

# **Chemical Conservation Corporation**

10100 ROCKET BOULEVARD • ORLANDO, FLORIDA 32824

(407) 859-4441 • FAX (407) 855-2812



September 29, 1997

HAND DELIVERED

Mr. Robert Snyder, P.E. Section Manager Hazardous Waste Program FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 3319 Maguire Boulevard Suite 232 Orlando, Florida 32803-3767



Re: Chemical Conservation Corporation FLD 980 559 728 Incident of September 22, 1997

Dear Mr. Snyder:

On September 22, 1997 at approximately 3:15 p.m., Chemical Conservation Corporation (CCC) experienced a release of vapors from a tanker that had been loaded with acid liquids The composition of the waste in the tanker is shown in the attached Tanker/Van Load Report. As further discussed below, the problem apparently was caused by the addition of six drums of chromic acid solution, listed in Page 6 of the report.

Emergency procedures contained in the facility's Contingency Plan and the applicable regulations at 40 CFR 264.56 were implemented during this incident. The source of the gas release and the materials involved in the incident were identified immediately There was neither a liquid nor solid release during the incident, and the gas coming out of the tanker was a byproduct whose chemical identity could not be readily determined. A sample of the liquid source-material was collected from the tanker and analyzed for the purpose of attempting to identify the exact chemical nature of the gas released. The analysis report is attached to the letter. The liquid proved to be a combination of the acids listed on the Load Report, predominantly hydrochloric acid. This analytical information does not conclusively establish the chemical nature of the vapor release. However, given the proportionately large amount of hydrochloric acid, and my on-site observations regarding the odor of the release, we believe that a primary component of the vapor released was chlorine gas.

Protecting Our Environment For Over A Quarter Of A Century

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CCC quickly determined at the time that no extra personnel were needed to complete the initial evaluation of the situation. CCC also immediately assessed any possible hazards that the vapor release might present to human health or the environment. A low vapor generation rate and a strong wind dissipated the gas quickly after it exited the tanker manhole and reduced the impact of the release to not more than 20 feet from the source. After consulting with us, Cook Composites and Polymers, CCC's next door neighbor decided to terminate the second shift at its facility. In fact, the incident did not warrant evacuation either on-site or off-site, and cessation of work in Cook's facility was done as a precautionary measure.

Key support and key management personnel at the facility were, of course, immediately notified and involved in the response to this incident, particularly as it took place in primary operating hours. Due to the minimal extent of the release and the lack of exposure to on-site and off-site personnel, CCC did not seek assistance from the Orange County Sheriff's Department, Fire Department or Orlando Regional Medical Center.

CCC did not report this release to the NRC. The reportable quantity for chlorine for reporting to the NRC is ten pounds and our September 22 release is estimated at less than one pound. Since that incident, however, we have received and reviewed your correspondence pertaining to the inspection of May 14, 1997, specially with reference to implementation of *all* requirements of the Contingency Plan. A corresponding review of item 6 of the Contingency Plan shows that notification of either the governmental on-scene coordinator or the NRC is required without reference to any threshold release quantity.

Based on an assessment of the actual conditions at the time of the vapor release, CCC determined that neither human health nor the environment was threatened outside the facility. Therefore, CCC did not notify the Orange County Civil Defense Fund or the Florida Bureau of Disaster Prevention (see item 7 of the Contingency Plan). No injury to personnel or damage to property occurred as a result of the incident.

During the emergency, CCC took all reasonable measures necessary to ensure that fires, explosions, and releases did not occur, recur, or spread to the other hazardous waste at the facility. All operations at the facility were halted immediately. No containers, other than the tanker itself, were involved in the incident. As the release involved only vapors, the containment system for the tanker was not utilized. CCC did not have the occasion to use any of its emergency equipment during this release, except that two large fans were placed next to the manhole to help dissipate the remaining gas coming out of the tanker. Mr. Robert Snyder, P.E. September 29, 1997 Page 3

There was no recovered waste, contaminated soil, or any other material resulting from the vapor release, and no cleanup procedures were required. As previously noted, no emergency equipment was utilized, and none, therefore, required cleaning following the incident. Likewise, no mechanical and electrical repairs were required.

This report is submitted in satisfaction of items 12 and 13 of the facility's Contingency Plan. In view of the particular facts associated with this incident, CCC does not deem appropriate to disseminate any information to the public via local news media.

We have attempted to carefully evaluate the cause of the September 22 incident and formulate a course of action that will prevent its recurrence. Chromic acid solutions do not present a compatibility concern when they are weak. They are not pumped into a tanker unless a sample from every container holding the solution has passed a compatibility test, which they did before the solution was loaded into the tanker. However, another procedure that consists of pumping the solution into a tote tank and lets it rest there for a while before it is pumped into a tanker was not followed. This procedure simulates a compatibility test in a larger scale, involving quantities smaller than a tanker volume to avoid a large scale incident. Also, a separate compatibility test is conducted on samples collected from every tote tank before their contents are pumped into the tanker. Chromic acid solution was supposed to be pumped into six tote tanks holding different waste streams, one drum per tote tank. Instead, the chromic acid solution was pumped into the tanker directly from the drums.

Obviously, the compatibility test is not accomplishing the results for which it was designed and changes are needed to make it more reliable. CCC reviewed the compatibility test plan and found some areas where it needs improvements. One of them is documentation of compatibility test results for samples from every container that is pumped into the tote tanks, as well as from the tote tanks before their contents are pumped into the tanker. Documentation of test results has been proposed in the permit application CCC submitted to DEP for review, but it has not been implemented in the current procedures. A copy of the Compatibility Test Results Log Sheet that has been designed to document the results of the compatibility test is attached.

Another improvement to be introduced in the testing procedures is the use of a more powerful mixer to achieve a better blending action of the sample mixture. A modification of the test plan will also require that waste to be pumped into tote tanks proceed from separate waste streams. We suspect that chromic acid solution samples were commingled in the test without the presence of other waste streams with which it reacted in the tanker.

A separate measure that CCC is implementing is the installation of a scrubber to control emissions coming out of the tanker during and after the loading operation. Waste will be pumped into the tanker through one nozzle in the manhole and the vapor control equipment will be connected to another nozzle in the tanker manhole. The same equipment will be used to control emissions from a tote tank if it becomes necessary.

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The emission control equipment will prevent harmful vapors from escaping to atmosphere. Figure 1 shows the piping and hose arrangement between the tanker, tanks and emission control equipment. A separate sheet contains an outline of the steps to be followed in the incompatibility test procedure. An analysis report for the mixture that was loaded into the tank is provided with this letter.

If you have any questions, please call me at (407) 859-4441.

Sincerely,

CHEMICAL CONSERVATION CORPORATION

Armando I. Gonzalez Compliance Officer

cc: William F. Labadie Jean Tolman

PAGE 1

Cuomv

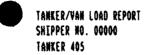
97411

LOAD/UNIT #	¦ MANIFEST ¦ANALYSIS¦ DESCRIPTION Waste codes			¦UNIT¦QU	ANTITY¦ GALLO	NS
E\$72036L0001	72497		CHROMERGE D002 D007	ι	2.000	0.528
E572036L0002	72497		NETAL SALTS (260 D002 D007 D005 D008 D009 D011	L	2.000	0.528
E602003L0001	97075	HALO585A	HURIATIC ACID	QT	1.000	0.250
E602003L0002	97075	HALO585A	DOO2 PHOSPHORIC ACID 10%	ØT	11.000	2.750
E602003L0005	97075	HALD585A	HYDROCHLORIC ACID POTASSIUM CHLORIDE D002	OT	1.000	0.250
E602003L0006	97075	HALO585A	PHOSPHORIC ACID/LIME SCALE REMOVER DOO2	GA	1.000	1.000
E602003L0007	97075	HALO585A	PHOSPHORIC ACID 10% D002	PT	1.000	0.125
E602003L0008	97075	HALO585A	NYDROGEN CHLORIDE BOO2	QT	14.000	3.500
E602003L0009	97075	HALO585A	EROTICATES CONTAINING HYDROFLUORIC ACID D002	OZL	14.000	0.109
E602003L0010	97075	HALO585A	HYDROCHLORIC ACID	PT	1.000	0.125
E602003L0011	97075	HALO585A	DOO2 HYDROCHLORIC ACID	PT	1.000	0.125
E60202110001	97075	HALO585A	DOO2 HYDROGEN CHLORIDE 23%	QT	38.000	9.500
E602021L0002	97075	HALO585A	DOO2 RUST REMOVER	GA	2.000	2.000
E6020211.0004	97075	HALD585A	DOO2 Hydrofloric Acib	PT	4.000	0.500
E604027L0001	97014	HID0662K	DOO2 SULFURIC ACID	GA	3.000	3.000
E604027L0002	97014	NIQO662K	DOO2 Hydrochloric Acid	6A	1.000	1.000
E604027L0005	97014	NID0662K	DOO2 RUST REMOVER	6	10.000	0.003
E604027L0006	97014		DOO2 Stannous Chloride	LB	0.250	0.030
E604027L0009	97014	NID0662K	DOO2 FERRIC CHLORIDE	NL	15.000	0.005
E604029L0013	97013	NIDO662L	DOO2 IODINE SOLUTION	PT	2.000	0.250
E612022	37239 416	DRHF0919	DOO2 RQ, Waste Corrosive liquid, Acidic, Inorganic,	SA	2.000	2.000
E627031	97134 422	DRNF0921	0002 0007 RQ, Waste Corrosive liquid, Acidic, Inorganic,	PT	1.000	0.125
E627032			D002 D010 RQ, Waste Corrosive liquid, Acidic, Inorganic,	GA	1.000	1.000
E632080			0002 0007 RQ, Waste Corrosive liquid, Acidic, Inorganic,	6A	2.000	2.000
E632081			D002 D007 RQ, Waste Corrosive liquid, Acidic, Inorganic,	6A	1.000	1.000
			DOO2 DOO7 OXYGEN INDICATOR	OZL	48.000	0.374
E640009L0001	0(10/	13147238	DOO2 DOO7	VEL	40.999	4.3/4

Barby

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.OAD/UNIT \$	HANIFEST	ANALYSIS	DESCRIPTION WASTE CODES	(UNIT) (	UANTITY; GALI	ONS
641002	82197	NARF 8908	RQ, Waste Sulfuric acid	SÅ	8.000	8.000
E644004L0001	71052	UNI0839C	BOO2 P-TOLUENESULFONIC ACID	6	100.000	0.030
E644004L0003			DOO2 DINETHYL SULFATE	6	200.000	0.060
			0002			
E644004L0014	71052	UNI0839C	HYDROCHLORIC ACID, COBALT CHLORIDE D002	L.	1.000	0.264
E645047	27779 435	DRNF0915	RQ, Waste Corrosive liquid, Acidic, Inorganic, D002 D007	6A	2.000	2.000
E646012	12661	GREF0435	RQ, Waste Corrosive liquid, Acidic, Inorganic, D002 D007	DF	1.000	50.000
E646039L0001	00457	VIS1052H	HYDROFLUORIC ACID	GA	1.000	1.000
E646039L0002	00457	VIS1052H	DOO2 FLUORIDE PASTE	LB	1.000	0.120
E649013	97826	SARF1081	0002 RQ, Waste Corrosive liquid, Acidic, Inorganic,	DN	1.000	50.000
E649014	97826	SARF1081	0002 RQ, Waste Corrosive liquid, Acidic, Inorganic,	DM	1.000	50.000
E649020L0001	89726	SAR1098C	DOO2 FLUOBORIC ACID	6A	5.000	5.000
E649020L0003	89726	SAR1098C	DOO2 PHOSPHORIC ACID	ι	2.000	0.528
E649020L0004	89726	SAR1098C		64	1.000	1.000
E649021L0001	89726	SAR1098E	DOO2 CORROSIVE LIQUID (PH <2)	6A	15.000	15.000
E656030	00009	XLCF1127	DOO2 RQ, Waste Chromic acid solution	DN	1.000	50.000
E657030L0001	78274	THO1101D	DOO2 DOO7 RUST REHOVER	PT	2.000	0.250
E657030L0002	78274	TH011010	DOO2 Oxford Fornula 100l	GA	1.000	1.000
E657030L0003	78274	TH01101D	DOO2 Total Alkalinity	OZL	16.000	0.125
E657030L0004	78274	TH01101D	DOO2 Sodium Bidulfate	OZL	64.000	0.499
E657030L0005	78274	TK011010	DOO2 Annonium nelybdate	OZL	64.000	0.499
E657030L0006	78274	THO1101D	DOO2 Total Alkalinity	OZL	8.000	0.062
E657030L0007	78274	TH01101D	DOO2 Sodium Thiosulfate	OZL	8.000	0.062
E657030L0008	78274	TH01101D	DOO2 Thiodulfate	OZL	8.000	0.062
E661010	82697	NUTF1390	0002 RQ, Waste Corrosive liquid, Acidic, Inorganic,	DF	1.000	50.000
661017	82697	#  151360	0002 RQ, Waste Corrosive liquid, Acidic, Inorganic,	DF	1.000	50.000
			0002			
663001	97829	SUUI 8946	RQ, Waste Ferric chloride, solution DOO2 DOO4 DOO7	6 <b>A</b>	25.000	25.000

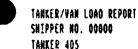
LOAD/UNIT # | MANIFEST ;ANALYSIS;

DESCRIPTION



UNIT QUANTITY; GALLONS

WASTE CODES						
E663002	97829	SOUF8946 RQ, Waste Ferric DOO2 DOO4 DOO7		6A	25.000	25.000
E663003	97829	SOUF8946 RQ, Waste Ferric DOO2 DOO4 DOO7	chloride, solution	GA	25.000	25.000
E663004	97829	SOUF8946 RQ, Waste Ferric D002 D004 D007	chloride, solution	GA	25.000	25.000
E663006	97829	SOUF8946 RD, Waste Ferric	chloride, solution	GA	25.000	25.000
E663007	97829	D002 D004 D007 SOUF8946 RQ, Waste Ferric	chloride, solution	DN	1.000	50.000
E663026	97829	DOO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric	chloride, solution	DĦ	1.000	50.000
E663033	97829	DOO2 DOO4 DOO7 SDUF8946 RQ, Waste Ferric	chloride, solution	DM	1.000	50.000
E663034	97829	DOO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric	chloride, solution	NG	1.000	50.000
E663035	97829	DOO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric	chloride, solution	DM	1.000	50.000
E663036	97829	8002 8004 8007 SOUF8946 RQ, Waste Ferric	chloride, solution	DH	1.000	50.000
E663037	97829	DCO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric	chloride, solution	DM	1.000	50.000
E663043	97829	DOO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric	chloride, solution	GA	25.000	25.000
E663044	97829	0002 0004 0007 SOUF8946 RQ, Waste Ferric	chloride, solution	DH	1.000	50.000
E663045	97829	D092 0004 0007 S0UF8946 RQ, Waste Ferric		DM	1.000	50.000
E663046	97829	DOO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric		DH	1.000	50.000
E663047	97829	D002 D004 D007 S0UF8946 RQ, Waste Ferric		DN	1.000	50.000
		D002 D004 D007				
E663049	97829	SOUF8946 RQ, Waste Ferric DOO2 DOO4 DOO7	CALOFICE, SOLULION	BN	1.000	50.000
E663050	97829	SOUF8946 RQ, Waste Ferric D002 D004 D007	chloride, solution	DN	1.000	50.000
E663051	97829	SOUF8946 RQ, Waste Ferric D002 D004 D007	chloride, solution	DN	1.000	50.000
E663053	97829	SOUF8946 RQ, Waste Ferric D002 D004 D007	chloride, solution	GA	25.000	25.000
E663054	97829	SOUF8946 RQ, Waste Ferric D002 D004 D007	chloride, solution	64	25.000	25.000
E663055	97829	SOUF8946 RQ, Waste Ferric D002 D004 D007	chloride, solution	DM	1.000	50.000
E663056	97829	SOUF8946 RQ, Waste Ferric D002 0004 D007	chloride, solution	DN	1.000	50.000
E663057	97829	SOUF8946 RQ, Waste Ferric	chloride, solution	DN	1.000	50.000
E663058	97829	0002 0004 0007 SOUF8946 RQ, Waste Ferric	chloride, solution	DN	1.000	50.000
E663059	97829	DOO2 DOO4 DOO7 SOUF8946 RQ, Waste Ferric		BN	1.000	50.000



LOAD/UNIT # | MANIFEST |ANALYSIS] UNIT QUANTITY GALLOWS DESCRIPTION WASTE CODES \_\_\_\_\_ .............. E663060 97829 SQUF8946 RQ. Waste Ferric chloride, solution DN 1.000 50.000 0002 0004 0007 E663062 97829 1.000 50.000 SOUF8946 RD. Waste Ferric chloride, solution DM 8002 8004 8007 E663063 97829 SOUF8946 RD, Waste Ferric chloride, solution DM 1.000 50.000 0002 D004 D007 E663065 97829 DH 1.000 50.000 SOUF8946 RQ, Waste Ferric chloride, solution 0002 0004 0007 E663066 97829 SOUF8946 RQ, Waste Ferric chloride, solution ÛŇ 1.000 50.000 0002 D004 D007 97829 E663067 SOUF8946 RQ, Waste Ferric chloride, solution BM 1.000 50.000 B002 D004 B007 E663068 97829 SOUF8946 RQ, Waste Ferric chloride, solution DĦ 1.000 50,000 D002 D004 D007 E663069 97829 SOUF8946 RO, Waste Ferric chloride, solution DN 1.000 50,000 D002 D004 D007 E663072 97829 SOUF8946 RQ, Waste Ferric chloride, solution DN 1.000 50,000 0002 0004 0007 E663073 97829 SOUF8946 RD, Waste Ferric chloride, solution DN 1.000 50.000 D002 D004 D007 E663075 97829 DH SOUF8946 RQ, Waste Ferric chloride, solution 1.000 50,000 B002 B004 B007 E663076 97829 SOUF8946 RQ, Waste Ferric chloride, solution DM 1.000 50.000 D002 D004 D007 E663078 97829 SOUF8946 RQ, Waste Ferric chloride, solution ÛN 1.000 50.000 D002 D004 D007 E664008 81997 NUCF1045 RD, Waste Sulfuric acid GA 3.000 3.000 8002 E665001 97082 PIER0817 R0. Waste Corrosive liquids. n.o.s. DM 1.000 50.000 0002 97396 120 DRMF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, E668017 DN 1.000 50.000 0002 0006 0007 0008 E668018 97396 120 DRMF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, DN 1.000 50.000 0002 D006 D007 0008 E673005 90397 JETF6168 RQ, Waste Corrosive liquids, n.o.s. DM 1.000 50.000 0002 0007 E674090 97074 441 DRMF0922 R0, Waste Corrosive liquid, Acidic, Inorganic, 6A 2.000 2.000 0002 0007 E676001 97404 119 DRMF0902 R0, Waste Corrosive liquid, Acidic, Inorganic, DH 1.000 50.000 0002 0006 0008 0035 0040 E676002 97404 119 DRNF0902 R0, Waste Corrosive liquid, Acidic, Inorganic, 1.000 50.000 DN 0002 0006 0008 0035 0040 E676013 97404 119 ORMF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, ÔŇ 1.000 50.000 0002 0006 0008 0035 0040 E676016 97404 119 ORMF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, DM 1.000 50.000 D002 D006 D008 D035 D040 E676017 97404 119 DRHF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, DM 1.000 50.000 D002 D006 D008 D035 D040 E676018 97404 119 ORMF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, BĦ 1.000 50.000 0002 0006 0008 0035 0040 E676030 97404 119 DRMF0902 R0, Waste Corrosive liquid, Acidic, Inorganic, DM 1.000 50.000

D002 D006 D008 D035 D040

E694012

E696008

E696011

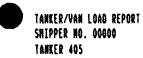
E696012

88032

62017

62017

62017





LOAD/UNIT # | MANIFEST | ANALYSIS DESCRIPTION UNIT QUANTITY GALLONS WASTE CODES ----E676031 97404 119 DRMF0902 RG, Waste Corrosive liquid, Acidic, Inorganic, DN 1.000 50.000 D002 D006 D008 D035 D040 E676045 97404 119 DRMF0902 RQ, Waste Corrosive liquid, Acidic, Inorganic, ON 1.000 50.000 D002 D006 D008 D035 B040 E680001 00055 HELF1166 RQ, Waste Corrosive liquids, n.o.s. DM 1.000 50.000 B002 D007 00055 50.000 E680002 HELF1166 RO, Waste Corrosive liquids, n.o.s. DM 1.000 0002 0007 E680003 00055 HELF1166 RQ, Waste Corrosive liquids, n.o.s. DN 1.000 50.000 D002 D007 00055 E680004 HELF1166 RQ, Waste Corrosive liquids, n.o.s. DM 1.000 50,000 D002 D007 E680005 00055 HELF1166 RQ, Waste Corrosive liquids, n.o.s. 50,000 BN 1.000 0002 0007 E680006 00055 HELF1166 RO, Waste Corrosive liquids, n.o.s. ÐM 1.000 50,000 D002 0007 E680007 00055 HELF1166 RQ, Baste Corrosive liquids, n.o.s. 1.000 50.000 DH B002 B007 E680008 00055 HELF1167 RQ, Waste Corrosive liquids, m.o.s. ON 1.000 50.000 0002 E680011L0001 62757 VIR11258 RD, Waste Hydrofluoric acid, solution GA 1.000 1.000 0002 E681021 72471 012 DRMF4783 RQ, Waste Corrosive liquid, Acidic, Inorganic, 6A 1.000 1.000 0002 E681024 72463 012 DRHF4789 R0, Waste Corrosive liquid, Acidic, Iborganic, 6A 2.000 2.000 0002 E685058 27793 442 DRMF0915 RQ, Waste Corrosive liquid, Acidic, Inorganic, 1.000 50,000 BM 0002 0007 E686006 90997 GNBF1027 RQ, Waste battery fluid, acid 50.000 DF 1.000 D002 D008 E686007 90997 GNBF1027 RQ, Waste battery fluid, acid DF 1.000 50.000 D002 D008 E686008 90997 SNBF1027 RQ, Waste battery fluid, acid DF 1.000 50.000 0002 0008 E686009 90997 GNBF1027 RD, Waste battery fluid, acid DF 50.000 1.000 0002 0008 E691006 91197 FLAF4486 RQ, Waste Sulfuric acid DM 1.000 50.000 0002 E692001 97434 TRIF9033 RQ, Waste Corrosive liquids, n.o.s. OF 1.000 50.000 D002 E694006 88032 K&LF0567 RQ, Waste Corrosive liquid, Acidic, Inorganic, OF 1.000 50.000 0002 E694007 88032 K&LF0567 RQ, Waste Corrosive liquid, Acidic, Inorganic, DF 1.000 50.000 0002

OLDF0911 R0, Waste Corrosive liquid, Acidic, Inorganic,

OLDF0911 RQ, Waste Corrosive liquid, Acidic, Inorganic,

K&LF0567 RQ, Waste Corrosive liquid, Acidic, Inorganic,

OLDF0915 RO, Waste Hydrochloric acid, solution

0002

0002

0002

D002

DF

DM85

DN

DN

1.000

1.000

1.000

1.000

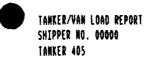
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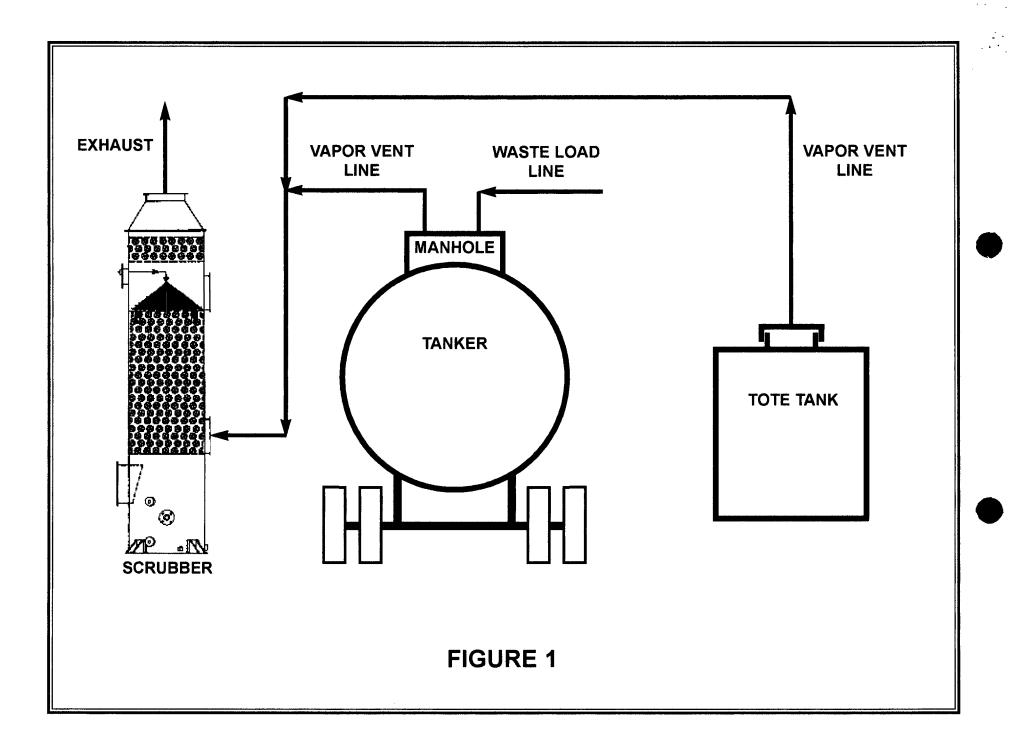




LCAO/UNIT	# † NANIFEST	• •	DESCRIPTION CODES	¦UNIT¦QU	ANTITY¦ GALLO	NS
E710002	91997	PREF1286 RQ, W	aste Chromic acid solution D007	DM	1.000	50.000
E710003	91997		aste Chromic acid solution	DM	1.000	50.000
E710004	91997	PREF1286 RQ, W D002	aste Chromic acid solution DOO7	DN	1.000	50.000
E710005	91997	PREF1286 RQ, W D002	aste Chromic acid solution 0007	ON	1.000	50.000
E710007	91997	PREF1286 RQ, W 0002	aste Chromic acid solution 0007	DN	1.000	50.000
E710008	91997	PREF1286 RQ, W D002	aste Chromic acid solution D007	OH	1.000	50.000

D002 D094 D005 D006 D007 D008 B009 D010 D011 D035 D040

TOTAL GALLONS THIS REPORT 4126.638



#### COMPATIBILITY TEST PLAN

#### **PROCEDURE OUTLINE**

- 1. Have two test equipment sets, each composed of the following items:
  - A beaker to contain and test waste samples to be collected
  - A mixer to stir the sample mixture in the beaker
  - A device to measure the temperature of the sample mixture
- 2. Segregate a group of containers that meet the following specifications:
  - The total waste volume in the containers group is large enough to fill a tote tank
  - Each waste container in the group must belong to a different waste stream
- 3. The sample volume should be proportional to the size of the container
- 4. Collect a representative waste sample consisting of a column from top to bottom
- 5. Place the waste sample in the beaker right after being taken from the container
- 6. Record the temperature of the first sample placed in the beaker
- 7. Place in the beaker only waste to be transferred into one tote tank
- 8. Record the Drum I.D. and size of every container from which a sample was taken
- 9. Use a separate log to record temperature, test and container data for each group
- 10. Repeat the steps' 2-9 for a second group of containers (2nd sample set)
- 11. Record temperature, bubbling action and vapor coming out of 1st sample set
- 12. Save sample sets for later use
- 13. Repeat 1-11 for container groups needed to fill tote tanks enough to complete a tanker
- 14. Bring to the plant manager (PM) attention a test result that shows a temperature rise, bubbling action or generation of vapor
- 15. Have every test result for waste in containers approved by PM
- 16. Fill tote tanks with waste from container groups after results are approved by PM
- 17. Identify every tote tank filled to complete a tanker and collect samples from them following steps' 4-6, 8, 11, 14 and 15, replacing the word "container" with "tote tanks"
- 18. Alternatively, samples used in step 16 may be taken from sample sets collected from container groups instead of collecting individual samples from every tote tank
- 19. Load tanker with waste in tote tanks after results are approved by PM

Load No:			ESULT LOG SH Operators Na			
SET Tote-Tank I.	D. No.:	Initial Temp	.:Time:	Fina	I Temp.:	Time:
Drum I.D. No. / Size	Drum I.D. No	o. / Size	Drum I.D. No.			No. / Siz
//	·					/
//	·	/		_/		/
*Measure initial temp	erature Bubt			_' Gas de	neration? Y	′ es □ No
SET Tote-Tank I.			• • • • • • • • • • • • • • • • • • • •			
Drum I.D. No. / Size	brum I.D. No	o. / Size	Drum I.D. No.	/ Size	Drum I.D.	
///			•••••• <u>, ,, , , , , , , , , , , , , , ,</u>			///////
//		/		_/		/
*/				_/		/
*Measure initial temp	erature Bubb	oling action?		Gas ge	neration? Y	
SET Tote-Tank I.	D. No.:	Initial Temp	.:Time:	Fina	I Temp.:	Time:_
Drum I.D. No. / Size	*	,		,		,
//		/		1	<u> </u>	//
///////	·	/				/
		/		_/		/
*Measure initial temp	erature Bubb	oling action?	Yes 🗌 No 🗌	Gas ge	neration? Y	es 🗖 No
SET Tote-Tank I.	D. No.:	Initial Temp	.:Time:	Fina	I Temp.:	Time:_
Drum I.D. No. / Size						
/	* 		····	_/		/
//	•	/		_/		//
//		/			,	//
*Measure initial temp	erature Bubt	bling action?	Yes 🗌 No 🗖	Gas ge	neration? Y	es 🔲 No
SET Tote-Tank I.						
Drum I.D. No. / Size			Drum I.D. No.			
	*					NO. 7 31/
//		/		_/		/
/				_/		/
// *Measure initíal temp				_/	<u> </u>	/
	aratura Dubk	alimon notin mO			norotion? V	

### Chemical Conservation of Georgia, Inc. Laboratory Services



1612 James P. Rodgers Circle, Valdosta, Georgia 31601

(912) 244-0474 • FAX: (912) 333-0328

Client: Chemical Conservation Corporation 10100 Rocket Blvd. Brlando, FL 32824 Pat Sullivan

Customer's Sample Log Number: CCGI's Sample Log Number: Date Sample Received: Date Analysis Completed: Generator's Name: Sample Identification:

Tanker #405 97171 09/25/97 09/26/97 Chem-Con Orlando Water

Lab Manager: innon

Page 1 of 2

CCGI's Sample Log Number: 97171 Page 2 of 2

## Chemical Conservation of Georgia, Inc. Laboratory Services

Miscellaneous Analysis	Results
PH	<b>0.24</b>
Water	73.97%
Percent Solid	<0.5%

TCLP Metal	s Analysis	Results	Units	Regulatory Level (mg/L)
Arsenic	(As)	39.6	mg/L	5.0
Barium	(Ba)	N/A	mg/L	510
Cadmium	(Cd)	10000	<i>mg/</i> ∟	1.0
Chromium	(Cr)	60000	mq/L	5.0
Lead	(Pb)	400	mg/L	5.0
Mercury	(Ha)	N/A	mg/L	
Selenium	(Se)	5.4	mg/L	1.0
Silver	(Ag)	100.00	mq/L	5.0