

WASTE ANALYSIS REPORT
Environmental Laboratory
EPG Industries, Inc., Lake Charles, La.

Sample: Derivatives Tank Cleanout. WTS-00
Location of Sample: Sampled from drums at HWSA.
Sample Collector: W. Cooper - G. Prejean
Sample Method/Device: Random grab - dipper
Date/Time of Sampling: 8-1-90 2:35 pm
Date All Analyses Completed: 9-1-90 Report Submitted By: Gary Prejean
Date: 9-21-90

ANALYSIS RESULTS

Test Parameters		Lab Log Sample No 1336					
Ignitability	N/A	Standard					
		140°F					
Corrosivity	pH	2-12.5					
	N/A	inch/yr					
Reactivity		0.250 max					
ICLP Toxicity (mg/L)	As	5.0 max	ND				
	Ba	100.0 max	0.06				
	Cd	1.0 max	ND				
	Cr	5.0 max	ND				
	Pb	5.0 max	ND				
	Hg	0.2 max	0.0006				
	Se	1.0 max	ND				
	Ag	5.0 max	ND				
N/A			ND				

CHLORINATED HYDROCARBONS (%)			
Other Parameters (if needed) N/A D/none detected	Chloroethene	(VC)	PCBs
	Chloroethane	(EC)	
	Dichloromethane	(MeCl ₂)	Heat
	1,1-Dichloroethene	(VDC)	Value
	1,1-Dichloroethane	(DCE)	
	1,2-Dichloroethene	(cis/trans)	Chlorine
	Trichloromethane	(CHCl ₃)	
	1,2-Dichloroethane	(EDC)	Water
	1,1,1-Trichloroethane	(MC)	
	Tetrachloromethane	(CCl ₄)	Density
	Trichloroethene	(Trichlor)	
	1,1,2-Trichloroethane	(TCE)	Ash
	Tetrachloroethene	(Perchlor)	
	1,1,1,2-Tetrachloroethane	(unsym)	Sodium
	1,1,2,2-Tetrachloroethane	(sym)	
	Pentachloroethane	(Penta)	
	para-Dichlorobenzene	(p-DCB)	
	Hexachloroethane	(HEXA)	
	Hexachlorobutadiene	(HCBD)	
	Unknown ClHC		
Total ClHC		(%)	SL 021561

Disposal Method

Profile No WTS - 005.2

TEST PROCEDURE

LAB LOG NO. 1036

PARAMETER	METHOD USED					
Ignitability ☒ N/A	☐ Pensky-Martens Closed Cup Tester ASTM Standard D-93-79	☐ Setafasn Closed Cup Tester ASTM Standard D-3278-78	☐ Other (Specify)			
Corrosivity (pH) ☒ N/A	☐ SW-846 Method 9040 pH measurement	☐ Other (Specify)				
Corrosivity (inch/yr) ☒ N/A	☐ National Association of Corrosion Engineers Standard TM-01-69		☐ Other (Specify)			
Reactivity ☒ N/A (The qualitative answer will classify waste as reactive)	1. Normally unstable without detonating? 2. Reacts violently with water? 3. Forms potentially explosive mixture with water? 4. Cyanide or sulfide bearing waste which can generate toxic gases, vapor or fumes under pH conditions between 2 and 12.5? 5. Capable of detonation or explosive reaction if subjected to strong initiating source or if heated under confinement? 6. Readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure? 7. Forbidden Class A, or Class B explosive as defined in 49CFR 173.51, 173.53, and/or 173.88?					
TCLP* ☒ N/A	Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	SW 846 Method
	As	6010	Ag	6010	PCP	LD-2571
	Ba	6010	ClHC	5030	ClHC	LD-2562A
	Cd	6010	Sodium	3050, 6010	Heat Value	LD-2562B
	Cr	6010	pH	9045	Chlorine	LD-2562D
	Pb	6010			Water	LD-2566
	Hg	7470			Ash	LD-2561
	Se	6010				

*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles	Test Parameters Analyzed and Date		
Analyst(s): SGS Labs	Total metals	8-20-90	
	TCLP metals	8-17-90	
	TCLP volatiles, semi-volatiles	9-1-90	

cc: File
 Jarv

SL 021562



SGS Environmental Laboratories

E9008-038

RESULTS - Sample ID: 1336 Der. Tank Clean-Out

SGS ID: E9008-38-6

TCLP Metals

Date Extracted: 8/13/90

Concentration in ppm (mg/L) in TCLP Extract

Date Analyzed: 8/17/90

<u>EPA HW</u>	<u>TCLP Metals</u>	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
D004	Arsenic	ND	ND	0.2
D005	Barium	0.06	ND	0.02
D006	Cadmium	ND	ND	0.03
D007	Chromium	ND	ND	0.04
D008	Lead	ND	ND	0.1
D009	Mercury	0.0006	ND	0.0002
D010	Selenium	ND	ND	0.2
D011	Silver	ND	ND	0.02

Total Metals

Date Analyzed: 8/20/90

Concentration in ppm (mg/Kg) in sample

	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
Antimony	ND	ND	20
Arsenic	ND	ND	20
Barium	ND	ND	2.0
Beryllium	ND	ND	2.0
Cadmium	ND	ND	3.0
Chromium	36	ND	4.0
Lead	41	ND	10.0
Mercury	2.7	ND	0.09
Nickel	25	ND	10.0
Silver	ND	ND	2.0
Thallium	ND	ND	30

ND denotes Not Detected at a level above the method detection limit.

SL 021563



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY VOLATILES

SGS ID: E9008-038-6

PPG ID: 1336 Der. Tank Clean Out

Date Extracted: 8/28/90

Date Analyzed: 9/01/90

Concentration in ppb (ug/L) in TCLP Extract

	<u>1336 Der. Tank Clean Out</u>	<u>Method Detection Limit</u>	<u>TCLP Blank</u>	<u>Blank Detection Limit</u>
Benzene	ND	50	ND	5.0
Carbon Tetrachloride	ND	50	ND	5.0
Chlorobenzene	ND	50	ND	5.0
Chloroform	90	50	ND	5.0
1,4-Dichlorobenzene	ND	50	ND	5.0
1,2-Dichloroethane	53	50	ND	5.0
1,1-Dichloroethylene	ND	50	ND	5.0
Methylethylketone	305	100	ND	10.0
Tetrachloroethylene	114	50	ND	5.0
Trichloroethylene	ND	50	ND	5.0
Vinyl Chloride	ND	100	ND	10.0

Surrogate Standard Percent Recovery (at 0.050 ug/L)

	<u>1336 Der. Tank Clean Out</u>	<u>Blank</u>	
1,2-Dichloroethane-d4	101 %	98 %	
Toluene-d8	95 %	101 %	
4-Bromofluorobenzene	101 %	112 %	SL 021564

ND denotes N t Detected at a level above the method detecti n limit



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-038-6

PPG ID: 1336 Der. Tank Clean Out

Date Extracted: 8/28/90

Date Analyzed: 9/01/90

Concentration in ppb (ug/L) in TCLP Extract

	1336 Der. Tank Clean Out	Blank	Method Detection Limit
o-cresol	ND	ND	10.0
m-cresol	ND	ND	10.0
p-cresol	ND	ND	10.0
Cresol	ND	ND	10.0
2,4-Dinitrotoluene	ND	ND	10.0
Hexachlorobenzene	ND	ND	10.0
Hexachlorobutadiene	ND	ND	10.0
Hexachloroethane	ND	ND	10.0
Nitrobenzene	ND	ND	10.0
Pentachlorophenol	ND	ND	50
Pyridine	ND	ND	10.0
2,4,5-Trichlorophenol	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	50

Surrogate Standard Percent Recovery (at 0.200 mg/L)

	1336 Der. Tank Clean Out	Blank
2-Fluorophenol	59 %	28 %
Phenol-d5	17 %	19 %
2,4,6-Tribromophenol	69 %	33 %
Nitrobenzene-d5	67 %	38 %
2-Fluorobiphenyl	58 %	37 %
Terphenyl-d14	53 %	21 %

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ND denotes Not Detected at a level above the method detection limit.