7 0.035 30.0 300.0 Hexachloropenate 188-71-7 0.035 30.0 300.0 HxCDDs (All Hexachlorodibenzo-p-dioxins) 34465-48-8 0.000063 0.001 0.01 Indeno[1,2,3-cd]pyrene 193-39-5 0.0055 3.4 34.0 Iodomethane 74-88-4 0.19 65.0 650.0 Isosafrole 120-58-1 0.081 2.6 26.0 Isosafrole 120-58-1 0.081 2.6 26.0 Kepone 143-50-0 0.0011 0.13 1.3 Lindane (gamma-BHC) 58-89-9 0.0017 0.066 0.66 Methacryloritile 128-98-7 0.028 36.0 36.0 Methocychlor 77-43-5 0.028 0.14 1.4 Methocychlor 77-43-5 0.25 0.18 1.8 Methyl methacrylate 80-62-6 0.14 160.0 1600.0	_					
Fluoriee	-		The state of the s			The same and the s
Fluoride						
Formetanate hydrochloride 23422-53-9 0.056 1.4 14.0 Heptachlor (& its epoxide) 76-44-8 0.0012 0.066 0.66 0.66	100					
Heptachlor (& its epoxide)						
Heptachlor epoxide			The production and the street states		THE RESERVE OF THE PERSON OF T	
1,2,3,4,6,7,8-Heptachlorodibenzorp-dioxin 35822-46-9 0.000035 0.0025 0.025 0.025 1,2,3,4,6,7,8-Heptachlorodibenzofuran 67562-39-4 0.000035 0.0025 0.025 0.025 1,2,3,4,7,8,9-Heptachlorodibenzofuran 55673-89-7 0.000035 0.0025 0.025 0.025 1,2,3,4,7,8,9-Heptachlorodibenzofuran 55673-89-7 0.000035 0.0025 0.0025 0.0	NAME OF TAXABLE PARTY.					
1,2,3,4,6,7,8-Heptachlorodibenzofuran 57562-39-4 0.000035 0.0025 0.025 0.025 1,2,3,4,7,8,9-Heptachlorodibenzofuran 55673-89-7 0.000035 0.0025 0.025 1 Hexachlorobenzene 118-74-1 0.055 10.0 100.0 Hexachlorobutadiene 87-68-3 0.055 5.6 56.0 Hexachlorocyclopentadiene 77-47-4 0.057 2.4 24.0 Hexachlorocyclopentadiene 67-72-1 0.055 30.0 300.0 Hexachloropropene 1888-71-7 0.035 30.0 300.0 HxCDDs (All Hexachlorodibenzo-p-dioxins) 34465-46-8 0.000063 0.001 0.01 HxCDFs (All Hexachlorodibenzo-furans) 55684-94-1 0.000063 0.001 0.01 Indenof1,2,3-cd]pyrene 193-39-5 0.0055 3.4 34.0 Idodomethane 74-88-4 0.19 65.0 650.0 Isodrin 465-73-6 0.021 0.066 0.66 Isodrin 465-73-6 0.021 0.066 0.66 Isodrin 465-73-6 0.021 0.066 0.66 Isodrin 465-73-6 0.0011 0.13 1.3 Lindane (gamma-BHC) 58-89-9 0.0017 0.066 0.66 Mercury (Retort Residues) 7439-97-6* N/A 0.2 2.0 Methacrylonitrile 126-98-7 0.24 84.0 840.0 Methacrylonitrile 126-98-7 0.24 84.0 840.0 Methacrylonitrile 91-80-5 0.081 1.5 15.0 Methacrylonitrile 91-80-5 0.081 1.5 15.0 Methonyl 16752-77-5 0.028 0.14 1.4 Methonyl 16752-77-5 0.028 0.14 1.4 Methonyl 16752-77-5 0.028 0.14 1.4 Methonyl 16752-77-5 0.28 36.0 360.0 Methyl ethyl ketone 78-93-3 0.28 36.0 360.0 Methyl isobutyl ketone 108-10-1 0.14 33.0 330.0	-	The state of the s			The second secon	
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Hexachlorocyclopentadiene	-			The second secon		
Hexachloroethane						
Hexachloropropene	-			T T TWENTY OF THE PARTY OF THE	Transaction of the second	THE STATE OF THE S
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HxCDFs (All Hexachlorodibenzo-furans) 55684-94-1 0.000063 0.001 0.01 Indeno[1,2,3-cd]pyrene 193-39-5 0.0055 3.4 34.0 Idodomethane 74-88-4 0.19 65.0 650.0 Isobutyl alcohol 78-83-1 5.6 170.0 1700.0 Isodrin 465-73-6 0.021 0.066 0.66 Isosafrole 120-58-1 0.081 2.6 26.0 Kepone 143-50-0 0.0011 0.13 1.3 Lindane (gamma-BHC) 58-89-9 0.0017 0.066 0.66 Mercury (Retort Residues) 7439-97-6* N/A 0.2 2.0 Methacrylonitrile 126-98-7 0.24 84.0 840.0 Methapyrilene 91-80-5 0.081 1.5 15.0 Methapyrilene 91-80-5 0.081 1.5 15.0 Methorylonitrile 16752-77-5 0.028 0.14 14.0 Methonyl 16752-77-5 0.028 0.14 1.4 Methoxychlor 72-43-5 0.25 0.18 1.8 Methyl ethyl ketone 78-93-3 0.28 36.0 360.0 Methyl methacrylate 80-62-6 0.14 160.0 1600.0						
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Isosafrole						
Kepone		the state of the s				
Lindane (gamma-BHC) 58-89-9 0.0017 0.066 0.66 Mercury (Retort Residues) 7439-97-6* N/A 0.2 2.0 Methacrylonitrile 126-98-7 0.24 84.0 840.0 Methanol 67-56-1 5.6 0.75 7.5 Methapyrilene 91-80-5 0.081 1.5 15.0 Methiocarb 2032-65-7 0.056 1.4 14.0 Methomyl 16752-77-5 0.028 0.14 1.4 Methoxychlor 72-43-5 0.25 0.18 1.8 Methyl ethyl ketone 78-93-3 0.28 36.0 360.0 Methyl isobutyl ketone 108-10-1 0.14 33.0 330.0 Methyl methacrylate 80-62-6 0.14 160.0 1600.0			The second secon	A R COLUMN TO THE PARTY OF THE		
Mercury (Retort Residues) 7439-97-6* N/A 0.2 2.0 Methacrylonitrile 126-98-7 0.24 84.0 840.0 Methanol 67-56-1 5.6 0.75 7.5 Methapyrilene 91-80-5 0.081 1.5 15.0 Methiocarb 2032-65-7 0.056 1.4 14.0 Methomyl 16752-77-5 0.028 0.14 1.4 Methoxychlor 72-43-5 0.25 0.18 1.8 Methyl ethyl ketone 78-93-3 0.28 36.0 360.0 Methyl isobutyl ketone 108-10-1 0.14 33.0 330.0 Methyl methacrylate 80-62-6 0.14 160.0 1600.0	THE REAL PROPERTY.					
Methacrylonitrile 126-98-7 0.24 84.0 840.0 Methanol 67-56-1 5.6 0.75 7.5 Methapyrilene 91-80-5 0.081 1.5 15.0 Methiocarb 2032-65-7 0.056 1.4 14.0 Methomyl 16752-77-5 0.028 0.14 1.4 Methoxychlor 72-43-5 0.25 0.18 1.8 Methyl ethyl ketone 78-93-3 0.28 36.0 360.0 Methyl isobutyl ketone 108-10-1 0.14 33.0 330.0 Methyl methacrylate 80-62-6 0.14 160.0 1600.0						
Methanol 67-56-1 5.6 0.75 7.5 Methapyrilene 91-80-5 0.081 1.5 15.0 Methiocarb 2032-65-7 0.056 1.4 14.0 Methomyl 16752-77-5 0.028 0.14 1.4 Methoxychlor 72-43-5 0.25 0.18 1.8 Methyl ethyl ketone 78-93-3 0.28 36.0 360.0 Methyl isobutyl ketone 108-10-1 0.14 33.0 330.0 Methyl methacrylate 80-62-6 0.14 160.0 1600.0					The state of the s	
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☐ Methyl methacrylate 80-62-6 0.14 160.0 1600.0	Maria Company					
		- Filter				
Paints J 2/9/2017 0.10.40434			80-62-6		***************************************	1600.0

	Organic Constituents		CARLES TO THE RESIDENCE OF THE PARTY OF THE	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
	Methyl methanesulfonate	66-27-3		N/A	N/A
	Methyl parathion	298-00-0		4.6	46.0
	3-Methylcholanthrene	56-49-5	THE RESERVE THE PERSON NAMED IN	15.0	150.0
	4,4'-Methylene bis(2-chloroaniline)	101-14-4		30.0	300.0
	Methylene chloride	75-09-2		30.0	300.0
	Metolcarb	1129-41-5		1.4	14.0
	Mexacarbate	315-18-4	0.056	1.4	14.0
	Molinate	2212-67-1	0.042	1.4	14.0
	N-Nitroso-di-n-butylamine	924-16-3	0.4	17.0	170.0
	N-Nitrosodiethylamine	55-18-5	0.4	28.0	280.0
	N-Nitrosodimethylamine	62-75-9	0.4	2.3	23.0
	N-Nitrosodiphenylamine	86-30-6	0.92	13.0	130.0
	N-Nitrosomethylethylamine	10595-95-6	0.4	2.3	23.0
	N-Nitrosomorpholine	59-89-2	0.4	2.3	23.0
	N-Nitrosopiperidine	100-75-4	0.013	35.0	350.0
	N-Nitrosopyrrolidine	930-55-2	0.013	35.0	350.0
	Naphthalene	91-20-3	0.059	5.6	56.0
	2-Naphthylamine	91-59-8	0.52	N/A	N/A
	5-Nitro-o-toluidine	99-55-8	0.32	28.0	280.0
	o-Nitroaniline	88-74-4	0.27	14.0	140.0
	p-Nitroaniline	100-01-6		28.0	280.0
	Nitrobenzene	98-95-3	0.068	14.0	140.0
	o-Nitrophenol	88-75-5	0.028	13.0	130.0
	p-Nitrophenol	100-02-7	0.12	29.0	290.0
	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	0.000063	0.005	0.05
State 1 C	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	0.000063	0.005	0.05
		23135-22-0		0.28	
	©xamyl Danathia	Control of the Contro	The state of the s		2.8
	Parathion	56-38-2	0.014	4.6	46.0
	PeCDDs (All Pentachlorodibenzo-p-dioxins)	36088-22-9	0.000063	0.001	0.01
	PeCDFs (All Pentachlorodibenzo-furans)	30402-15-4	0.000035	0.001	0.01
	Pebulate	1114-71-2	0.042	1.4	14.0
	Pentachlorobenzene	608-93-5	0.055	10.0	100.0
	Pentachloroethane	76-01-7	0.055	6.0	60.0
	Pentachloronitrobenzene	82-68-8	0.055	4.8	48.0
国	Pentachlorophenol	87-86-5	0.089	7.4	74.0
	Phenacetin	62-44-2	0.081	16.0	160.0
	Phenanthrene	85-01-8		5.6	56.0
	Phenol	108-95-2	0.039	6.2	62.0
	o-Phenylenediamine	95-54-5	N/A	N/A	N/A
	Phorate	298-02-2	0.021	4.6	46.0
	Phthalic acid	100-21-0	0.055	28.0	280.0
	Phthalic anhydride	85-44-9	0.055	28.0	280.0
	Physostigmine	57-47-6	0.056	1.4	14.0
	Physostigmine salicylate	57-64-7	0.056	1.4	14.0
	Promecarb	2631-37-0	0.056	1.4	14.0
	Pronamide	23950-58-5	0.093	1.5	15.0
	Propanenitrile	107-12-0		360.0	3600.0
	Propham	122-42-9		1.4	14.0
	Propoxur	114-26-1	0.056	1.4	14.0
	Prosulfocarb	52888-80-9		1.4	14.0
	Pyrene	129-00-0		8.2	82.0
	Pyridine	110-86-1	0.014	16.0	160.0
	Safrole	94-59-7	0.081	22.0	220.0
	Sulfide	18496-25-8	14.0	N/A	N/A
	2,4,5-T	93-76-5		7.9	79.0
	TCDDs (All Tetrachlorodi-benzo-p-dioxins)	41903-57-5		0.001	0.01
-		30402-14-3		0.001	
	TCDFs (All Tetrachlorodibenzofurans)	93-72-1	0.000063	7.9	0.01
	2,4,5-TP (Silvex)		ALCOHOLD THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO		79.0
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14.0	140.0

	Organic Constituents	CASRN	Wastewater Standard (mg/L)	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0	60.0
	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0	60.0
	Tetrachloroethylene	127-18-4	0.056	6.0	60.0
	2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4	74.0
	Thiodicarb	59669-26-0	0.019	1.4	14.0
	Thiophanate-methyl	23564-05-8	0.056	1.4	14.0
	Toluene	108-88-3	0.08	10.0	100.0
	Total PCBs (Polychlorinated biphenyls)	1336-36-3	0.1	10.0	100.0
	Toxaphene	8001-35-2	0.0095	2.6	26.0
	Triallate	2303-17-5	0.042	1.4	14.0
	Tribromomethane	75-25-2	0.63	15.0	150.0
	2,4,6-Tribromophenol	118-79-6	0.035	7.4	74.0
	1,1,2-Trichloro-1,2,2,-trifluoroethane	76-13-1	0.057	30.0	300.0
	1,2,4-Trichlorobenzene	120-82-1	0.055	19.0	190.0
	1,1,1-Trichloroethane	71-55-6	0.054	6.0	60.0
	1,1,2-Trichloroethane	79-00-5	0.054	6.0	60.0
	Trichloroethylene	79-01-6	0.054	6.0	60.0
	Trichloromonofluoromethane (R11)	75-69-4	0.02	30.0	300.0
	2,4,5-Trichlorophenol	95-95-4	0.18	7.4	74.0
	2,4,6-Trichlorophenol	88-06-2	0.035	7.4	74.0
	1,2,3-Trichloropropane	96-18-4	0.85	30.0	300.0
	Triethylamine	121-44-8	0.081	1.5	15.0
	Tris(2,3-dibromopropyl) phosphate	126-72-7	0.11	0.1	1.0
	Vernolate	1929-77-7	0.042	1.4	14.0
	Vinyl chloride	75-01-4	0.27	6.0	60.0
	Xylene	1330-20-7	0.32	30.0	300.0
	2,4-Xylidine	95-68-1	0.01	0.66	6.6
	Antimony	7440-36-0	1.9	1.15	11.5
	Arsenic	7440-38-2	1.4	5.0	50.0
	Barium	7440-39-3	1.2	21.0	210.0
	Beryllium	7440-41-7	0.82	1.22	12.2
	Cadmium	7440-43-9	0.69	0.11	1.1
Ø	Chromium	7440-47-3	2.77	0.6	6.0
	Lead	7439-92-1	0.69	0.75	7.5
	Mercury	7439-97-6	0.15	0.025	0.25
ō	Nickel	7440-02-0		11.0	110.0
	Selenium	7782-49-2		5.7	57.0
	Silver	7440-22-4	0.43	0.14	1.4
	Thallium	7440-28-0		0.2	2.0
	Vanadium	7440-62-2	4.3	1.6	16.0
☑	Zinc	7440-66-6		4.3	43.0

Attachment 1 - Additional Radionuclides

Please list the supplimentary radionuclides and their concentration values.

ENCLOSURE 3

Waste Profile Form 42757

EPC-DO: 17-095

LA-UR-17-21107

	MAR 0 3 2017	
Date:		



WASTE PROFILE FORM COVER SHEET

42757 APPROVED

Waste Characteriza	ation 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

Referenc	e Number
WCATS ID	Legacy WPF ID
42757	

Generator's Z Number 088282		rator's Name <i>(pr</i> LS, WILLIAM	int)	WMC's Z Nu 217	ımber 511	WMC's Name (p.	rint) EFFREY		Generator's Phone 5056675401
Generator's Mail Stop	Waste Gener		Waste	Stream Tech	nnical Area	Building	Room		WMC Phone
P950		ET-3	vvast	22	illical / lica	000091	B11	1	5056674537
Waste Accumulation (che	Waste Accumulation (check only one) □ PCBs Storage Area Site No:								No:
☐ Satellite Accumulation A	Area			<i>F</i>		☐ NM Special V		Site	No:
☑ Less-than-90 Days Stor	age Area	Site No:	6200			☐ Rad Staging		Site	No:
☐ TSDF	o Aroa	Site No:				☐ Rad Storage ☐ None of the A		Site	No:
☐ Universal Waste Storag ☐ Used Oil for Recycle	e Alea	Site No.				LI None of the A	rpove	Sile	140.
ER Use Only									
□ ER Site SWMU/AOC No									
Method of Characterization (check as many as apply)									
☐ Chemical/Physical Ana	☐ Chemical/Physical Analysis ☐ Attached Sample No:								
☐ Radiological Analysis		☐ Attacl		Sa	mple No:				
☐ PCB Analysis		☐ Attacl		Sa	mple No:				
☐ Acceptable Knowledge☑ Material Safety Data Sh		on □ Attacl ☑ Attacl		Document	ation No:	dium Hydroxide MSD	S/I AMINA		
Waterial Galety Data Si	ieet (MODO)	E Attaci	ieu			Jan Tyaroxide Web	0,0		
Section 1 - Waste Prevent	on/Minimizat	tion (answer all	au ontic	na)					
Can hazard segregation, e						Yes (provide con	ments)	ØN	0
Can any of the materials in		****				Yes (provide con		ØN	
Has waste minimization be						l Yes	michicaj		o (provide comments)
Can this waste be generate						Yes (provide com	ments)	□ N	· · · · · · · · · · · · · · · · · · ·
Comments:									
Section 2 - Chemical and I	Obveigal Info	rmation							
Waste Type (check only or		e Category (che	ck all f	hat apply)	Waste Sou	rce (check only on	e) V	Vaste M	atrix (check only one)
☐ Unused/Unspent Chemi		organic	on an i	inat apply)	Waste Soul			as	and to hook only only
☑ Process Waste/Spent		rganic			☐ Decon		1] ≤1.5 A	Atmospheres Pressure
Chemical/Other	and the second s	olvent (see instru				s Processing/Prod		□ >1.5 A	Atmospheres Pressure
Radiological Information	Li De	egreaser (see in	structio	ons)		:h/Development/Te ed Maintenance	esting [□ Liquifi	ed Compressed Gas
Was Waste generated in a		ectroplating				eeping - Routine	L	iquid	
Yes ☑ No		eated Hazardou	s Was	e or Residue		anup - Routine		☑ Aqued	ous
☑ Non-radioactive		o-Longer Contain				g - Routine Monito	-		Aqueous
☐ Radioactive - Low Leve	(200)	plosive Process			☐ Other (d	escribe)			ended Solids/Aqueous
☐ Radioactive - Transurar	10	fectious/Medical ological					[ended Solids/Non-
Manta Dantingtian (aban)		eryllium			Waste Sou	rea B		Aqueo	ous
Waste Destination (check	OHET 1	npty Container (see ins	structions)	□ Abateme		1 -	olid	/A - L /D 4
SWWS		attery (see instru	ctions)		Service and the service of the servi	ction/Upgrades			er/Ash/Dust
☐ RLWTF ☐ RLWTP	12.0 1.0 42.0 40.0	estos			☐ Demoliti			□ Solid □ Sludg	•
TA-16/HE	□ Fr	nable on-Friable			☐ Decon/□	Managarita (e bed/Solidified Liquid
NTS		Source Conce	ntratio	n	-	ative Derived		Debris	
	DP0	CB < 50 ppm			☐ Orphan/	Legacy ation/Restoration			
Classified Information		CB >= 50 - < 500) ppm			ng (secondary)	1 -		pe (check only one)
☑ Unclassified		CB >= 500 ppm	Ca=1-	minated Call	☐ Unsched	duled Maintenance	· r		geneous
☐ Classified/Sensitive		azardous Waste htreated Hazard			and the same of th	eeping (non-routing	<i>=)</i>	neter	ogeneous
		ommercial Solid				anup (non-routine) roleum Tanks)		
	□ Ot	ther [Describe]			☐ Petroleu				
					☐ Other (d		E	stimate	Annual Volume (m³):
	Other				Othor				
	Other				Other:		9		

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) Corrosivity (check only one) (pH) Reactivity (check as many as apply) Boiling Point (check only one) □ <= 95 F (<= 35 C) $\Box <= 2.0$ ☐ RCRA Unstable □ < 73 F (< 22.8 C) □ 73 - 99 F (22.8 - 37.2 C) □ 2.1 - 4.0 ☐ Water Reactive □ >95 F (> 35 C) **4.1 - 6.0** ☐ Cyanide Bearing ☑ Not Applicable □ 100 - 139 F (37.8 - 59.4 C) ☐ Sulfide Bearing □ 140 - 200 F (60.0 - 99.3 C) □ 6.1 - 9.0 □ > 200 (> 99.3 C) □ 9.1 - 12.4 ☐ Pyrophoric **☑**>= 12.5 ☐ Shock Sensitive ☐ EPA Ignitable - Non-liquid ☐ DOT Flammable Gas ☐ Liquid Corrosive to Steel ☐ Explosive [Specify DOT Div.] ☑ Non-Reactive ☐ DOT Oxidizer ☐ Non-aqueous ☑ Not Ignitable **Characterization Method Concentration of Contaminants** None or Contaminant present at Regulatory Limit Identify for all contaminants listed AK Minimum Non-detect Maxiumum (10,000 ppm = 1%) **Toxicity Characteristic Metals** Arsenic \square to 5.0 ppm ppm Barium $\sqrt{}$ V 100.0 ppm to ppm Cadmium V $\sqrt{}$ to ppm 1.0 ppm 5.0 ppm Chromium V to ppm Lead ablaV to ppm 5.0 ppm 0.2 ppm ∇ Mercury $\sqrt{}$ to ppm Selenium $\sqrt{}$ \square to ppm 1.0 ppm 5.0 ppm Silver $\sqrt{}$ V to ppm **Toxicity Characteristic Organics** V V 0.5 ppm Benzene to ppm 0.5 ppm Carbon tetrachloride $\sqrt{}$ V to ppm Chlorobenzene V $\sqrt{}$ 100.0 ppm to ppm Chloroform \square 6.0 ppm to ppm Cresol $\overline{\mathbf{Q}}$ \square to 200.0 ppm ppm p-Cresol 200.0 ppm V to ppm 200.0 ppm $\sqrt{}$ $\overline{\mathbf{A}}$ m-Cresol to ppm V V 200.0 ppm o-Cresol to ppm 1,4-Dichlorobenzene to ppm 7.5 ppm 0.5 ppm 1,2-Dichloroethane \square V to ppm 0.7 ppm 1,1-Dichloroethylene \square $\sqrt{}$ to ppm 0.13 ppm $\sqrt{}$ П 2,4-Dinitrotoluene $\overline{\mathbf{A}}$ to ppm 0.13 ppm Hexachlorobenzene V \square to ppm Hexachlorobutadiene \square $\overline{\mathbf{A}}$ to ppm 0.5 ppm 3.0 ppm Hexachloroethane V $\sqrt{}$ to ppm 200.0 ppm Methyl ethyl ketone ablaП $\overline{\mathbf{Q}}$ to ppm 2.0 ppm П Nitrobenzene \square $\overline{\mathbf{A}}$ to ppm 100.0 ppm \mathbf{V} Pentachlorophenol \square to ppm ppm Pyridine abla \mathbf{V} to 5.0 ppm Tetrachloroethylene V $\sqrt{}$ to 0.7 ppm ppm Trichloroethylene \checkmark $\overline{\mathbf{A}}$ to 0.5 ppm ppm 2.0 ppm V $\sqrt{}$ 2,4,6-Trichlorophenol to ppm V 400.0 ppm 2,4,5-Trichlorophenol \square to mag Vinyl chloride V to ppm 0.2 ppm Herbicides and Pesticides

Heptachlor (& its epoxide)

Lindane (gamma-BHC)

Chlordane

Methoxychlor

Toxaphene

2,4,5-TP (Silvex)

2,4-D

Endrin

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ppm

0.03 ppm 10.0 ppm

0.02 ppm

0.008 ppm

0.4 ppm

10.0 ppm

1.0 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 constients (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	n) Maximum (ppm)
7732-18-5	Water	990000	to 1000000
1310-73-2	Sodium hydroxide		to 60
	Poly film residue	1	to 1500
	,		

	Total of max. ranges of this section and page 2		100.16 in %
(f - 1 (2) 1 (- f f	Additional Information		-1-1-10 h1
	on is available on the chemical, physical, or radiological character of the waste not covered	on this form, pro-	vide it below
PH level for the wast	e was >12.5.		
Section 6 - Work Cor	ntrol Documentation		
Do the procedures for	or this process cover how to manage this waste?	mments)	
	or this process address controls to prevent changes to waste constituents and concentration		emoval of
waste to/from contain		is or addition of t	cilioval of
	The provide definitions		
Comments:			
		1000	
	g and Storage Control		
ł	ste will be packaged in according to the applicable WAC.		
DOT Certified Contai	ner		
Identify the storage m	nanagement 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	er (describe)	
	rtification Statements		
	neet WAC attachment for: HAZ		
	ds exception/exemption for treatment, storage, or disposal.		
	eet the criteria for any known TSDF. (DOE approval is required. Contact the office of the Pri	incinie Associate	Director for
	s [PADWP] for assistance.)	ncipie Associate	Director for
	rtification: Based on my knowledge of the waste and/or chemical/physical analysis, I certifi	v that the waste	characterization
	m is correct and that it meets the requirements of the applicable waste acceptance criteria.		
turner programmer and more programmer and the control of the contr	regulatory agencies and that there are significant penalties for submitting false information,	including the pos	sibility of fines and
imprisonment for know	wing violations.		
Signature: WILLIAN	MILLS (088282) Date: 02/02/16 11:57 A	M	
	icial: I have reviewed this form and any associated attachments and the characterization in		
	e. I certify, to the best of my knowledge, that the waste characterization information provide	ed by the waste o	enerator meets the
requirements of the a	pplicable WAC.		
Signature: JEFFRE	Y LEE (217511) Date: 02/02/16 11:58 A	M	
	e reviewed this form and any associated attachments and the characterization information p		
	the best of my knowledge, that the waste characterization information provided by the wast	e generator meet	s the requirements of
the applicable WAC.			
Signature: ROBER	T MOLTER (239137) Date: 02/02/16 12:39 PI	M	

Attachment 4 - LDR and U

Identify category and prese	ence of any constituents listed below (equal to or above lin	nit).				
Non-Wastewater/Wastew	ater 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 Certific	ations - Check the applicable boxes					
Generator Requirements	:					
The second secon	hazardous waste contaminated soil that does not meet tr	eatment standards	Sign Certification #2			
☐ This shipment contains	(No certification)					
☐ Hazardous wastes (exc	Sign Certification #3					
☐ Hazardous wastes con	Sign Certification #4					
TSDF or Generator Treatment:						
☐ TSDF treated hazardo	Sign Certification #5					
☐ Generator treated haz	Sign Certification #6					
☐ Hazardous wastes cor	Sign Certification #7					
☐ Wastes or residues fro	Sign Certification #8					
☐ Wastes or residues fro	Sign Certification #9					
	Sign Certification #10					
The standard of the standard o	eeting the more stringent 40 CFR 268.40 treatment stand					
U Other generator waste	s meeting the more stringent 40 CFR 268.40 treatment st		Sign Certification #11			
	Notification of Underlying Hazard	ous Constituents				

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

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

C	Organic Constituents Carbendazim Carbofuran Carbofuran phenol Carbon disulfide Carbon tetrachloride Carbosulfan Chloroane Chloro-m-cresol Chloroaniline Chlorobenzilate Chlorodibromomethane Chloroethyl vinyl ether Chloroform Chloromethane Chlorophenol Chloropropylene Chloropropylene Chloropropylene Chloropropylene Chlorosene Chloropropylene	10605-21-7 1563-66-2 1563-38-8 75-15-0 56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.056 0.006 0.056 3.8 0.057 0.028 0.0033 0.018	(mg/kg unless noted otherwise) 1.4 0.14 1.4 4.8 6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0 5.6	14.0 1.4 14.0 48.0 60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
C	carbofuran phenol carbon disulfide carbon tetrachloride carbosulfan chlordane -Chloro-m-cresol -Chloroaniline chlorobenzilate chlorodibromomethane chloroethyl vinyl ether chloroform chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chloropropylene chrysene	1563-38-8 75-15-0 56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.056 3.8 0.057 0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	1.4 4.8 6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	14.0 48.0 60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
C	carbon disulfide carbon tetrachloride carbosulfan chlordane -Chloro-m-cresol -Chloroaniline chlorobenzilate chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloromethane -Chlorophenol chloroprene -Chloropropylene chloropropylene chloropropylene chloropropylene chloropropylene chloropropylene	75-15-0 56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	3.8 0.057 0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	4.8 6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	48.0 60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
C	carbon tetrachloride carbosulfan chlordane -Chloro-m-cresol -Chloroaniline chlorobenzilate chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloromethane -Chloromethane -Chlorophenol chloroprene -Chloropropylene chloropropylene chloropropylene	56-23-5 55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.057 0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	6.0 1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	60.0 14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
C C C C C C C C C C	arbosulfan chlordane -Chloro-m-cresol -Chloroaniline chlorobenzene chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloroform chloromethane -Chlorophenol chloroprene -Chloropropylene chloropropylene	55285-14-8 57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.028 0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	1.4 0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	14.0 2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0
C C C C C C C C C C	chlordaneChloro-m-cresolChloroaniline chlorobenzene chlorodibromomethane chloroethaneChloroethyl vinyl ether chloromethaneChloromethaneChloronaphthaleneChloropenol chloropreneChloropropylene chrysene	57-74-9 59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.0033 0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	0.26 14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0	2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0
P	-Chloro-m-cresol -Chloroaniline chlorobenzene chlorobenzilate chlorodibromomethane chloroethyl vinyl ether chloroform chloromethane -Chloromethane -Chloropenol chloroprene -Chloropropylene chloropropylene chlorosene	59-50-7 106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.018 0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	14.0 16.0 6.0 N/A 15.0 6.0 N/A 6.0	2.6 140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0
P	-Chloroaniline chlorobenzene chlorobenzilate chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloromethane -Chloromaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	106-47-8 108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	140.0 160.0 60.0 N/A 150.0 60.0 N/A 60.0
P	-Chloroaniline chlorobenzene chlorobenzilate chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloromethane -Chloromaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.46 0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	16.0 6.0 N/A 15.0 6.0 N/A 6.0 30.0	160.0 60.0 N/A 150.0 60.0 N/A 60.0 300.0
C C C C C C C C C C	chlorobenzene chlorobenzilate chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloroform chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	108-90-7 510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.057 0.1 0.057 0.27 0.062 0.046 0.19 0.055	6.0 N/A 15.0 6.0 N/A 6.0 30.0	60.0 N/A 150.0 60.0 N/A 60.0 300.0
C	chlorobenzilate chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloroform chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	510-15-6 124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.1 0.057 0.27 0.062 0.046 0.19 0.055	N/A 15.0 6.0 N/A 6.0 30.0	N/A 150.0 60.0 N/A 60.0 300.0
C	chlorodibromomethane chloroethane -Chloroethyl vinyl ether chloroform chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	124-48-1 75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.057 0.27 0.062 0.046 0.19 0.055	15.0 6.0 N/A 6.0 30.0	150.0 60.0 N/A 60.0 300.0
2 C C C C C C C C C C C C C C C C C C C	chloroethane -Chloroethyl vinyl ether chloroform chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	75-00-3 110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.27 0.062 0.046 0.19 0.055	6.0 N/A 6.0 30.0	60.0 N/A 60.0 300.0
2 C C C C C C C C C C C C C C C C C C C	-Chloroethyl vinyl ether chloroform chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	110-75-8 67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.062 0.046 0.19 0.055	N/A 6.0 30.0	N/A 60.0 300.0
C C C C C C C C C C C C C C C C C C C	chloroform chloromethaneChloronaphthaleneChlorophenol chloropreneChloropropylene chrysene	67-66-3 74-87-3 91-58-7 95-57-8 126-99-8	0.046 0.19 0.055	6.0 30.0	60.0 300.0
2 2 2 3 3 C 2 P P P P P P P P P P P P P P P P P P	chloromethane -Chloronaphthalene -Chlorophenol chloroprene -Chloropropylene chrysene	74-87-3 91-58-7 95-57-8 126-99-8	0.19 0.055	30.0	300.0
2 2 2 3 3 3 C C p m o	-Chloronaphthalene -Chlorophenol -chloroprene -Chloropropylene -chrysene	91-58-7 95-57-8 126-99-8	0.055		
2 C 3 C C P m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Chlorophenol hioroprene -Chloropropylene hrysene	95-57-8 126-99-8		The state of the s	CO O CONTRACTOR OF THE PARTY OF
] C] 3] C] p] m	hloroprene -Chloropropylene hrysene	126-99-8	()()()()()	Alle A Control of the Australia Aust	56.0
] 3] C] p] m	-Chloropropylene hrysene			5.7	57.0
] C] p] m	hrysene	أد عمسمما	0.057	0.28	2.8
] p		107-05-1	0.036	30.0	300.0
] m	Cranidina	218-01-9	0.059	3.4	34.0
] 0	-Cresidine	120-71-8	0.01	0.66	6.6
	i-Cresol	108-39-4	0.77	5.6	56.0
1 p	-Cresol	95-48-7	0.11	5.6	56.0
_	-Cresol	106-44-5	0.77	5.6	56.0
] m	-Cumenyl methylcarbamate	64-00-6	0.056	1.4	14.0
] C	yanide (Amenable)	57-12-5*	0.86	30.0	300.0
1 0	yanide (Total)	57-12-5	1.2	590.0	5900.0
-	yclohexanone	108-94-1	0.36	0.75	7.5
_	4-D	94-75-7	0.72	10.0	100.0
_	p'-DDD	53-19-0	0.023	0.087	0.87
_	p'-DDD	72-54-8	0.023	0.087	0.87
	p'-DDE	3424-82-6	0.031	0.087	0.87
	p'-DDE	72-55-9	0.031	0.087	0.87
	p'-DDT	789-02-6	0.0039	0.087	0.87
_	p'-DDT	50-29-3	0.0039	0.087	0.87
	i-n-butyl phthalate	84-74-2	0.057	28.0	280.0
_	i-n-octyl phthalate	117-84-0	0.017	28.0	280.0
_	i-n-propylnitrosamine	621-64-7	0.4	14.0	
_	The state of the s		The second second second		140.0
_	ibenz[a,h]anthracene	53-70-3	0.055	8.2	82.0
	ibenzo[a,e]pyrene	192-65-4	0.061	N/A	N/A
_	2-Dibromo-3-chloropropane	96-12-8	0.11	15.0	150.0
	2-Dibromoethane	106-93-4	0.028	15.0	150.0
_	ibromomethane	74-95-3	0.11	15.0	150.0
100	4-Dichlorobenzene	106-46-7	0.09	6.0	60.0
] m	-Dichlorobenzene	541-73-1	0.036	6.0	60.0
] 0-	-Dichlorobenzene	95-50-1	0.088	6.0	60.0
] D	ichlorodifluoromethane	75-71-8	0.23	7.2	72.0
] 1,	1-Dichloroethane	75-34-3	0.059	6.0	60.0
] 1,	2-Dichloroethane	107-06-2	0.21	6.0	60.0
-	1-Dichloroethylene	75-35-4	0.025	6.0	60.0
-	ans-1,2-Dichloroethylene	156-60-5	0.054	30.0	300.0
	4-Dichlorophenol	120-83-2	0.044	14.0	140.0
_	6-Dichlorophenol	87-65-0	0.044	14.0	140.0
	2-Dichloropropane	78-87-5	0.85	18.0	180.0
	ans-1,3-Dichloropropene	10061-02-6	0.036	18.0	180.0
_	s-1,3-Dichloropropene				
_		10061-01-5	0.036	18.0	180.0
_	ieldrin iethyl phthalate	60-57-1 84-66-2	0.017	0.13 28.0	1.3 280.0

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

	Organic Constituents	CASRN	CARL CONTRACTOR OF THE CONTRAC	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
	Methyl methanesulfonate	66-27-3	The state of the s	N/A	N/A
	Methyl parathion	298-00-0		4.6	46.0
	3-Methylcholanthrene	56-49-5	0.0055	15.0	150.0
	4,4'-Methylene bis(2-chloroaniline)	101-14-4	0.5	30.0	300.0
	Methylene chloride	75-09-2	0.089	30.0	300.0
	Metolcarb	1129-41-5	0.056	1.4	14.0
	Mexacarbate	315-18-4	0.056	1.4	14.0
	Molinate	2212-67-1	0.042	1.4	14.0
	N-Nitroso-di-n-butylamine	924-16-3	0.4	17.0	170.0
_	N-Nitrosodiethylamine	55-18-5	0.4	28.0	280.0
	N-Nitrosodimethylamine	62-75-9	0.4	2.3	23.0
_	N-Nitrosodiphenylamine	86-30-6	0.92	13.0	130.0
	N-Nitrosomethylethylamine	10595-95-6	0.4	2.3	23.0
_	N-Nitrosomorpholine	59-89-2	0.4	2.3	23.0
]	N-Nitrosopiperidine	100-75-4	0.013	35.0	350.0
	N-Nitrosopyrrolidine	930-55-2	0.013	35.0	350.0
]	Naphthalene	91-20-3	0.059	5.6	56.0
]	2-Naphthylamine	91-59-8	0.52	N/A	N/A
]	5-Nitro-o-toluidine	99-55-8	0.32	28.0	280.0
]	o-Nitroaniline	88-74-4	0.27	14.0	140.0
1	p-Nitroaniline	100-01-6	0.028	28.0	280.0
]	Nitrobenzene	98-95-3	0.068	14.0	140.0
1	o-Nitrophenol	88-75-5	0.028	13.0	130.0
]	p-Nitrophenol	100-02-7	0.12	29.0	290.0
1	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	0.000063	0.005	0.05
]	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	0.000063	0.005	0.05
1	Oxamyl	23135-22-0	0.056	0.28	2.8
]	Parathion	56-38-2	0.014	4.6	46.0
186	PeCDDs (All Pentachlorodibenzo-p-dioxins)	36088-22-9	0.000063	0.001	0.01
1	PeCDFs (All Pentachlorodibenzo-furans)	30402-15-4	0.000035	0.001	0.01
	Pebulate	1114-71-2	0.042	1.4	14.0
]	Pentachlorobenzene	608-93-5	0.055	10.0	100.0
	Pentachloroethane	76-01-7	0.055	6.0	60.0
]	Pentachloronitrobenzene	82-68-8	0.055	4.8	48.0
	Pentachlorophenol	87-86-5	0.089	7.4	74.0
	Phenacetin	62-44-2	0.081	16.0	160.0
ו	Phenanthrene	85-01-8		5.6	56.0
	Phenol	108-95-2	0.039	6.2	62.0
	o-Phenylenediamine	95-54-5	N/A	N/A	N/A
	Phorate	298-02-2	0.021	4.6	46.0
	Phthalic acid	100-21-0	0.055	28.0	280.0
	Phthalic anhydride	85-44-9	0.055	28.0	280.0
]	Physostigmine	57-47-6	0.056	1.4	14.0
	Physostigmine salicylate	57-64-7	0.056	1.4	14.0
	Promecarb	2631-37-0	0.056	1.4	14.0
]	Pronamide	23950-58-5	0.093	1.4	
]		The state of the s			15.0
]	Propanenitrile	107-12-0	The second second	360.0	3600.0
	Propham	122-42-9	0.056	1.4	14.0
]	Propoxur	114-26-1	0.056	1.4	14.0
]	Prosulfocarb	52888-80-9	0.042	1.4	14.0
]	Pyrene	129-00-0		8.2	82.0
]	Pyridine	110-86-1	0.014	16.0	160.0
1	Safrole	94-59-7	0.081	22.0	220.0
]	Sulfide	18496-25-8	14.0	N/A	N/A
]	2,4,5-T	93-76-5	0.72	7.9	79.0
	TCDDs (All Tetrachlorodi-benzo-p-dioxins)	41903-57-5	0.000063	0.001	0.01
_	TCDFs (All Tetrachlorodibenzofurans)	30402-14-3		0.001	0.01
]	2,4,5-TP (Silvex)	93-72-1	0.72	7.9	79.0
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14.0	140.0

	Organic Constituents	CASRN	Wastewater Standard (mg/L)	Non Wastewater Standard (mg/kg unless noted otherwise)	Hazardous Soil 10Xs UTS (mg/kg unless noted otherwise)
	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0	60.0
	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0	60.0
	Tetrachloroethylene	127-18-4	0.056	6.0	60.0
	2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4	74.0
	Thiodicarb	59669-26-0	0.019	1.4	14.0
	Thiophanate-methyl	23564-05-8	0.056	1.4	14.0
	Toluene	108-88-3	0.08	10.0	100.0
	Total PCBs (Polychlorinated biphenyls)	1336-36-3	0.1	10.0	100.0
	Toxaphene	8001-35-2	0.0095	2.6	26.0
0	Triallate	2303-17-5	0.042	1.4	14.0
	Tribromomethane	75-25-2	0.63	15.0	150.0
	2,4,6-Tribromophenol	118-79-6	0.035	7.4	74.0
	1,1,2-Trichloro-1,2,2,-trifluoroethane	76-13-1	0.057	30.0	300.0
	1,2,4-Trichlorobenzene	120-82-1	0.055	19.0	190.0
	1,1,1-Trichloroethane	71-55-6	0.054	6.0	60.0
0	1,1,2-Trichloroethane	79-00-5	0.054	6.0	60.0
	Trichloroethylene	79-01-6	0.054	6.0	60.0
	Trichloromonofluoromethane (R11)	75-69-4	0.02	30.0	300.0
	2,4,5-Trichlorophenol	95-95-4	0.18	7.4	74.0
	2,4,6-Trichlorophenol	88-06-2	0.035	7.4	74.0
	1,2,3-Trichloropropane	96-18-4	0.85	30.0	300.0
	Triethylamine	121-44-8	0.081	1.5	15.0
	Tris(2,3-dibromopropyl) phosphate	126-72-7	0.11	0.1	1.0
	Vernolate	1929-77-7		1.4	14.0
	Vinyl chloride	75-01-4	0.27	6.0	60.0
	Xylene	1330-20-7	0.32	30.0	300.0
	2,4-Xylidine	95-68-1	0.01	0.66	6.6
	Antimony	7440-36-0	1.9	1.15	11.5
	Arsenic	7440-38-2	1.4	5.0	50.0
	Barium	7440-39-3	1.2	21.0	210.0
	Beryllium	7440-41-7	0.82	1.22	12.2
	Cadmium	7440-43-9	0.69	0.11	1.1
	Chromium	7440-47-3		0.6	6.0
b	Lead	7439-92-1	0.69	0.75	7.5
	Mercury	7439-97-6	0.15	0.025	0.25
	Nickel	7440-02-0	3.98	11.0	110.0
	Selenium	7782-49-2	0.82	5.7	57.0
	Silver	7440-22-4	0.43	0.14	1.4
	Thallium	7440-28-0	1.4	0.2	2.0
	Vanadium	7440-62-2	4.3	1.6	16.0
	Zinc	7440-66-6	2.61	4.3	43.0

Attachment 1 - Additional Radionuclides

Please list the supplimentary radionuclides and their concentration values.