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HANFORD ENVIRONMENTAL  
HEALTH FOUNDATION

October 30, 1989

CO 14075

Westinghouse Hanford Company  
MSIN L6-28

Attn: E.A. Weakley

WASTE CHARACTERIZATION

Attached are the results of the analysis of the last one of two waste samples received June 8, 1989. This sample from the 313 Building was reportedly "C-leak", a liquid used for leak checking piping.

The sample was first examined for the presence of more than one phase and for water miscibility. The pH of this water-miscible sample was determined using pH indicating papers.

Metals and anions were analyzed by Analytical Technologies, Inc., using EPA approved methodologies.

If you have any questions regarding this report, please contact Environmental Health Sciences.

*Maurice K. Hamilton*

M. K. Hamilton, CIH  
Laboratory Director  
Environmental Health Sciences

jt

cc: J. Lerch T6-08

*Received EDMC  
1-4-90*



CO 14075  
October 30, 1989

<u>WHC Sample #</u>	<u>HEHF Sample #</u>	<u>Sample Description</u>	<u>Analytical Results</u>
300 C-leak	E89-6-195	100% yellow water-miscible liquid; pH 7-8	EP-TOX metals: 0.006 mg/L arsenic, 0.01 mg/L barium, 0.06 mg/L chromium, 1.3 mg/L lead, 0.002 mg/L selenium, others below analytical detection limits <sup>1</sup>  Other metals: <sup>2</sup> 0.1 mg/L boron, 13 mg/L calcium, 0.1 mg/L copper, 0.2 mg/L iron, 1.2 mg/L potassium, 3.4 mg/L magnesium, 240 mg/L sodium, 4.5 mg/L silicon, 0.6 mg/L zinc; others not detected  Ammonia: 66 mg/L  Anions: <sup>3</sup> 1000 mg/L chloride

<sup>1</sup>EP-TOX detection limits: 0.004 mg/L arsenic, 0.01 mg/L barium, chromium and silver, 0.005 mg/L cadmium and mercury, 0.002 mg/L lead and selenium.

<sup>2</sup>Other metals: aluminum, boron, beryllium, calcium, cobalt, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, antimony, silicon, thallium, vanadium, zinc.

<sup>3</sup>Anion screen includes fluoride, chloride, nitrate, nitrite, phosphate and sulfate.

Complete unshaded parts and forward to:  
 Hazardous Waste Unit  
 R1-51  
 Westinghouse

## CHEMICAL WASTE DISPOSAL REQUEST

Manifest No. \_\_\_\_\_

Generator Logbook No. 300-89-33

Disposal Analysis Distribution\*

Requested By  
J.M. Bishop

Telephone No.  
6-3518

MSIN  
L6-26

Company  
WHC

1. Generator 4. \_\_\_\_\_

2. H.W.U. 5. \_\_\_\_\_

3. \_\_\_\_\_ 6. \_\_\_\_\_

\*May be used by generator as needed.

Signature/Date

J.M. Bishop

11-1-89

Accumulation Date  
6-8-89

Generating Facility  
DRFS

### WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Container Description	E Total Waste Quantity (kg)	F Waste Description	G Chemical Components	H Weight %	I Physical Properties	J Hazards	K Waste Status	L Container Status
Example 1	1	55 gal	DOT 17E	205	TURCO Decon 4512A Solution, 10% In Water	TURCO 4512A MSDS Attached Water	10.0 90.0	Liquid, pH <2 Flash point >200 °F	C	O	F
Example 2	1	5 gal	DOT 37M	34	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	Solid	EP	S	PF
Example 3	23	55 gal	Steel Drum	0	Empty Conoco 32 Oil Drums - Contained Used Oil	Oil-MSDS Attached PCB - Lab Data Attached	100.0 <1 ppm	Liquid, pH = 8.2 Flash Point >200 °F	None	U	MT
1	1	50-liter polybottle		12.4	C-Leak Inc. leak detector solution.	No MSDS available. See attached analysis from HEHE.		Liquid. pH 7-8	?	O	PF

#### INSTRUCTIONS

- Accumulation Date - List the accumulation date of the oldest waste
- Column A - Item Number - Item number for each unique waste.
- Column B - Number of Containers - Number of containers of a unique waste to be disposed
- Column C - Container Size - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- Column D - Container Description - Specify container's DOT specification. If non-DOT container or unknown, specify type, e.g. steel drum.
- Column E - Total Waste Quantity - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- Column F - Waste Description - Specify trade name or general description of each unique waste. If waste material is a paint, specify color for evaluation of pigments.
- Column G - Chemical Components - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- Column H - Weight (%) - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of pesticides, herbicides, heavy metals and PCB's should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- Column I - Physical Properties - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases, also indicate pH and flash point.
- Column J - Hazards - Indicate whether waste is Corrosive (C), Ignitable (I), Reactive (R), Toxic (T), Explosive (E), Persistent (P), EP Toxic (EP) or Carcinogenic (X).
- Column K - Waste Status - Indicate whether waste is: Reacted (Rx), Treated (T), New (N), Used (U), Old (or expired) (O), Spill Material (S).
- Column L - Container Status - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1/2 in. in 55 Gal Drums) (MT), Triple Rinsed (TR).