REDACTED VERSION

CES Environmental Services, Inc.

Dana R. Carter
Account Manager

4904 Griggs Rd.
Houston, TX 77021

Office: (713) 676-1460
Fax: (713) 676-1676
Mobile: (713) 748-9804
Email: dcarter@cesenvironmental.com

9543002

EPAHO082000001

225 main plant
3870278
Placid Refining
Fred Baron Baron
x492 - 225 346-7492 direct

1) Refinery list
2) Customer Prospects
3) International

Dan	Dana	Gary	Shannon	Joy
87, 78, 29	95,75	107,118	127,136,105,92,82	36,39,7
4,79	JB- 49,67	74,123,9	19	20,35,22,26
84,56,69	JB -6,27	66,45,11	61,55,43,48	33,57,18
5	(32,81,68) JB	21,77,46,42,52	113	54,63,109,15,47,138
94,115,103	(83,13,108) JB	89,91	102,88,86	
73,110,51,44	(59,60,71) JB	38,117	1,8,14	
90	122,119			
12				

Matt
76,23,3
28,64,50,58,106
2

As of 3-20-09

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	Baton Rouge, LA	80,000	DC	3	
95	Placid Refining Co	Louisana	Port Allen	Baton Rouge, LA	56,000	DC	3	
67	Valero Refining Co Oklahoma	Oklahoma	Ardmore	DFW, TX	87,400	DC	2	
92	Delek Refining Ltd	Texas	Tyler	DFW, TX	58,000	DC	2	Austin - engineer
1	Exxonmobil Refining & Supply Co	Texas	Baytown	Local	562,500	DC		
27	Total Petrochemicals Inc	Texas	Port Arthur	Local	232,000	DC		
44	Valero Refining Co New Jersey	New Jersey	Paulsboro	New Jersey	160,000	DC	4	
51	Sunoco Inc	New Jersey	Westville	New Jersey	145,000	DC	4	
73	Chevron Usa Inc	New Jersey	Perth Amboy	New Jersey	80,000	DC	4	
110	Citgo Asphalt Refining Co	New Jersey	Paulsboro	New Jersey	32,000	DC	4	
90	Giant Yorktown Refining	Virginia	Yorktown	Newport News, VA	59,375	DC	1	New Jersey
7	Sunoco Inc (R&M)	Pennsylvania	Philadelphia	Philadelphia, PA	335,000	DC	3	
36	Conocophillips Company	Pennsylvania	Trainer	Philadelphia, PA	185,000	DC	3	
39	Sunoco Inc	Pennsylvania	Marcus Hook	Philadelphia, PA	178,000	DC	3	
43	Sunoco Inc	Ohio	Toledo	Toledo, OH	160,000	DC	4	
48	Premcor Refining Group Inc	Ohio	Lima	Toledo, OH	146,120	DC	4	
55	BP Products North America Inc	Ohio	Toledo	Toledo, OH	131,000	DC	4	
61	Marathon Petroleum Co Llc	Michigan	Detroit	Toledo, OH	100,000	DC	4	by truck, rail?

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in Vicksburg (MS), Sankyo in Japan, or some places in China

***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Kerosene produce NA in the 200 to 260 range)

Eastman Kodak in longview

EPAHO08200006

Printed 7.1.09

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
89	Exxonmobil Refining & Supply Co	Montana	Billings	Billings, MT	60,000	DB	2	
91	Conocophillips Company	Montana	Billings	Billings, MT	58,000	DB	2	
69	Navajo Refining Co	New Mexico	Artesia	Carlsbad, NM	84,000	DB	1	El Paso, TX
5	BP Products North America Inc	Indiana	Whiting	Chicago, IL	410,000	DB	3	
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	Chicago, IL	238,600	DB	3	
41	Citgo (Pdvsa Midwest Refining LLC)	Illinois	Lemont (Chicago)	Chicago, IL	167,000	DB	3	
56	Western Refining Company Lp	Texas	El Paso	El Paso, TX	122,000	DB	1	Carlsbad, NM
8	Shell Deer Park Refining Ltd Partnership	Texas	Deer Park	Local	333,700	DB		
12	Motiva Enterprises Llc	Texas	Port Arthur	Local	285,000	DB		
84	Alon Usa Energy Inc	Texas	Big Spring	Midland, TX	67,000	DB	1	El Paso, TX
143	Foreland Refining Corp	Nevada	Eagle Springs	Reno, NV	2,000	DB	1	San Francisco, CA
21	Chevron Usa Inc	California	Richmond	San Francisco, CA	242,901	DB	5	
42	Tesoro Refining & Marketing Co	California	Martinez	San Francisco, CA	166,000	DB	5	
46	Shell Oil Products Us	California	Martinez	San Francisco, CA	155,600	DB	5	
52	Valero Refining Co California	California	Benicia	San Francisco, CA	144,000	DB	5	
77	Conocophillips Company	California	Rodeo	San Francisco, CA	76,000	DB	5	
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	Baton Rouge, LA	80,000	DC	3	
95	Placid Refining Co	Louisana	Port Allen	Baton Rouge, LA	56,000	DC	3	
67	Valero Refining Co Oklahoma	Oklahoma	Ardmore	DFW, TX	87,400	DC	2	
92	Delek Refining Ltd	Texas	Tyler	DFW, TX	58,000	DC	2	
1	Exxonmobil Refining & Supply Co	Texas	Baytown	Local	562,500	DC		
27	Total Petrochemicals Inc	Texas	Port Arthur	Local	232,000	DC		
44	Valero Refining Co New Jersey	New Jersey	Paulsboro	New Jersey	160,000	DC	4	
51	Sunoco Inc	New Jersey	Westville	New Jersey	145,000	DC	4	
73	Chevron Usa Inc	New Jersey	Perth Amboy	New Jersey	80,000	DC	4	
110	Citgo Asphalt Refining Co	New Jersey	Paulsboro	New Jersey	32,000	DC	4	
90	Giant Yorktown Refining	Virginia	Yorktown	Newport News, VA	59,375	DC	1	New Jersey
7	Sunoco Inc (R&M)	Pennsylvania	Philadelphia	Philadelphia, PA	335,000	DC	3	
36	Conocophillips Company	Pennsylvania	Trainer	Philadelphia, PA	185,000	DC	3	
39	Sunoco Inc	Pennsylvania	Marcus Hook	Philadelphia, PA	178,000	DC	3	
43	Sunoco Inc	Ohio	Toledo	Toledo, OH	160,000	DC	4	
48	Premcor Refining Group Inc	Ohio	Lima	Toledo, OH	146,120	DC	4	
55	BP Products North America Inc	Ohio	Toledo	Toledo, OH	131,000	DC	4	
61	Marathon Petroleum Co Llc	Michigan	Detroit	Toledo, OH	100,000	DC	4	
11	Flint Hills Resources Lp	Texas	Corpus Christi	Corpus Christi, TX	288,126	GB	3	
45	Citgo Refining & Chemical Inc	Texas	Corpus Christi	Corpus Christi, TX	156,000	GB	3	
66	Valero Energy Corporation	Texas	Three Rivers	Corpus Christi, TX	93,000	GB	3	
108	Murphy Oil Usa Inc	Wisconsin	Superior	Duluth, WI	34,300	GB	1	Minneapolis, MN
17	Valero Refining	Texas	Port Arthur	Local	325,000	GB		
62	Pasadena Refining Systems Inc	Texas	Pasadena	Local	100,000	GB		
13	Flint Hills Resources Lp	Minnesota	Saint Paul	Minneapolis, MN	279,300	GB	2	
83	Marathon Petroleum Co Llc	Minnesota	Saint Paul Park	Minneapolis, MN	70,000	GB	2	
10	Woodriver Refining LLC	Illinois	Wood River	St Louis, IL	306,000	GB	3	
34	Marathon Petroleum Co Llc	Illinois	Robinson	St Louis, IL	192,000	GB	3	
117	Countrymark Cooperative Inc	Indiana	Mount Vernon	St Louis, IL	23,000	GB	3	
32	Conocophillips Company	Oklahoma	Ponca City	Tulsa, OK	194,000	GB	4	
59	Coffeyville Resources Llc	Kansas	Coffeyville	Tulsa, OK	112,000	GB	4	
68	Sunoco Inc	Oklahoma	Tulsa	Tulsa, OK	85,000	GB	4	
81	Sinclair Oil Corp	Oklahoma	Tulsa	Tulsa, OK	70,300	GB	4	
60	Frontier El Dorado Refining Co	Kansas	El Dorado	Wichita, KS	107,500	GB	2	
71	NCRA	Kansas	Mcpherson	Wichita, KS	81,200	GB	2	
49	Conocophillips Company	Texas	Borger	Amarillo, TX	146,000	JB	1	Farmington, NM
119	Giant Refining Co	New Mexico	Gallup	Farmington, NM	20,800	JB	2	
122	Giant Industries Inc	New Mexico	Bloomfield	Farmington, NM	16,800	JB	2	
6	Exxonmobil Refining & Supply Co	Texas	Beaumont	Local	348,500	JB		
14	Lyondel - Houston Refining Lp	Texas	Houston	Local	270,200	JB		
23	Conocophillips Company	Louisana	Westlake	Local	239,400	JB		
15	BP West Coast Products Llc	California	Los Angeles	Los Angeles, CA	265,000	JB	6	
47	Exxonmobil Refining & Supply Co	California	Torrance	Los Angeles, CA	149,500	JB	6	
54	Conocophillips Company	California	Wilmington	Los Angeles, CA	139,000	JB	6	
63	Shell Oil Products Us	California	Wilmington	Los Angeles, CA	97,000	JB	6	
109	Edgington Oil Co Inc (Paramount)	California	Long Beach	Los Angeles, CA	33,000	JB	6	
138	Valero Refining Co California	California	Wilmington	Los Angeles, CA	6,300	JB	6	
18	Conocophillips Company	Louisana	Belle Chasse	New Orleans, LA	247,000	JB	5	
20	Marathon Petroleum Co Llc	Louisana	Garyville	New Orleans, LA	245,000	JB	5	
22	Motiva Enterprises Llc	Louisana	Norco	New Orleans, LA	242,200	JB	5	
35	Valero Refining New Orleans Llc	Louisana	Norco	New Orleans, LA	185,003	JB	5	

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
57	Murphy Oil Usa Inc	Louisana	Meraux	New Orleans, LA	120,000	JB	5	
2	Exxonmobil Refining & Supply Co	Louisana	Baton Rouge	Baton Rouge, LA	503,000	MB	3	
86	Sinclair Oil Corp	Wyoming	Sinclair	Cheyenne, WY	66,000	KS	3	
88	Suncor Energy (Usa) Inc	Colorado	Commerce City	Cheyenne, WY	62,000	KS	3	
102	Frontier Refining Inc	Wyoming	Cheyenne	Cheyenne, WY	47,000	KS	3	
76	Calcasieu Refining Co	Louisana	Lake Charles	Local	78,000	MB		
3	Citgo Petroleum Corp	Louisana	Lake Charles	Local	429,500	MB		
94	Tesoro West Coast	Utah	Salt Lake City	Salt Lake City, UT	58,000	KS	3	
103	Chevron Usa Inc	Utah	Salt Lake City	Salt Lake City, UT	45,000	KS	3	
115	Holly Corp Refining & Marketing	Utah	Woods Cross	Salt Lake City, UT	24,700	KS	3	
26	Motiva Enterprises Llc	Louisana	Convent	New Orleans, LA	235,000	SoChem / MB		
33	Chalmette Refining Llc	Louisana	Chalmette	New Orleans, LA	192,760	SoChem / MB		
107	Hunt Refining Co	Alabama	Tuscaloosa	Birmingham, AL	34,500	KS	1	Memphis, TN
78	Marathon Petroleum Co Llc	Ohio	Canton	Canton, OH	73,000	KS	2	
87	United Refining Co	Pennsylvania	Warren	Canton, OH	65,000	KS	2	
29	Marathon Petroleum Co Llc	Kentucky	Catlettsburg	Charleston, WV	222,000	KS	1	Canton, OH
4	BP Products North America Inc	Texas	Texas City	Local	417,000	KS		
19	Conocophillips Company	Texas	Sweeny	Local	247,000	KS		
79	Marathon Petroleum Co Llc	Texas	Texas City	Local	72,000	KS		
38	Premcor Refining Group Inc	Tennessee	Memphis	Memphis, TN	180,000	KS	1	Birmingham, AL
9	Chevron Usa Inc	Mississippi	Pascagoula	Mobile, AL	330,000	KS	3	
74	Shell Chem Lp	Alabama	Saraland	Mobile, AL	80,000	KS	3	
123	Gulf Atlantic Operations Llc	Alabama	Mobile	Mobile, AL	16,700	KS	3	
82	Lion Oil Co	Arkansas	El Dorado	Monroe, LA	70,000	KS	2	
118	Ergon Refining Inc	Mississippi	Vicksburg	Monroe, LA	23,000	KS	2	
113	Citgo Asphalt Refining Co	Georgia	Savannah	Savannah, GA	28,000	KS	1	Mobile, AL
28	Bp West Coast Products Llc	Washington	Ferndale (Cherry Point)	Seattle, WA	225,000	KS	5	
50	Shell Oil Products Us	Washington	Anacortes	Seattle, WA	145,000	KS	5	
58	Tesoro West Coast	Washington	Anacortes	Seattle, WA	120,000	KS	5	
64	Conocophillips Company	Washington	Ferndale	Seattle, WA	96,000	KS	5	
106	Us Oil & Refining Co	Washington	Tacoma	Seattle, WA	37,850	KS	5	
105	Calumet Shreveport Llc	Louisana	Shreveport	Shreveport, LA	42,000	KS	3	
127	Calumet Lubricants Co Lp	Louisana	Cotton Valley	Shreveport, LA	13,020	KS	3	
136	Calumet Lubricants Co Lp	Louisana	Princeton	Shreveport, LA	8,300	KS	3	
	Helenic Petroleum	INTERNATIONAL	Greece	International				
	Hovensa	INTERNATIONAL	St. Croix	International	650,000			
	Petrotrin	INTERNATIONAL	Point a Pierre Trinidad	International	175,000			
	RasGas	INTERNATIONAL	QATAR	International				
	Refineria Isla	INTERNATIONAL	Curacao	International	175,000			

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AS OF 3-20-09

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
89	Exxonmobil Refining & Supply Co	Montana	Billings	Billings, MT	60,000	DB	2	
91	Conocophillips Company	Montana	Billings	Billings, MT	58,000	DB	2	
69	Navajo Refining Co	New Mexico	Artesia	Carlsbad, NM	84,000	DB	1	El Paso, TX
5	BP Products North America Inc	Indiana	Whiting	Chicago, IL	410,000	DB	3	
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	Chicago, IL	238,600	DB	3	
41	Citgo (Pdvsa Midwest Refining LLC)	Illinois	Lemont (Chicago)	Chicago, IL	167,000	DB	3	
56	Western Refining Company Lp	Texas	El Paso	El Paso, TX	122,000	DB	1	Carlsbad, NM
8	Shell Deer Park Refining Ltd Partnership	Texas	Deer Park	Local	333,700	DB		
12	Motiva Enterprises Llc	Texas	Port Arthur	Local	285,000	DB		
84	Alon Usa Energy Inc	Texas	Big Spring	Midland, TX	67,000	DB	1	El Paso, TX
##	Foreland Refining Corp	Nevada	Eagle Springs	Reno, NV	2,000	DB	1	San Francisco, CA
21	Chevron Usa Inc	California	Richmond	San Francisco, CA	242,901	DB	5	
42	Tesoro Refining & Marketing Co	California	Martinez	San Francisco, CA	166,000	DB	5	
46	Shell Oil Products Us	California	Martinez	San Francisco, CA	155,600	DB	5	
52	Valero Refining Co California	California	Benicia	San Francisco, CA	144,000	DB	5	
77	Conocophillips Company	California	Rodeo	San Francisco, CA	76,000	DB	5	
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	Baton Rouge, LA	80,000	DC	3	
95	Placid Refining Co	Louisana	Port Allen	Baton Rouge, LA	56,000	DC	3	
67	Valero Refining Co Oklahoma	Oklahoma	Ardmore	DFW, TX	87,400	DC	2	
92	Delek Refining Ltd	Texas	Tyler	DFW, TX	58,000	DC	2	
1	Exxonmobil Refining & Supply Co	Texas	Baytown	Local	562,500	DC		
27	Total Petrochemicals Inc	Texas	Port Arthur	Local	232,000	DC		
44	Valero Refining Co New Jersey	New Jersey	Paulsboro	New Jersey	160,000	DC	4	
51	Sunoco Inc	New Jersey	Westville	New Jersey	145,000	DC	4	
73	Chevron Usa Inc	New Jersey	Perth Amboy	New Jersey	80,000	DC	4	
##	Citgo Asphalt Refining Co	New Jersey	Paulsboro	New Jersey	32,000	DC	4	
90	Giant Yorktown Refining	Virginia	Yorktown	Newport News, VA	59,375	DC	1	New Jersey
7	Sunoco Inc (R&M)	Pennsylvania	Philadelphia	Philadelphia, PA	335,000	DC	3	

EPAHO082000009

As of 3-20-09

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
36	Conocophillips Company	Pennsylvania	Trainer	Philadelphia, PA	185,000	DC	3	
39	Sunoco Inc	Pennsylvania	Marcus Hook	Philadelphia, PA	178,000	DC	3	
43	Sunoco Inc	Ohio	Toledo	Toledo, OH	160,000	DC	4	
48	Premcor Refining Group Inc	Ohio	Lima	Toledo, OH	146,120	DC	4	
55	BP Products North America Inc	Ohio	Toledo	Toledo, OH	131,000	DC	4	
61	Marathon Petroleum Co Llc	Michigan	Detroit	Toledo, OH	100,000	DC	4	
11	Flint Hills Resources Lp	Texas	Corpus Christi	Corpus Christi, TX	288,126	GB	3	
45	Citgo Refining & Chemical Inc	Texas	Corpus Christi	Corpus Christi, TX	156,000	GB	3	
66	Valero Energy Corporation	Texas	Three Rivers	Corpus Christi, TX	93,000	GB	3	
##	Murphy Oil Usa Inc	Wisconsin	Superior	Duluth, WI	34,300	GB	1	Minneapolis, MN
17	Valero Refining	Texas	Port Arthur	Local	325,000	GB		
62	Pasadena Refining Systems Inc	Texas	Pasadena	Local	100,000	GB		
13	Flint Hills Resources Lp	Minnesota	Saint Paul	Minneapolis, MN	279,300	GB	2	
83	Marathon Petroleum Co Llc	Minnesota	Saint Paul Park	Minneapolis, MN	70,000	GB	2	
10	Woodriver Refining LLC	Illinois	Wood River	St Louis, IL	306,000	GB	3	
34	Marathon Petroleum Co Llc	Illinois	Robinson	St Louis, IL	192,000	GB	3	
##	Countrymark Cooperative Inc	Indiana	Mount Vernon	St Louis, IL	23,000	GB	3	
32	Conocophillips Company	Oklahoma	Ponca City	Tulsa, OK	194,000	GB	4	
59	Coffeyville Resources Llc	Kansas	Coffeyville	Tulsa, OK	112,000	GB	4	
68	Sunoco Inc	Oklahoma	Tulsa	Tulsa, OK	85,000	GB	4	
81	Sinclair Oil Corp	Oklahoma	Tulsa	Tulsa, OK	70,300	GB	4	
60	Frontier El Dorado Refining Co	Kansas	El Dorado	Wichita, KS	107,500	GB	2	
71	NCRA	Kansas	Mcpherson	Wichita, KS	81,200	GB	2	
49	Conocophillips Company	Texas	Borger	Amarillo, TX	146,000	JB	1	Farmington, NM
##	Giant Refining Co	New Mexico	Gallup	Farmington, NM	20,800	JB	2	
##	Giant Industries Inc	New Mexico	Bloomfield	Farmington, NM	16,800	JB	2	
6	Exxonmobil Refining & Supply Co	Texas	Beaumont	Local	348,500	JB		
14	Lyondel - Houston Refining Lp	Texas	Houston	Local	270,200	JB		
23	Conocophillips Company	Louisana	Westlake	Local	239,400	JB		
15	BP West Coast Products Llc	California	Los Angeles	Los Angeles, CA	265,000	JB	6	
47	Exxonmobil Refining & Supply Co	California	Torrance	Los Angeles, CA	149,500	JB	6	
54	Conocophillips Company	California	Wilmington	Los Angeles, CA	139,000	JB	6	
63	Shell Oil Products Us	California	Wilmington	Los Angeles, CA	97,000	JB	6	
##	Edgington Oil Co Inc (Paramount)	California	Long Beach	Los Angeles, CA	33,000	JB	6	
##	Valero Refining Co California	California	Wilmington	Los Angeles, CA	6,300	JB	6	

EPAHO08200010

As of 3-20-09

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
18	Conocophillips Company	Louisana	Belle Chasse	New Orleans, LA	247,000	JB	5	
20	Marathon Petroleum Co Llc	Louisana	Garyville	New Orleans, LA	245,000	JB	5	
22	Motiva Enterprises Llc	Louisana	Norco	New Orleans, LA	242,200	JB	5	
35	Valero Refining New Orleans Llc	Louisana	Norco	New Orleans, LA	185,003	JB	5	
57	Murphy Oil Usa Inc	Louisana	Meraux	New Orleans, LA	120,000	JB	5	
2	Exxonmobil Refining & Supply Co	Louisana	Baton Rouge	Baton Rouge, LA	503,000	MB	3	
86	Sinclair Oil Corp	Wyoming	Sinclair	Cheyenne, WY	66,000	MB	3	
88	Suncor Energy (Usa) Inc	Colorado	Commerce City	Cheyenne, WY	62,000	MB	3	
##	Frontier Refining Inc	Wyoming	Cheyenne	Cheyenne, WY	47,000	MB	3	
76	Calcasieu Refining Co	Louisana	Lake Charles	Local	78,000	MB		
3	Citgo Petroleum Corp	Louisana	Lake Charles	Local	429,500	MB		
94	Tesoro West Coast	Utah	Salt Lake City	Salt Lake City, UT	58,000	MB	3	
##	Chevron Usa Inc	Utah	Salt Lake City	Salt Lake City, UT	45,000	MB	3	
##	Holly Corp Refining & Marketing	Utah	Woods Cross	Salt Lake City, UT	24,700	MB	3	
26	Motiva Enterprises Llc	Louisana	Convent	New Orleans, LA	235,000	SoChem / MB		
33	Chalmette Refining Llc	Louisana	Chalmette	New Orleans, LA	192,760	SoChem / MB		
##	Hunt Refining Co	Alabama	Tuscaloosa	Birmingham, AL	34,500	SW	1	Memphis, TN
78	Marathon Petroleum Co Llc	Ohio	Canton	Canton, OH	73,000	SW	2	
87	United Refining Co	Pennsylvania	Warren	Canton, OH	65,000	SW	2	
29	Marathon Petroleum Co Llc	Kentucky	Catlettsburg	Charleston, WV	222,000	SW	1	Canton, OH
4	BP Products North America Inc	Texas	Texas City	Local	417,000	SW		
19	Conocophillips Company	Texas	Sweeny	Local	247,000	SW		
79	Marathon Petroleum Co Llc	Texas	Texas City	Local	72,000	SW		
38	Premcor Refining Group Inc	Tennessee	Memphis	Memphis, TN	180,000	SW	1	Birmingham, AL
9	Chevron Usa Inc	Mississippi	Pascagoula	Mobile, AL	330,000	SW	3	
74	Shell Chem Lp	Alabama	Saraland	Mobile, AL	80,000	SW	3	
##	Gulf Atlantic Operations Llc	Alabama	Mobile	Mobile, AL	16,700	SW	3	
82	Lion Oil Co	Arkansas	El Dorado	Monroe, LA	70,000	SW	2	
##	Ergon Refining Inc	Mississippi	Vicksburg	Monroe, LA	23,000	SW	2	
##	Citgo Asphalt Refining Co	Georgia	Savannah	Savannah, GA	28,000	SW	1	Mobile, AL
28	Bp West Coast Products Llc	Washington	Ferndale (Cherry Point)	Seattle, WA	225,000	SW	5	
50	Shell Oil Products Us	Washington	Anacortes	Seattle, WA	145,000	SW	5	

EPAHO08200011

As of 3-20-09

Rank	Company Name	State	Site	Region/Airport	Barrels per Day	Primary	# of Refineries in Region	Nearest Region
58	Tesoro West Coast	Washington	Anacortes	Seattle, WA	120,000	SW	5	
64	Conocophillips Company	Washington	Ferndale	Seattle, WA	96,000	SW	5	
##	Us Oil & Refining Co	Washington	Tacoma	Seattle, WA	37,850	SW	5	
##	Calumet Shreveport Llc	Louisana	Shreveport	Shreveport, LA	42,000	SW	3	
##	Calumet Lubricants Co Lp	Louisana	Cotton Valley	Shreveport, LA	13,020	SW	3	
##	Calumet Lubricants Co Lp	Louisana	Princeton	Shreveport, LA	8,300	SW	3	
	Helenic Petroleum	INTERNATIONAL	Greece	International				
	Hovensa	INTERNATIONAL	St. Croix	International	650,000			
	Petrotrin	INTERNATIONAL	Point a Pierre Trinidad	International	175,000			
	RasGas	INTERNATIONAL	QATAR	International				
	Refineria Isla	INTERNATIONAL	Curacao	International	175,000			

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EPAHQ08200012

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
84	Alon Usa Energy Inc	Texas	Big Spring	67,000	DC
127	Calumet Lubricants Co Lp	Louisana	Cotton Valley	13,020	DC
136	Calumet Lubricants Co Lp	Louisana	Princeton	8,300	DC
105	Calumet Shreveport Llc	Louisana	Shreveport	42,000	DC
33	Chalmette Refining Llc	Louisana	Chalmette	192,760	DC
92	Delek Refining Ltd	Texas	Tyler	58,000	DC
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	238,600	DC
11	Flint Hills Resources Lp	Texas	Corpus Christi	288,126	DC
90	Giant Yorktown Refining	Virginia	Yorktown	59,375	DC
82	Lion Oil Co	Arkansas	El Dorado	70,000	DC
61	Marathon Petroleum Co Llc	Michigan	Detroit	100,000	DC
22	Motiva Enterprises Llc	Louisana	Norco	242,200	DC
26	Motiva Enterprises Llc	Louisana	Convent	235,000	DC
81	Sinclair Oil Corp	Oklahoma	Tulsa	70,300	DC
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	80,000	DC

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

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Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
84	Alon Usa Energy Inc	Texas	Big Spring	67,000	DC
127	Calumet Lubricants Co Lp	Louisana	Cotton Valley	13,020	DC
136	Calumet Lubricants Co Lp	Louisana	Princeton	8,300	DC
105	Calumet Shreveport Llc	Louisana	Shreveport	42,000	DC
33	Chalmette Refining Llc	Louisana	Chalmette	192,760	DC
137	Cross Oil Refining & Marketing Inc	Arkansas	Smackover	7,200	DC
92	Delek Refining Ltd	Texas	Tyler	58,000	DC
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	238,600	DC
11	Flint Hills Resources Lp	Texas	Corpus Christi	288,126	~~DC~~ GB
90	Giant Yorktown Refining	Virginia	Yorktown	59,375	DC
133	Greka Energy	California	Santa Maria	9,500	DC
82	Lion Oil Co	Arkansas	El Dorado	70,000	DC
61	Marathon Petroleum Co Llc	Michigan	Detroit	100,000	DC
22	Motiva Enterprises Llc	Louisana	Norco	242,200	DC
26	Motiva Enterprises Llc	Louisana	Convent (OChem)	235,000	DC
37	Premcor Refining Group Inc	Delaware	Delaware City	182,200	DC
97	Shell Chem Lp	Louisana	Saint Rose	55,000	DC
81	Sinclair Oil Corp	Oklahoma	Tulsa	70,300	DC
93	Tesoro West Coast	North Dakota	Mandan	58,000	DC
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	80,000	DC
53	Valero Refining Co Texas	Texas	Corpus Christi	142,000	~~DC~~ GB
70	Valero Refining Co Texas	Texas	Houston	83,000	~~DC~~ GB

Don Schwen

Ralph Guillot Scheduler rdguillot@

Total Petrochemical Port Arthur 409-962-4421 (main)
Jeff Baker 409-963-6828

Lyondell Houston Mike Godfrey 713-321-4111

Motiva - Norco LA Ralph Guillot (Scheduler) rdguillot@motivaenterprises.com 504-465-7408
John Olson (Port Aurthur Motiva)

Alon USA Energy Inc Big Spring TX Eric Eckenrode Proc Engineer 915-263-9361

EPAHO08200014

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
128	Age Refining Inc	Texas	San Antonio	13,000	DB
84	Alon Usa Energy Inc	Texas	Big Spring	67,000	DC
132	American Refining Group Inc	Pennsylvania	Bradford	10,000	GRL
85	Big West Of California	California	Bakersfield	66,000	DB
112	Big West Oil Co	Utah	North Salt Lake	29,400	JB
129	Bp Exploration Alaska Inc	Alaska	Prudhoe Bay	12,500	GB
4	BP Products North America Inc	Texas	Texas City	417,000	JB
5	BP Products North America Inc	Indiana	Whiting	410,000	GRL
55	BP Products North America Inc	Ohio	Toledo	131,000	JB
15	BP West Coast Products Llc	California	Los Angeles	265,000	DB
28	Bp West Coast Products Llc	Washington	Ferndale (Cherry Point)	225,000	RRT
76	Calcasieu Refining Co	Louisana	Lake Charles	78,000	JB
127	Calumet Lubricants Co Lp	Louisana	Cotton Valley	13,020	DC
136	Calumet Lubricants Co Lp	Louisana	Princeton	8,300	DC
105	Calumet Shreveport Llc	Louisana	Shreveport	42,000	DC
96	Cenex Harvest States Coop	Montana	Laurel	55,000	GB
33	Chalmette Refining Llc	Louisana	Chalmette	192,760	DC
9	Chevron Usa Inc	Mississippi	Pascagoula	330,000	GRL
16	Chevron Usa Inc	California	El Segundo	260,000	DB
21	Chevron Usa Inc	California	Richmond	242,901	DB
73	Chevron Usa Inc	New Jersey	Perth Amboy	80,000	GRL
98	Chevron Usa Inc	Hawaii	Honolulu	54,000	GRL
103	Chevron Usa Inc	Utah	Salt Lake City	45,000	DB
41	Citgo (Pdvsa Midwest Refining LLC)	Illinois	Lemont (Chicago)	167,000	GRL
110	Citgo Asphalt Refining Co	New Jersey	Paulsboro	32,000	GRL
113	Citgo Asphalt Refining Co	Georgia	Savannah	28,000	GRL
3	Citgo Petroleum Corp	Louisana	Lake Charles	429,500	CH
45	Citgo Refining & Chemical Inc	Texas	Corpus Christi	156,000	GB
59	Coffeyville Resources Llc	Kansas	Coffeyville	112,000	GRL
124	Conocophillips Alaska Inc	Alaska	Kuparuk	15,000	GB
18	Conocophillips Company	Louisana	Belle Chasse	247,000	JB
19	Conocophillips Company	Texas	Sweeny	247,000	JB
23	Conocophillips Company	Louisana	Westlake	239,400	JB
25	Conocophillips Company	New Jersey	Linden	238,000	GRL

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32	Conocophillips Company	Oklahoma	Ponca City	194,000	JB
36	Conocophillips Company	Pennsylvania	Trainer	185,000	JB
54	Conocophillips Company	California	Wilmington	139,000	DB
64	Conocophillips Company	Washington	Ferndale	96,000	JB
77	Conocophillips Company	California	Rodeo	76,000	GB
91	Conocophillips Company	Montana	Billings	58,000	JB
104	Conocophillips Company	California	Arroyo Grande	44,200	JB
117	Countrymark Cooperative Inc	Indiana	Mount Vernon	23,000	GB
137	Cross Oil Refining & Marketing Inc	Arkansas	Smackover	7,200	DC
92	Delek Refining Ltd	Texas	Tyler	58,000	DC
109	Edgington Oil Co Inc (Paramount)	California	Long Beach	33,000	JB
118	Ergon Refining Inc	Mississippi	Vicksburg	23,000	GB
120	Ergon West Virginia Inc	West Virginia	Newell (Congo)	20,000	GB
1	Exxonmobil Refining & Supply Co	Texas	Baytown	562,500	CH
2	Exxonmobil Refining & Supply Co	Louisana	Baton Rouge	503,000	GRL/Ram-Z
6	Exxonmobil Refining & Supply Co	Texas	Beaumont	348,500	JB
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	238,600	DC
47	Exxonmobil Refining & Supply Co	California	Torrance	149,500	DB
89	Exxonmobil Refining & Supply Co	Montana	Billings	60,000	JB
31	Flint Hills Resources Alaska Llc	Alaska	North Pole	210,000	RRT
11	Flint Hills Resources Lp	Texas	Corpus Christi	288,126	~~DC~~ GB
13	Flint Hills Resources Lp	Minnesota	Saint Paul	279,300	RRT
143	Foreland Refining Corp	Nevada	Eagle Springs	2,000	RRT
60	Frontier El Dorado Refining Co	Kansas	El Dorado	107,500	GRL
102	Frontier Refining Inc	Wyoming	Cheyenne	47,000	DB
122	Giant Industries Inc	New Mexico	Bloomfield	16,800	RRT
119	Giant Refining Co	New Mexico	Gallup	20,800	RRT
90	Giant Yorktown Refining	Virginia	Yorktown	59,375	DC
140	Goodway Refining Llc	Alabama	Atmore	4,100	GRL
133	Greka Energy	California	Santa Maria	9,500	DC
123	Gulf Atlantic Operations Llc	Alabama	Mobile	16,700	GRL
	Helenic Petroleum	INTERNATIONAL	Greece		RRT
115	Holly Corp Refining & Marketing	Utah	Woods Cross	24,700	JB
	Hovensa	INTERNATIONAL	St. Croix	650,000	~~GRL~~ GB — 340-692-3000
14	Lyondel - Houston Refining Lp	Texas	Houston	270,200	~~GB~~ DC — anhydrous ammonia
107	Hunt Refining Co	Alabama	Tuscaloosa	34,500	GRL
130	Hunt Southland Refining Co	Mississippi	Sandersville	11,000	GB

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114	Kern Oil & Refining Co	California	Bakersfield	26,000	GB
82	Lion Oil Co	Arkansas	El Dorado	70,000	DC
116	Little America Refining Co	Wyoming	Evansville (Casper)	24,500	JB
135	Lunday Thagard Co	California	South Gate	8,500	GB
20	Marathon Petroleum Co Llc	Louisana	Garyville	245,000	GB
29	Marathon Petroleum Co Llc	Kentucky	Catlettsburg	222,000	DB
34	Marathon Petroleum Co Llc	Illinois	Robinson	192,000	GRL
61	Marathon Petroleum Co Llc	Michigan	Detroit	100,000	DC
78	Marathon Petroleum Co Llc	Ohio	Canton	73,000	GB
79	Marathon Petroleum Co Llc	Texas	Texas City	72,000	DB
83	Marathon Petroleum Co Llc	Minnesota	Saint Paul Park	70,000	GRL
134	Montana Refining Co	Montana	Great Falls	9,500	DB
12	Motiva Enterprises Llc	Texas	Port Arthur	285,000	DB
22	Motiva Enterprises Llc	Louisana	Norco	242,200	DC
26	Motiva Enterprises Llc	Louisana	Convent Sochon	235,000	DC
57	Murphy Oil Usa Inc	Louisana	Meraux	120,000	JB
108	Murphy Oil Usa Inc	Wisconsin	Superior	34,300	RRT
69	Navajo Refining Co	New Mexico	Artesia	84,000	RRT
71	NCRA	Kansas	Mcpherson	81,200	GRL
100	Paramount Petroleum Corporation	California	Paramount	50,000	JB
62	Pasadena Refining Systems Inc	Texas	Pasadena	100,000	DB
101	Petro Star Inc	Alaska	Valdez	48,000	RRT
121	Petro Star Inc	Alaska	North Pole	17,500	GB
	Petrotrin	INTERNATIONAL	Point a Pierre Trinidad	175,000	GRL
95	Placid Refining Co	Louisana	Port Allen	56,000	JB
17	Premcor Refining Group Inc	Texas	Port Arthur	260,000	DB
37	Premcor Refining Group Inc	Delaware	Delaware City	182,200	DC
38	Premcor Refining Group Inc	Tennessee	Memphis	180,000	GRL
48	Premcor Refining Group Inc	Ohio	Lima	146,120	GB
	RasGas	INTERNATIONAL	QATAR		RRT
	Refineria Isla	INTERNATIONAL	Curacao	175,000	GRL
125	San Joaquin Refining Co Inc	California	Bakersfield	15,000	GRL
74	Shell Chem Lp	Alabama	Saraland	80,000	GRL
97	Shell Chem Lp	Louisana	Saint Rose	55,000	DC
8	Shell Deer Park Refining Ltd Partnership	Texas	Deer Park	333,700	JB
46	Shell Oil Products Us	California	Martinez	155,600	DB
50	Shell Oil Products Us	Washington	Anacortes	145,000	RRT

EPAHO08200017

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

ADVANTAGES FOR USING CES FOR HANDLING YOUR CAUSTIC

- Recycle/Beneficial Use vs. Hazardous Waste
- Location – Port Arthur, TX
- Honest and forthright with our customers, no contracts required
- Utilize multiple methods of transportation: Barge, rail, tanker trucks, ship
- Operate our own tank trailers – no outside transporters involved
- Effective storage, blending, and handling capabilities
- Excellent quality control measures
- Strong technical staff and friendly, responsive customer service
- Large sales and consulting staff
- The CES approach absorbs all problems associated with spent caustic placement, or processing into another chemical. This solves:
  - End user problems
  - Shut downs
  - Equipment failures
  - Transportation disruption from weather (floods, storms in the gulf)
  - Rejection by end users
  - Process failure
  - Lab mistakes
  - Generator shut downs
  - Odor problems
  - Generator problems which change the caustic

Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Glenn Shankle, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 28, 2008

Mr. Matt Bowman, President
CES Environmental Services, Inc.
4904 Griggs Road
Houston, Texas 77021

Re: Transmittal of Class 1 Permit Modification
CES Environmental Services, Inc - Houston
Industrial Solid Waste Registration No. 30900
Industrial Solid Waste Permit No. 39048
WWC Nos. 12143047, 12149729, 12224342-1, 12234282-1
RN100693282/CN600618946

Dear Mr. Bowman:

The Texas Commission on Environmental Quality has reviewed your application for a Class 1 permit modification dated November 6, 2007, received November 7, 2007, and revised April 17, 2008. The modification requests to list in Table IV.B. of the permit, a hazardous waste stream which CES is currently authorized to manage under the waste water treatment unit exemption in 40 CFR 264.1 (g)(6), without a RCRA hazardous waste permit. This waste stream will only be managed in a tank which is part of the waste water treatment system that discharges to a Publicly Owned Treatment Works.

Our evaluation indicates that the information presented is sufficient for a Class 1 permit modification. Transmitted herewith is the modification which is now part of your permit and should be attached thereto. Please note that notice of this modification request must be made as per the requirements of Title 30 Texas Administrative Code Sections 39.403 and 305.69(b)(1)(B) within 90 days after the change is put into effect.

Questions regarding this modification should be directed to me at 512/239-5747. If responding by letter, please include Mail Code MC 130 in the mailing address.

Sincerely,

Vaishali Tendolkar, Project Manager
Industrial & Hazardous Waste Permits Section
Waste Permits Division

VT/fp

Enclosure(s)

EPAHO082000019

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS 1 PERMIT MODIFICATION
TO
INDUSTRIAL SOLID WASTE PERMIT NO. 39048
CES ENVIRONMENTAL SERVICES, INC - HOUSTON, TEXAS

Permit No. 39048 is hereby modified as follows:

Sheet 5 of 20

Provision I.B. INCORPORATED APPLICATION MATERIALS

This permit is based on, and the permittee shall follow the Industrial Solid Waste application submittals dated November 14, 2002, June 6, 2003, October 15, 2003, March 27, 2006 (Class 1 permit modification requesting a change in the description of the 6,500 gallon poly tank contained in the permit from "poly tank" to a "storage tank"), March 27, 2006 (Class 1 permit modification requesting to update the Waste Profile Sheet in the Waste Analysis Plan (WAP)) and November 6, 2007 (Class 1 Modification to list in Table IV.B. of the permit, a hazardous waste stream which CES is currently authorized to manage under the waste water treatment unit exemption in 40 CFR 264.1(g)(6) without a RCRA hazardous waste permit), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality. These materials are incorporated into this permit by reference as if fully set out herein. Any and all revisions to these elements shall become conditions of this permit upon the date of approval by the Commission.

Sheet 12 of 20

Provision III.E.3. CONTINGENCY PLAN

Revise Provision III.E.3 to read as follows:

"Collected industrial hazardous wastes, industrial non-hazardous wastes, spills, leaks, clean-up residues,..."

Sheet 14 of 20

Provision IV.B.2. HAZARDOUS WASTE RECEIVED FROM OFF-SITE SOURCES

Revise Provision IV.B.2. to read as follows:

"The permittee may receive hazardous waste from off-site sources. All hazardous waste at the facility shall be managed only in the tank that is a part of the wastewater treatment system which discharges to a Publicly Owned Treatment Works (POTW) under the waste water treatment unit exemption in 40 CFR 264.1(g)(6)".

Sheet 17 of 20

Provision VII.A.8.

Revise Provision VII.A.8. to read as follows:

"All units, sumps, pumps, piping and any other equipment or ancillary components which have come in contact with hazardous or non-hazardous industrial wastes shall either be decontaminated by removing all waste, waste residues, and sludges or be disposed of at an authorized off-site facility."

Sheet 18 of 20

Provision VII.B.1. FINANCIAL ASSURANCE FOR CLOSURE

Revise Provision VII.B.1. to read as follows:

"The permittee shall provide financial assurance for closure of all permitted units covered by this permit in an amount not less than $135,335 (2007 dollars) as shown in Table VII.E.1. – Permitted Unit Closure Cost Summary..."

Table IV.B. WASTES MANAGED IN PERMITTED UNITS

Replace Table IV.B with the revised Table IV.B. (April 2008)

Add a supplement to Table IV.B. to list all the EPA hazardous waste numbers as part of Table IV.B.

Table V.C. TANKS AND TANK SYSTEMS

Replace Table V.C. with the revised Table V.C. (April 2008)

Table VII.E.1. PERMITTED UNIT CLOSURE COST SUMMARY

Replace Table VII.E.1. with the revised Table VII.E.1. to reflect the new Total Closure Cost Estimate for existing units.

This Class 1 Permit Modification is part of Permit 39048 and should be attached thereto.

TABLE VII.E.1. PERMITTED UNIT CLOSURE COST SUMMARY

Existing Unit Closure Cost Estimate (Not Applicable)	
Unit	Cost
Permitted Unit Nos. 1, 2, & 3 (Waste Management Unit Nos. 106, 107, & 108)	$135,335 (2007 dollars)
TOTAL EXISTING UNIT CLOSURE COST ESTIMATE	$135,335 (2007 dollars)

Proposed Unit Closure Cost Estimate	
Unit	Cost

TABLE IV.B. - WASTES MANAGED IN PERMITTED UNITS

WASTE MATERIAL*	TYPE MATERIAL
Class 1, 2, and H* Industrial Waste	Inorganic Liquids
Class 1, 2, and H* Industrial Waste	Inorganic Solids
Class 1, 2, and H* Industrial Waste	Inorganic Sludges
Class 1, 2, and H* Industrial Waste	Organic Liquids
Class 1, 2, and H* Industrial Waste	Organic Solids
Class 1, 2, and H* Industrial Waste	Organic Sludges

* Hazardous Industrial Waste stream which CES is currently authorized to manage under the waste water treatment unit exemption in 40 CFR 264.1(g)(6) without a RCRA hazardous waste permit. All authorized hazardous industrial waste listed in Table IV.B. must only be managed in Tank 108.

TABLE IV.B. SUPPLEMENT
EPA HAZARDOUS WASTE NUMBERS

Characteristically Hazardous Wastes

D001 D002 D003 D004 D005 D006 D007 D008 D009 D010 D011 D012 D013
D014 D015 D016 D017 D018 D019 D020 D021 D022 D023 D024 D025 D026
D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037 D038 D039
D040 D041 D042 D043

Hazardous Wastes From Non-specific Sources

F001 F002 F003 F004 F005 F034 F035 F037 F038 F039

Hazardous Wastes From Specific Sources

K011 K020 K022 K023 K024 K025 K026 K027 K035 K048 K049 K050 K051
K052 K060 K083 K085 K086 K087 K093 K094 K095 K096 K103 K104 K105
K112 K113 K114 K115 K116 K141 K142 K143 K144 K145 K147 K148 K149
K150 K151 K156 K157 K169 K170 K171 K172 K178

Acute Hazardous Wastes

P003 P005 P028 P048 P110

Toxic Wastes

U001 U002 U003 U004 U007 U008 U009 U012 U017 U019 U031 U037 U039
U041 U043 U044 U045 U048 U051 U052 U053 U055 U056 U057 U067 U070
U071 U072 U076 U077 U078 U079 U080 U081 U082 U084 U092 U101 U102
U103 U105 U106 U108 U110 U112 U113 U117 U118 U122 U123 U127 U130
U140 U147 U151 U152 U154 U159 U161 U162 U165 U167 U168 U169 U170
U183 U184 U188 U191 U194 U196 U207 U210 U213 U219 U220 U221 U223
U228 U239 U328 U353 U359

EPAHO082000024

EPAHO082000025

TABLE V.C. – TANKS AND TANK SYSTEMS

Unit No.	Tank	N.O.R. #	Storage and/or Processing	Waste Materials	Rated Capacity	Dimensions	Containment Volume	Unit will manage ** Ignitable, Reactive, or Incompatible Waste (state all that apply)
3	Waste Management Area #108	108	Processing and/or Storage	All wastes identified in Table IV.B	Volume equivalent of up to 6500 gallons	38' x 70' area within a 210' x 70' metal building	Not applicable	* Ignitable, Reactive and Incompatible Liquid, sludge, and solid Class 1 and 2 industrial waste

* Hazardous waste stream which CES is currently authorized to manage under the waste water treatment unit exemption in 40 CFR 264.1(g)(6) without a RCRA hazardous waste permit.

** The facility is designed and operated to provide segregation of incompatible wastes and isolation of ignitable or reactive wastes. Wastes which could create an uncontrolled reaction are segregated, and adequate buffer zones are maintained around facility units that manage ignitable or reactive wastes. Wastes are segregated to prevent commingling of incompatible wastes by placement of wastes into tanks designated for storage of compatible materials only or, in certain cases, by thoroughly purging a tank which previously held a material that would be incompatible with the waste before addition of the waste.

Spent Caustic Solutions

Clark Hickman

Sent: Wednesday, March 05, 2008 6:27 PM

To: hans.dejong@shell.com

To: Refinery Management
From: Clark Hickman
Date: 3/05/08
Re: Spent Caustic Solutions

CES Environmental Services, Inc. of Houston places spent caustic solutions from refinery operations with various end users that reuse the caustic solutions with, or without sulfides as an effective substitute for commercial products.

This placement is accomplished by the use of a network of end users, an array of transportation systems, and interim storage locations. CES tests or evaluates the caustic before and during shipment, takes ownership at the refinery, manifests the material to the new location, places the caustic in locations that facilitate the transfer, blends the material if necessary, and if possible places shipments directly to user locations by barge, or tanker.

CES has under its control for spent caustic movements barges for shipment, tankers, rail, multiple storage locations, on site lab facilities, and off site contract labs.

CES recycles other materials such as oil, chemicals, ethylene glycol, and light ends. CES has a TCEQ approval waste disposal site in Houston, which has wastewater treatment, solid waste facilities, distillation equipment, tank truck cleaning, lab facilities, and drum processing equipment.

For additional information, or information on the cost of service, contact me at 281-488-0848 (cell), 713-676-1460 (off), or chickman@cesenvironmental.com (e-mail).

The mailing address, or location of the main office is CES Environmental Services, Inc., 4909 Griggs Road, Houston, TX 77021.

EPAHO082000026

RE: Spent Caustic Solutions

hans.dejong@shell.com [hans.dejong@shell.com]

Sent: Thursday, March 06, 2008 2:16 PM

To: Clark Hickman

Dear Clark,

Many thanks for contacting me on your possibility to handle spent caustic.

We have spent caustic disposals at our sites in the Gulf, Louisiana and West Coast area.

I'm interested to learn your possibilities (terms/conditions) on a contract basis (1 or 2 years) to handle our spent caustic.

With thanks for your feedback

met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

Category Manager Chemicals
Contracting & Procurement

Shell Chemicals Europe BV
P.O. Box 3000, 3190 GA Hoogvliet Rt, the Netherlands
Location Pernis
Vondelingenweg 601, 3196 KK Hoogvliet Rt, the Netherlands

tel: +31 10 4317047 **mobile**: +31 655126405
fax: +31 (0)10 431 3937

E mail: hans.dejong@shell.com
Intranet: GCM team website
<http://sww.shell.com/downstream/cp/business/manufacturing/gcm/gcm_home.html>
Internet: http://www.shell.com

Please consider the environment before printing this email

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-----Original Message-----
From: Clark Hickman [mailto:chickman@cesenvironmental.com]
Sent: Thursday, 06 March, 2008 01:27
To: De Jong, Hans JM SCE-DFP/671
Subject: Spent Caustic Solutions

To: Refinery Management
From: Clark Hickman
Date: 3/05/08
Re: Spent Caustic Solutions

EPAHO082000027

Spent Caustic Solutions

Clark Hickman

Sent: Tuesday, March 11, 2008 1:32 PM

To: hans.dejong@shell.com

TO: Hans de Jong
FROM: Clark Hickman
DATE: March 11, 2008
RE: Spent Caustic Solutions

The cost for our services to place your spent caustic with various end users is a function of several items which I have listed for your information.

Important Items Associated with Placement of Spent Caustic

1. The percent by weight of sodium hydroxide measured in the caustic water solution.
2. The ppm or percent by weight of sulfidies found in the caustic water solution.
3. The ppm of sodium chlorides found in the solution.
4. The type of caustic is important (e.g. sulfidic, naphthenic, or cresylic/phenolic).
5. Source of caustic is important (e.g. refining or ethylene operation).
6. The amount of other items present such as dissolved organics (TOC), floating organics, carbonates and total phenolics.
7. The type of transportation service required to move the material (trucks/tankers, barges, or rail).
8. The volume of material to be moved and frequency.
9. The terms of the service agreement (e.g. length of agreement).

Since these items may vary from location to location, the best way to approach the cost of service is to define location, type of caustic, method of transport, volume/timing, and to furnish a sample.

We will collect the sample from your site, test the material, and evaluate the other furnished data. Then, we can furnish a cost of service with discussion about the terms of service.

Clark Hickman

From: Clark Hickman
Sent: Wednesday, August 06, 2008 10:19 PM
To: 'hans.dejong@shell.com'
Subject: Additional CES Information
Attachments: CES Brochure.pub; Spent Caustic Letter to Refinery 030308.docx

Spent Caustic From Gulf Coast Operations

EPAHO082000029

To: Refinery Management

From: Clark Hickman

Date: 3/03/08

Re: Spent Caustic Solutions

CES Environmental Services, Inc. of Houston places spent caustic solutions from refinery operations with various end users that reuse the caustic solutions with, or without sulfides as an effective substitute for commercial products.

This placement is accomplished by the use of a network of end users, an array of transportation systems, and interim storage locations. CES tests or evaluates the caustic before and during shipment, takes ownership at the refinery, manifests the material to the new location, places the caustic in locations that facilitate the transfer, blends the material if necessary, and if possible places shipments directly to user locations by barge, or tanker.

CES has under its control for spent caustic movements barges for shipment, tankers, rail, multiple storage locations, on site lab facilities, and off site contract labs.

CES recycles other materials such as oil, chemicals, ethylene glycol, and light ends. CES has a TCEQ approved waste disposal site in Houston, which has wastewater treatment, solid waste facilities, distillation equipment, tank truck cleaning, lab facilities, and drum processing equipment.

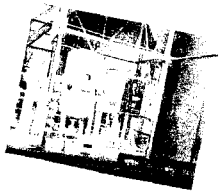
For additional information, or information on the cost of services, contact me at 281-488-0848(cell), 713-676-1460(office), or chickman@cesenvironmental.com (email address).

The mailing address, or location of the main office is CES Environmental Services, Inc. ,4904 Griggs Road, Houston, TX 77021.

Oil Facility

The CES Oil Facility recovers light ends from water and recycles used oil.

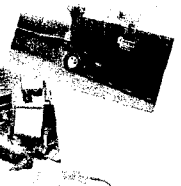
CES utilizes vacuum distillation and centrifuge equipment to eliminate impurities and to reduce the water content of the processed oil to the ppm level.



Transportation and Containers

effectively service its stomers , CES maintains the lowing fleet/equipment:

- **32 tractors**
- **10 vacuum trailers**
- **10 box vans**
- **40 tank trailers**
- **6 roll off trailers**
- **3 flatbeds**
- **3 air machines**
- **hazardous box vans**
- **vacuum boxes**
- **frac tanks**
- **roll-off boxes**
- **totes and drums**
- **3 barges servicing the Gulf Coast Region**



By maintaining and managing its own fleet, CES has a huge customer service and cost advantage over the competition.

Expansion Programs

A re-refining facility is currently under construction that will give CES the ability to produce base oil quality lubricants.

CES is establishing a subsidiary branch in Qatar to further expand our international business.

CES can also take Hazardous Wastewater with its new permit modification.

Additional upgrades to the existing equipment will expand sales and profits for recycling and disposal.

CONTACT US...

CES Environmental Services, Inc.
4904 Griggs Road
Houston , TX 77021

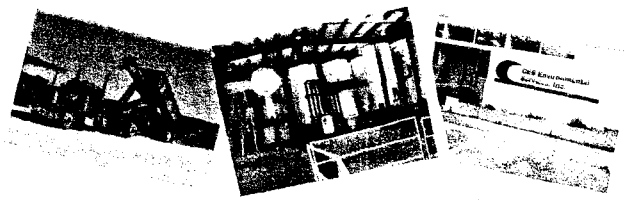
713-676-1460
www.cesenvironmental.com

International Sales:	**Ramiz Tafilaj**
Special Projects Manager:	**Clark Hickman**
Sales Representatives:	**Joy Baker** **Dan Bowman** **Gary Brauckman** **Dana Carter** **Joe Wilson**
Customer Service/Inside Sales:	**Kim Harmon** **Al Longoria** **Morgan McCarley** **Jennifer Rust**

CES Environmental Services, Inc.

4904 Griggs Rd., Houston, TX 77021 713-676-1460

The primary goal of CES is to provide customers with compliant, safe, and cost-effective solutions to their hazardous and non-hazardous waste disposal and recycling needs.



CUSTOMER FOCUSED -
CES offers comprehensive, practical solutions for customer needs.

VERTICALLY INTEGRATED SERVICE LINES -
CES provides turnkey services to optimize efficiency and minimize costs.

OPERATIONAL FLEXIBILITY -
CES accommodates the needs of large and small customers

KNOWLEDGE OF WASTE MARKET -
CES offers flexible disposal alternatives and lower costs to customer.

INNOVATIVE RECYLCING ALTERNATIVES -
CES offers compliant waste minimization and recycling alternatives to lower cost for customers.

AGGIE 100

www.cesenvironmental.com

EPAHO08200031

History

CES Environmental Services, Inc. was established in January of 1999 with a goal to vide excellent service and competitive pricing in the envi- mental services industry. CES has grown significantly r the last 9 years while maintaining that same goal.

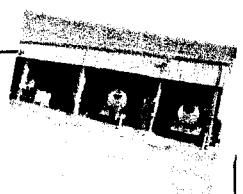
S offers a broad range of services with a high level of tical integration. These services, coupled with our lication to customer service, drive our explosive growth. nual revenues are over $30 million and growing.

Field Services

Tank, Pit and Sump Cleaning
Vessel and Tower Cleaning
Pressure Washing
Remediation
Chemical Cleaning
Hydroblasting Services
On-site Waste Treatment
Separation Operations (Centrifuge)
Waste Sampling, Testing and Analysis

- Air Machine Services
- Pond Cleaning
- Hydro Excavation
- Jet Rodder Services
- De-watering Operations

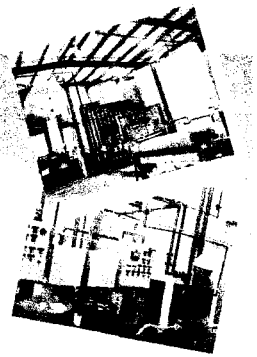
Tank Wash



-site tank and container
h facility provides in-house
commercial tank and
tainer wash services with:

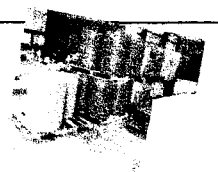
Five independent wash stations
Steam heating and temperature monitoring
Hot/cold water and caustic wash
High pressure water systems
Filtered air drying system for tank interiors

Main Facility



CES built an industrial wastewater pre-treatment plant to process, treat and dispose of non-hazardous and hazardous wastewater.

The filter presses remove solids from waste streams for economical bulk disposal. This type of equipment is also used to remove solids from products to meet customer specifications.



CES is a permitted transfer station for hazardous drums before they are shipped to the appropriate disposal facility in bulk.

Drums are emptied for bulk disposal and shredded or washed and recycled.

CES has three distillation units and a reverse osmosis unit for processing products and waste. **These units have scrubbers/ vapory recovery systems in place to contain or eliminate odors in accordance with our Good Neighbor Policy.**

Products

CES currently recycles/recovers/processes a growing list of materials:

- Acetic Acid
- Methylene chloride
- Ethylene glycol
- Caustics
- Methanol
- Mixed Alcohols
- Inorganic Acids
- Bleach
- Polystyrene
- Base Oil
- Used Oil
- Commercial Fuel
- Viscosity improvers
- Other various hydrocarbons

This segment of business has been growing rapidly as CES is in a unique position to meet both generator and consumer needs with our processing, recovery and transportation capabilities.

Quality Control

The processing facility lab analyzes wastewater prior to discharge to ensure compliance with city, state and federal regulations.

The processing facility lab provides treatability analysis for research and development purposes as well as analysis to certify that outgoing products meet or exceed customer specifications.

By combining experience with treatability analysis, CES continues to find ways to save customers money while reducing the amount of hazardous waste disposed of in the environment.

EPAHO082000032

Spent Caustic Solutions

Bones4reb82@aol.com [Bones4reb82@aol.com]

Sent: Thursday, October 16, 2008 10:45 AM

To: hans.dejong@shell.com

Cc: Clark Hickman

Attachments: Memo to Hans de Jong 101608.doc (26 KB)

Please see attachment.

New **MapQuest Local** shows what's happening at your destination. Dining, Movies, Events, News & more. Try it out!

CES Environmental Services, Inc.
4904 Griggs Road
Houston, Texas 77021
Phone: (713) 676-1460 ***Fax: (713) 676-1676***

MEMORANDUM

TO: Hans de Jong

FROM: Clark Hickman

DATE: October 16, 2008

SUBJECT: Spent Caustic Solutions

We, at CES Environmental Services, Inc., have enhanced our spent caustic capabilities by adding to our Port Arthur site the ability to process spent caustic from refinery operations into another chemical. This site is near your Port Arthur Motiva refinery with water and rail access.

We still maintain our transportation, storage, and blending network to place caustic with multiple end users. We wish to introduce our operations including this new Port Arthur facility to you. We can send a representative to your office in the Netherlands or to your office in Houston, if you plan to be in Houston in the near future.

We can service your plant in the Gulf Coast area by barge, rail, or truck. We can add to your flexibility by giving your plant another outlet for caustic service since some of your plants only have one service provider for spent caustic.

Please call me at (281) 488-0848, or E-Mail me at chickman@cesenvironmental.com with the time and location that you wish to meet.

Clark Hickman

From: hans.dejong@shell.com
Sent: Thursday, October 16, 2008 1:16 PM
To: Clark Hickman
Cc: Ric.VandeWater@shell.com; Janelle.Davis@shell.com; jeri.wilson@shell.com
Subject: spent caustic soda

Dear Clarck,

I've got your news letter on your opportunities for Port Arthur.

Together with colleague Ric van de Water I'll be in Houston next week to discuss.....spent caustic soda with our stakeholders.

We have time to meet with you on Wednesday Oct 22 around 2 pm.

Would it be possible for you to come to One Shell Plaza (910 Louisiana, 2496C Houston TX 770020)

In order to have a fruitful and efficient meeting I wonder if you could prepare yourself on the following:

1) we'd like to discuss fees related to the provided service;
- so if it is only transport, then only to pay for transport
- is storage or further handling required, then to pay an additional fee for that

2) revenue for the spent caustic
- outlet to the paper/pulp industry (spent caustic is a valuable feedstock to them: can we value this now the price for fresh caustic is sky high?

3) cost saving program
- your ideas for optimising logistics/planning in order to reduce costs

Please confirm your acceptance of the above. Please come to the lobby of 24th floor and use lobby phone to let me know you have arrived.

per note to Janelle/Jeri; would it be possible to book room HOU-OSP CR 2414 Private Conference Room, SOPUS also for 2 pm (2 hour meeting)

With thanks

met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

Category Manager Chemicals
Contracting & Procurement

Shell Chemicals Europe BV
P.O. Box 3000, 3190 GA Hoogvliet Rt, the Netherlands
Location Pernis
Vondelingenweg 601, 3196 KK Hoogvliet Rt, the Netherlands

tel: +31 10 4317047 **mobile**: +31 655126405
fax: +31 (0)10 431 3937

E mail: hans.dejong@shell.com
Intranet: GCM team website <http://sww.shell.com/downstream/cp/business/manufacturing/gcm/gcm_home.html>
Internet: http://www.shell.com

Please consider the environment before printing this email

Important notice:
This email is confidential, may be legally privileged and is for the intended recipient only. Access, disclosure, copying, distribution or reliance on any of it by anyone else is prohibited and may be a criminal offence. Please delete if obtained in error and email confirmation to sender.

RE: spent caustic soda

hans.dejong@shell.com [hans.dejong@shell.com]

Sent: Sunday, October 19, 2008 6:45 AM

To: Clark Hickman

Cc: Ric.VandeWater@shell.com; Janelle.Davis@shell.com; jeri.wilson@shell.com

Dear Clarck,

Please confirm the meeting at One Shell Plaza. For details see below

met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

Category Manager Chemicals
Contracting & Procurement

Shell Chemicals Europe BV
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-----Original Message-----
From: De Jong, Hans SCE-DFP/671
Sent: Thursday, 16 October, 2008 20:16
To: 'chickman@cesenvironmental.com'
Cc: Van de Water, Ric SCE-DFP/673; Davis, Janelle A SOPUS-DFP/653H; Wilson, Jeri GL SOPUS-DHP/653D
Subject: spent caustic soda

Dear Clarck,

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met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

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Clark Hickman

From: Bones4reb82@aol.com
Sent: Sunday, October 19, 2008 10:46 PM
To: hans.dejong@shell.com
Cc: Clark Hickman
Subject: Confirmation

I received both your E-Mails. I can meet with you on Wednesday, October 22, at One Shell Plaza at 2 p.m. I will have two people with me from CES Environmental Services, Inc.

Clark Hickman

New **MapQuest Local** shows what's happening at your destination. Dining, Movies, Events, News & more. Try it out!

Clark Hickman

From: Bones4reb82@aol.com
Sent: Sunday, October 19, 2008 10:49 PM
To: chickman7@comcast.net; Clark Hickman
Subject: Fwd: Out of Office AutoReply: Confirmation

From: hans.dejong@shell.com
To: Bones4reb82@aol.com
Sent: 10/19/2008 10:46:53 P.M. Central Daylight Time
Subj: Out of Office AutoReply: Confirmation

I'm on a business trip and not in the office until Monday October 27; I've limited access to my emails (mainly via blackberry) so expect delay in email response
For very urgent matters please contact me on my cellphone
+31 6 55126405

New **MapQuest Local** shows what's happening at your destination. Dining, Movies, Events, News & more. Try it out!

Clark Hickman

From: hans.dejong@shell.com
Sent: Tuesday, October 21, 2008 4:35 PM
To: Bones4reb82@aol.com
Cc: Clark Hickman
Subject: Re: Confirmation

Dear all,

I herewith confirm the meeting for tomorrow at 2 pm
met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

Global Category Manager Chemicals
Contracting & Procurement

Shell Chemicals Europe BV
P.O. Box 3000, 3190 GA Hoogvliet Rt, the Netherlands
Location Pernis
Vondelingenweg 601, 3196 KK Hoogvliet Rt, the Netherlands

tel: +31 10 4317047 mobile: +31 655126405
fax: +31 10 4312486

E mail: hans.dejong@shell.com
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Sent from my BlackBerry Wireless Handheld

Van: Bones4reb82@aol.com
Aan: De Jong, Hans SCE-DFP/671
Cc: chickman@cesenvironmental.com
Verzonden: Mon Oct 20 05:46:17 2008
Onderwerp: Confirmation

I received both your E-Mails. I can meet with you on Wednesday, October 22, at One Shell Plaza at 2 p.m. I will have two people with me from CES Environmental Services, Inc.

Clark Hickman

New **MapQuest Local** shows what's happening at your destination. Dining, Movies, Events, News & more. Try it out!

Dana Carter

From: Gary Lenertz
Sent: Tuesday, April 15, 2008 9:05 AM
To: Miles Root; Joy Baker
Cc: Gary Peterson; Bo Cumberland; Matt Bowman; Greg Bowman; Dana Carter; Dan Bowman; Gary Peterson; Kim Harmon
Subject: RE: Delta Chemical Caustic Evaluation 0408-40

All,

Please keep in mind that for us to take caustic to the paper mills, we have agreements with the mills to get the caustic approved before shipping. In the case with De Ridder, we also need to provide a MSDS specific to the stream (it must list the generator or they WILL NOT accept). We can make one pretty quickly for each caustic stream, but it makes the process much easier if we have a MSDS from the facility we get the caustic from.

What the mills are looking for is the following:

What is the composition
Is there any potentially dangerous compounds that would be released in processing
Metal content
If there is color, what causes the color
If there is odor, what causes the odor

Generally what we do is send a sample with an MSDS to Sochem. They will work on getting it approved with the mill. Assuming the caustic is "typical", the process should not take more than a week. The key steps will be to get a good sample out ASAP. If the material is to go to our tanks (other than De Ridder), we will need to run the following analysis:

TOC
Phenolics
Benzene
Sulfides
Total Chlorides
Metals (K, Hg, others are helpful)

If you have any quesitons, please feel free to ask.

Regards,

Gary Lenertz

glenertz@cesenvironmental.com

From: Miles Root
Sent: Monday, April 14, 2008 2:58 PM
To: Joy Baker
Cc: Gary Lenertz; Gary Peterson; Bo Cumberland
Subject: Delta Chemical Caustic Evaluation 0408-40

The attached memo details the work done on the Delta Chemical caustic evaluation 0408-40.

Dana Carter

From: Dan Bowman
Sent: Wednesday, November 05, 2008 9:53 AM
To: Miles Root
Cc: Gary Peterson; Dana Carter; Joy Baker; Shannon Ward; Ken Noakes; Morgan McCarley; Al Longoria
Subject: RE: Caustic samples

Follow Up Flag: Follow up
Flag Status: Flagged

Miles,

Thanks for the input. I am forwarding this to CS and sales as I think it is a good tool.

Dan

From: Miles Root
Sent: Wednesday, November 05, 2008 9:34 AM
To: Dan Bowman
Subject: RE: Caustic samples

Not seeing the samples, I would first do two titrations to determine: 1. the %NaOH, and then; 2. the potentiometric titration for sulfides and mercaptans. Specific gravity/density is also needed. You can tell a lot about caustic from just the density vs. %NaOH and appearance. Run solids by centrifuge, check for appearance, particulates and oils. Once the quality of the caustic is determined from this data, we can go from there.
Some markets may like to see inorganic chlorides and carbonates, which would need outside lab work, but I wouldn't even consider that until I saw the above test results.
Miles

From: Dan Bowman
Sent: Wednesday, November 05, 2008 9:24 AM
To: Miles Root
Subject: RE: Caustic samples

Thanks Miles,
They never came here so the only way I even knew we had them was Matt calling yesterday to let me know they were there. Other than titration, what other tests can we run out there that is applicable to spent caustic. I am not as familiar with our lab capabilities out there and you were in the caustic business for so long. I will use this as a fingerprint the testing you give me in this e-mail. Also, if outside testing should be done, what would that be?

Dan

From: Miles Root
Sent: Wednesday, November 05, 2008 7:34 AM
To: Dan Bowman
Subject: RE: Caustic samples

Dan, I don't routinely go to Port Arthur. I was out there yesterday but did not have any info on samples. Bo/Brian can run them as they have been trained on the use of the titrator.
Miles

EPAHO082000044

Rank	Company Name	State	City	Barrels per calendar day	Primary	Contact Name
84	Alon Usa Energy Inc	Texas	Big Spring	67,000	DC	Eric Eckenrode
127	Calumet Lubricants Co Lp	Louisana	Cotton Valley	13,020	DC	
136	Calumet Lubricants Co Lp	Louisana	Princeton	8,300	DC	
105	Calumet Shreveport Llc	Louisana	Shreveport	42,000	DC	Don Schwen
33	Chalmette Refining Llc	Louisana	Chalmette	192,760	DC	
137	Cross Oil Refining & Marketing Inc	Arkansas	Smackover	7,200	DC	
92	Delek Refining Ltd	Texas	Tyler	58,000	DC	
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	238,600	DC	
11	Flint Hills Resources Lp	Texas	Corpus Christi	289,126	DC	
90	Giant Yorktown Refining	Virginia	Yorktown	59,375	DC	
133	Greka Energy	California	Santa Maria	9,500	DC	
82	Lion Oil Co	Arkansas	El Dorado	70,000	DC	
61	Marathon Petroleum Co Llc	Michigan	Detroit	100,000	DC	
22	Motiva Enterprises Llc	Louisana	Norco	242,200	DC	Ralph Guillot
26	Motiva Enterprises Llc	Louisana	Convent	235,000	DC	
37	Premcor Refining Group Inc	Delaware	Delaware City	182,200	DC	
97	Shell Chem Lp	Louisana	Saint Rose	55,000	DC	
81	Sinclair Oil Corp	Oklahoma	Tulsa	70,300	DC	
93	Tesoro West Coast	North Dakota	Mandan	58,000	DC	
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	80,000	DC	
53	Valero Refining Co Texas	Texas	Corpus Christi	142,000	DC	
70	Valero Refining Co Texas	Texas	Houston	83,000	DC	
27	Total Petrochemical	Texas	Port Arthur	232,000	DC	Jeff Baker
14	Lyondel - Houston Refining LP	Texas	Houston	270,200	DC	Mike Godfrey

Sochem X

John Olson (Motiva Port Arthur Contact)

Title	Email	Phone	Phone
Proc Engineer		915-263-9361	
Scheduler	rdguillot@motivaenterprises.com	504-465-7408	Spent napthenic caustic
		Direct 409.963.6828	Main - 409.962.4421
		713-321-4111 (main)	

disconnected
Daniela Kratz 415-863-2517
SOChem

EPAHO08200045

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

CES Environmental Services, Inc.-For Meeting With Motiva 10/22/08

1. **Spent Caustic Services and Related Fees**
   - Identify type of spent caustic –sulfidic, phenolic, or napthenic
   - Find a home for the caustic
   - Determine how to process and blend the material
   - Define storage requirements based on volume
   - Generate and provide shipping documents
   - Arrange movements to end users based on what is received
   - Have sodium hydrosulfide manufacturing capabilities
   - Capable of processing phenolic and naphthenic caustic
   - Price is derived from testing and depends on how we place the material
   - Price includes storage, QC, placement or manufacturing, all related transportation, and maintaining a network of end users. Anyone can stop operation at any time
   - Essentially selling the material to end users and convince them to use it

2. **Revenue For the Caustic**
   - No end user pays CES to deliver spent caustic to them even though sodium hydroxide prices are rising. Using the spent caustic is a lot more work to the end user than raw materials.
   - Sale of sodium hydrosulfide pays for transportation and very small profit to bottom line
   - Charge price to the refining company pays for our services mentioned above or cost associated with the manufacturing of sodium hydrosulfide
   - Paper mills would reject loads if CES tried to charge money for spent caustic

3. **CES' Ideas For Optimizing the Spent Caustic Service**
   - It's very important for CES to optimize our process so we can provide the best price to the customer. Bottom line is- if we don't do it someone else will and CES will lose important current or future market share
   - Good QC on the material
   - Ability to handle material variances
   - Most Logistics handle internally-we own equipment, manpower, and facilities

CES Environmental Services, Inc.

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Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

4. **Factors That Determine Price**
   - Type of spent caustic, evaluations derived from the analysis, and deviations in the caustic
   - Quality and contaminants
   - Cost to process the material into sodium hydrosulfide
   - Locations of generators and end users
   - Storage capabilities related to volume
   - Logistics of where your storage /capacity is vs. generators location and location of end user
   - Method of transport- CES can take by barge, rail, or tanker truck if necessary
   - Cost to ship to alternate locations if needed
   - Overhead associated with facilities, equipment, and personnel required to make it happen

5. **Challenges Of The Spent Caustic Business**
   - Tough to keep a workable network of end users that allow you to stay within your price range
   - End users can quit taking caustic at any time- even if the material is already in transit
   - Maintaining various storage locations and capacities
   - Odor problems
   - QC on the caustic so rejections of the material by end users doesn't happen
   - Scheduling with end users, generators, and various methods of transport
   - Servicing the generators during times when end users shut down
   - Caustic maintenance is a full time job that requires specialized facilities, knowledge of the business, and skilled laboratory/operating personnel
   - Liability associated with the spent caustic material-Hazardous material
   - Handle caustic variability due to production upsets

CES Environmental Services, Inc.

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Fax. (713) 676-1676

6. **How CES Solves These Problems and What We Offer**
   - We honest and forthright with our customers
   - Can handle multiple methods of transport- Barge, rail, tanker trucks, ship
   - Excellent QC on the caustic to reduce costs associated with rejection
   - Effective storage, blending, and handling capabilities
   - Has the capability to manufacture sodium hydrosulfide with the material that gives us a continuous outlet for the material regardless
   - Sodium hydrosulfide manufacturing process can handle more caustic variance if the generator has operating problems
   - Location of our facility- especially in regard to the Port Arthur refinery
   - Strong technical staff and friendly customer service personnel
   - Large sales and consulting staff
   - CES approach absorbs problems associated with spent caustic placement, or processing into another chemical. This solves end users problems, shut downs, equipment failure, transportation disruption from weather (floods, storms in the gulf), rejection by end users, process failures, lab mistakes, generator shut downs, odor problems, and generator problems which change the caustic.

Our haul costs
$.25-27/gal price to trans

Dana Carter

From: Matt Bowman
Sent: Monday, October 27, 2008 10:59 AM
To: Dana Carter
Cc: Clark Hickman; Greg Bowman; Steve Stricker; Joe Camp; Marlin Moser
Subject: RE: napthenic caustic

Follow Up Flag: Follow up
Flag Status: Flagged

We run it in our port arthur facility to recover the crude naphthenic acids and then sell them. The wastewater left can be disposed of at our facility in Houston. This is a really good lead, please follow up on it....Clark can help you if you need sales support and technical help!
Thanks,
Matt

From: Dana Carter
Sent: Friday, October 24, 2008 4:49 PM
To: Matt Bowman
Subject: napthenic caustic

Matt – could you please remind me what we do with our spent naphthenic caustic? Total Petrochemicals (in Port Arthur) called me back today. They are currently sending the naphthenic caustic to Alabama and is very interested in our capabilities. I am just blanking on what we do with it since it does not go into our production in port Arthur.

Thanks
dana

Dana Carter
Account Manager
CES Environmental Services Inc
Office: 713-676-1460
Cell: 713-748-9804
Fax: 713-676-1676

CES Environmental Services, Inc.-For Meeting With Motiva 10/22/08

1. **Spent Caustic Services and Related Fees**
   - Identify type of spent caustic –sulfidic, phenolic, or napthenic
   - Find a home for the caustic
   - Determine how to process the material
   - Define storage requirements based on volume
   - Generate and provide shipping documents
   - Arrange movements to end users based on what is received
   - Have sodium hydrosulfide manufacturing capabilities
   - Capable of processing phenolic and naphthenic caustic
   - Price is derived from testing and depends on how we place the material
   - Price includes storage, QC, placement or manufacturing, all related transportation, and maintaining a network of end users. Anyone can stop operation at any time
2. **Revenue For the Caustic**
   - No end user pays CES to deliver spent caustic to them even though sodium hydroxide prices are rising. Using the spent caustic is a lot more work to the end user than raw materials.
   - Sale of sodium hydrosulfide pays for transportation and very small profit to bottom line
   - Charge price to the refining company pays for our services mentioned above or cost associated with the manufacturing of sodium hydrosulfide
   - Paper mills would reject loads if CES tried to charge money for spent caustic
3. **CES' Ideas For Optimizing the Spent Caustic Service**
   - It's very important for CES to optimize our process so we can provide the best price to the customer. Bottom line is- if we don't do it someone else will and CES will lose important current or future market share
   - Good QC on the material

4. **Factors That Determine Price**
   - Type of spent caustic, evaluations derived from the analysis, and deviations in the caustic
   - Cost to process the material into sodium hydrosulfide
   - Locations of generators and end users
   - Storage capabilities related to volume
   - Logistics of where your storage /capacity is vs. generators location and location of end user
   - Method of transport- CES can take by barge, rail, or tanker truck if necessary
   - Cost to ship to alternate locations if needed
   - Overhead associated with facilities, equipment, and personnel required to make it happen

5. **Challenges Of The Spent Caustic Business**
   - Tough to keep a workable network of end users that allow you to stay within your price range
   - End users can quit taking caustic at any time- even if the material is already in transit
   - Maintaining various storage locations and capacities
   - Odor problems
   - QC on the caustic so rejections of the material by end users doesn't happen
   - Scheduling with end users, generators, and various methods of transport
   - Servicing the generators during times when end users shut down
   - Caustic maintenance is a full time job that requires specialized facilities, knowledge of the business, and skilled laboratory/operating personnel
   - Liability associated with the spent caustic material-Hazardous material

6. **How CES Solves These Problems and What We Offer**

- We shoot straight with our customers
- Can handle multiple methods of transport- Barge, rail, tanker trucks
- Excellent QC on the caustic to reduce costs associated with rejection
- Multiple storage locations
- Has the capability to manufacture sodium hydrosulfide with the material that gives us a continuous outlet for the material regardless
- Sodium hydrosulfide manufacturing process can handle more caustic variance if the generator has operating problems
- Location of our facility- especially in regards to Port Arthur refinery
- Excellent laboratory personnel, and customer service representatives-In the past there has been very little, if any competition, therefore, customer service could be a problem
- CES approach absorbs problems associated with spent caustic placement, or processing into another chemical. This solves end users problems, shut downs, equipment failure, transportation disruption from weather (floods, storms in the gulf), rejection by end users, process failures, lab mistakes, generator shut downs, odor problems, and generator problems which change the caustic.

10/22

Dan,
Previous emails, with Motiva
Clark

Spent Caustic Solutions

Clark Hickman

Sent: Wednesday, March 05, 2008 6:27 PM

To: hans.dejong@shell.com

To: Refinery Management
From: Clark Hickman
Date: 3/05/08
Re: Spent Caustic Solutions

CES Environmental Services, Inc. of Houston places spent caustic solutions from refinery operations with various end users that reuse the caustic solutions with, or without sulfides as an effective substitute for commercial products.

This placement is accomplished by the use of a network of end users, an array of transportation systems, and interim storage locations. CES tests or evaluates the caustic before and during shipment, takes ownership at the refinery, manifests the material to the new location, places the caustic in locations that facilitate the transfer, blends the material if necessary, and if possible places shipments directly to user locations by barge, or tanker.

CES has under its control for spent caustic movements barges for shipment, tankers, rail, multiple storage locations, on site lab facilities, and off site contract labs.

CES recycles other materials such as oil, chemicals, ethylene glycol, and light ends. CES has a TCEQ approval waste disposal site in Houston, which has wastewater treatment, solid waste facilities, distillation equipment, tank truck cleaning, lab facilities, and drum processing equipment.

For additional information, or information on the cost of service, contact me at 281-488-0848 (cell), 713-676-1460 (off), or chickman@cesenvironmental.com (e-mail).

The mailing address, or location of the main office is CES Environmental Services, Inc., 4909 Griggs Road, Houston, TX 77021.

EPAHO082000054

Motiva - Norco - spent napthenic caustic
by barge
Mexichem

Total Petrochemical - Jeff Baker
lft msgs

Lyondell - Houston Refining -

Hans
Rodekdam
Netherlands
2pm Wednesday

Industrial waste and recycling facility
Houston & Pt Arthur

Spent Caustic Recycling Program
Beneficial use

Truck (own fleet), barge and rail capabilities

CES Environmental Services, Inc.
4904 Griggs Road
Houston, Texas 77021
Phone: (713) 676-1460 ***Fax: (713) 676-1676***

MEMORANDUM

TO: Hans de Jong

FROM: Clark Hickman

DATE: October 16, 2008

SUBJECT: Spent Caustic Solutions

We, at CES Environmental Services, Inc., have enhanced our spent caustic capabilities by adding to our Port Arthur site the ability to process spent caustic from refinery operations into another chemical. This site is near your Port Arthur Motiva refinery with water and rail access.

We still maintain our transportation, storage, and blending network to place caustic with multiple end users. We wish to introduce our operations including this new Port Arthur facility to you. We can send a representative to your office in the Netherlands or to your office in Houston, if you plan to be in Houston in the near future.

We can service your plant in the Gulf Coast area by barge, rail, or truck. We can add to your flexibility by giving your plant another outlet for caustic service since some of your plants only have one service provider for spent caustic.

Please call me at (281) 488-0848, or E-Mail me at chickman@cesenvironmental.com with the time and location that you wish to meet.

Clark Hickman

From: hans.dejong@shell.com
Sent: Thursday, October 16, 2008 1:16 PM
To: Clark Hickman
Cc: Ric.VandeWater@shell.com; Janelle.Davis@shell.com; jeri.wilson@shell.com
Subject: spent caustic soda

Dear Clarck,

I've got your news letter on your opportunities for Port Arthur.

Together with colleague Ric van de Water I'll be in Houston next week to discuss.....spent caustic soda with our stakeholders.

We have time to meet with you on Wednesday Oct 22 around 2 pm.

Would it be possible for you to come to One Shell Plaza (910 Louisiana, 2496C Houston TX 770020)

In order to have a fruitful and efficient meeting I wonder if you could prepare yourself on the following:

1) we'd like to discuss fees related to the provided service;
- so if it is only transport, then only to pay for transport
- is storage or further handling required, then to pay an additional fee for that

2) revenue for the spent caustic
- outlet to the paper/pulp industry (spent caustic is a valuable feedstock to them: can we value this now the price for fresh caustic is sky high?

3) cost saving program
- your ideas for optimising logistics/planning in order to reduce costs

Please confirm your acceptance of the above. Please come to the lobby of 24th floor and use lobby phone to let me know you have arrived.

per note to Janelle/Jeri; would it be possible to book room HOU-OSP CR 2414 Private Conference Room, SOPUS also for 2 pm (2 hour meeting)

With thanks

met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

Category Manager Chemicals
Contracting & Procurement

Shell Chemicals Europe BV
P.O. Box 3000, 3190 GA Hoogvliet Rt, the Netherlands
Location Pernis
Vondelingenweg 601, 3196 KK Hoogvliet Rt, the Netherlands

tel: +31 10 4317047 **mobile**: +31 655126405
fax: +31 (0)10 431 3937

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E mail: hans.dejong@shell.com
Intranet: GCM team website <http://sww.shell.com/downstream/cp/business/manufacturing/gcm/gcm_home.html>
Internet: http://www.shell.com

Please consider the environment before printing this email

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Clark Hickman

From: hans.dejong@shell.com
Sent: Tuesday, October 21, 2008 4:35 PM
To: Bones4reb82@aol.com
Cc: Clark Hickman
Subject: Re: Confirmation

Dear all,

I herewith confirm the meeting for tomorrow at 2 pm
met vriendelijke groeten / best regards / salutations amicales / mit freundlichen Grüssen

Hans de Jong

Global Category Manager Chemicals
Contracting & Procurement

Shell Chemicals Europe BV
P.O. Box 3000, 3190 GA Hoogvliet Rt, the Netherlands
Location Pernis
Vondelingenweg 601, 3196 KK Hoogvliet Rt, the Netherlands

tel: +31 10 4317047 mobile: +31 655126405
fax: +31 10 4312486

E mail: hans.dejong@shell.com
Important notice:
This email is confidential, may be legally privileged and is for the intended recipient only. Access, disclosure, copying, distribution or reliance on any of it by anyone else is prohibited and may be a criminal offence. Please delete if obtained in error and email confirmation to sender.

Sent from my BlackBerry Wireless Handheld

Van: Bones4reb82@aol.com
Aan: De Jong, Hans SCE-DFP/671
Cc: chickman@cesenvironmental.com
Verzonden: Mon Oct 20 05:46:17 2008
Onderwerp: Confirmation

I received both your E-Mails. I can meet with you on Wednesday, October 22, at One Shell Plaza at 2 p.m. I will have two people with me from CES Environmental Services, Inc.

Clark Hickman

New **MapQuest Local** shows what's happening at your destination. Dining, Movies, Events, News & more. Try it out!

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Meeting

with

Mr. Hans de Jong, Category Manager Chemicals

Contracting & Procurement

Shell Chemicals Europe BV

on

October 22, 2008

CES and Shell
Meeting 10/22/08

I. Response to Questions on the Spent Caustic Service by CES

(1) Typical CES Spent Caustic Service

Includes:

- Sampling and analysis of spent caustics defining type of caustic: (a) Sulfidic, (b) Phenolic, (c) Naphthenic.
- Defining end user for type of caustic.
- Finding end user for type of caustic.
- Determining if the material can be processed into sodium hydrosulfide, or other material.
- Through data for volume generation and analysis, identifying type of transport mode(s): (a) Tank truck, (b) Barge, (c) Railcar.
- Through volume and frequency data determining storage requirements for holding to support delivery to end users, or collection from generator.
- Creation of paperwork to support movement (BOL).
- Arrangement of movement.
- Delivery to end users based on their needs for volume, frequency, type of transport, and analysis of material (e.g. paper mills want 6% caustic or higher, transparent caustic, no free oil, low TOC, mild smell or less, no solids low chloride level, only sulfidic caustic, etc.)
- Or, delivery to CES Sodium Hydrosulfide Manufacturing Operation. This process can take a wide range of spent caustic.
- CES can also process phenolic, or naphthenic caustic.

After review of caustic samples and testing, the CES service price or quote for service will include all of the listed services.

Thus, for one charge price, CES will perform the services listed.

(a) Evaluate the material.
(b) Place the material.
(c) Pickup the material on Shell's schedule and place it in a storage tank until end user can receive, or CES can process into a new product. (NOTE: Both approaches make the material a substitution for a commercial chemical product which removes the material from hazardous waste regulation, reporting and disposal.)

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(d) Ship the material to end user on his schedule.
(e) Prepare all legal shipping paperwork (BOLs) for collection and delivery of spent caustic, or new product.
(f) Maintain a network of end users, since anyone at anytime can stop operation.
(g) Maintain a manufacturing site at Port Arthur which can use the material.
(h) Pay CES overhead, taxes, and a small profit to the bottom line.

If you wish to modify our approach, we will discuss other arrangements. However, all of the above steps are normal, since no end-user will take unknown material at your schedule.

(2) Revenue for the Caustic

(a) No paper mill or end user pays us to deliver the spent caustic to them.
(b) In our process to make another material, the income from the new material (sodium hydrosulfide) covers only transportation to the end user.
(c) The charge price to the refining company pays for our service to cover the steps outlined above in No. 1.
(d) If we requested money for spent caustic to a paper mill, the paper mill would reject the caustic and obtain spent caustic from another supplier/refinery at no cost to the paper mill.

(3) CES' Ideas for Optimizing the Spent Caustic Service

(a) Costs can be reduced through higher volumes, since this is a volume business, type of transportation services selected, locations of plant (refining), term of contract, quality of caustic (uniform material), etc.

Type of end user, paper mill, metal plant, CES manufacturing, etc. can also have a result on pricing.

Type of end user is based on the type of caustic, analysis of caustic (% caustic, chloride content, TOC, phenolic material present, color, clarity, etc.).

(b) CES cannot optimize until we evaluate a sample, know volume, know location of plant, and have a feel for uniformity.

In addition, location of end users can contribute to costs. Many refineries are located far away from paper mills which increases the cost of transportation. Many paper mills or end users only receive by

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tank truck. If the spent caustic is transported beyond 150 miles from the refinery the cost of transportation can double.

Only refineries that produce a clean sulfidic caustic at a constant rate, near many paper mills, that can be serviced by tank truck transportation with no storage needs can obtain a low charge price for services which depends on refinery storage and service schedule. However, if the local paper mill stops operation or rejects the loads the problems increase dramatically.

(c) The CES approach to optimization is the construction and operation of the Port Arthur Sodium Hydrosulfide Manufacturing Facility which is next to your Port Arthur Motiva Refinery.

II. What CES Offers

(1) Existing transportation, storage, and blending network with many end-users of caustic that currently supplement their use of caustic which removes the spent material from the waste definition and regulations.

(2) A local (Port Arthur) site that can use the spent caustic to produce a new chemical.

(3) All types of transportation (tank truck, railcar, and barge).

(4) Off-site storage.

(5) All transportation documentation.

(6) End of responsibility when CES collects the material.

(7) All analysis required for placement, ongoing quality control, and shipping, storage, or processing.

(8) Local (Port Arthur) site for processing, analyzing, transporting, storage, and documentation control. This will keep our costs below competitors, with full service to meet your needs.

(9) Of the current spent caustic service providers, CES takes all three types of caustic by tank truck, barge and railcar which offers the greatest flexibility of any service provider. CES offers multiple sites, support labs, transportation, processing equipment and storage under the control CES.

(10) Our approach absorbs problems associated with spent caustic placement, or processing into another chemical (e.g. end users

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problems, shut downs, equipment failure, transportation disruption from weather (floods, storms in the Gulf), rejection by end users, equipment processing failures, lab mistakes, generator shut downs odor problems, and generator problems which change the caustic.

When we pickup your material (spent caustic), it becomes our problem.

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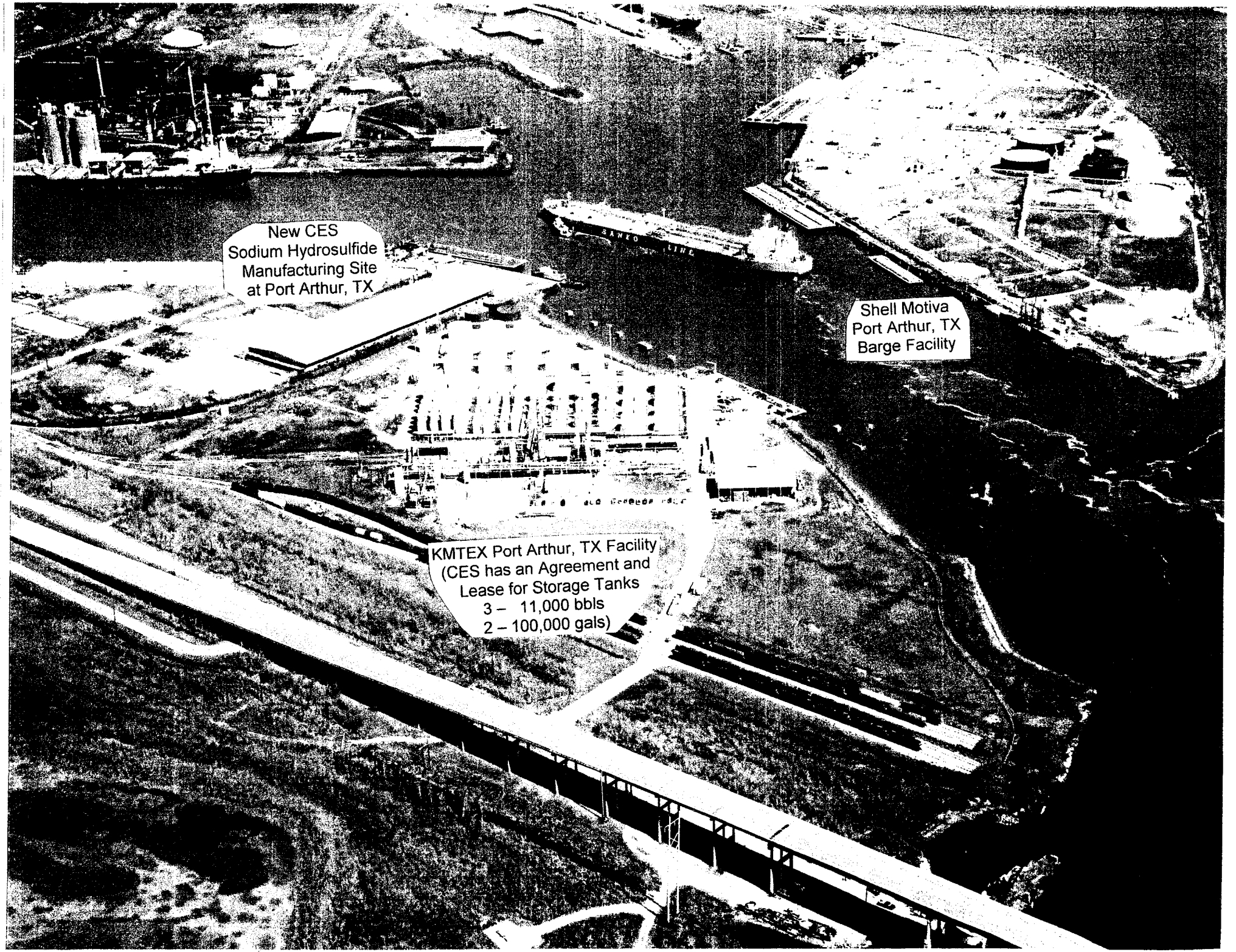
CES Environmental Services, Inc.

Facility

Port Arthur, TX

Sodium Hydrosulfide Production Site

October 22, 2008



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History

CES Environmental Services, Inc. was established in January of 1999 with a goal to provide excellent service and competitive pricing in the environmental services industry. CES has grown significantly over the last 9 years while maintaining that same goal.

CES offers a broad range of services with a high level of vertical integration. These services, coupled with our dedication to customer service, drive our explosive growth. Annual revenues are over $30 million and growing.

Field Services

- Tank, Pit and Sump Cleaning
- Vessel and Tower Cleaning
- Pressure Washing
- Remediation
- Chemical Cleaning
- Hydroblasting Services
- On-site Waste Treatment
- Separation Operations (Centrifuge)
- Waste Sampling, Testing and Analysis
- Air Machine Services
- Pond Cleaning
- Hydro Excavation
- Jet Rodder Services
- De-watering Operations

Tank Wash

On-site tank and container wash facility provides in-house and commercial tank and container wash services with:

- Five independent wash stations
- Steam heating and temperature monitoring
- Hot/cold water and caustic wash
- High pressure water systems
- Filtered air drying system for tank interiors

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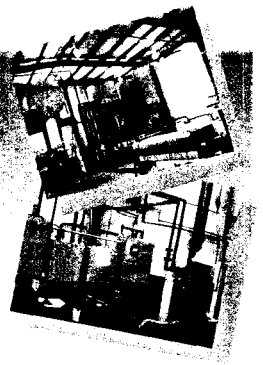
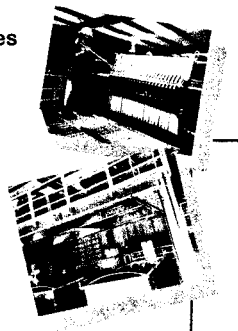
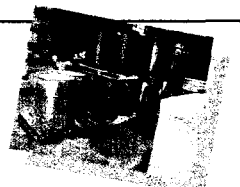
Main Facility

CES built an industrial wastewater pre-treatment plant to process, treat and dispose of non-hazardous and hazardous wastewater.

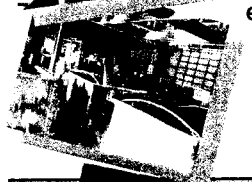


The filter presses remove solids from waste streams for economical bulk disposal. This type of equipment is also used to remove solids from products to meet customer specifications.





CES is a permitted transfer station for hazardous drums before they are shipped to the appropriate disposal facility in bulk.



Drums are emptied for bulk disposal and shredded or washed and recycled.

CES has three distillation units and a reverse osmosis unit for processing products and waste. These units have scrubbers/ vapory recovery systems in place to contain or eliminate odors in accordance with our Good Neighbor Policy.

Products

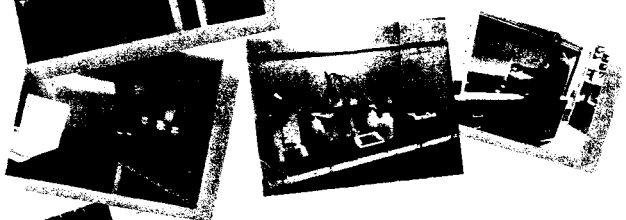
CES currently recycles/recovers/processes a growing list of materials:

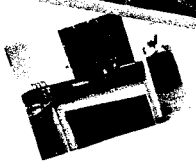
- Acetic Acid
- Methylene chloride
- Ethylene glycol
- Caustics
- Methanol
- Mixed Alcohols
- Inorganic Acids
- Bleach
- Polystyrene
- Base Oil
- Used Oil
- Commercial Fuel
- Viscosity improvers
- Other various hydrocarbons

This segment of business has been growing rapidly as CES is in a unique position to meet both generator and consumer needs with our processing, recovery and transportation capabilities.

Quality Control

The processing facility lab analyzes wastewater prior to discharge to ensure compliance with city, state and federal regulations.





The processing facility lab provides treatability analysis for research and development purposes as well as analysis to certify that outgoing products meet or exceed customer specifications.

By combining experience with treatability analysis, CES continues to find ways to save customers money while reducing the amount of hazardous waste disposed of in the environment.

Port Arthur Chemical and Environmental Services, LLC ("PACES")

2420 South Gulfway
Port Arthur, TX 77640

"Refinery Spent Caustic Capabilities"

December 15, 2008

1. The facility can process 3 types of caustic (sulfidic, phenolic and naphthenic).

2. Caustic feeds can range from 1 to 25% caustic.

3. The operation maintains the flexibility to place spent caustic with Paper Mills as a substitute for commercial purchased caustic and/or to process the spent caustic into a new chemical – Sodium Hydrosulfide.

4. The facility can receive and ship by truck, rail car, and water (barge). The operation maintains two 10,000 bbl barges for caustic movement and has a fleet of tractors and chemical tankers.

5. The facility maintains large (440,000 gal) storage tanks on lease at KMTEX which is located on the east side of the facility.

6. The facility can process caustic with a wide range of specifications (e.g. high solids, free oil, high chlorides, potassium, etc.) without surcharges.

7. The facility has a current processing capability (sulfidic/phenolic) of 70,000 gpd, and a future capacity of 140,000 gpd.

8. The facility has a current processing capability for naphthenic at 60,000 gpd, and a future capacity of 120,000 gpd

9. The facility has on site trucking equipment that can move sulfidic caustic at a rate of 50,000 gpd to Paper Mills and a future capacity of 100,000 gpd.

10. The facility is located at Port Arthur which is 90 miles from Houston and 40 miles from the Lake Charles area.

63	Shell Oil Products Us	California	Wilmington	97,000	DB
131	Silver Eagle Refining	Utah	Woods Cross	10,250	GRL
141	Silver Eagle Refining	Wyoming	Evanston	3,000	GB
81	Sinclair Oil Corp	Oklahoma	Tulsa	70,300	DC
86	Sinclair Oil Corp	Wyoming	Sinclair	66,000	JB
139	Somerset Refinery Inc	Kentucky	Somerset	5,500	GRL
88	Suncor Energy (Usa) Inc	Colorado	Commerce City	62,000	DB
111	Suncor Energy (Usa) Inc	Colorado	Denver	32,000	GB
39	Sunoco Inc	Pennsylvania	Marcus Hook	178,000	DB
43	Sunoco Inc	Ohio	Toledo	160,000	DB
51	Sunoco Inc	New Jersey	Westville	145,000	JB
68	Sunoco Inc	Oklahoma	Tulsa	85,000	GRL
7	Sunoco Inc (R&M)	Pennsylvania	Philadelphia	335,000	DB
142	Tenby Inc	California	Oxnard	2,800	DB
80	Tesoro Alaska Petroleum Co	Alaska	Kenai	72,000	GB
65	Tesoro Hawaii Corp	Hawaii	Kapolei	93,500	RRT
42	Tesoro Refining & Marketing Co	California	Martinez	166,000	RRT
58	Tesoro West Coast	Washington	Anacortes	120,000	RRT
93	Tesoro West Coast	North Dakota	Mandan	58,000	DC
94	Tesoro West Coast	Utah	Salt Lake City	58,000	~~GB~~
27	Total Petrochemicals Inc	Texas	Port Arthur	232,000	~~GB~~ DC
72	Ultramar Inc	California	Wilmington	80,887	GRL
87	United Refining Co	Pennsylvania	Warren	65,000	GRL
106	Us Oil & Refining Co	Washington	Tacoma	37,850	RRT
40	Valero Energy Corporation	Texas	Sunray	171,000	GB
66	Valero Energy Corporation	Texas	Three Rivers	93,000	GRL
52	Valero Refining Co California	California	Benicia	144,000	RRT
138	Valero Refining Co California	California	Wilmington	6,300	RRT
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	80,000	DC
44	Valero Refining Co New Jersey	New Jersey	Paulsboro	160,000	GB
67	Valero Refining Co Oklahoma	Oklahoma	Ardmore	87,400	GB
30	Valero Refining Co Texas	Texas	Texas City	218,500	GB
53	Valero Refining Co Texas	Texas	Corpus Christi	142,000	DC
70	Valero Refining Co Texas	Texas	Houston	83,000	DC
35	Valero Refining New Orleans Llc	Louisana	Norco	185,003	~~GRL~~ JB
56	Western Refining Company Lp	Texas	El Paso	122,000	DB
10	Woodriver Refining LLC	Illinois	Wood River	306,000	DB

EPAHO08200071

49	Wrb Refining Llc	Texas	Borger	146,000	JB
99	Wynnewood Refining Co	Oklahoma	Wynnewood	54,000	CH
126	Wyoming Refining Co	Wyoming	Newcastle	14,000	GB

EPAHO08200072

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
129	Bp Exploration Alaska Inc	Alaska	Prudhoe Bay	12,500	GB
96	Cenex Harvest States Coop	Montana	Laurel	55,000	GB
45	Citgo Refining & Chemical Inc	Texas	Corpus Christi	156,000	GB
124	Conocophillips Alaska Inc	Alaska	Kuparuk	15,000	GB
77	Conocophillips Company	California	Rodeo	76,000	GB
117	Countrymark Cooperative Inc	Indiana	Mount Vernon	23,000	GB
118	Ergon Refining Inc	Mississippi	Vicksburg	23,000	GB
120	Ergon West Virginia Inc	West Virginia	Newell (Congo)	20,000	GB
14	Lyondel - Houston Refining Lp	Texas	Houston	270,200	GB
130	Hunt Southland Refining Co	Mississippi	Sandersville	11,000	GB
114	Kern Oil & Refining Co	California	Bakersfield	26,000	GB
135	Lunday Thagard Co	California	South Gate	8,500	GB
20	Marathon Petroleum Co Llc	Louisana	Airline Drive Garyville	245,000	GB
78	Marathon Petroleum Co Llc	Ohio	Canton	73,000	GB
121	Petro Star Inc	Alaska	North Pole	17,500	GB
48	Premcor Refining Group Inc	Ohio	Lima	146,120	GB
141	Silver Eagle Refining	Wyoming	Evanston	3,000	GB
111	Suncor Energy (Usa) Inc	Colorado	Denver	32,000	GB
80	Tesoro Alaska Petroleum Co	Alaska	Kenai	72,000	GB
94	Tesoro West Coast	Utah	Salt Lake City	58,000	GB
27	Total Petrochemicals Inc	Texas	Port Arthur	232,000	GB
40	Valero Energy Corporation	Texas	Sunray	171,000	GB
44	Valero Refining Co New Jersey	New Jersey	Paulsboro	160,000	GB
67	Valero Refining Co Oklahoma	Oklahoma	Ardmore	87,400	GB
30	Valero Refining Co Texas	Texas	Texas City	218,500	GB
126	Wyoming Refining Co	Wyoming	Newcastle	14,000	GB

polyKiel- 361-844-5201
844-4002
361-~~883-8620~~
Gary Phillips
Administration
1802 - Nueces Bay Blvd
CC 78407
mike godfrey
713-321-4111
985-535-2241 ms Simon
409-962-4421
Jeff Bauer Eng 409-963-6828
Doug Duncan
office 210-345-4659
cell: 210-872-1868

Processed

EPAHO082000073

Motiva Enterprises 10700 la 44
Convent LA 70723
225-562-7651

Georgia Gulf - Plaquemine Division

Shintech Plaquemine

CF - Fertilizer

Mosaic - Near Convent, had sulphur on ground

Louis Dryfus - [redacted] Convent, LA (tank farm)

Castrol Lubricants

EPAHO08200074

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
123	Gulf Atlantic Operations Llc	Alabama	Mobile	16,700	GRL
107	Hunt Refining Co	Alabama	Tuscaloosa	34,500	GRL
74	Shell Chem Lp	Alabama	Saraland	80,000	GRL

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200075

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
82	Lion Oil Co	Arkansas	El Dorado	70,000	DC

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200076

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
15	BP West Coast Products Llc	California	Los Angeles	265,000	DB
21	Chevron Usa Inc	California	Richmond	242,901	DB
54	Conocophillips Company	California	Wilmington	139,000	DB
77	Conocophillips Company	California	Rodeo	76,000	GB
109	Edgington Oil Co Inc (Paramount)	California	Long Beach	33,000	JB
47	Exxonmobil Refining & Supply Co	California	Torrance	149,500	DB
46	Shell Oil Products Us	California	Martinez	155,600	DB
63	Shell Oil Products Us	California	Wilmington	97,000	DB
42	Tesoro Refining & Marketing Co	California	Martinez	166,000	RRT
52	Valero Refining Co California	California	Benicia	144,000	RRT
138	Valero Refining Co California	California	Wilmington	6,300	RRT

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V

***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200077

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
88	Suncor Energy (Usa) Inc	Colorado	Commerce City	62,000	DB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200078

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
113	Citgo Asphalt Refining Co	Georgia	Savannah	28,000	GRL

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200079

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
41	Citgo (Pdvsa Midwest Refining LLC)	Illinois	Lemont (Chicago)	167,000	GRL
24	Exxonmobil Refining & Supply Co	Illinois	Joliet	238,600	DC
34	Marathon Petroleum Co Llc	Illinois	Robinson	192,000	GRL
10	Woodriver Refining LLC	Illinois	Wood River	306,000	DB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200080

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
5	BP Products North America Inc	Indiana	Whiting	410,000	GRL
117	Countrymark Cooperative Inc	Indiana	Mount Vernon	23,000	GB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200081

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
59	Coffeyville Resources Llc	Kansas	Coffeyville	112,000	GRL
60	Frontier El Dorado Refining Co	Kansas	El Dorado	107,500	GRL
71	NCRA	Kansas	Mcpherson	81,200	GRL

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200082

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
29	Marathon Petroleum Co Llc	Kentucky	Catlettsburg	222,000	DB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200083

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
76	Calcasieu Refining Co	Louisana	Lake Charles	78,000	JB
127	Calumet Lubricants Co Lp	Louisana	Cotton Valley	13,020	DC
136	Calumet Lubricants Co Lp	Louisana	Princeton	8,300	DC
105	Calumet Shreveport Llc	Louisana	Shreveport	42,000	DC
33	Chalmette Refining Llc	Louisana	Chalmette	192,760	DC
3	Citgo Petroleum Corp	Louisana	Lake Charles	429,500	CH
18	Conocophillips Company	Louisana	Belle Chasse	247,000	JB
23	Conocophillips Company	Louisana	Westlake	239,400	JB
2	Exxonmobil Refining & Supply Co	Louisana	Baton Rouge	503,000	GRL
20	Marathon Petroleum Co Llc	Louisana	Garyville	245,000	GB
22	Motiva Enterprises Llc	Louisana	Norco	242,200	DC
26	Motiva Enterprises Llc	Louisana	Convent	235,000	DC
57	Murphy Oil Usa Inc	Louisana	Meraux	120,000	JB
95	Placid Refining Co	Louisana	Port Allen	56,000	JB
75	Valero Refining Co Louisiana	Louisana	Krotz Springs	80,000	DC
35	Valero Refining New Orleans Llc	Louisana	Norco	185,003	JB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200084

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
91	Conocophillips Company	Montana	Billings	58,000	JB
89	Exxonmobil Refining & Supply Co	Montana	Billings	60,000	JB
13	Flint Hills Resources Lp	Minnesota	Saint Paul	279,300	RRT
143	Foreland Refining Corp	Nevada	Eagle Springs	2,000	RRT
61	Marathon Petroleum Co Llc	Michigan	Detroit	100,000	DC
83	Marathon Petroleum Co Llc	Minnesota	Saint Paul Park	70,000	GRL

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200085

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
9	Chevron Usa Inc	Mississippi	Pascagoula	330,000	GRL
118	Ergon Refining Inc	Mississippi	Vicksburg	23,000	GB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200086

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
73	Chevron Usa Inc	New Jersey	Perth Amboy	80,000	GRL
110	Citgo Asphalt Refining Co	New Jersey	Paulsboro	32,000	GRL
51	Sunoco Inc	New Jersey	Westville	145,000	JB
44	Valero Refining Co New Jersey	New Jersey	Paulsboro	160,000	GB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V

***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200087

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
122	Giant Industries Inc	New Mexico	Bloomfield	16,800	RRT
119	Giant Refining Co	New Mexico	Gallup	20,800	RRT
69	Navajo Refining Co	New Mexico	Artesia	84,000	RRT

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200088

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
55	BP Products North America Inc	Ohio	Toledo	131,000	JB
78	Marathon Petroleum Co Llc	Ohio	Canton	73,000	GB
48	Premcor Refining Group Inc	Ohio	Lima	146,120	GB
43	Sunoco Inc	Ohio	Toledo	160,000	DB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200089

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
32	Conocophillips Company	Oklahoma	Ponca City	194,000	JB
81	Sinclair Oil Corp	Oklahoma	Tulsa	70,300	DC
68	Sunoco Inc	Oklahoma	Tulsa	85,000	GRL
67	Valero Refining Co Oklahoma	Oklahoma	Ardmore	87,400	GB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V

***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200090

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
36	Conocophillips Company	Pennsylvania	Trainer	185,000	JB
39	Sunoco Inc	Pennsylvania	Marcus Hook	178,000	DB
7	Sunoco Inc (R&M)	Pennsylvania	Philadelphia	335,000	DB
87	United Refining Co	Pennsylvania	Warren	65,000	GRL

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200091

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
38	Premcor Refining Group Inc	Tennessee	Memphis	180,000	GRL

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200092

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
84	Alon Usa Energy Inc	Texas	Big Spring	67,000	DC
4	BP Products North America Inc	Texas	Texas City	417,000	JB
45	Citgo Refining & Chemical Inc	Texas	Corpus Christi	156,000	GB
19	Conocophillips Company	Texas	Sweeny	247,000	JB
49	Conocophillips Company	Texas	Borger	146,000	JB
92	Delek Refining Ltd	Texas	Tyler	58,000	DC
1	Exxonmobil Refining & Supply Co	Texas	Baytown	562,500	CH
6	Exxonmobil Refining & Supply Co	Texas	Beaumont	348,500	JB
11	Flint Hills Resources Lp	Texas	Corpus Christi	288,126	DC
14	Lyondel - Houston Refining Lp	Texas	Houston	270,200	GB
79	Marathon Petroleum Co Llc	Texas	Texas City	72,000	DB
12	Motiva Enterprises Llc	Texas	Port Arthur	285,000	DB
8	Shell Deer Park Refining Ltd Partnership	Texas	Deer Park	333,700	JB
27	Total Petrochemicals Inc	Texas	Port Arthur	232,000	GB
66	Valero Energy Corporation	Texas	Three Rivers	93,000	GRL
56	Western Refining Company Lp	Texas	El Paso	122,000	RRT

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200093

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
103	Chevron Usa Inc	Utah	Salt Lake City	45,000	DB
115	Holly Corp Refining & Marketing	Utah	Woods Cross	24,700	JB
94	Tesoro West Coast	Utah	Salt Lake City	58,000	GB

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200094

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
90	Giant Yorktown Refining	Virginia	Yorktown	59,375	DC

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO082000095

Rank	Company Name	State	Site	Barrels per Calendar Day	Primary
28	Bp West Coast Products Llc	Washington	Ferndale (Cherry Point)	225,000	RRT
64	Conocophillips Company	Washington	Ferndale	96,000	JB
102	Frontier Refining Inc	Wyoming	Cheyenne	47,000	DB
108	Murphy Oil Usa Inc	Wisconsin	Superior	34,300	RRT
50	Shell Oil Products Us	Washington	Anacortes	145,000	RRT
86	Sinclair Oil Corp	Wyoming	Sinclair	66,000	JB
58	Tesoro West Coast	Washington	Anacortes	120,000	RRT
106	Us Oil & Refining Co	Washington	Tacoma	37,850	RRT

***We may be able to sell our Naphthenic Acid to Petrotrin in Trinidad, Van Locke in Belgium (Guy Van Locke), Ergon Refining in V
***It is best if our Naphthenic Acid has an acid number of 190 or above (diesel produces NA in the 120 to 160 range, Jet fuel/Keros

EPAHO08200096

Exxon Mobile – Baton Rouge, LA

Frank Holloway
ExxonMobil Baton Rouge Chemical Plant (Sulfidic Caustic)
Chemical Plant Feedstock and
Refinery Interface Coordinator
(225) 977-8136 Office
(225) 405-3307 Cell

Gerald Kuehler (naphthenic caustic)

gerald.p.kuehler@exxonmobil.com

Dana Carter

From: frank.e.holloway@exxonmobil.com
Sent: Friday, March 13, 2009 2:17 PM
To: Matt Bowman
Cc: Dana Carter
Subject: Re: Meeting or lunch next Friday

Matt / Dana, thanks again for the visit and lunch today. I enjoyed the conversation. Below is the contact information for Jim Propp in Houston.

Jim Propp
Office: 281-870-6963
email: jim.l.propp@exxonmobil.com

Frank.

Frank Holloway
ExxonMobil Baton Rouge Chemical Plant
Chemical Plant Feedstock and
Refinery Interface Coordinator
(225) 977-8136 Office
(225) 405-3307 Cell

Matt Bowman <mbowman@cesenvironmental.com>
03/05/09 03:13 PM

To: "frank.e.holloway@exxonmobil.com" <frank.e.holloway@exxonmobil.com>
cc: Dana Carter <dcarter@cesenvironmental.com>
Subject: Meeting or lunch next Friday

Frank,

Do you have any availability for next Friday (13th)?

Subject: _____ Date: _____

Daily Notes

Exxon Mobile Mtg w/ Jim Propp 4-3-09

Propylene
butadiene
ethelyne

late April
early May
bid package

gas oils have 2-3% sulphur -

existing contract expires this summer

Sulphur the A to carbonate ratios can change
little solids typically, little oil

7500 - 8000 bbls at most to fill at a time

dead?

Barge Only

References

* Environmental Group needs to visit and audit

What are our specs
1/2 % solids - 20/30 % sulphur
0-2 % carbonates
Caustic 5-7 % typical as low as 2%, high as 15%
• can handle higher
Solids & oil - goes into disulfide oil market

possible 20,000bbl barge
? dead limitations

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Placid Refining – Port Allen, TX

Main Phone: 225-387-0278

Environmental Manager – Fred Baron

Extention: 492

Direct Line: 225-346-7492

Dana Carter

From: Joy Baker
Sent: Thursday, March 26, 2009 3:19 PM
To: Dana Carter
Cc: Matt Bowman
Subject: placid refining

I talked & met with Fred Baron at Placid (environmental). He is super nice, though very slow to respond on questions. His number is 225-3467492, extension 492 (access would not let me enter extensions)

He told me that they generate about 3-4 loads per month of caustic and they are under contract with Merichem for that material.

A guy named Larry Doty is the general manager, which is who Fred said would have to make a decision on getting out of a contract with Merichem. I think his number is 504-346-7414, but my notes are kinda unclear. That might be a number for a guy named Barry Joffrion that I met there also (not sure what he does exactly).

Good luck!

Joy Baker
CES Environmental Services, Inc
4904 Griggs Rd
Houston, TX 77021
mobile: 281-701-8511
fax: (713) 748-8664
jbaker@cesenvironmental.com

Alon USA – Krotz Springs, LA

Tracie Huey Landry

Office: 337.566.0181

Notes:

BP Lube Oil Packaging – Port Allen, LA

Holly Coleman

Office: 225-3882-8526

Notes: Possible line flushes, wastewater

Exxon Mobil Lubricants Plant – Port Allen, LA

Jeff Radcliff

Office: 225-977-3714

Retention Code: REF1010
O = SUP C = MAXACT

ExxonMobil
Lubricants & Specialties

PORT ALLEN LUBRICANTS PLANT
2230 Highway 1 North
Port Allen, LA 70767

FACT SHEET

FACILITY

Construction of the Port Allen Lube Plant was completed in the fall of 1990. The modern lube blending, packaging, and warehouse operation provides engine oils, industrial lubricants, aviation piston and process oils to many ExxonMobil customers throughout the world. Sitting on 50 acres west of the Mississippi River, the facility has 8.3 acres under roof.

WORKFORCE

The plant is staffed by approximately 45 ExxonMobil employees, 90 contractors, and primarily operates 5 days/week, 52 weeks/year.

FACILITIES

- administrative offices
- tank farm (27 base stock, 24 additive, 47 finished product
- laboratory
- kettles (21) & in-line blending (3)
- packaging lines
- dissolving unit
- fork trucks
- computerized random warehouse
- tank truck loading / unloading racks
- tank car loading / unloading racks
- maintenance facility

BASE STOCKS

Primary source of base stocks is from the ExxonMobil Baton Rouge Refinery via pipeline. Other base stocks from Baytown, Beaumont & Singapore arrive either via pipeline, railcar or tank truck.

BLENDING

Over 100 Million Gallons of finished lubricant and base stock throughput yearly. This volume consists of locally blended products and imported products from the ExxonMobil Global Manufacturing Network and Third Parties. Approximately 125 different lubricants are locally manufactured at Port Allen.

PACKAGING

Approximately 325 package combinations are packaged on the following packaging lines:

- 55 gallon drums
- 16 gallon kegs
- 1 quart bottles
- 5 gallon pails
- 4 & 5 quart bottles

WAREHOUSE

Approximately 700 packaged products are available through the distribution warehouse

- 250,000 square feet of domestic warehouse space - 27 receiving / loading doors
- 88,000 square feet of export warehouse space - 5 receiving /

loading doors
- Computerized random warehouse management system

DISTRIBUTION

Quality lubricants shipped worldwide. Primary distribution points throughout North America, South America, and the Caribbean. Products are shipped by rail car, tank truck, ISO-containers, flexi-bags, export containers, package trucks, and intermodal.

QUALITY

- ISO / TS 16949 (Automotive Industry)
- Ford Q1 Certified
- Nuclear Procurement Issues Committee Certified (NUPIC) - Nuclear Industry
- Quality Practices & Guidelines Compliant (QP&G) - ExxonMobil Laboratory Certification

SHE & SECURITY

Awarded OSHA's Voluntary Protection Program (VPP) "STAR" in 2006

The Plant's Safety, Health, Environmental and Security programs are managed by ExxonMobil's Operation Integrity Management System (OIMS) and are integrated into our daily activities. We strive to make "***NOBODY GETS HURT***" a core value in flawlessly operating our facility.

For more information, contact Public Affairs at (225) 977-8393.

Pluses and Minuses of Caustic Treating

Reprinted from Hydrocarbon Processing October 1996

Proper use and spent solution management ensure the safest and most cost-effective operations

F. J. Suarez, Merichem Co., Houston, Texas

In recent years, refineries and petrochemical plants worldwide have faced stricter controls on liquid and gas effluent discharge streams that could cause air or water pollution. Spent caustic (NaOH) solutions are liquid effluents that must be properly managed to maintain the plant discharge's quality. Since there are different types of spent caustic steams, refiners must correctly categorize them to use the most effective disposal or treating method.

The hydrocarbon processing industry (HPI) has historically used caustic solutions to extract or treat acidic impurities such as hydrogen sulfide (H_2S), mercaptans and organic acids in hydrocarbon streams. Today, caustic solutions continue to be the primary reagents used in these treating operations because they have been proven safe, economical, effective and, above all, environmentally acceptable. When properly recycled or treated, used caustic streams do not constitute damaging, hazardous waste.

Over 50 US refineries and 10 outside the US ship caustic solutions to US chemical plants. Yet these streams are not classified as RCRA waste by EPA because they are processed for beneficial reuse. Much of the concern expressed today about caustic use in HPI operations can he attributed to the following:

- Many plant operators are unaware of options for in-plant processing or recycling of spent caustic.
- Poorly designed caustic treaters can cause operating problems.
- Spent caustic can be turned into hazardous waste by outside disposal companies.
- Unfounded concerns about caustic use, such as these recent inaccurate statements: "Spent caustic will be regulated as hazardous waste by EPA" and Spent caustic disposal costs are as high as US$3.00/gal."

Based on the economic benefits, caustic is still the best treating reagent available to the HPI. In refineries, caustic is primarily used to remove sulfur compounds from light streams and oxidize mercaptans in heavier streams. The pluses and minuses of caustic treating are presented to help refiners and other petrochemical plant operators make careful, intelligent economic choices. Although the focus is on refinery treating operations, the information presented applies equally well to many other petrochemical operations.

Table 1. Comparison of Capital and Operating Costs for 10,000-bpsd Jet Fuel Caustic Treater and a Comparable Hydrotreater

	Caustic Treating	Hydrotreating
Capital costs, US $/bbl	150 to 200	1,500 to 2,500
Operating costs U. S. $/bbl		
Catalyst and chemicals	0.0172	0.380

Utilities	0.0005	0.025
Labor	0.0060	0.012
Total	0.0237	0.417

Removing Sulfur Compounds From Light Refinery Streams

The sulfur content of many refinery streams must be reduced. Refinery gases, liquefied petroleum gases and light naphthas contain sulfur primarily as H_2S, carbonyl sulfide (COS) and mercaptans that can easily be extracted with caustic solutions. These streams are almost universally treated with caustic (downstream of an amine extraction system for bulk H_2S removal) because capital and operating costs are 80% to 95% lower than hydrotreating costs. When compared to molecular sieves, caustic treating is not only cheaper, but also far more reliable in meeting product specifications.

Used mercaptide rich caustic from these processes can be regenerated in a catalytic treating system. Sulfidic caustic solutions rich in Na_2S/NaHS can easily be sold, recycled or treated in site while maintaining the attractive economics of caustic treating processes.

Oxidizing Mercaptans to Sweeten Heavier Streams

Unfortunately, sulfur compounds in heavy fractions like heavy naphtha, jet fuel and diesel are not caustic extractable. However, caustic solutions are widely used to convert odorous and corrosive mercaptans to acceptable disulfide oil via an air/catalyst oxidation (sweetening) process. If the total sulfur content is already within product requirements, most gasoline, jet fuel, kerosene and diesel fractions can be satisfactorily sweetened with caustic.

Hydrotreating, the most widely used alternative to caustic sweetening, is very effective. However, hydrotreating cannot compete with caustic treating in capital and operating costs. Table 1 compares capital and operating costs of a 10,000-bpsd jet fuel caustic treater and a comparable hydrotreater.

Caustic sweetening processes produce organic byproducts (phenolic caustic and naphthenic caustic solutions) that must be accounted for when designing a treating plant. Cracked gasolines contain shallots, a portion of which are incidentally extracted by the caustic treating solution. For jet fuel, kerosene and diesel streams, the sweetening process usually uses a caustic prewash to remove all corrosive naphthenic acids, which cannot be allowed into the final products. Phenolic and naphthenic caustic solutions can either be sold or properly managed in the plant.

In recent years, an old wet sweetening process using ammonia instead of caustic has been offered as a way to eliminate coproduct caustic solutions. However, since ammonia is hydrocarbon soluble and a weak base compared to caustic, extra product cleanup steps and expensive catalytic additives must be used, substantially increasing treating costs.

In addition, the aqueous ammonia byproduct solution and the ammonia-laden wash water can be even more difficult to manage than caustic treating byproducts. Ammonia wastes cannot be recycled either in-plant or outside, leaving only the option of in-plant waste processing.

If an organic ammonium salt solution is processed in a refinery sour water stripper, organic acids remain in the treated sour water and must then be oxidized in the biological wastewater treating plant. The organic-rich treated sour water should not be recycled to the crude desalters, because the acids will eventually end up in the distillates, to be treated again.

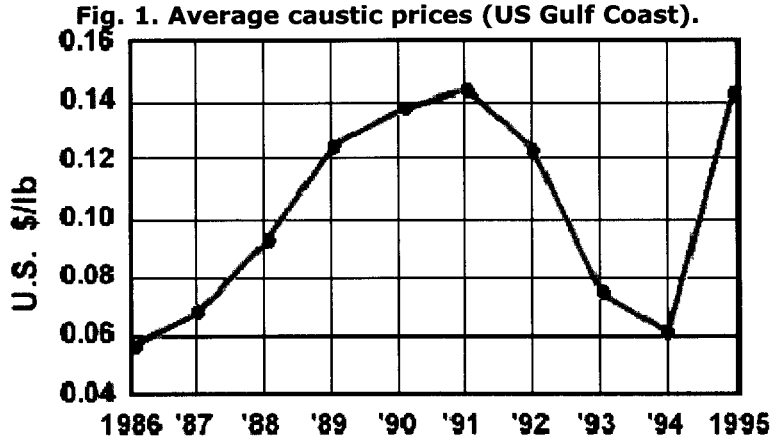
Advantages of Caustic as a Treating Reagent

As previously stated, aqueous caustic is a proven, safe and economical chemical treating agent well-adapted for the HPI and many other industries, including paper, aluminum and edible oil.

Economics

Fig. 1 shows caustic prices on the US Gulf Coast over the last 10 years. Caustic prices fluctuate primarily due to demand for its coproduct, chlorine. But over the long term, caustic's price has increased at a slightly lower rate than inflation. Refiners can dampen price fluctuations by entering into long-term contracts as opposed to buying caustic on the spot market. Caustic is, and will continue to be, one of the lowest priced inorganic bases available to the HPI.

Fig. 1. Average caustic prices (US Gulf Coast).



Safety

Caustic is also safer than many other chemicals used in the HPI. Storage, handling and personnel protection requirements for caustic solutions are much less rigorous than those for sulfuric acid, hydrofluoric acid, gaseous ammonia, H_2S, amines and many other refinery chemicals.

Performance

In process units, caustic is easy to pump and control. At operating temperatures below 200'F, the metallurgical requirement is typically low-cost carbon steel.

Since caustic is not soluble in hydrocarbons, complete phase separation can be achieved in a properly designed treating unit. Some process designs use vigorous mixing systems that tend to emulsify the caustic and hydrocarbon phases. In these cases, a sand filter or water wash will remove any entrained aqueous material from the hydrocarbon product. Other modern processes can affect contact between phases without mixing, resulting in clean phase separation without resorting to such cleanup steps.

Spent Caustic Management

In comparing caustic treating to alternative processes, the most critical issue, after hydrocarbon product specifications and process economics, is the management of byproduct spent caustic solutions. Operating companies often choose a treating process based on spent caustic disposal rather than the favorable economics of caustic treating.

Spent caustic disposition, like any other refinery operation, requires careful evaluation. Unfortunately, many engineering and technology firms that advise refiners and design spent caustic handling systems do not have the knowledge to optimize these systems. Errors made early in the design process are compounded, resulting in extremely costly economical and environmental mistakes. These errors include:

- Mixing all types of spent caustic in the same storage vessel, rendering the entire mixture unsalable
- Designing caustic storage systems that are too small to allow for the lowest possible transportation costs
- Processing a mixture of all types of caustics in a single treating plant designed for only one type
- Controlling the pH inadequately in the neutralizers, which reduces the effectiveness of contaminant removal.

Table 2. Characteristics of a Typical Refinery Sulfidic Caustic Stream

Free NaOH, wt%	2 to 10
Na_2S, NaHS as S^-, wt%	0.5 to 4
Mercaptides as S, wt%	0.1 to 4
Carbonate as CO_3, wt%	0 to 4
pH	13 to 14
Total Na^+, wt%	4 to 10
Ammonia	Traces

One of the most critical errors is assuming that all refinery spent caustic streams-sulfidic, cresylic and naphthenic are alike and can be mixed and handled together, either by an outside company or an internal processing plant. Although this scenario might work in a few cases, mixing spent caustic streams generally results in higher disposition costs. For example, a refiner could receive $0.05/gal for selling phenolic caustic while paying $0.20/gal for removal of sulfidic caustic, but would not find a market for the mixed caustic stream. Furthermore, the refiner would pay a hazardous waste processor at least $1.00/gal in disposal fees and would have to manifest the mixed caustic as RCRA waste.

Alternatives for Managing Each Type of Spent Caustic

Sulfidic Caustic

The composition of a typical refinery sulfidic caustic stream is in Table 2. The key potential pollutants are sodium sulfide and sodium mercaptide. These contribute to chemical and biological oxygen demand (COD and BOD) in wastewater treating plants, and produce odors and dangerous gases when neutralized.

Sulfidic caustic solutions can be sold as treating agents to pulp and paper plants or to the mining industry for purifying certain metal ores. Since these end users require consistent quality, sulfidic caustic is usually sold to intermediate companies that blend the required product quality while

providing just-in-time transportation and delivery service. The total sodium content of these streams is important as well as the sodium-to-sulfur ratio. Although sulfidic caustic solutions are valuable to the industries that use them, in actual practice, transportation and handling costs usually exceed product value. The refiner must subsidize the operation with fees that can range from $0.20/gal to $0.60/gal.

When production of sulfidic caustic is high or potential end users are far away, resulting in high transportation costs, in-plant processing may be the most economical option. Here again, know-how is extremely important to ensure that the treated caustic will not become an environmental liability. Refiners have several options:

- Deep neutralization to a pH below 4, coupled with acid-gas handling to prevent transfer of pollutants from the water to air. Neutralization to a pH of 7 does not significantly reduce contaminants in these streams and has been improperly applied by many refiners without much environmental benefit.
- Partial oxidation of sodium sulfide to sodium thiosulfate. This allows oxidation to be completed in the wastewater treating plant to avoid the risk of releasing unsafe, odorous H_2S and mercaptans. Since caustic is partially regenerated in the oxidation process, it can also be used as an alternative to fresh caustic in other plant processes.
- Total oxidation of sodium sulfide to sodium sulfate for maximum removal of COD and BOD before the wastewater treating plant
- Thermal incineration
- Cascading to other treating systems for streams like cracked gasoline while converting the caustic byproduct to a more valuable product such as cresylic caustic.

Other options used by refiners like sending spent caustic to the crude unit or the sour water stripper are not considered reliable.

One option refiners try to avoid but often cannot is outside disposal of sulfidic caustic as hazardous waste. This can be economically avoided in most cases. The key is to use high caustic strengths (>20° Be) and segregate the sulfidic product from other spent caustics.

Cresylic caustic

Cresylic acids are, in effect, part of gasoline and do not reduce its quality. However, extracting these acids from gasoline is sometimes more profitable than leaving them in. Cresylic caustic solutions produced from treating cracked gasolines generally come from two sources: 1) extraction or oxidation systems using strong caustic; and 2) oxidation systems using weak caustic. Table 3 shows typical characteristics of cresylic caustics.

The first type of byproduct cresylic caustic solution can be sold at fairly attractive prices, often covering the value of the hydrocarbon content even after deducting transportation costs. These streams typically contain at least 10 wt% of phenolic compounds (average content is 15 wt%) in addition to sulfur compounds like sodium sulfide and mercaptans. Cresylic caustic processors recover phenolic compounds for the production of valuable chemicals. When the refinery is far away from the caustic processor, railroad or barge transportation costs exceed the cresylic caustic stream's value.

The second type of cresylic caustic byproduct contains less than 5 wt% phenolics. The low acid oil content drastically increases transportation and processing costs. For these reasons, this type of byproduct may be more economical for in-plant processing. Cresylic caustic solutions processed in-plant should be segregated from other spent caustics and neutralized with a mineral acid or acid gas to a pH of 7. Additional facilities are needed to solvent extract the neutralized caustic to reduce levels

of soluble phenol and cresols in the water phase. The biological wastewater treating plant may remove remaining phenolics, provided the biological mass receives a steady diet of these compounds without abrupt fluctuations in concentration or total weight. Recovered acid oils can be sold or recycled to refinery processes that tolerate the oils' sodium content.

Table 3. Characteristics of typical refinery cresylic caustic streams		
	Strong Caustic Operation	**Dilute Caustic Operation**
NaOH (at pH 7), wt%	10 to 15	1 to 4
Sulfide as S^-, wt%	0 to 1	0 to 0.2
Mercaptide as $S^=$, wt%	0 to 4	0 to 0.5
Cresylic acids, wt%	10 to 25	2 to 5
Carbonates as $C0_3$, wt%	0 to 0.5	0 to 0.1
pH	12 to 14	12 to 14

Table 4. Characteristics of Typical Refinery Naphthenic Caustic Streams		
	Jet Fuel/Kerosene	**Diesel**
NaOH, wt%	1 to 4	1 to 4
Sulfide as S^-, wt%	0 to 0.1	Trace
Mercaptide as S^+, wt%	0 to 0.5	0 to 0.5
Naphthenic acids, wt%	2 to 10	2 to 15
Phenolics, wt%	1 to 3	0 to 1
pH	12 to 14	12 to 14

Naphthenic Caustic

These solutions typically contain 5 wt% to 15 wt% naphthenic acids, depending on the caustic concentration, caustic spending target and acidity of the jet fuel, kerosene or diesel stock being processed. Table 4 shows typical characteristics of naphthenate streams derived from kerosene and diesel stocks.

Naphthenic caustic solutions can be sold, often resulting in positive value to the refiner, if distance or low acid concentrations do not result in high freight costs. Outside processors neutralize these

solutions to recover the naphthenic acids, then refine them for sale to producers of naphthenate metal salts. Acids derived from jet fuel/kerosene provide a high acidity in the 240 to 250 mg KOH/g range, while acids from diesel are on the order of 180 to 200 mg KOH/g. Typically, the higher acidity products are worth more in the marketplace. Net return can be as much as two to four times the value of an equivalent amount of diesel fuel.

For refiners whose treaters produce high volumes of low concentration naphthenic caustic solutions, in-plant processing may be the most economical option. Naphthenic solutions cannot be mixed and oxidized with sulfidic caustic since sodium naphthenate creates vigorous foaming during air injection.

Refiners should use a process that: 1) neutralizes the caustic solution with a mineral acid to a pH of 3 to 4; 2) recovers the sprung acid oils and cleans up the remaining organics; then 3) brings the pH up to the range required for final treatment in the wastewater treating plant. Sprung acid oils can be sold or recycled in the refinery wherever sodium can be tolerated.

As mentioned earlier, one of the root causes of problems with caustic treating operations is lack of know how by both engineering companies and plant operating groups that design treaters and manage byproduct caustic solutions. Poor design and management result in processing and environmental problems, and finally, in bad economic decisions.

With few exceptions, caustic treating processes are extremely cost-effective and environmentally sound. When sold or transferred as chemical feedstocks to outside chemical processors, none of these caustic solutions are labeled hazardous waste by EPA, nor is such labeling expected in the foreseeable future.

However, when quality specifications are ignored or when spent caustic management is left to outside disposal companies, spent caustic solutions can easily be transformed into hazardous wastes.

The author: *Felipe Suarez is vice president and general manager of the process technology division of Merichem Co., Houston, Texas. He has served as special projects manager, technical services manager, raw materials technical services manager, proprietary technology group manager, assistant sales manager and assistant general manager. From 1969 to 1980, he worked for Murphy Oil, Meraux, Louisiana, with experience in refinery process design and operations. He holds a BS degree in chemical engineering from Louisiana State University in Baton Rouge, Louisiana.*

The Wonderful World of Spent Caustic

Sources of Spent Caustic

- **Ethylene spent caustic** comes from the caustic scrubbing of cracked gas from an ethylene cracker. This liquor is produced by a caustic scrubbing tower. Ethylene product gas is contaminated with H2S(g) and CO2(g), and those contaminants are removed by absorption in the caustic scrubbing tower to produce NaHS(aq) and Na2CO3(aq). The sodium hydroxide is consumed and the resulting wastewater (ethylene spent caustic) is contaminated with the sulfides and carbonates and a small fraction of organic compounds. These types of caustics typically contain less than 5% caustic.
- **Refinery spent caustic** comes from multiple sources: the caustic processing of gasoline; the caustic processing of kerosene/jet fuel; and the caustic processing of LPG. In these streams sulfides and organic acids are removed from the product streams into the caustic phase. The sodium hydroxide is consumed and the resulting wastewaters (cresylic for gasoline; naphthenic for kerosene/jet fuel; sulfidic for LPG -spent caustics) are often mixed and called **refinery spent caustic**. This spent caustic is contaminated with sulfides, carbonates, and in some cases a high fraction of organic acids.

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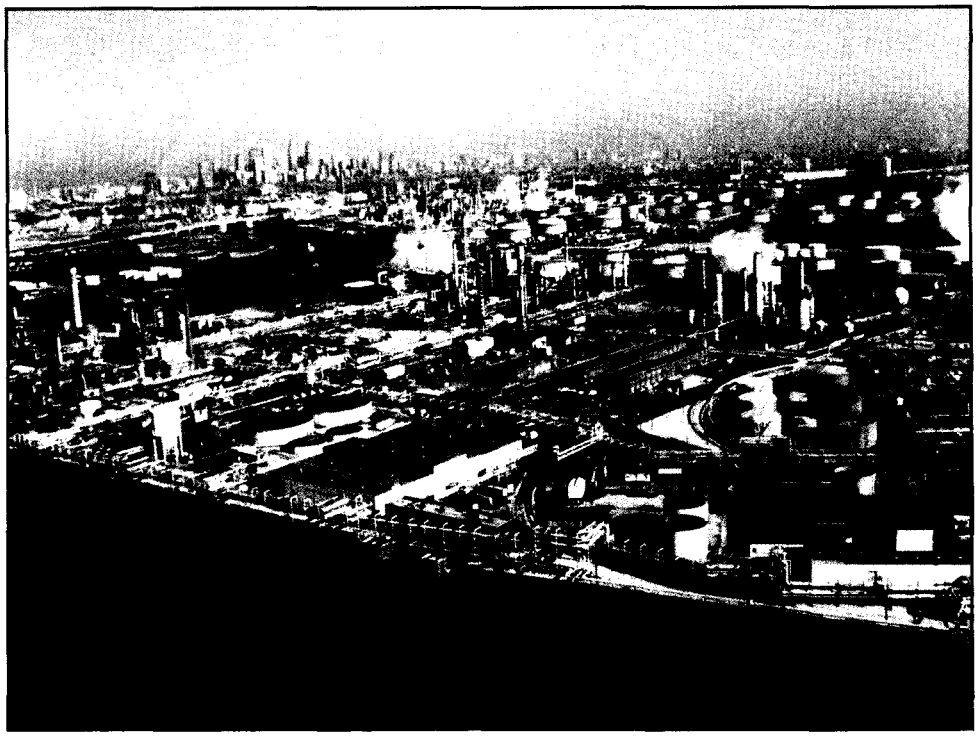
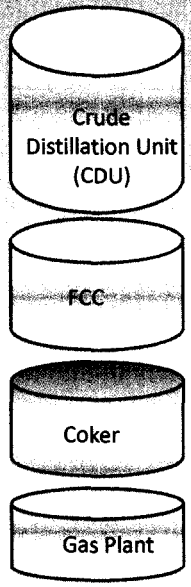


Refinery Sources



OFFGAS
SATURATED LPG
LSR NAPHTHA → Sulfidic Caustic

KEROSENE
DIESEL → Naphthenic Caustic

UNSATURATED LPG
LIGHT FCC GASOLINE → Sulfidic Caustic

HEAVY FCC OR FULL RANGE
FCC GASOLINE → Cresylic / Phenolic Caustic

COKER LPG
LIGHT COKER NAPHTHA → Sulfidic Caustic

MISC VENT & OFFGAS → Sulfidic Caustic

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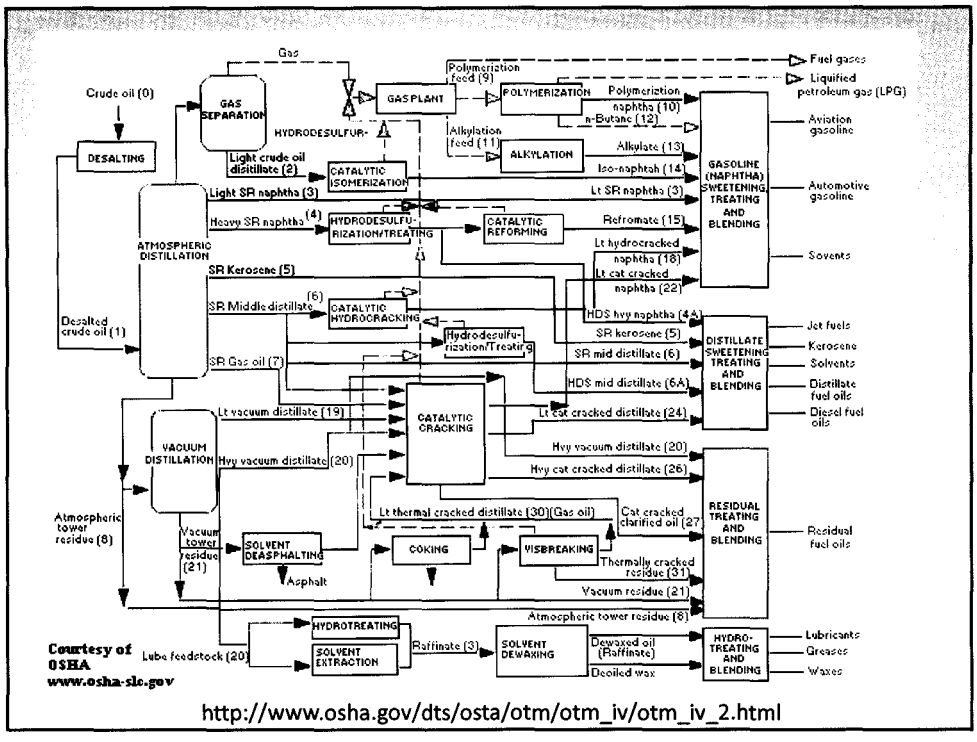

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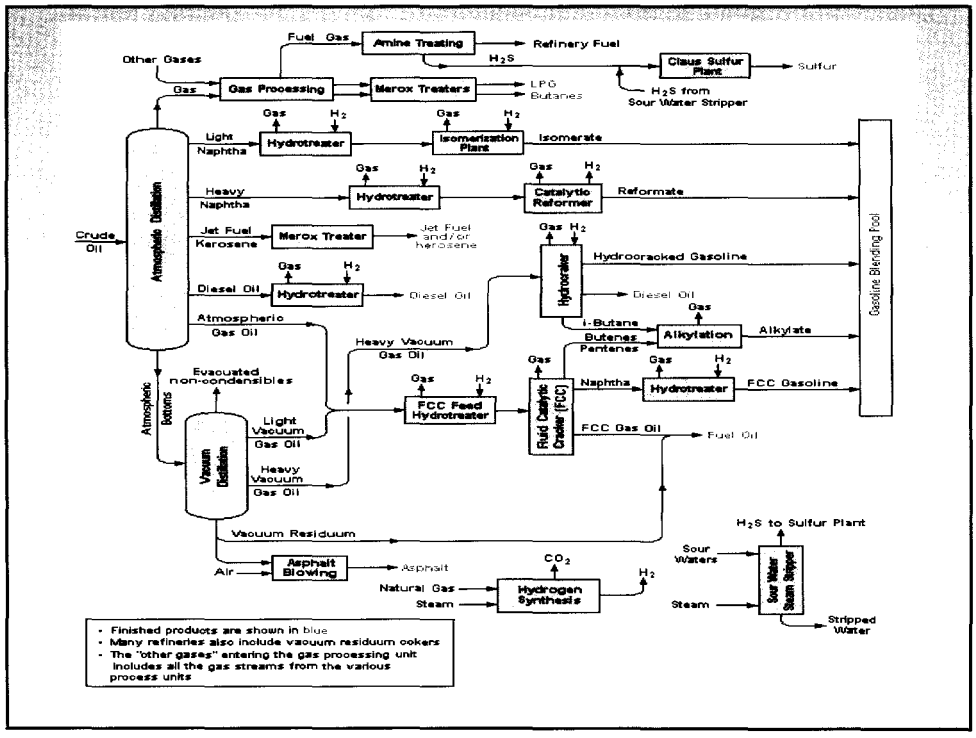


MAJOR REFINERY PRODUCTS

- **Gasoline.** The most important refinery product is motor gasoline, a blend of hydrocarbons with boiling ranges from ambient temperatures to about 400 °F. The important qualities for gasoline are octane number (antiknock), volatility (starting and vapor lock), and vapor pressure (environmental control). Additives are often used to enhance performance and provide protection against oxidation and rust formation.
- **Kerosene.** Kerosene is a refined middle-distillate petroleum product that finds considerable use as a jet fuel and around the world in cooking and space heating. When used as a jet fuel, some of the critical qualities are freeze point, flash point, and smoke point. Commercial jet fuel has a boiling range of about 375°-525° F, and military jet fuel 130°-550° F. Kerosene, with less-critical specifications, is used for lighting, heating, solvents, and blending into diesel fuel.
- **Liquified Petroleum Gas (LPG).** LPG, which consists principally of propane and butane, is produced for use as fuel and is an intermediate material in the manufacture of petrochemicals. The important specifications for proper performance include vapor pressure and control of contaminants.
- **Distillate Fuels.** Diesel fuels and domestic heating oils have boiling ranges of about 400°-700° F. The desirable qualities required for distillate fuels include controlled flash and pour points, clean burning, no deposit formation in storage tanks, and a proper diesel fuel cetane rating for good starting and combustion.

Refinery Products - Continued

Residual Fuels. Many marine vessels, power plants, commercial buildings and industrial facilities use residual fuels or combinations of residual and distillate fuels for heating and processing. The two most critical specifications of residual fuels are viscosity and low sulfur content for environmental control.

Coke and Asphalt. Coke is almost pure carbon with a variety of uses from electrodes to charcoal briquets. Asphalt, used for roads and roofing materials, must be inert to most chemicals and weather conditions.

Solvents. A variety of products, whose boiling points and hydrocarbon composition are closely controlled, are produced for use as solvents. These include benzene, toluene, and xylene.

Petrochemicals. Many products derived from crude oil refining, such as ethylene, propylene, butylene, and isobutylene, are primarily intended for use as petrochemical feedstock in the production of plastics, synthetic fibers, synthetic rubbers, and other products.

Lubricants. Special refining processes produce lubricating oil base stocks. Additives such as demulsifiers, antioxidants, and viscosity improvers are blended into the base stocks to provide the characteristics required for motor oils, industrial greases, lubricants, and cutting oils. The most critical quality for lubricating oil base stock is a high viscosity index, which provides for

Why Some Refiners do not Treat Spent Caustic in the WWTP*

1. **Organic content can be quite large and vary in concentration. COD can be over 600,000 ppm. This can overload the WWTP**
2. **Phenols and cresols that are present in significant concentrations typically have very low discharge limits. Often less than 1 ppm.**
3. **Odor from spent caustic can be a significant problem in sensitive areas.**
4. **Sodium Naphthenate is a very effective soap that can cause fouling of equipment, stable emulsions reducing skimming efficiencies, and problems with the drying of the sludge generated from the WWTP.**
5. **Expansion of WWTP can cost tens of millions of dollars. New permits for expansion may be difficult to obtain.**

* WWTP = Waste Water Treating Plant

Refinery Options for Spent Caustic

- Treat internally in own WWTP – Most economical if in place. New WWTP for refineries and chemical plants cost over 10 million dollars.
- Purchase treating equipment – Oxidizers- Cost is typically over 5 million dollars for this type of equipment. Merichem and Zimpro are the largest suppliers of this type of technology.
- Send off site for incineration – High costs, goes out as waste.
- Deep well injection – Intermediate cost, however not all caustics can be injected easily.
- Sending off-site for reuse as pulping chemical or other approved use.

Why Refiners Caustic Treat

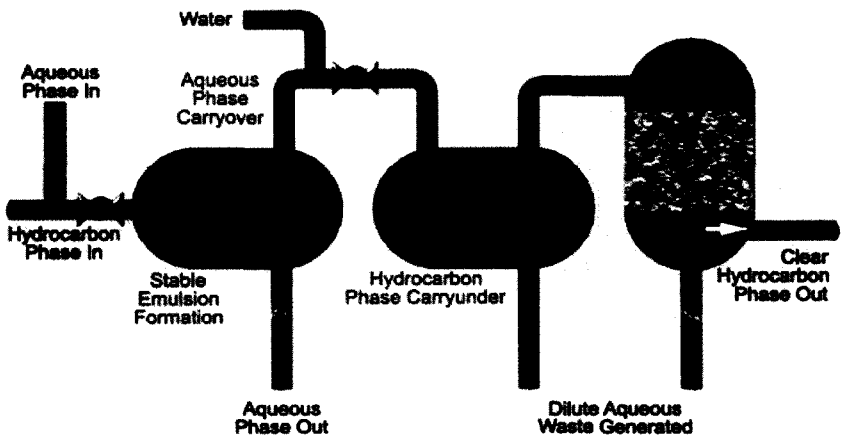
1. **Reduce Hydrogen Sulfide Content- Refiners usually treat LPG and light naphtha with 10 to 15% caustic. If the concentration of hydrogen sulfide is very high, refiners will typically treat with amines instead of caustic since they can be regenerated more easily.**
2. **Reduce acidity of Kerosene– Dilute caustic extraction (~2° to 8°Be) typically reduces acidity to less than 0.03 mg KOH/g. Strong caustic can not be used in higher TAN applications due to stable emulsion formation when strong caustic reacts with naphthenic acid.**
3. **Reduce Mercaptan Content – Stronger Caustic (generally 15° to 25°Be mixed with a cobalt catalyst) reduces the mercaptan content to help meet mercaptan specifications and pass Doctor tests.**
4. **Reduce Corrosion - In some cases, caustic treating is needed to pass either silver strip or copper strip tests.**
5. **Most Cost Effective - Caustic treating is the most cost effective method to reduce acidity and mercaptan content. Caustic treating is typically 1/10 the cost of hydrotreating. Typical hydrotreaters cost 20 to 50 Million dollars. Caustic treaters cost 2 to 4 Million dollars.**

Types of Caustic Treaters

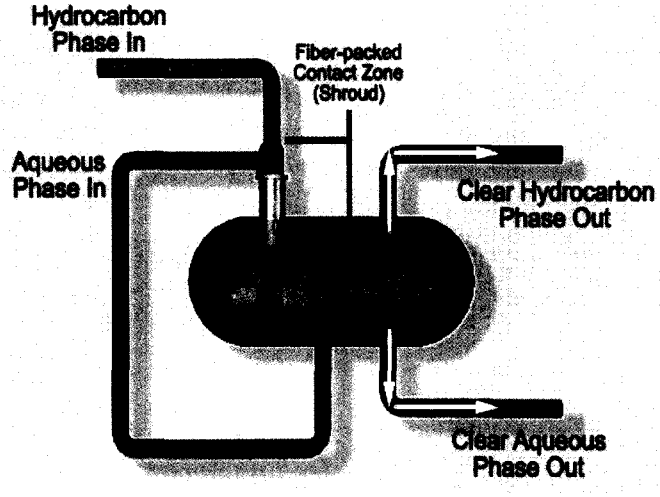
There are three major types of caustic treaters:

1) Merichem Fiber-Film Treaters – Uses proprietary fiber technology as the mixing device. Caustic strength is usually higher when compared to Merox Treaters. Most treaters sold today are Merichem treaters.
2) UOP Merox treaters- Uses mix valve technology. Typically caustic strength is lower in caustic concentration. This technology was very popular years ago. Many Merox treaters are still being used.
3) In house caustic treaters – Comes in all shapes and sizes. Developed by the plant or third party engineering companies.

Typical Caustic Treater

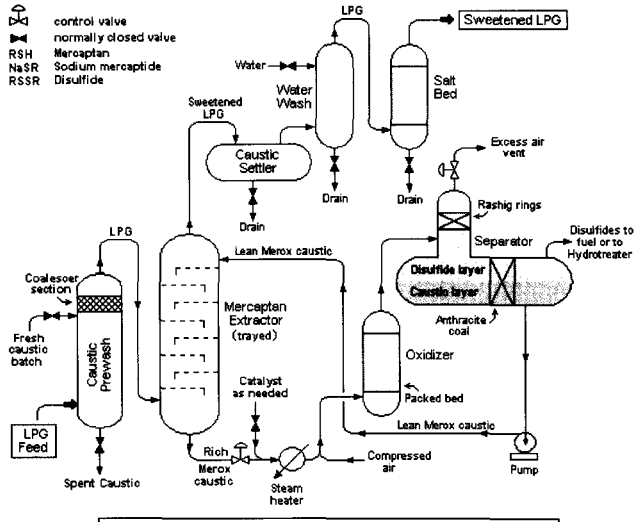


Typical Merichem Fiber-film Unit



Merox Treater

- **Merox™** is an acronym for mercaptan (thiol) oxidation. It is a proprietary catalytic chemical process developed by Universal Oil Products (UOP) and used in oil refineries and natural gas processing plants to remove mercaptans from LPG, propane, butanes, light naphthas, kerosene and jetfuel by converting them to liquid hydrocarbon disulfides.
- The Merox process requires an alkaline environment which, in some of the process versions, is provided by an aqueous solution of sodium hydroxide (NaOH), a strong base, commonly referred to as *caustic*.
- The catalyst (cobalt based) in some versions of the process is a water-soluble liquid. In other versions, the catalyst is impregnated onto charcoal granules.
- Processes within oil refineries or natural gas processing plants that remove mercaptans and/or hydrogen sulfide (H_2S) are commonly referred to as *sweetening* processes because they results in products which no longer have the sour, foul odors of mercaptans and hydrogen sulfide. The liquid hydrocarbon disulfides may remain in the sweetened products, they may be used as part of the refinery or natural gas processing plant fuel, or they may be processed further.
- The Merox process is usually more economical than using a catalytic hydrodesulphurization process for much the same purpose.



CHEMICAL REACTIONS IN LPG MEROX TREATING

Caustic Prewash:
$NaOH + H_2S \rightarrow NaSH + H_2O$

Extraction:
$2RSH + 2NaOH \rightarrow 2NaSR + 2H_2O$

Overall Mercaptan Conversion:
$4RSH + O_2 \rightarrow 2RSSR + 2H_2O$

Regeneration:
$4NaSR + O_2 + 2H_2O \rightarrow 2RSSR + 4NaOH$

Spent Caustic Composition

Sodium Hydroxide- Residual amount of sodium hydroxide are typical in most spent caustics. Concentrations vary from 2 to 30 wt%.

Sodium Sulfide- Produced from the reaction with Hydrogen Sulfide (H2S) from light distillates or vent gas scrubbing.
$H_2S + 2\ NaOH \rightarrow Na_2S + 2\ H_2O$

Sodium Phenolate and Cresylate – Produced from the reaction with phenol and cresylic acid. These compounds are formed in refinery FCC unit. This type of caustic is generally referred to as **Cresylic** or **Phenolic Caustic.**

Sodium Carbonate – This is primarily produced from vent gas scrubbing of CO_2
$CO_2 + H_2O \rightarrow H_2CO_3$
$H_2CO_3 + 2\ NaOH \rightarrow Na_2CO_3 + 2\ H_2O$

Composition (Continued)

Sodium Mercaptide- This compound is formed from the reaction with mercaptans (thiols).
$RSH + NaOH \rightarrow RSNa + H_2O$

Sodium Naphthenates - Produced from the reaction with naphthenic acid. This caustic is produced from the caustic treating of jet fuel, kerosene, or diesel. This type of caustic is referred to as **Naphthenic Caustic.**

$RCOOH + NaOH \rightarrow RCOONa + H_2O$

Dissolved Organics- Organics are often soluble in various concentrations in spent caustics.

Amines (DEA, MEA etc.)- Amines are often found in spent caustics in concentrations of 0 to 15 wt%. Amines are often found in processes is often found where Amine treating upstream of caustic treating. This is most common where Amines are used to treat LPG where there is carryover to a caustic polishing unit.

Typical Characteristics of Refinery Spent Sulfidic and Phenolic Caustic

Parameter	Range
pH	>12
Total Organics	0 to 5 wt.%
Sodium Hydroxide	1 to 20 wt. %
Sodium Sulfide	0 to 10 wt. %
Sodium Carbonate	0 to 10 wt.%
Phenols / Cresols	1 to 10 wt.%
COD	5,000 to >200,000 ppm
Sulfur compounds	0 to 3 wt.%

Typical Characteristics of Refinery Naphthenic Caustic

Parameter	Range
pH	>12
Total Organics	3 to 30 wt.%
Sodium Hydroxide	0.5 to 5 wt. %
Naphthenic Acid	1 to 20 wt. %
Phenols / Cresols	1 to 10 wt.%
COD	50,000 to >600,000 ppm
Sulfur compounds	0 to 3 wt.%

Typical Characteristics of Ethylene Caustic

Parameter	Range
pH	>12
Total Organics	1 to 2 wt.%
Sodium Hydroxide	1 to 5 wt. %
Sodium Carbonate	1 to 5 wt. %
Phenols / Cresols	0 wt.%
COD	20,000 to >60,000 ppm
Sulfur compounds	0 to 3 wt.%

Chemical Reactions

$$CO_2 + 2NaOH \rightarrow Na_2CO_3 + 2H_2O \quad (1)$$

Carbon Dioxide

$$H_2S + 2NaOH \rightarrow Na_2S + H_2O \quad (2)$$

Hydrogen Sulfide

$$RSH + NaOH \rightarrow RSNa + H_2O \quad (3)$$

Mercaptan Sulfur

$$RCOOH + NaOH \rightarrow RCOONa + H_2O \quad (4)$$

Naphthenic Acid

Kraft Mill Overview

The Kraft Process

- The **Kraft process** (also known as **Kraft pulping** or **sulfate process**) produces wood pulp which is almost pure cellulose fibers by using sodium hydroxide and sodium sulfide to extract the lignin from wood chips in large pressure vessels called digesters. Some digesters operate in a batch manner and some in a continuous process such as the Kamyr digester. Digesters producing 1,000 tones of pulp per day and more are common.
- The process name is derived from German *kraft*, meaning *strength/power*; both capitalized and lowercase names (*Kraft process* and *kraft process*) appear in the literature, but "kraft" is most commonly used in the pulp and paper industry. It was developed by Carl Dahl in 1879 and the first kraft mill started (in Sweden) in 1890. The invention of the recovery boiler by G.H. Tomlinson in the early 1930s, was a milestone in the advancement of the kraft process. It enabled the recovery and reuse of the inorganic pulping chemicals such that a kraft mill is almost closed-cycle with respect to inorganic chemicals, apart from those used in the bleaching process. This was one of the reasons that in the 1940s the kraft process took over from the sulfite process as the dominant method for producing wood pulp
- Kraft pulp makes paper that is stronger than that made from any of the other pulping processes. The sulfite process degrades cellulose more than the kraft process and degraded cellulose makes weaker fibers. Kraft pulping removes most of the lignin present originally in the wood while the mechanical pulping processes leave most of the lignin in the fibers. The hydrophobic nature of lignin interferes with the formation of the hydrogen bonds between cellulose (and hemicellulose) in the fibers needed for the strength of paper (strength refers to tensile strength and resistance to tearing).
- Kraft pulp is darker than other wood pulps, but it can be bleached to make very white pulp. Fully bleached kraft pulp is used to make high quality paper where strength, whiteness and resistance to yellowing are important.

Pulping process

- Wood chips and white liquor, a mixture of sodium hydroxide and sodium sulfide, produced in the recovery process, are added to the top of the digester. In a continuous digester the materials are fed at a rate which allows the pulping reaction to be complete by the time the material exit the reactor. Typically this takes several hours and is done at high temperatures (130 to 180 °C (265 to 355 °F). These conditions break down lignin and some hemicelluloses and the fragments become soluble in the strongly basic liquid. The solid pulp (about 50% by weight based on the dry wood chips) is collected and washed. At this point the pulp is quite brown and is known as "brown stock". The combined liquids, known as black liquor (so called because of its color), contain lignin fragments, carbohydrates from the breakdown of hemicellulose, sodium carbonate, sodium sulfate and other inorganic salts.

Recovery process

- The black liquor is concentrated in multiple effect evaporator to 60% or even 80% solids ("heavy black liquor") and burned in the recovery boiler to recover the inorganic chemicals for reuse in the pulping process. Higher solids in the concentrated black liquor increases the energy and chemical efficiency of the recovery cycle, but also gives higher viscosity and precipitation of solids (plugging and fouling of equipment). The combustion is carried out such that sodium sulfate is reduced to sodium sulfide by the organic carbon in the mixture:

(CONTINUED)

Pulping Process (Continued)

1. $Na_2SO_4 + 2\ C \longrightarrow Na_2S + 2\ CO_2$ The molten salts ("smelt") from the recovery boiler are dissolved in water to give a solution of sodium carbonate and sodium sulfide, known as "green liquor". This liquid is mixed with calcium hydroxide to regenerate the white liquor used in the pulping process (Na_2S is shown since it is part of the green liquor, but does not participate in the reaction):

2. $Na_2S + 2\ Na_2CO_3 + Ca(OH)_2 \longrightarrow Na_2S + 2\ NaOH + CaCO_3$ Calcium carbonate precipitates from the white liquor and is recovered and heated in a lime kiln where it is converted to calcium oxide (lime).

3. $CaCO_3 \longrightarrow CaO + CO_2$ Calcium oxide (lime) is reacted with water to regenerate the calcium hydroxide used in Reaction 2:

4. $CaO + H_2O \longrightarrow Ca(OH)_2$ The combination of reactions 1 through 4 form a closed cycle with respect to sodium, sulfur and calcium.

The recovery boiler also generates high pressure steam which is led to turbogenerators, reducing the steam pressure for the mill use and generating electricity. A modern kraft pulp mill is more than self-sufficient in its electrical generation and normally will provide a net flow of energy to the local electrical grid.

Pineville Mill Example

Overview
Located in central Louisiana, 220 miles from New Orleans, the Pineville mill resides on a 1200-acre site, and produces unbleached kraft linerboard, fiber can stock, and kraft roll pulp.

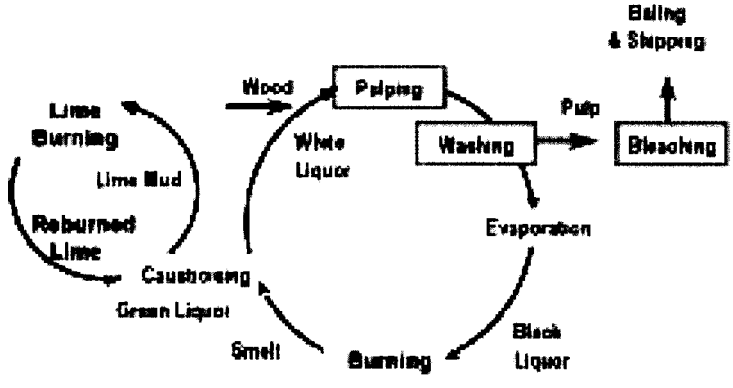
Production
Our Pineville mill is conveniently located near several major US gulf ports to ship overseas and domestically by rail and truck.

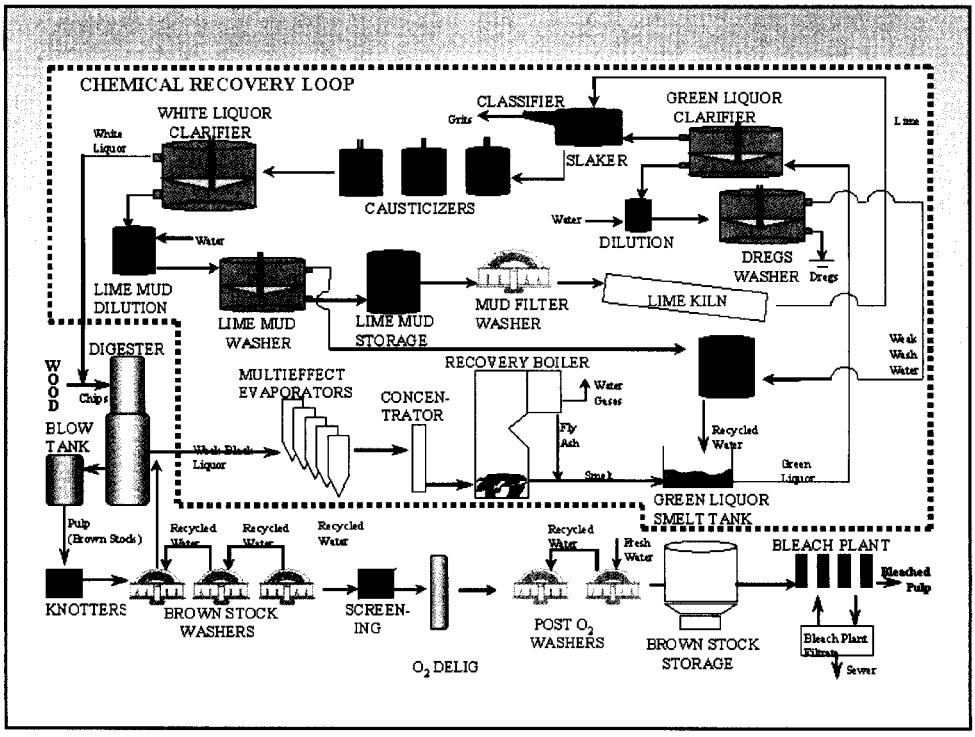
The mill uses 100% virgin southern pine-furnish. The long softwood fibers produce a linerboard with exceptional physical strength and a consistent print surface. The Pineville paper machine is 282 inches wide.

Environmental Stewardship
The Pineville mill is committed to balancing our business goals with conscientious stewardship of the environment.

Most recently, the mill was chosen to receive one of only seven statewide Governor's Awards for Outstanding Pollution Prevention Achievement for getting approval to market wood ash as a beneficial product that returns valuable nutrients to the soil. Other similar awards have been received in recent years, including company environmental excellence awards for innovative projects to conserve valuable landfill space and to restore industrial facilities back to their natural conditions.

Simplified Kraft Liquor Cycle



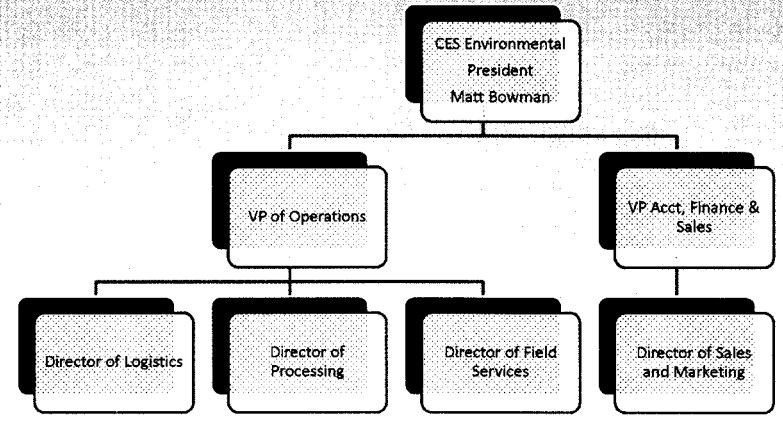


What Kraft Mills Want

- Sodium – Sodium – Sodium- The higher the concentration the better. Generally over 6% is desired. 5% sodium hydroxide content is considered a minimum.
- Sodium Sulfide – Most mills prefer caustic with low sodium sulfide content (less than 1%). However, some mills during different intervals want caustic with high sulfide content.
- Mills like caustic that is clear in color with little or no solids. They will make allowances for dark caustic, but can be sensitive to solids.

What Mills Don't Want

- Hydrocarbons – Mills are very sensitive to hydrocarbons. Hydrocarbons in their caustic tanks are a safety issue which could cause personal injury. This is the most important specification for spent caustic.
- Potassium and Chloride- Caustic should contain less than 200 ppm potassium. Chloride levels should be low. Potassium causes fouling on the reboiler. Potassium leads to unplanned shutdown of the reboiler which effectively shuts down the mill. Costs for a shutdown runs in the hundreds of thousands of dollars per occurrence.
- Solids- Visible solids are not allowed



Pulping Process

Purpose of cooking in chemical pulp production is to use chemicals and heat to remove fiber binding lignin so chips defibrate easily. Fibers containing cellulose are tried to keep as long, unbroken and strong as possible. Also wood extractives which can later cause foaming and precipitants in the process are tried to remove. Today sulfate cooking is the most commonly used pulp production method.

Chemicals which dissolve as much lignin and as little cellulose as possible are used in pulping. Sulfate process uses white liquor, a mixture of sodium hydroxide (NaOH) and sodium sulfide (Na2S). Sodium hydroxide degradates lignin and sodium sulfide fastens cooking reactions and decreases cellulose degradation caused by sodium hydroxide. Temperature in sulfate pulping is normally 150 - 170 °C.

Pulping (Continued)

Lignin amount left in fibers is expressed with a kappa number . Lignin causes pulp to turn brown during cooking. Because bleaching chemicals are much more expensive than cooking chemicals, as much as possible of the lignin is tried to remove during the cooking process. However, too extensive lignin removal causes cellulose degradation to increase. This decreases pulp strength and yield . Today, typical kappa number for pulp to be bleached is 14 - 20 for hardwood and 20 - 30 for softwood pulp. If the pulp is not beached, the kappa number after cooking will be much higher, typically 40 - 100. Pulp yield is typically 50 - 53% for hardwood and 46 - 49% for softwood.

Controllability and smoothness of the cooking process are requirements for succeeding of the following process phases. Digester plant faults reflect to other departments and cause changes for pulp properties such as strength, brightness and beatability changes, debris and brightness reversion.

Cooking Chemicals

- **White liquor** is a chemical mixture used in sulfate pulping. The effective chemicals of it are **sodium hydroxide** (NaOH) and **sodium sulfide** (Na2S). The concentration of those compounds in white liquor is expressed as **affecting** e.g. **active alkali** or **effective alkali** (g/l):
- **Black liquor** is white liquor which has reacted in digester and to which wood compounds have dissolved. Black color comes from lignin compounds colored by alkali and dissolved to liquor.
- Sodium hydroxide and sulfide are expressed in grams per liter of sodium hydroxide or sodium oxide (Na2O) equivalents. Practice is based on sodium contents of the compounds . Conversion factor from Na2O to NaOH is 1.29 and 0.775 in reverse direction .
- **Green liquor** is recovery boiler smelt dissolved to weak white liquor. In other words it is black liquor with organic incinerated. In addition other reactions have taken place, for example sodium sulfate has transformed to sodium sulfide. Green liquor is processed to white liquor in recaustizing plant.
- Sodium sulfide concentration in cooking liquor is expressed as **sulfidity** (%) . Sulfidity is usually on the level 35 - 45% in modern mills. **Reduction** (%) shows how completely the nearly inert sodium sulfate has been reduced to useful sodium sulfide. Reduction takes place in recovery boiler. **Causticity** (%) shows chemical efficiency of white liquor production (causticization). It shows how much inert sodium carbonate has been transformed to useful sodium hydroxide.

Total Alkali

Due to reaction balance during white liquor production the white liquor **concentration** is approximately 140 - 170 g/l active alkali as NaOH. White liquor includes also other sodium salts, such as sodium sulfate (Na2SO4) and sodium carbonate (Na2CO3) and small amounts of sulfites and chlorides. All sodium salts can be expressed as **total alkali** (TTA, titrating alkali, g/l). All sodium compounds are taken into account, such as sodium sulfate and carbonate. Large amounts of sulfate and carbonate in white liquor indicate malfunctions in recovery boiler or recausticizing plant. Because sulfate and carbonate don't significantly participate in cooking processes, they are only unnecessary loads in chemical circulation. The white liquor contains also other substances not reacting in cooking, such as chlorides and calcium compounds. The amount of these so called inert materials depends greatly on mill chemical circulation, for example on white liquor filtration success.

EPAHO082000131

Sulfidity

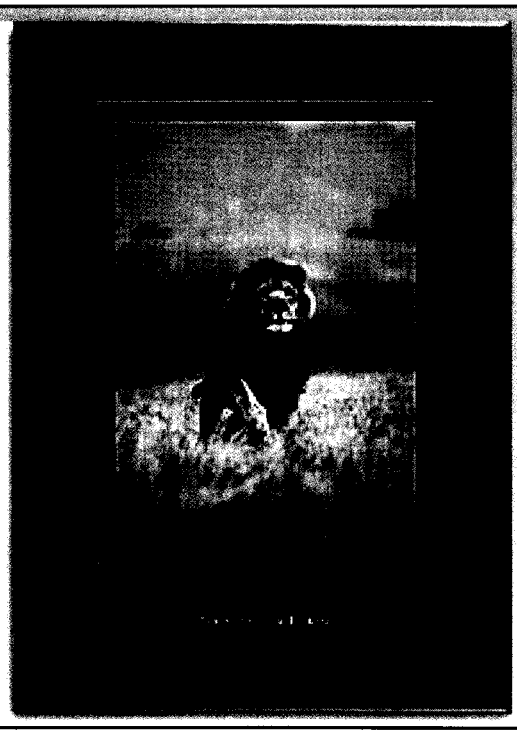
- Sulfidity is the molar ratio of sodium and sulfide ion. It is calculated by the following formula:

%S/%Na * 143 = % Sulfidity

Sulfidity less than 30 is considered low

Sulfidity over 100 is considered high

The maximum sulfidity of any solution is 200. As sulfidity approaches 200, care must be taken during transport and handling due to the possibility of hydrogen sulfide being present in the headspace.



Spent Caustic – Customer Spiel

Spent Caustics are produced from the contacting sodium hydroxide with hydrocarbons, gasses or chemical streams. The caustic is typically used to extract acidic species to meet quality specifications or emissions. Once the caustic has been used in the initial process, it still has usefulness in certain industries for the residual chemicals contained. The spent caustic when used directly as received, without reclamation, is a product and is ***not*** classified as a waste by the EPA. Specifically, under RCRA part 261.2(e)(1)(ii) "Materials that are not solid waste when ... Used or reused as effective substitutes for commercial products".

Customer Spiel (Continued)

CES has partnered with several large consumers in the paper industry which utilize the spent caustic as a direct substitute for other commercially available products. Namely, sodium hydroxide, potassium hydroxide, and or sodium sulfide. For years the paper industry has utilized spent caustic as an economical alternative to pulping chemicals.

The biggest challenge has always been is to match the highly variable production volume and quality from the producers with the highly variable requirements of the consumer. CES's network of suppliers, terminals, owned and operated equipment, and consumers are instrumental in matching supplies with demand. The end result is a cost effective solution for both suppliers and consumers.

Customer Spiel (Continued)

CES owes and operates an extensive transportation and terminal infrastructure. Our current fleet consists of over 40 tractors and 70 trailers each equipped with the latest in GPS tracking and monitoring. We can safely and responsibly transport your all type of spent caustics via CES owned and operated tank trucks. By owning our own equipment, we insure that all of the drivers/operators receive are properly trained and have all the required safety certification for the transportation and safe loading and unloading of spent caustic. For shipments by other modes, we provide transport by third party rail car, barge, or ocean-going tanker.

Visit Strategy

- Each Sales person get with G Lenertz and R Tafilaj to assign priority for assigned accounts. If RRT is not available, G Lenertz will cover.
- For refineries with contacts in place, call contact, skip to number 2 below.
- If no contact, ask reception personal:
  1. Does the site generate caustic /other? If so, who has the responsibility. Generally this will be in order of likelihood: Unit engineer, procurement, environmental, movements.
  2. Relate spiel of previous pages. Stress reliable non waste handling of caustic. All modes of transportation available.
  3. Ask for meeting. If not accepted, provide follow up email that summarizes services.

Pricing

Pricing is determined by overall quality and concentration of the spent caustics various constituents, the transportation modes, and overall quantity. The pricing of each caustic usually starts with getting a sample. Samples should be analyzed for the following:

- Caustic concentration
- Sulfide concentration
- Solids content
- Visual
- CES will gladly analyze and price each sample free of any obligation to ship. A one pint sample is sufficient.

EPAHO082000135

- Motiva (Norco, LA)
Juridic Caustic -

EPAHO0820000136

Dana Carter

From: Suzi Mock
Sent: Friday, March 06, 2009 7:22 AM
To: Dana Carter; Miles Root
Subject: Motiva Sample

Here are the results for the sample brought in yesterday evening from Motiva:

% NaOH 9.1
% sulfide .33
% carbonate .34
Specific gravity 1.08

Thanks,

Suzi

EPAHO082000137

10:

Janelle A Davis
Chemical & Catalyst
Procurement Representative

Nice
Comment

Shell Oil Products US
Contracting & Procurement
910 Louisiana St
Houston, TX 77002
Tel 713-241-4185
Fax 713-217-3343
Mobile 832-656-6842
Email Janelle.Davis@shell.com

,TERIAL SAFETY DATA SHEET
:view Date: 11/16/2006

:CTION 1 PRODUCT AND COMPANY IDENTIFICATION

:RODUCT: Sulfidic Caustic

SDS NUMBER: 402858MU - 0

LTERNATE PRODUCT NAMES OR SYNONYMS:Spent NaOH, Spent Sodium Hydroxide

ANUFACTURER ADDRESS: Motiva Enterprises LLC, P.O. Box 4540, Houston, TX. 7210-4540

'ELEPHONE NUMBERS
;pill Information: (877) 242-7400
iealth Information: (877) 504-9351
4SDS Assistance Number: (877) 276-7285

SECTION 2 PRODUCT/INGREDIENTS

CAS#	CONCENTRATION	INGREDIENTS
Mixture	100 %weight	Spent Sodium Hydroxide
7732-18-5	65 - 78.99 %weight	Water
1310-73-2	0.01 - 19.99 %weight	Sodium Hydroxide
5188-07-8	0.01 - 4.99 %weight	Sodium Mercaptide
Mixture	0.1 - 4.99 %weight	Sodium Sulfide

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Appearance & Odor: Cream white to clear liquid. Characteristic odor.
Health Hazards: Causes severe skin burns. May be harmful if absorbed through the skin. Causes severe eye burns. May be harmful or fatal if swallowed. Do not induce vomiting. May cause aspiration pneumonitis. Causes digestive tract burns.
NFPA Rating (Health, Fire, Reactivity): 3, 1, 0
Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

Route(s) of Exposure: Ingestion, Inhalation, Skin

Eye Irritation:
May be corrosive (causing chemical burns) and may result in permanent eye damage or blindness.

Skin Contact:
May be corrosive (causing chemical burns) which may result in permanent skin damage. Repeated contact with skin may cause persistent irritation or dermatitis. Slightly toxic and may be harmful if absorbed through the skin.

Ingestion:

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everely irritating to the mouth, throat and digestive system and may cause hemical burns which could result in permanent damage to the areas contacted. oxic and harmful if swallowed. Liquid can directly enter the lungs aspiration) when swallowed or vomited. Serious lung damage and possibly fatal hemical pneumonia (chemical pneumonitis) can develop if this occurs.

)ther Health Effects:
:efer to Section 11, Toxicological Information, for specific information on :he following effects:
)evelopmental Toxicity, Genotoxicity, Reproductive Toxicity

'rimary Target Organs:
:he following organs and/or organ systems may be damaged by overexposure to :his material and/or its components:
3lood/Blood Forming Organs, Respiratory System

3igns and Symptoms:
Irritation as noted above. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin); in severe cases death nay occur. Damage to blood-forming organs may be evidenced by: a) easy fatigability and pallor (RBC effect), b) decreased resistance to infection (WBC effect), c) excessive bruising and bleeding (platelet effect).

Aggravated Medical Conditions:
Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

For additional health information, refer to section 11.

SECTION 4 FIRST AID MEASURES

Skin:
Remove contaminated clothing, flush with large amounts of water for at least 15 minutes, by the clock, or longer depending on the concentration amount and duration of exposure. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Eye:
Immediately flush eyes with large amounts of water for at least 15 minutes (30 minutes if alkaline or basic material), by the clock, while holding eyelids open. Transport to nearest medical facility for additional treatment.

Ingestion:
DO NOT INDUCE VOMITING. DO NOT take internally. If victim is alert, rinse mouth and drink 1/2 to 1 glass of water to help dilute the material and call a doctor or poison control center. DO NOT GIVE LIQUIDS TO A DROWSY, CONVULSING OR UNCONSCIOUS PERSON. Keep the victim calm. If the victim is coughing, choking, bleeding from the mouth, is short of breath or has difficulty breathing or swallowing, transport to the nearest medical facility for additional treatment.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point [Method]: >200 °F/>93.33 °C

Extinguishing Media:

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Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.

Fire Fighting Instructions:
Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

Unusual Fire Hazards:
Material may ignite when preheated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures:
DANGER! CORROSIVE. Prevent all bodily contact with spilled material.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8. Full protective clothing and self-contained breathing apparatus.

Spill Management:
Shut off source of leak if safe to do so. Dike and contain spill. Neutralize contaminated area as appropriate for acid or base spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

Reporting:
U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity to the National Response Center at (800)424-8802.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures:
Do not breathe material. Keep container closed. Use only with adequate ventilation. Do not get in eyes, on skin or on clothing. Do not take internally. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Handling:
Surfaces that are sufficiently hot may ignite liquid material.

Storage:
Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

Keep liquid and vapor away from heat, sparks and flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors have dissipated. Use explosion-proof ventilation indoors and in laboratory settings.

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Sodium hydroxide ACGIH TLV Ceiling: 2 mg/m3
Sodium hydroxide OSHA PEL TWA: 2 mg/m3 Notation: Skin

EXPOSURE CONTROLS
Adequate ventilation to control airborne concentrations.

PERSONAL PROTECTION
Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

Eye Protection:
Chemical Goggles and Face Shield

Skin Protection:
Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by:
Natural rubber, or Neoprene, or Nitrile Rubber
Respiratory Protection:
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Types of respirator(s) to be considered in the selection process include:
For Mist: Air Purifying, R or P style NIOSH approved respirator.
Full face air supplied respirator if oxygen level is reduced below 19.5 %.
Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Cream white to clear liquid. Characteristic odor.
Substance Chemical Family: Refinery Stream
Appearance: Cream white to clear liquid.

Flash Point: > 200 °F

pH: > 12

Specific Gravity: 1.2 Approximate

Stability: Stable

pH: > 12

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SECTION 10 REACTIVITY AND STABILITY

Stability:
Material is stable under normal conditions.

Conditions to Avoid:
Avoid heat and open flames.

Hazardous Decomposition Products:

Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Unidentified organic compounds, Sodium Oxideand other unidentified organic compounds may be formed upon combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity
Dermal LDLo > 85 mg/kg(Rat) OSHA: Non-Toxic Based on components(s)
Eye Irritation OSHA: Corrosive Based on components(s)
Oral LD50 116 mg/kg(Rat) OSHA: Toxic Based on components(s)
Respiratory Irritation OSHA: Irritating Based on components(s)
Skin Irritation OSHA: Corrosive Based on components(s)
Carcinogenicity Classification
Spent Sodium Hydroxide
NTP: No IARC: No ACGIH: No OSHA: No
Developmental Toxicity
Sodium mercaptide did not cause adverse developmental effects at the highest tolerable oral doses in rats.

Genotoxicity
Sodium mercaptide was not genotoxic when evaluated using in vitro (test tube) assays. It was determined to be non-mutagenic in bacteria and did not damage chromosomes in cultured human lymphocytes. There was, however, some evidence of numerical aberrations (polyploidy) in the treated human cells. Sodium mercaptide did not induce micronuclei (chromosome damage) in mice at the highest tolerable oral dose.

Blood/Blood Forming Organs
Rats dosed orally with 45 mg/kg of sodium mercaptide in a screening study displayed evidence of damage to circulating red blood cells including decreased blood hemoglobin, lower blood cell count and volume and increased extramedullary hematopoeisis and hemosiderosis in the spleen.

Reproductive Toxicity
Sodium mercaptide did cause adverse reproductive effects at the highest tolerable oral doses in rats.

Respiratory System
Inhalation of mists containing Sodium hydroxide may cause irritation and inflammation of the respiratory system.

Sensitization
Sodium mercaptide did not produce allergic sensitization in guinea pigs following exposure to the highest possible non-irritant concentration.

Toxicokinetics
The acidic environment of the stomach may act on ingested sodium sulfide resulting in the formation of hydrogen sulfide. Sedation or even unconsciousness may result in extreme cases.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicity
The material is considered to be toxic to: Fish

SECTION 13 DISPOSAL CONSIDERATIONS

RCRA Information:

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

SECTION 14 TRANSPORT INFORMATION

US Department of Transportation Classification

Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s.
Technical Names (s):	Contains Sodium Hydroxide
Identification Number:	UN3267
Hazard Class/Division:	8 (Corrosive Materials)
Packing Group:	I

Emergency Response Guide #153

International Air Transport Association

Hazard Class/Division:	8 (Corrosive Materials)
Identification Number:	UN3267
Packing Group:	I
Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s.
Technical Name(s):	Sodium Hydroxide

International Maritime Organization Classification

Hazard Class/Division:	8 (Corrosive Materials)
Identification Number:	UN3267
Packing Group:	I
Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s.
Technical Name(s):	Sodium Hydroxide

SECTION 15 REGULATORY INFORMATION

FEDERAL REGULATORY STATUS

OSHA Classification:
Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Ozone Depleting Substances (40 CFR 82 Clean Air Act):
This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

Superfund Amendment & Reauthorization Act (SARA) Title III:
There are no components in this product on the SARA 302 list.

SARA Hazard Categories (311/312):
Immediate Health:YES Delayed Health:NO Fire:YES Pressure:NO Reactivity:NO

SARA Toxic Release Inventory (TRI) (313):
Sodium Hydroxide

Toxic Substances Control Act (TSCA) Status:
This material is listed on the EPA/TSCA Inventory of Chemical Substances.

Other Chemical Inventories:
Australian AICS, Canadian DSL, Chinese Inventory, European EINECS, Japan ENCS, Korean Inventory, Philippines PICCS,

State Regulation
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

New Jersey Right-To-Know Chemical List:
Sodium Hydroxide (1706) 100 %weight Environmental Hazard
Sodium Hydroxide (1310-73-2) 0.01 - 19.99 %weight Corrosive

Pennsylvania Right-To-Know Chemical List:
Sodium Hydroxide 100 %weight Environmental Hazard
Sodium Hydroxide (1310-73-2) 0.01 - 19.99 %weight Environmental Hazard

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SECTION 16 OTHER INFORMATION

Revision#: 0
Review Date: 11/16/2006
Revision Date: 07/17/2006
Revisions since last change (discussion): This Material Safety Data Sheet (MSDS) has been updated to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2003). We encourage you to take the opportunity to read the MSDS and review the information contained therein.

SECTION 17 LABEL INFORMATION

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READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

Sulfidic Caustic

DANGER!

May be harmful if absorbed through the skin. CORROSIVE TO EYES AND SKIN. CAUSES DIGESTIVE TRACT BURNS. TOXIC AND HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. The following organs and/or organ systems may be damaged by overexposure to this material and/or its components.

MAY CAUSE DAMAGE TO: Blood/Blood Forming Organs, Respiratory System
Refer to Section 11, Toxicological Information, for specific information on the following effects:
Developmental Toxicity, Genotoxicity, Reproductive Toxicity

Precautionary Measures:
Avoid heat and open flames. Do not take internally. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container closed when not in use. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

FIRST AID
Skin Contact: Remove contaminated clothing, flush with large amounts of water for at least 15 minutes, by the clock, or longer depending on the concentration amount and duration of exposure. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes (30 minutes if alkaline or basic material), by the clock, while holding eyelids open. Transport to nearest medical facility for additional treatment.
Ingestion: DO NOT INDUCE VOMITING. DO NOT take internally. If victim is alert, rinse mouth and drink 1/2 to 1 glass of water to help dilute the material and call a doctor or poison control center. DO NOT GIVE LIQUIDS TO A DROWSY, CONVULSING OR UNCONSCIOUS PERSON. Keep the victim calm. If the victim is coughing, choking, bleeding from the mouth, is short of breath or has difficulty breathing or swallowing, transport to the nearest medical facility for additional treatment.

FIRE

In case of fire, Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.
SPILL OR LEAK
Dike and contain spill. Shut off source of leak if safe to do so. Neutralize contaminated area as appropriate for acid or base spill.
FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

CONTAINS: Water, 7732-18-5; Sodium Hydroxide, 1310-73-2; Sodium Mercaptide, 5188-07-8; Sodium Sulfide, Mixture

NFPA Rating (Health, Fire, Reactivity): 3, 1, 0

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TRANSPORTATION

US Department of Transportation Classification

Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s.
Technical Names (s):	Contains Sodium Hydroxide
Identification Number:	UN3267
Hazard Class/Division:	8 (Corrosive Materials)
Packing Group:	I

Emergency Response Guide #153

Name and Address

Motiva Enterprises LLC
P.O. Box 4540
Houston, TX 77210-4540

ADMINISTRATIVE INFORMATION
MANUFACTURER ADDRESS: Motiva Enterprises LLC, P.O. Box 4540, Houston, TX. 77210-4540

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44834-12631-100R-11/16/2006

Caustic

Organizell

D. Carter

CES Environmental Services, Inc.

WASTE PROFILES FOR

STOLT-NEILSEN TRANSPORTATION, INC

CONTACT INFORMATION

Office: 713.676.1460
Fax: 713.676.1676

Dana Carter – Account Manager 713.748.9804

Marlin Moser – Business Manager 281.785.0764

Matt Bowman – President 713.826.1329

Dana Carter

From: Dana Carter
Sent: Monday, July 28, 2008 12:52 PM
To: Juan Almaguer (jalmaguer@sntg.com)
Subject: drum inventory

Juan – this is the inventory I have from last week. The yellow highlighted items are ones that need msds and/or profile.
Thanks!
Dana

Name of waste	Amount	Profile Number
~~Blasting Grit~~	~~12~~	~~CES 1095~~
MEA and TDI Mix	4	CES 2173
Acetic Acid PC1	1	NEED MSDS/PROFILE
Ammonium Sulfide	1	PCI 288032
Alkylamine	2	Still researching
MEA and MDI Mix CES	1	NEED MSDS/PROFILE
Sodium Bisulfites	3	CES 1047
M Creosol	1	PCI 257620
Trimethylpentadiamamine	1	NEED MSDS/PROFILE
Hexylmethyldiamine	1	PCI 257646

Depot
Filters - 1 drum
Paint Waste - 1

Dana Carter
Account Manager
CES Environmental Services Inc
Office: 713-676-1460
Cell: 713-748-9804
Fax: 713-676-1676

J.lara@stolt.com
713-676-6314

Stolt Trans
257602 - IIII
288032 - I
257646 - I
257620 - I
CES 1047 - III
257554 - II
257646 - I

2nd Drum
Profiles Needed:
Sulfuric Acid - I
MEA MDI - II
Isoprene - IIII
Alkylamine - II
MDI - I
Acetic Acid - I
Diethyl Ether - I
Trimethylpentadiamine - I
Zinc Calcium Bromide - I
Cyclohexylamine - I
Sodium Silicate - II
Xylenol - I

Name of waste	Amount	Profile Number	Company
Blasting Grit	12	CES 1095	Stolt Nielsen Depot
MEA and TDI Mix	4	CES 2173	Stolt Nielsen Transportation
Acetic Acid	1	NEED MSDS/PROFILE	Stolt Nielsen Transportation
Ammonium Sulfide	1	PCI 288032	Stolt Nielsen Transportation
Alkylamine	2	Still researching	Stolt Nielsen Transportation
MEA and MDI Mix	1	NEED MSDS/PROFILE	Stolt Nielsen Transportation
Sodium Bisulfites	3	CES 1047	Stolt Nielsen Transportation
M Creosol	1	PCI 257620	Stolt Nielsen Transportation
Trimethylpentadiamamine	1	NEED MSDS/PROFILE	Stolt Nielsen Transportation
Hexylmethyldiamine	1	PCI 257646	Stolt Nielsen Transportation

Stolt Drum Inventory 7-~~18~~ 21-08

632 3471

Paint Booth Filters – 2159

Blasting Grit – 1095 12 + 7? 12?

Universal Paint Waste – 288098

Napthalene – 257600

Mea – 4 ~~5~~ ~~4~~ 2619 ces 2173

Acetic Acid – 1

Ammonium Sulfide – 1
288032

Alkylamine – 2

– MDI w/ mea – 1

Sodium bisulfites – 3

In reason – 1

trimethylpentdiame (new) – 1

hexylmethyldiam – 1 HMD

– 1st FNSN tomorrow

– NH 18 NH
3 Oil Rec
1 liners
22

~~[illegible]~~ aon
Marlin about
tank/msds
wants price range

tr methyl
pentdiamine

Dana Carter

From: Matt Bowman
Sent: Wednesday, July 23, 2008 1:20 PM
To: Miles Root; Dana Carter
Cc: Matt Moser; Joe Camp; Gary Peterson; Prabhaker Thangudu
Subject: RE: Stolt Neilson Transportation Evaluation 0708-38

Follow Up Flag: Follow up
Flag Status: Flagged

Please be sure that the profile denotes that the containers were RCRA empty prior to beginning the cleaning process using the TDA

From: Miles Root
Sent: Wednesday, July 23, 2008 8:41 AM
To: Dana Carter
Cc: Matt Bowman; Matt Moser; Joe Camp; Gary Peterson; Prabhaker Thangudu
Subject: Stolt Neilson Transportation Evaluation 0708-38

The attached memo details the work on Stolt Nielson Transportation evaluation 0708-38.

Miles Root
Laboratory Research and Development Specialist
CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Cell: 832-607-6678
Fax: 713-748-8664

Dana Carter

From: Jamie Stieffel [jstieffel@pollutioncontrol.com]
Sent: Friday, May 11, 2007 10:46 AM
To: dcarter@cesenvironmental.com
Subject: Re: pricing

296307 is coded as "ND" at $0.65/lb with a $50/drum minimum, and 257621 is coded as "SF" at $85.00/drum.

I do not believe there were price increases on those.

Thanks,
Jamie

Sent from my BlackBerry Wireless Handheld

-----Original Message-----
From: Dana Carter <dcarter@cesenvironmental.com>
To: Jamie Stieffel
Sent: Fri May 11 10:59:08 2007
Subject: pricing

Jamie -
Can you tell me if profile #296307 or profile #257621 have changed pricing? I believe it may have from a letter I received but with so many price increases on this account I am getting myself confused!

Thanks!

Dana

Dana Carter, Account Manager

CES Environmental Services, Inc.

Office: 713-676-1460

Fax: 713-676-1676

Cell: 713-748-9804

dcarter@cesenvironmental.com

EPAHO082000154

Dana Carter

From: Gary Peterson
Sent: Thursday, October 16, 2008 2:36 PM
To: Morgan McCarley; Dana Carter; Ryan Thomas
Cc: Marlin Moser; Matt Moser; Joe Camp; Miles Root; Prabhaker Thangudu
Subject: Stolt Drum Profile, 1047; 10-16-2008

A load of three drums just came in on the 13th of this month and the profile was expired. The profile was recertified on the 13th.

This drum profile has 13 constituents in the components listed on the profile. The profile started out 3 years ago with 2 components. Slowly another component was added here and there. All components are pure products. There are 7 products listed in the components that are 0-100%. Not all of the products on the profile are compatible with one another. One of the components is a nitrate that should not process here. The drums process to the class 1 sludge box although the PFI does not state any processing information. Because of the potential compatibility issues both with the materials themselves and the potential for incompatibility with materials in the sludge box some of the constituents of this profile need to be removed. Also when the drums come they are not marked specifically to the material type so there is not any way to tell which of the 13 constituents the material really is.

Two of the drums here now appear to be a sodium sulfonate salt of sulfuric acid. The odor is strong, very acrid and cannot process to the sludge box. The other drum is difficult to tell what it is.

This profile needs to be reviewed again prior to another shipment.

Thanks.

Gary R. Peterson
Laboratory and Quality Assurance Manager
CES Environmental Services, Inc.
(832) 367-1383 (cellular)

Dana Carter

From: Dana Carter [dcarter@cesenvironmental.com]
Sent: Tuesday, May 15, 2007 3:19 PM
To: 'jalmaguer@sntg.com'
Subject: information you requested

Hi Juan!

I dropped in this morning but couldn't find you. How are the drums looking? I remember you telling me that you wanted to ship out another set around mid-May. Let me know if you need me to come by to get an inventory.

As for the TDI drums you asked about, the price did go up slightly. We will need to charge a minimum of $425/drum to cover our costs.

Also, your profile for your sludge box has expired. They did allow us to offload yesterday. Do you know when the last time you had analytical run on your sludge box? If it has been longer than 2 years, we will need to run new analytical.

Let me know when the best time is to stop by and discuss all this. Otherwise I will drop by early next week.

Talk to you soon!
Dana

Dana Carter, Account Manager
CES Environmental Services, Inc.
Office: 713-676-1460
Fax: 713-676-1676
Cell: 713-748-9804
dcarter@cesenvironmental.com

TDA Solid - $215/drm
Liquid - $210/drm

Chemtrade

Andy Anderson

409-835-6641

~~clinic facility~~

~~hard~~ copy for

folder

PCI
Pollution Control Industries

March 22, 2007

MATT BOWMAN
CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON, TX 77021

Dear Matt Bowman:

Pollution Control Industries wishes to inform you of a price increase on all waste profiles approved with process codes LY, SY, and NY: these represent various isocyanate streams. These streams are those that you either ship directly or that you manage for your customers. All streams carrying these process codes that are currently priced below $0.75/pound will be invoiced at $0.75/pound. All container minimums currently priced below $50.00 will be invoiced at $50.00.

Regrettably, we have received significant price increases from our end disposal outlets for material containing isocyanates (primarily incineration facilities) and have no choice but to pass some of this increase on to our customers. This price increase will be effective immediately.

Should you have any questions, please do not hesitate to contact your Salesperson or Customer Service Representative. As always, we appreciate your business! Thank you.

Sincerely,

John Newell
President and CEO

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219) 397-3951 FAX: (219) 397-6411
www.pollutioncontrol.com

4½¢ 275 3.65¢

25341 ~~22961~~ 11a

H061

257600
Waste Flammable Liquids, n.o.s., 3, UN 1993, II

~~06-162 Petroleum Distillate~~
~~06-165 Petroleum Distillate~~
5 ~~06-157 Cyclopentane~~
~~06-127 Dewatering aid~~
~~06-153 Resin + 77¢~~

~~25341~~ ~~11~~

25342 11a 1

H141

257612
Waste ~~Flammable Liquid~~ Toxic, inorganic, n.o.s., 6.1, UN 3287, III

~~06-152 glutaldehyde~~

25341 11b 1

H061

296285 ~~Waste~~
Waste Aniline, 6.1, UN1547, II, RQ
~~06-93 Nitroaniline~~

25343

H141

4 3

CES 1047

~~06-125 Benzaldehyde~~
~~0 ? Silicone~~
06-186 Alkylphenols
~~06-158 Bisulfites~~

Rhodiment 257599

Waste Corrosive Liquids, n.o.s., 8, UN1760, II

~~III~~

06-163

~~07168~~

~~06-166~~

~~07-167~~

~~06-164~~

~~06136~~

06122

~~06121~~

~~06120~~

~~06119~~

25341 (9) 11c

H061

TDA 2576416

25341 11d

Waste Flammable Liquids, Corrosive, nos, 3, UN 2924, II

(9)

~~06-181~~

~~06-188~~

~~06-182~~

~~06-189~~

~~06-183~~

~~06-184~~

~~06-185~~

~~06-180~~

~~06-179~~

H061

004-158 Bisulfates

Reactive Cyanides & Flash ask Marlin MEA drums? 3 11 blue label?
w/ TDI residue

2 ~~257600 2? 06162 Petroleum Distilate~~
~~2 06121 TDA~~
? ~~257600 2 06165(0) Pet Dist~~
~~3 06179 TDA~~ 30
~~1 07168 Rhodiment~~
~~1 06166 Rhodiment~~
~~1047 06124 benzaldehyde~~
~~1047 Silicone (6-19-06~~
06163
~~1 07167 Rhodiment~~ 9 Rhod
~~1 06164 Rhod~~ 2 Pet. Dis
06158 Bisulfites? 9 TDA
~~1 16136 Rhod~~
~~257600 06157 Cyclopentene~~
~~257600 06127 Dewatering and~~
~~296285 0693 Nitroaniline~~ big trailer
~~3 06180 TDA~~
~~257600 06153 Resin 777~~ - empty drums 10-15
~~1047 06186 alkyl phenols~~
~~1 06122 Rhodiment~~ - TIRES
~~1 06121 Rhod~~
~~1 06120 Rhod~~
~~1 06119 Rhod~~
~~257612 06152 Glutaraldehyde~~

1 label for drain sludge 1100
1 label 777-257600
1 label Ammonium Bisulfate 1047

Sodium Bisulfides 137 or 157

Stolt Drum Pick Up Summary

NON HAZ

Drum #	Contents	Profile #		
6/95	Ethyl Glycol	1047 Totals		
06-123	Benzyl Alcohol	1047	1047	10
06-111	Dissolvine	1047	1639	1
06-110	Dissolvine	1047	1100	1
06-113	Dissolvine	1047		12
06-112	Dissolvine	1047		
06-133	Infineum	1047		
06-134	Infineum	1047	257600	4
06-142	Coco Amine	1047	257646	1
06-143	Coco Amine	1047	288040	1
06-128	Dewatering	on hold	257619	1
06-127	Dewatering	on hold	288052	3
06-129	Dewatering	on hold	288184	5
06-130	Dewatering	on hold		15
06-132	Drain Sludge	1100		

21

Table

Haz

Drum #	Contents	Profile #
90	Mineral Spirits	257600
06-104	Pentane	257600
06-100	TDA	257646
06-126	Hydrazine	288040
06-108	Malaic	257619
06-116	Nitrophenol	288052
06-117	Nitrophenol	288052 Need approval
06-118	Nitrophenol	288052 Need approval
06-105	Dimethyl Disulfide	257600
06-106	Dimethyl Disulfide	257600
06-138	Molten Phenol	288184 Need approval
06-139	Molten Phenol	288184 Need approval
06-137	Molten Phenol	288184 Need approval
06-140	Molten Phenol	288184 Need approval
06-140	Molten Phenol	288184 Need approval
06-154	Ammonium Bisulfate	288053 ON HOLD

1047

257600
777 Flanna

Table

Recyclable

Drum #	Contents	Profile #
06-107	Hydrocarbon & water	1639

TX Waste Code Waste Desc. Profile#

Copy of profiles

Profile# Waste Desc. State Code EPA Code Price Cont Size Treatment

Transport Fees
Additional Fees

Every two weeks visit

This is the price sheet (Matt 9-22-04)

Job Estimate

Expense Item	Estimated Cost	Cost to Customer
Transportation by CES (to PCI)	-	$20 / drum
Disposal @ PCI	See Below	See Below
P-Listed Pesticides	$385 / drum	$485 / drum
Organic Corrosive Low pH (257599)	$100-140/drum	$225/drum
288001 = Acetonitrile	$45/drum	$85/drum
(257600) Flammable	See Below	See Below
Liquids	$45 / drum	$85 / drum
Sludges	$85 / drum	$145 / drum
Solids	$140 / drum	$215 / drum
Sodium Methylate	$1.50/lb	$1.95/lb
P-Cresol	$40 / drum	
(257619) Maleic Anhydride	Contingent upon water/BTU	cost plus add $100
Solvents and TDI	$75 / drum	175.00
2,4-D	$395 / drum	$495 / drum
Biphenyl	$140 / drum	$210 / drum
Non-RCRA / DOT Haz (Non-haz drums)	$45 / drum	$85 / drum
Pure TDI and Isocyanates		
(257646) Organic – Flammable & Corrosive (High pH)	$100 / drum	$210/drum
Transporation by CES (to Triad/Rineco)	$25 / drum	$25 / drum
Disposal @ Rineco	See Below	See Below
P-Listed Pesticides	$1.10 / lb	$480 / drum
Diethyl Sulfate (55 gal. drum)	$100 / drum	$170 / drum
Diethyl Sulfate (85 gal. drum)	$150 / drum	$210 / drum
Flammable	See Below	See Below
Liquids	$40 / drum	$80 / drum
Sludges	$75 / drum	$130 / drum
Solids	$140 / drum	$210 / drum
(if overpacked)	Extra $50 / drum	Extra $60 / drum
P-Cresol		
Maleic Anhydride		
TDI		
2,4-D		$490 / drum
Biphenyl	$1.10 / lb	$205 / drum
Non-RCRA / DOT Haz (Non-haz drums)		$80 / drum

* Overpacked drums are extra $50

Dana Carter

From: Dana Carter [dcarter@cesenvironmental.com]
Sent: Thursday, November 30, 2006 1:43 PM
To: 'jalmaguer@sntg.com'
Subject: paint booth filters

Juan –
I spoke with Matt about the analytical you gave me for the paint filters. In order to classify it as Class 2 (or Class 1) we need to run Volatiles, Semi Volatiles, and TCLP 11 metals (only 8 were run). Please let me know what you would like me to do.

Thanks
dana

Dana Carter, Account Manager
CES Environmental Services, Inc.
Office: 713-676-1460
Fax: 713-676-1676
Cell: 713-748-9804
dcarter@cesenvironmental.com

STOLT-NEILSEN WASTE STREAMS - Pricing

TABLE OF CONTENTS

Tab	TX Waste Code	Description of Waste	Profile #	CES Cost	Stolt's Price
1	0073203H	**Waste Flammable Liquids, N.O.S.**	257600	$45/drum	$85/drum
		Acrylic Acid	Sludge	$85/drum	$145/drum
		Alkenyl ester sulfide	Solid	$140/drum	$210/drum
		Butyl Acrylate			
		Butynediol			
		Cumene			
		Diallylamine			
		Dicyclopentadiene			
		Dimethyl Disulfide			
		Ethanol			
		Ethyl Acetate			
		Heavy Aromatic Hydrocarbons			
		Isopropanol amine			
		JEFF CAT BDMA			
		JEFF CAT DMCHA			
		JEFF CAT ZF-20			
		MCP 1652			
		Methy Methacrylate			
		N,N-Dimethylaniline			
		Naphthalene			
		OREPREP F-501			
		Polyester/Polystyrene resin			
		Propylene Oxide			
		Siloxane			
		Tetrahydrofuran			
		Trimethyl Benzene			
		Xylene			
2	0234119H	**Waste Hydrogen Peroxide, aqueous solutions**	288043	$1.40/lb $225 min	$1.70/lb
		Hydrogen Peroxide			

EPAHO082000168

3	0216279H	**Waste Analine** Analine	296285	$45/dm (135/dm)	$85/dm (255)
4	0037403H	**Waste Solids containing flammable liquid, n.o.s.** Phenylaldol	288038	$1.40/lb $225 min	
5	0235219H	**Waste Toludines liquid** O-Toluidine	288037	$395/drum	
6	0089219H	**Waste Acetonitrile** Acetonitrile	288001	$45/drum	
7	0234119H	**Waste Corrosive liquid,acidic, inorganic** Hydrochloric Acid Dodecylbenzene Sulfonic Acid	288042	$230/drum	
8	0089219H	**Waste Flammable Liquids, N.O.S.** TDI Pre-solve 777(monoether, acetone, pyrolodone)	257621	$75/drum	
9	0009212H	**Waste Toluene Diisocyanate** Toluene Diisocyanate Hexamethylene diisocyanate Basonat HI 100	296307	$.65 /lb $50 min	$250/drum
10	0217219H	**Waste Sodium Methylate** Sodium Methylate Sodium Sulfide Ammonium Polysulfide Solution	257554	$1.40/lb $225 min	
11	0116105H	**Waste Alkyl sulfonic acids, liquid** Dodecylbenzene Sulfonic Acid	288044	$100/drum	$225/drum
12	0115203H	**Hazardous Waste, Solid, N.O.S.** Biphenyl, Benzene	257606	$75/drum (140)	($210/drum)
13	0217219H	**Waste Corrosive liquids, N.O.S.** Diethyl Sulfate Rhodiment AT 88 Dodecylbenzene Sulfonic Acid	257599	$100/drum	$175/drum
14	0102208H	**Waste Cresols** P-Cresol	257620	$40/drum	

EPAHO082000169

15	0229219H	**Hazardous Waste, Liquid, N.O.S.** 2,4-D 2-Ethylhexyl Ester	257605	$395/drum	$495/drum
16	0230219H	**Waste Flammable Liquids, N.O.S.** Oxymyl Diesel Dupont "Vydate L" Insecticide/Nematicide Penncap-M Diesel	257598	$385/drum	
17	0080207H	**Waste Maleic Anhydride** Maleic Anhydride, Water	257619	*Contingent on btu/h2o	Cost plus $100
18	0234119H	**Waste Hydrazine Hydrate** Hydrazine Hydrate	288040	$1.40/lb $225 min	$1.65/dm
19	0233119H	**Waste Environmentally hazardous substances, liquids, n.o.s.** Sodium Sulfide Ammonium Polysulfide	288032	$1.40/lb $225 min	
20	0102208H	**Waste, Phenol, Molten** Lewatit/Phenol-Mischung	288184	$140/drum	$250/drum
21	00746061	**Waste Toxic Solid Inorganics** O-Nitrophenol Ammonium Bisulfate	288052	$0.65/lb	$0.90/lb
22	01891021	**Toxic Liquid, Inorganic, N.O.S.** 4,4'-Bipyridyl Parquat Concentrate 3 Tolcide P875 1,3 - phenylenediamine Acetochlor technical Tris-(2-chloro-1-methylethyhl) phosate 1,2,4-trichlorobenzene Eptam	257612	$45/drum	
23	0217219H	**Waste Flammable Liquids, Corrosive, N.O.S.** N-Octel Amine Methanol Amine Diethenol Amine Diethylene Triamine Methyl Dietheanolamine	257646	$100/drum	$210/drum

EPAHO082000170

		NORAM SC (Tallow Amine) Hexamethylenediamine Tallow Diamine Isophorone Diamine Tetraethylene pentamine Toluene Diamine TDA Dimethylamin Amino Butanol Hydrogen Peroxide			
24	**00785041**	**Waste Floor Drain Sludge**	**1100**	**$45/drum**	**$85/drum**
25	**00746061**	**Dicarbonic Acid** Proprietrary Adipic Acid	**1098**		
26	**00853192**	**Blasting Grit**	**1095**	**$45/drum**	**$85/drum**
27	**Recycle**	**Gasoline Water Mix**	**1639**	**$45/drum**	**$85/drum**
28	**00746061**	**Product heels** Dimethyl Sulphoxide Alkylphenol Corn Oil, Alkylbenzene, and Sulfolene Infineum C9302 Benzyl Alcohol Dissolvine Etheylene glycol Benzylaldehyde Coco Amine	**1047**	**$45/drum**	**$85/drum**

**Transportation - $20 per drum
**Overpack drums are an extra $50.00

EPAHO082000171

Rineco

819 Vulcan Road -- Haskell
P.O. Box 729, Benton, AR 72015
Office (501) 778-9089 Fax (501) 778-0201

Prepared by: Dana Carter-CES Environmental

FOR OFFICE USE ONLY
Account Rep:
Region:

I. WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the water for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name: Stolt-Neilsen Inc
Address: 16300 Dezavala Road
Channelview, TX 77530
USEPA I.D. No. TXD000326819
State I.D. No. 83712
Phone: 832-473-3285
Fax: 281-860-6307
Technical Contact: Dana Carter
Title: Agent for Generator
24 hour Emergency Contact: Dana Carter
24 hour Phone: 713-748-9804
Is this material located or generated in a foreign country? N
Foreign Address:

II. GENERAL INFORMATION

Material Name: Waste Toxic Solid Inorganics

- ☐ A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?
- ☐ B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?
- ☐ C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?
- ☐ D. Is waste a spent solvent as defined in 40 CFR 261.31 ?
- ☐ E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: removal of product heel from RCRA empty containers

Anticipated Monthly Volume: 1-4 drums
Bulk: ☐ Drum: ☒ Other: ☐ Explain:

III. MATERIAL COMPOSITION

Component	Concentration Min	Max	Actual	PPM
O-Nitrophenol	100			
Ammonium Bisulfate	100			

IV. PHYSICAL CHARACTERISTICS

Physical State: ☒ Solid ☐ Semi-Solid ☐ Liquid
Free Liquid: ☐ Yes ☒ No
Viscosity: ☐ Low ☐ Medium ☒ High
Layers: ☒ Single ☐ Bi-Layered ☐ Multi
Odor: ☐ None ☒ Mild ☐ Strong
Flash Point: ☐ < 73F ☐ 73F - 140F ☒ 140F - 200F ☐ > 200F
pH: ☐ < 2 ☒ > 12.5
Actual pH: N/D
Density: BTU: <3000

V. OTHER CHARACTERISTICS

- ☐ Explosive
- ☐ Dioxin
- ☐ Radioactive
- ☐ Shock Sensitive
- ☐ Sulfide
- ☐ PCB
- ☐ Etiological
- ☐ Cyanide
- ☐ Pyrophoric
- ☐ Water Reactive

VI. SHIPPING INFORMATION

DOT Hazardous Material [X] Yes [ ] No ER Guide Page #- _____

Proper Shipping name: Waste Toxic Solid Inorganics

Hazard Class and Division: 6.1 UN or NA: 1663 Packaging Group: III

[X] Yes [ ] No If Yes: 100 lbs Special Provisions: _____

USEPA HAZARDOUS WASTE: [X] Yes [ ] No

Waste I.D. Numbers: 00746061-State Waste Code

VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24.

Check only if waste exceeds regulatory threshold levels and include analytical date if available.

Constituent	Regulatory TCLP Total Know- *level PPM PPM PPM* ledge	Constituent	Regulatory TCLP *level PPM PPM*	Total Know- *ppM* ledge
D004 Arsenic	5.000	D024 m-Cresol	200.000	
D005 Barium	100.000	D025 p-Cresol	200.000	
D006 Cadmium	1.000	D026 Cresol	200.000	
D007 Chromium	5.000	D027 1,4,Dichlorobenzene	7.500	
D008 Lead	5.000	D028 1,2,Dichloroethane	0.500	
D009 Mercury	0.200	D029 1,1 Dichloroethylene	0.700	
D010 Selenium	1.000	DO30 2,4 Dinitrotoluene	0.130	
DO11 Silver	5.000	D031 Heptachlor	0.010	
DO12 Edrin	0.020	D032 Hexachlorobenzene	0.130	
DO13 Lindane	0.400	D033 Hexachlorobutadiene	0.500	
DO14 Methoxychlor	10.000	D034 Hexachloroethane	3.000	
D015 Toxaphene	0.500	D035 Methyl Ethyl Ketone	200.000	
DO16 2,4 Dichlorophenoxyacetic ac	10.000	D036 Nitrobenzene	2.000	
/ 2,4,5 TP Silvex	1.000	DO37 Pentachlorophenol	100.000	
D018 Benzene	0.500	DO38 Pyridine	5.000	
DO19 Carbon Tetrachloride	0.500	DO39 Tetrachloroethylene	0.700	
D020 Chlordane	0.030	D040 Trichloroethylene	0.500	
D021 Chlorobenzene	100.000	DO41 2,4,5 Trichlorophenol	400.000	
D022 Chloroform	6.000	DO42 2,4,6 Trichlorophenol	2.000	
D023 o-Cresol	200.000	D043 Vinyl Chloride	0.200	

V111. Benzene Waste Operations NESHAP Generator Certification. Complete only if DO18 and/or UO19 appear in section VI (shipping information).

	Yes	No
1. Is this waste generated by an industry with any of the following SIC Codes: 2911,2800-2899,3312 or 4953?	[ ]	[X]
2. Does this stream have Benzene concentration of 10 ppm or more?	[ ]	[X]
3. Does this stream contain greater than 10% moisture?	[ ]	[X]
4. Is this company's Total Annual Benzene (TAB) of 10 Mg or greater per year?	[ ]	[X]

AUTHORIZATION TO CORRECT WASTE MATERIAL PROFILE SHEET: In the event Rineco determines that it is necessary to make corrections on this Waste Material Profile Sheet to make the information herein consistent with the results of the sample characterization and/or applicable federal and state statutes and regulations. Rineco will contact the Generator and receive oral authorization to make such corrections. Generator [X] does [ ] does not hereby authorize Rineco to make such changes pursuant to this paragraph.

GENERATOR CERTIFICATION: THIS CERTIFICATION IS REQUIRED FOR EACH PROFILE.

This above information is to be held confidential and is true and accurate to the best of my knowledge.

Signature: _____ Date: July 6, 2006

Print Name: Dana Carter Title Agent for Generator

Rineco

819 Vulcan Road -- Haskell
P.O. Box 729, Benton, AR 72015
Office (501) 778-9089 Fax (501) 778-0201

Prepared by: Dana Carter

FOR OFFICE USE ONLY
Account Rep:
Region:

I. WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the water for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name: Stolt-Neilsen Inc
Address: 16300 Dezavala Road
Channelview, TX 77530
USEPA I.D. No. TXD000326819
State I.D. No. 83712
Phone: 832-473-3285
Fax: 281-860-6307
Technical Contact: Dana Carter
Title: Agent for Generator
24 hour Emergency Contact: Dana Carter
24 hour Phone: 713-748-9804
Is this material located or generated in a foreign country? N
Foreign Address:

II. GENERAL INFORMATION

Material Name: Molten Phenol

- ☐ A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?
- ☐ B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?
- ☐ C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?
- ☐ D. Is waste a spent solvent as defined in 40 CFR 261.31 ?
- ☐ E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: removal of product heel from RCRA empty containers

Anticipated Monthly Volume: 1-4 drums
Bulk: ☐ Drum: ☒ Other: ☐ Explain:

III. MATERIAL COMPOSITION

Component	Concentration Min	Max	Actual	PPM
Lewatit/Phenol-Molten	0-100			

IV. PHYSICAL CHARACTERISTICS

Physical State: ☒ Solid ☒ Semi-Solid ☐ Liquid
Free Liquid: ☐ Yes ☒ No
Viscosity: ☐ Low ☒ Medium ☒ High
Layers: ☐ Single ☐ Bi-Layered ☒ Multi
Odor: ☐ None ☐ Mild ☒ Strong
Flash Point: ☐ < 73F ☐ 73F - 14OF ☒ 14OF - 20OF ☐ > 20OF
pH: ☒ < 2 ☐ > 12.5
Actual pH: N/D
Density: BTU: <3000

V. OTHER CHARACTERISTICS

- ☐ Explosive
- ☐ Dioxin
- ☐ Radioactive
- ☐ Shock Sensitive
- ☐ Sulfide
- ☐ PCB
- ☐ Etiological
- ☐ Cyanide
- ☐ Pyrophoric
- ☐ Water Reactive

VI. SHIPPING INFORMATION

DOT Hazardous Material [X] Yes [ ] No ER Guide Page #- _____

Proper Shipping name: Waste Phenol, Molten

Hazard Class and Division: 6.1 UN or NA: 2312 Packaging Group: II

[X] Yes [ ] No If Yes: 1000 lbs Special Provisions: _____

USEPA HAZARDOUS WASTE: [X] Yes [ ] No

Waste I.D. Numbers: U188

(State waste code - 01022208H

VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24. Check only if waste exceeds regulatory threshold levels and include analytical date if available.

Constituent	Regulatory TCLP level	Total Know-ledge PPM	Constituent	Regulatory TCLP level	Total Know-ledge PPM
D004 Arsenic	5.000		D024 m-Cresol	200.000	
D005 Barium	100.000		D025 p-Cresol	200.000	
D006 Cadmium	1.000		D026 Cresol	200.000	
D007 Chromium	5.000		D027 1,4,Dichlorobenzene	7.500	
D008 Lead	5.000		D028 1,2,Dichloroethane	0.500	
D009 Mercury	0.200		D029 1,1 Dichloroethylene	0.700	
D010 Selenium	1.000		DO30 2,4 Dinitrotoluene	0.130	
DO11 Silver	5.000		D031 Heptachlor	0.010	
DO12 Edrin	0.020		D032 Hexachlorobenzene	0.130	
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DO16 2,4 Dichlorophenoxyacetic ac	10.000		D036 Nitrobenzene	2.000	
/ 2,4,5 TP Silvex	1.000		DO37 Pentachlorophenol	100.000	
D018 Benzene	0.500		DO38 Pyridine	5.000	
DO19 Carbon Tetrachloride	0.500		DO39 Tetrachloroethylene	0.700	
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D022 Chloroform	6.000		DO42 2,4,6 Trichlorophenol	2.000	
D023 o-Cresol	200.000		D043 Vinyl Chloride	0.200	

V111. Benzene Waste Operations NESHAP Generator Certification. Complete only if DO18 and/or UO19 appear in section VI (shipping information).

	Yes	No
1. Is this waste generated by an industry with any of the following SIC Codes: 2911,2800-2899,3312 or 4953?	[ ]	[X]
2. Does this stream have Benzene concentration of 10 ppm or more?	[ ]	[X]
3. Does this stream contain greater than 10% moisture?	[ ]	[X]
4. Is this company's Total Annual Benzene (TAB) of 10 Mg or greater per year?	[ ]	[X]

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This above information is to be held confidential and is true and accurate to the best of my knowledge.

Signature Dana Carter Date: July 6, 2006

Print Name: Dana Carter Title Agent for Generator

STOLT-NEILSEN WASTE STREAMS

TABLE OF CONTENTS

Tab	TX Waste Code	Description of Waste	Profile Number
1	0073203H	**Waste Flammable Liquids, N.O.S.** Acrylic Acid Alkenyl ester sulfide Butyl Acrylate Butynediol Cumene Diallylamine Dicyclopentadiene Dimethyl Disulfide Ethanol Ethyl Acetate Heavy Aromatic Hydrocarbons Isopropanol amine JEFF CAT BDMA JEFF CAT DMCHA JEFF CAT ZF-20 MCP 1652 Methy Methacrylate N,N-Dimethylaniline Naphthalene OREPREP F-501 Polyester/Polystyrene resin Propylene Oxide Siloxane Tetrahydrofuran Trimethyl Benzene Xylene	257600
2	0234119H	**Waste Hydrogen Peroxide, aqueous solutions** Hydrogen Peroxide	288043
3	0216279H	**Waste Analine** Analine	296285
4	0037403H	**Waste Solids containing flammable liquid, n.o.s.** Phenylaldol	288038
5	0235219H	**Waste Toludines liquid** O-Toluidine	288037
6	0089219H	**Waste Acetonitrile** Acetonitrile	288001

Petroleum Distillate

Cyclopentane

Dewatering Aid

Pentane Blend

7	0234119H	**Waste Corrosive liquid,acidic, inorganic** Hydrochloric Acid Dodecylbenzene Sulfonic Acid	288042
8	0089219H	**Waste Flammable Liquids, N.O.S.** TDI Pre-solve 777(monoether, acetone, pyrolodone)	257621
9	0009212H	**Waste Toluene Diisocyanate** Toluene Diisocyanate Hexamethylene diisocyanate Basonat HI 100	296307
10	0217219H	**Waste Sodium Methylate** Sodium Methylate Sodium Sulfide Ammonium Polysulfide Solution	257554
11	0116105H	**Waste Alkyl sulfonic acids, liquid** Dodecylbenzene Sulfonic Acid	288044
12	0115203H	**Hazardous Waste, Solid, N.O.S.** Biphenyl, Benzene	257606
13	0217219H	**Waste Corrosive liquids, N.O.S.** Diethyl Sulfate Rhodiment AT 88 Dodecylbenzene Sulfonic Acid	257599
14	0102208H	**Waste Cresols** P-Cresol	257620
15	0229219H	**Hazardous Waste, Liquid, N.O.S.** 2,4-D 2-Ethylhexyl Ester	257605
16	0230219H	**Waste Flammable Liquids, N.O.S.** Oxymyl Diesel Dupont "Vydate L" Insecticide/Nematicide Penncap-M Diesel	257598
17	0080207H	**Waste Maleic Anhydride** Maleic Anhydride, Water	257619
18	0234119H	**Waste Hydrazine Hydrate** Hydrazine Hydrate	288040
19	0233119H	**Waste Environmentally hazardous substances, liquids, n.o.s.** Sodium Sulfide Ammonium Polysulfide	288032
20	0102208H	**Waste, Phenol, Molten** Lewatit/Phenol-Mischung	288184
21	00746061	**Waste Toxic Solid Inorganics** O-Nitrophenol Ammonium Bisulfate	288052

22	01891021	**Toxic Liquid, Inorganic, N.O.S.** 4,4'-Bipyridyl Parquat Concentrate 3 Tolcide P875 1,3 - phenylenediamine Acetochlor technical Tris-(2-chloro-1-methylethyhl) phosate 1,2,4-trichlorobenzene Eptam	257612
23	0217219H	**Waste Flammable Liquids, Corrosive, N.O.S.** N-Octel Amine Methanol Amine Diethenol Amine Diethylene Triamine Methyl Dietheanolamine NORAM SC (Tallow Amine) Hexamethylenediamine Tallow Diamine Isophorone Diamine Tetraethylene pentamine Toluene Diamine TDA Dimethylamin Amino Butanol Hydrogen Peroxide	257646
24	00785041	**Waste Floor Drain Sludge**	1100
25	00746061	**Dicarbonic Acid** Proprietrary Adipic Acid	1098
26	00853192	**Blasting Grit**	1095
27	Recycle	**Gasoline Water Mix**	1639
28	00746061	**Product heels** Dimethyl Sulphoxide Alkylphenol Corn Oil, Alkylbenzene, and Sulfolene Infineum C9302 Benzyl Alcohol Dissolvine Etheylene glycol Benzylaldehyde Coco Amine	1047

Glutaraldehyde

29 Recycle Used Tires 1348

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

August 17, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielsen. We would like to amend the constituents to include Petroleum Distillate 0-100% on this profile. Attached are the MSDS for Petroleum Distillate. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana Carter
Authorized Agent for Stolt-Nielsen

Trans $28 - Final handling codes (PCI page for 2006)
Overpack drums are extra $50

STOLT-NEILSEN WASTE STREAMS

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6	0089219H	**Waste Acetonitrile** Acetonitrile	288001

look into pricing flammable vs pure product

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16	0230219H	**Waste Flammable Liquids, N.O.S.** Oxymyl Diesel Dupont "Vydate L" Insecticide/Nematicide Penncap-M Diesel	257598	
17	0080207H	**Waste Maleic Anhydride** Shipped hazardous? Maleic Anhydride, Water D002 - ???	257619	
18	0234119H	**Waste Hydrazine Hydrate** Hydrazine Hydrate	288040	
19	0233119H new?	**Waste Environmentally hazardous substances, liquids, n.o.s.** Sodium Sulfide Ammonium Polysulfide	288032	
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21	00746061	**Waste Toxic Solid Inorganics** O-Nitrophenol Ammonium Bisulfate	288052	

glycol in tubes
est 5,000 gallons

25¢/gal

~~HH~~

Atlantic

22	01891021	**Toxic Liquid, Inorganic, N.O.S.** 4,4'-Bipyridyl Parquat Concentrate 3 Tolcide P875 1,3 - phenylenediamine Acetochlor technical Tris-(2-chloro-1-methylethyhl) phosate 1,2,4-trichlorobenzene Eptam	**257612**
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Silicone ✓
? Glutaraldehyde ✓
? Petroleum distolites —
? cyclopentane ✓
? dewatering aid ✓

Aug 7-11

Rhodimet - 6-1

? Print out of what we have shipped —

? ~~RCI final handling~~ codes to Juan

? Ask Marlin about dewatering aid + btu value

! ~~2001, 2005, 2006 PCI handling codes~~

Stolt (Tankwash) for
outside Customers

I

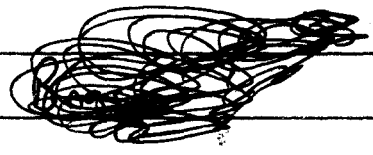
EPAHO082000185

Job Estimate		
Expense Item	**Estimated Cost**	**Cost to Customer**

(Prowaste)
Laschaco - James Lacy - 281-590-2550
15355 Vantage Pkwy. W Ste 195

Interflow - Neil Elliff - 281-820-1993

Eurotainer - 713-621-7843
5373 West Alabama
April Gomez



Boasso Repairs / Depots
for these people

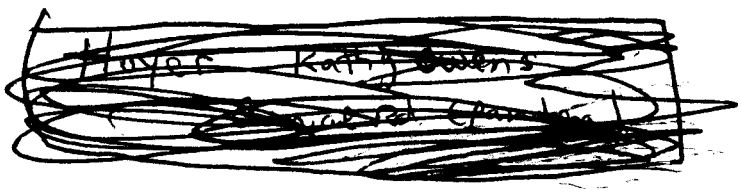
" This is Boasso's tankwash "

* Don't mention Stolt *

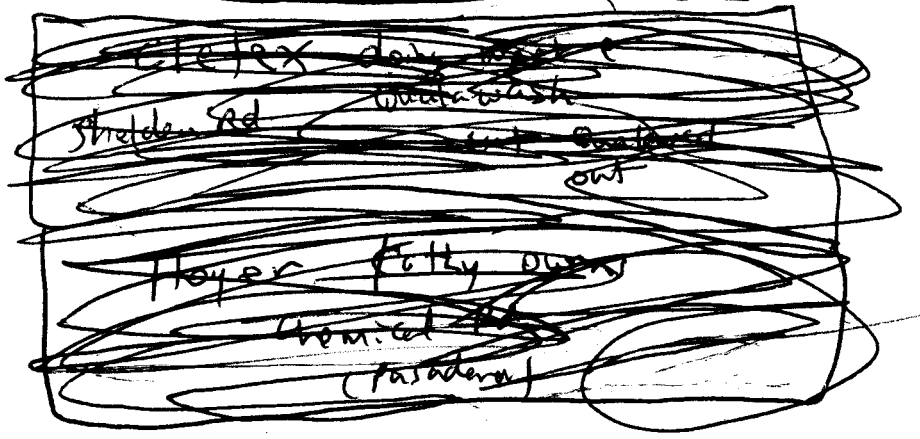
(1)

(2)

(3)



(4) Taylor Minster / minister Scott Gonzalez
281-335-5808/5811



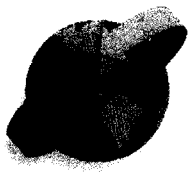
257598

288040

Cancelled

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461



PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257599 DIETHYL SULFATE
Billing Code:	VA
D. O. T. Shipping desc:	WASTE CORROSIVE LIQUIDS, N.O.S.
N. O. S. Description:	DIETHYL SULFATE, WATER
Hazard Class /Packing Group:	8 PG:II
RCRA Codes:	D002,D001,U162,U213
UN or NA #:	UN1760
EPA Management Method Code:	H061

Pricing: $105.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: _____

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠
RECYCLING
A commitment to our generators, our employees, and our community.

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257600 FLAMMABLE DRUMS
Billing Code:	LF
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, N.O.S.
N. O. S. Description:	()
Hazard Class /Packing Group:	3 PG:II
RCRA Codes:	D001,U112,U213,U239,U162 and others
UN or NA #:	UN1993
EPA Management Method Code:	H061

Pricing: $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

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I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: _____

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI
Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257605 2,4-D 2-ETHYLHEXYL ESTER TECHNICAL
Billing Code:	LI
D. O. T. Shipping desc:	HAZARDOUS WASTE, LIQUID, N.O.S.
N. O. S. Description:	(2,4-D 2-ETHYLHEXYL ESTER)
Hazard Class /Packing Group:	9 PG:III
RCRA Codes:	D016
UN or NA #:	NA3082
EPA Management Method Code:	H141

Pricing: $415.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

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TXD008950461

PCI
Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257606 BIPHENYL 95%
Billing Code:	SF
D. O. T. Shipping desc:	HAZARDOUS WASTE, SOLID, N.O.S.
N. O. S. Description:	(BIPHENYL, BENZENE)
Hazard Class /Packing Group:	9 PG:III
RCRA Codes:	D018
UN or NA #:	NA3077
EPA Management Method Code:	H061

Pricing: $89.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

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PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257612 NON-HAZ LIQUIDS
Billing Code:	LS
D. O. T. Shipping desc:	TOXIC LIQUID, INORGANIC, N.O.S.
N. O. S. Description:	()
Hazard Class /Packing Group:	6.1 PG:III
RCRA Codes:	NONE
UN or NA #:	UN3287
EPA Management Method Code:	NA

Pricing: $47.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

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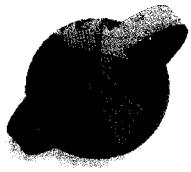

PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257619 WATER MALEIC ANHYDRIDE
Billing Code:	VA
D. O. T. Shipping desc:	WASTE MALEIC ANHYDRIDE
N. O. S. Description:	(MALEIC ANHYDRIDE, WATER)
Hazard Class /Packing Group:	8 PG:III
RCRA Codes:	U147,D002
UN or NA #:	UN2215
EPA Management Method Code:	H061

Pricing: $105.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

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BY: _____ DATE: _____

Revised 10/2008

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Waste Stream Approval Letter

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Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257620 WASTE P-CRESOL
Billing Code:	LF
D. O. T. Shipping desc:	WASTE CRESOLS
N. O. S. Description:	(P-CRESOL, WATER)
Hazard Class /Packing Group:	6.1 PG:II
RCRA Codes:	D025
UN or NA #:	UN2076
EPA Management Method Code:	H061

Pricing: $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257621 WASTE TDI
Billing Code:	SF
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, N.O.S.
N. O. S. Description:	(TDI, NAPTHALENE)
Hazard Class /Packing Group:	3 PG:II
RCRA Codes:	D001,U223
UN or NA #:	UN1993
EPA Management Method Code:	H061

Pricing: $89.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257646 WASTE AMINES
Billing Code:	VC
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.
N. O. S. Description:	N-OCTEL AMINE, METHANOL AMINE
Hazard Class /Packing Group:	3 PG:II
RCRA Codes:	D001,D002,U221
UN or NA #:	UN2924
EPA Management Method Code:	H061

Pricing: $105.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288001 ACETONITRILE
Billing Code:	LF
D. O. T. Shipping desc:	WASTE ACETONITRILE
N. O. S. Description:	(ACETONITRILE)
Hazard Class /Packing Group:	3 PG:II
RCRA Codes:	U003,D001
UN or NA #:	UN1648
EPA Management Method Code:	H061

Pricing: $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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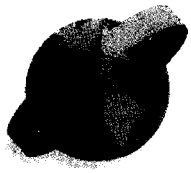

PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288037 O-TOLUIDINE
Billing Code:	LI
D. O. T. Shipping desc:	WASTE Toluidines liquid
N. O. S. Description:	(O-TOLUIDINE)
Hazard Class /Packing Group:	6.1 PG:II
RCRA Codes:	U328
UN or NA #:	UN1708
EPA Management Method Code:	H141

Pricing: $415.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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BY: _____ DATE: _____

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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288042 ACID
Billing Code:	LA2 ACIDS, INORGANIC > 60%, NO HF, NITRIC <25%, CR <10,000 PPM
D. O. T. Shipping desc:	WASTE Corrosive liquid, acidic, inorganic, n.o.s.
N. O. S. Description:	(HYDROCHLORIC ACID)
Hazard Class /Packing Group:	8 PG:I
RCRA Codes:	D002
UN or NA #:	UN3264
EPA Management Method Code:	H141

Pricing: $252.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288044 WASTE DODECYLBENZENE SULFONIC ACID
Billing Code:	VA
D. O. T. Shipping desc:	WASTE Alkyl sulfonic acids, liquid
N. O. S. Description:	(DODECYL BENZENE SULFONIC ACID)
Hazard Class /Packing Group:	8 PG:III
RCRA Codes:	D002
UN or NA #:	UN2584
EPA Management Method Code:	H061

Pricing: $105.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

PCI
Pollution Control Industries

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288052	WASTE TOXIC SOLID INORGANICS
Billing Code:	ND	
D. O. T. Shipping desc:	Nitrophenols	
N. O. S. Description:	(AMMONIUM BISULFATE, O-NITROPHENOL)	
Hazard Class /Packing Group:	6.1 PG:III	
RCRA Codes:	NONE	
UN or NA #:	UN1663	
EPA Management Method Code:	H141	

Pricing: $0.68 per lb, $53.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288184 MOLTEN PHENOL
Billing Code:	TF
D. O. T. Shipping desc:	WASTE Phenol, molten
N. O. S. Description:	(LEWATIT/ PHENOL-MISCHUNG)
Hazard Class /Packing Group:	6.1 PG:II
RCRA Codes:	U188
UN or NA #:	UN2312
EPA Management Method Code:	H141

Pricing: $147.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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STOLT-NIELSON
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CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	296285 PENTANE BLEND 80/20
Billing Code:	LF
D. O. T. Shipping desc:	WASTE PENTANES, LIQUID
N. O. S. Description:	
Hazard Class /Packing Group:	3 PG:I
RCRA Codes:	D001
UN or NA #:	UN1265
EPA Management Method Code:	H061

Pricing: $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

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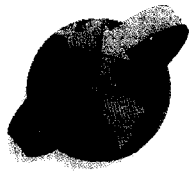

PCI

Pollution Control Industries

12/2/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	296307 BASONAT HI 100, WASTE TOLUENE DIISOCYANATE (TDI)
Billing Code:	LY
D. O. T. Shipping desc:	RQ, WASTE TOLUENE DIISOCYANATE
N. O. S. Description:	(TOLUENE DIISOCYANATE, 1,6-HEXAMETHYLENE DIISOCYANATE)
Hazard Class /Packing Group:	6.1 PG:II
RCRA Codes:	D003,U223
UN or NA #:	UN2078
EPA Management Method Code:	H141

Pricing: $0.99 per lb, $105.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

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CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4 16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(281) 860-6309	**Fax :**	(281) 860-6314
24 / HR Phone :			
U.S EPA I.D No :	TXD000326819		
State I.D :	83712	**SIC Code**	

SECTION 2: Billing Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4 16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(281) 860-6309	**Fax :**	(281) 860-6314

SECTION 3: General Description of the Waste

Name of Waste : MEA and MDI waste from cleaning RCRA empty trailers

Detailed Description of the Process Generating Waste:

MDI residues from RCRA empty containers cleaned with MEA. Spent material pH is <12.5. The MDI in solution is no longer water reactive.

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : amber **Odor :** slight

Specific Gravity (Water=1) : 1 **Density :** 8.34 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☑ Single-Phas ☐ Multi-Phase

Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 10

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

EPAHO082000207

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : 00746061

Proper U.S. State Waste Code No : Non-RCRA/Non-DOT Regulated Material

Class : na UN/NA : na PG : na RQ : na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	9-12	na mg/l	na mg/l	0 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
0 mg/l	na mg/l	na mg/l	na mg/l	na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
MEA	90	%
MDI	10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
msds

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
na

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : x

TCLP Volatilies : x

TCLP Semi-Volatiles : x

Reactivity : x
Corrosivity : x
Ignitability : x

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ **YES** ☑ **NO**

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation

EPAHO082000209

Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____ **Date :** 4/17/2007

Printed Name / Title : J. Almaguer /

CES USE ONLY (DO NOT WRITE IN THIS SPACE) **Process Facility Information :**

Compliance Officer : Prabhakar Thangudu

Date : 10/22/2008 **Status :** Approved Rejected

Approval Number : HOU-3037

PCI

GENERATOR'S WASTE PROFILE SHEET

COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION

Generator Name

Facility Address | City | State | Zip

Customer Name

Customer Phone | Customer FAX

Generator USEPA/Federal ID#

Is the Generator a "Conditionally Exempt Small Quantity Generator"? ◯ Yes ◯ No

Generator's S.I.C. Code (4 Digit)

BILLING INFORMATION (Check HERE if billing information is the same as above information) ☐

Billing Name

Billing Address | City | State | Zip

Billing Contact Name

Billing Phone | Billing FAX

PCI Sales Rep.

B. WASTE STREAM INFORMATION

Name of the Waste

Original Process Generating Waste

Is a representative sample provided? ☐ Yes ☐ No Is a MSDS attached? ☐ Yes ☐ No

Is there any analytical attached? ☐ Yes ☐ No

C. GENERAL CHARACTERISTICS

Color Select Odor Select

Physical State @ 70 F Select %Liquid Select %Sludge Select %Solid Select %Powder

Select %Gas (Aerosol) Select %Gas (Other) Select %Other

Phases Single Layer ◯ Multi Layer ◯ How Many

Btu/lb <3,000 ◯ 3,000-5,000 ◯ 5,000-10,000 ◯ >10,000 ◯

PH <2.0 ◯ 2.0 to 4.0 ◯ 4.0 to 10.0 ◯ 10.0 to 12.5 ◯ >12.5 ◯

Liquid Flash Point <73 F ◯ 73 to 99 F ◯ 100 to 139 F ◯ 140 to 200 F ◯ >200 F ◯ None ◯

Specific Gravity % Total Halogens Select

D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
	Select	Select		Select	Select
	Select	Select		Select	Select
	Select	Select		Select	Select

E. OTHER WASTE STREAM INFORMATION

Is this waste a "USED OIL" per 40CFR PART 279? Yes ○ No ○

If "Yes", does the total halogen content exceed 1,000 ppm? Yes ○ No ○

If "Yes", can you identify the "Chlorinated Constituent" present in the oil? Yes ○ No ○

If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? Yes ○ No ○

Does the Waste have any of the following characteristics? (Please select all that apply)

○ Oxidizer ○ Organic Peroxide ○ Water Reactive ○ Air Reactive ○ Pyrophoric ○ Dioxin
○ Radioactive ○ Infectious ○ Pathogen ○ Carcinogen ○ Etiological ○ Aerosols
○ Explosive ○ Shock Sensitive ○ Undergo Hazardous Polymerization ○ Cylinder

Does the Waste contain any of the following?

	None	or	LESS THAN	or	ACTUAL		None	or	LESS THAN	or	ACTUAL
PCB'S	○		<50ppm ○		ppm	Sulfides	○		<50ppm ○		ppm
Cyanides	○		<50ppm ○		ppm	Phenolics	○		<50ppm ○		ppm

Does the waste represented by this profile contain benzene? Yes ○ No ○

If "Yes", please list concentration in _ppm.

Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) Yes ○ No ○

Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) Yes ○ No ○

If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) Yes ○ No ○

If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) Yes ○ No ○

Does the Waste contain any Class I or Class II ozone-depleting substances? Yes ○ No ○

If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? Yes ○ No ○

F. SHIPPING INFORMATION:

Method of Shipment

Bulk Liquid(> 500 Gallons) ☐ Bulk Solids(roll-off box, vacuum box, etc) ☐ Lab Pack ☐

Cubic Yard Boxes ☐ Totes ☐ (Please specify size)

Drums (Select size) Select Other (Please specify)

Shipping Frequency

Number of Units Month Quarter Year Other

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes ○ No ○ If "No", Please skip to section H.

Is this a "Universal Waste" per 40CFR part 273? Yes ○ No ○

Is this a "Characteristic Waste"? Yes ○ No ○

If "Yes", is it: ☐ D001 Ignitable ☐ D002 Corrosive ☐ D003 Reactive

Characteristic for Toxic Metals:

○ D004 ○ D005 ○ D006 ○ D007 ○ D008 ○ D009 ○ D010 ○ D011

Characteristic for Toxic Organics: D012 thru D043 (List all that apply)

G. R.C.R.A. CHARACTERIZATION: (Cont.)

Is this an "F" or "K" Listed waste or mixed with one? Yes ◯ No ◯

If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:

Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f) Yes ◯ No ◯

If "Yes", Please list all applicable waste code(s)

Is this a state regulated waste? Yes ◯ No ◯

If "Yes", Please list all codes.

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material? Yes ◯ No ◯

Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table:

"Reportable Quantity" (if any) lbs

Hazard Class or Division No. UN/NA # Packing Group ☐ I ☐ II ☐ III

Is this a "Poison Inhalation Hazard"? Yes ◯ No ◯

If "Yes", Please indicate Hazard Zone ☐ Zone A ☐ Zone B ☐ Zone C ☐ Zone D ☐ Other

List two primary hazardous constituents: 1 2

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name Title

Signature _____ Date _____

Submit Clear New

THIS SPACE IS FOR PCI APPROVALS DEPARTMENT USE

Date Received APPROVER'S INITIALS _____ PROFILE NUMBER 1

PROCESS CODE PRICE TRANS

PROPER WASTE CODES

PROPER D.O.T. SHIPPING NAME

HAZARD CLASS UN NA PACKING GROUP I II III

N.O.S DESCRIPTIONS

YARD INSTRUCTIONS

NO LANDFILL CUSTOMER RUN SALES ANALYTICAL MSDS ATTACHED

NO SAMPLE APPROVAL N/H FOR METALS PER GEN. SEE ATTACHED ANALYTICAL

RUN OX. SCREEN ON INCOMING RUN COMP. ON INCOMING

FORM CODE W SYSTEM CODE H

PCI

GENERATOR'S WASTE PROFILE SHEET

COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION

Generator Name

Facility Address City State Zip

Customer Name

Customer Phone Customer FAX

Generator USEPA/Federal ID#

Is the Generator a "Conditionally Exempt Small Quantity Generator"? ◯ Yes ◯ No

Generator's S.I.C. Code (4 Digit)

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PCI Sales Rep.

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Name of the Waste

Original Process Generating Waste

Is a representative sample provided? ☐ Yes ☐ No Is a MSDS attached? ☐ Yes ☐ No

Is there any analytical attached? ☐ Yes ☐ No

C. GENERAL CHARACTERISTICS

Color Select Odor Select

Physical State @ 70 F Select %Liquid Select %Sludge Select %Solid Select %Powder

Select %Gas (Aerosol) Select %Gas (Other) Select %Other

Phases Single Layer ◯ Multi Layer ◯ How Many

Btu/lb <3,000 ◯ 3,000-5,000 ◯ 5,000-10,000 ◯ >10,000 ◯

PH <2.0 ◯ 2.0 to 4.0 ◯ 4.0 to 10.0 ◯ 10.0 to 12.5 ◯ >12.5 ◯

Liquid Flash Point <73 F ◯ 73 to 99 F ◯ 100 to 139 F ◯ 140 to 200 F ◯ >200 F ◯ None ◯

Specific Gravity % Total Halogens Select

D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
	Select	Select		Select	Select
	Select	Select		Select	Select
	Select	Select		Select	Select

E. OTHER WASTE STREAM INFORMATION

Is this waste a "USED OIL" per 40CFR PART 279? Yes ◯ No ◯

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If "Yes", can you identify the "Chlorinated Constituent" present in the oil? Yes ◯ No ◯

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◯ Oxidizer ◯ Organic Peroxide ◯ Water Reactive ◯ Air Reactive ◯ Pyrophoric ◯ Dioxin
◯ Radioactive ◯ Infectious ◯ Pathogen ◯ Carcinogen ◯ Etiological ◯ Aerosols
◯ Explosive ◯ Shock Sensitive ◯ Undergo Hazardous Polymerization ◯ Cylinder

Does the Waste contain any of the following?

	None	or	LESS THAN	or	ACTUAL		None	or	LESS THAN	or	ACTUAL
PCB'S	◯		<50ppm	◯	ppm	Sulfides	◯		<50ppm	◯	ppm
Cyanides	◯		<50ppm	◯	ppm	Phenolics	◯		<50ppm	◯	ppm

Does the waste represented by this profile contain benzene? Yes ◯ No ◯

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F. SHIPPING INFORMATION:

Method of Shipment

Bulk Liquid(> 500 Gallons) ☐ Bulk Solids(roll-off box, vacuum box, etc) ☐ Lab Pack ☐

Cubic Yard Boxes ☐ Totes ☐ (Please specify size)

Drums (Select size) Select Other (Please specify)

Shipping Frequency

Number of Units Month Quarter Year Other

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◯ D004 ◯ D005 ◯ D006 ◯ D007 ◯ D008 ◯ D009 ◯ D010 ◯ D011

Characteristic for Toxic Organics: D012 thru D043 (List all that apply)

G. R.C.R.A. CHARACTERIZATION: (Cont.)

Is this an "F" or "K" Listed waste or mixed with one? Yes ○ No ○

If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:

Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f) Yes ○ No ○

If "Yes", Please list all applicable waste code(s)

Is this a state regulated waste? Yes ○ No ○

If "Yes", Please list all codes.

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material? Yes ○ No ○

Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table:

"Reportable Quantity" (if any) lbs

Hazard Class or Division No. UN/NA # Packing Group ☐ I ☐ II ☐ III

Is this a "Poison Inhalation Hazard"? Yes ○ No ○

If "Yes", Please indicate Hazard Zone ☐ Zone A ☐ Zone B ☐ Zone C ☐ Zone D ☐ Other

List two primary hazardous constituents: 1 2

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name Title

Signature _____ Date _____

Submit **Clear** **New**

THIS SPACE IS FOR PCI APPROVALS DEPARTMENT USE

Date Received APPROVER'S INITIALS _____ PROFILE NUMBER 1

PROCESS CODE PRICE TRANS

PROPER WASTE CODES

PROPER D.O.T. SHIPPING NAME

HAZARD CLASS UN NA PACKING GROUP I II III

N.O.S DESCRIPTIONS

YARD INSTRUCTIONS

NO LANDFILL CUSTOMER RUN SALES ANALYTICAL MSDS ATTACHED

NO SAMPLE APPROVAL N/H FOR METALS PER GEN. SEE ATTACHED ANALYTICAL

RUN OX. SCREEN ON INCOMING RUN COMP. ON INCOMING

FORM CODE W SYSTEM CODE H

Ask Peterson

STOIT

Zinc-Calcium Bromide Solution

TETRA

TETRA Technologies, Inc.

Material Safety Data Sheet

This MSDS Sheet complies with the style format specified by ANSI Z400.1-1993

SECTION 1: CHEMICAL PRODUCT - COMPANY IDENTIFICATION

TETRA Technologies, Incorporated (281) 367-1983
25025 I-45 North (800) 327-7817
The Woodlands, Texas 77380

(800) 424-9300 - CHEMTREC (24 Hour Emergency Response)

SUBSTANCE: Zinc-Calcium Bromide Solution
TRADE NAMES/SYNONYMS: None
CHEMICAL FAMILY: Inorganic Salt Solution
MSDS CREATION DATE: 15 JUN 94
MSDS REVISION DATE: 13 SEPT 01

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	RTECS NUMBER	PERCENTAGE
Zinc Bromide	7699-45-8	ZH1150000	53-56%
Calcium Bromide	7789-41-5	EV9328000	18-21%
Water	7732-18-5	ZC0110000	29-23%

PROBABLE CONTAMINANT: Zinc hydroxide, zinc oxide, calcium hydroxide.

SECTION 3: HAZARDS IDENTIFICATION

NFPA RATINGS: (SCALE 0-4): HEALTH=1, FIRE=0, REACTIVITY=0
EMERGENCY OVERVIEW: Odorless liquid, light yellow amber color. May cause skin, eye and inhalation irritation. Solutions containing zinc bromide are considered to be marine pollutants.
POTENTIAL HEALTH EFFECTS:
INHALATION:
Inhalation of mist may cause irritation. Additional effects may include coughing and breathing difficulties.
SKIN CONTACT:
May cause irritation.
EYE CONTACT:
May cause irritation and tearing. Additional effects may include blurred vision.
INGESTION:
May cause yellowing of the skin and eyes, nausea, vomiting, diarrhea, blood in the urine, inability to urinate, low blood pressure, blood disorders, kidney damage, liver damage, convulsions and unconsciousness.
CARCINOGEN STATUS: OSHA: No **NTP:** No **IARC:** No

SECTION 4: FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to fresh air. Get medical attention immediately.
SKIN CONTACT: Remove contaminated clothing and shoes and wash affected area with soap large amounts of water until no at least 15-20 minutes. Get medical attention if irritation persists. Clean clothing before reuse.
EYE CONTACT: Flush eyes with plenty of water at least 15 minutes). Get medical attention immediately.

EPAHO082000218

INGESTION: Drink plenty of water. Do NOT induce vomiting. Get medical attention immediately.
NOTE TO PHYSICIAN: For ingestion, consider gastric lavage.
Antidote: The following antidote(s) have been recommended:
Calcium disodium edetate/dextrose, intravenous
Calcium disodium edetate/procaine, intramuscular
Sodium chloride, oral, intravenous
The decision as to whether the severity of poisoning requires administration of any antidote and actual dose required should be made by qualified medical personnel. Driesbach, Handbook of Poisoning, 12th Ed.

SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam (1996 North American Emergency Response Guidebook, RSPA P 5800.7, Guide Number 171).
FIREFIGHTING: Move container(s) from fire area if you can without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of drums and/or ends of tanks. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind. Dike area to prevent runoff and contamination of water sources.
HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition products may include acrid smoke and fumes of zinc oxides and hydrogen bromide.
FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH
CONDITIONS: Any self-contained breathing apparatus that has a full facepiece Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Do not touch spilled material. Stop leak if you can without risk. For small spills, take up with sand or other absorbent material and place in containers for disposal. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Deny entry to nonessential personnel and isolate hazard.
SOIL SPILL: Dig holding area such as lagoon, pond or pit for containment. Dike flow of spilled material using soil or sandbags or formed barriers such as polyurethane or concrete. Use cement powder or fly ash to absorb liquid mass. Neutralize spill with slaked lime, sodium bicarbonate or crushed limestone.
WATER SPILL: Neutralize with lime, crushed limestone, or sodium bicarbonate. Use mechanical dredges or lifts to extract immobilized masses of pollution and precipitates. Add suitable agent to neutralize spilled material to pH-7.

SECTION 7: HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this product. Store in a tightly closed container. Store away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: No occupational exposure limits established by OSHA/ACGIH/NIOSH.
VENTILATION: Provide local exhaust ventilation system.

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EYE PROTECTION: Wear safety glasses with splash shields or safety goggles/shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
CLOTHING: Wear appropriate chemical resistant clothing.
GLOVES: Wear appropriate chemical resistant clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION:	Odorless, colorless to yellow liquid.
MOLECULAR FORMULA:	$ZnBr_2$ for zinc bromide, $CaBr_2$ for calcium bromide
MOLECULAR WEIGHT:	225.19 for zinc bromide, 199.8 for calcium bromide
MELTING POINT:	Not applicable
BOILING POINT:	313°F (156°C) for 55% solution $ZnBr_2$, 19% $CaBr_2$, and 26% water
SPECIFIC GRAVITY:	2.3 for solution 55% $ZnBr_2$, 19% $CaBr_2$, and 26% water at 25 °C
pH:	5-6 (1:10 dilution)
WATER SOLUBILITY	Miscible with water in all proportions.

SOLVENT SOLUBILITY: Miscible with alcohol, ether, acetone, ammonium hydroxide

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable under normal temperatures and pressures. Can evolve hydrogen bromide and/or bromine when strongly heated. Can evolve bromine under strongly oxidizing conditions.
CONDITIONS TO AVOID: None known.
INCOMPATIBILITIES: Metals. Mixtures with potassium or sodium produce a strong explosion on impact.
OXIDIZING AGENTS: Yields bromine gas.
HAZARDOUS DECOMPOSITION: Products may include acrid smoke and fumes of zinc oxides and hydrogen bromide
POLYMERIZATION: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA: None established for zinc-calcium bromide. The systemic effects of bromide ion are chiefly mental: drowsiness, irritability, vertigo, confusion, mania, hallucinations and coma. Other effects include skin rashes, neurological signs, sensory disturbances, and increased spinal fluid pressures.
CARCINOGEN STATUS: None.
LOCAL EFFECTS: Zinc-calcium is an eye, mucous membrane and skin irritant.
ACUTE TOXICITY LEVEL: Moderately toxic by ingestion, slightly toxic by dermal absorption.
TARGET EFFECTS: Sensitizer - dermal. Poisoning may also affect the kidneys, and the respiratory and digestive systems.
INHALATION:
High concentrations of zinc bromide mists may produce irritation, labored breathing and coughing.
SKIN CONTACT:
Direct contact may cause irritation, redness and pain. Repeated or prolonged exposure to zinc salts may cause dermatitis with erythematous, papular, and granulomatous reactions in susceptible individuals.
EYE CONTACT:
Direct contact may cause redness, pain, blurred vision, and conjunctivitis.

INGESTION:

EPAHO082000220

Ingestion of large amounts of astringent zinc salts may cause a burning sensation in the mouth and throat, nausea, vomiting, diarrhea, hemolysis, hematuria, kidney damage with anuria, liver damage with jaundice, and possibly hypotension, convulsions, and unconsciousness. Repeated or prolonged ingestion of zinc salts may cause digestive and/or renal disorders.

SECTION 12: ECOLOGICAL INFORMATION

No data available.

SECTION 13: DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name-ID Number: Environmentally Hazardous Substances liquid, N.O.S., Class 9, UN 3082, PG III (contains Zinc Bromide) Marine Pollutant, RQ

DOT Hazard Class or Division: 9
DOT Packing Group: III
DOT Labeling Requirements: Class 9 and Marine Pollutant
DOT Packaging Authorizations: Refer to
Exceptions: 49 CFR § 173.203
Non-Bulk Packaging: 49 CFR § 173.203
Bulk Packaging: 49 CFR § 173.241
DOT Quantity Limitations:
Passenger Aircraft or Railcar: none
Cargo Aircraft Only: none

SECTION 15: REGULATORY INFORMATION

TSCA STATUS:		Yes
MARINE POLLUTANT:		Yes
REPORTABLE QUANTITY (Zinc Bromide)		1000 lb. (454KG)
40 CFR 302.4	CERCLA SECTION 103:	Yes
40 CFR 355.30	SARA SECTION 302:	No
40 CFR 355.40	SARA SECTION 304:	Yes
40 CFR 372.65	SARA SECTION 313:	Yes
29 CFR 1910.119	OSHA Process Safety	No
	California Proposition 65	No
40 CFR 370.21	SARA HAZARD CATEGORIES, SARA SECTIONS 311.312 ACUTE HAZARD:	Yes

SECTION 16: OTHER INFORMATION

EPAHO082000221

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.

EPAHO082000222

Dana Carter STOLT

From: Gary Peterson
Sent: Monday, November 17, 2008 5:50 PM
To: Dana Carter
Cc: Marlin Moser; Joe Camp; Matt Moser; Clinton Hopkins
Subject: RE: Zinc Calcium Bromide Solution MSDS

Dana,

If this is a heel from cleaning containers then I would assume that the heel is some of the chemical in the MSDS but with primarily other solids like dirt, rust and other types of container residues.

Zinc Bromide is a very hazardous type of material for health. It also can react with sodium or potassium explosively.

The chemical composition on the profile would have to be correctly completed. Is this only one drum ? Per week, month ?

We need to be careful with disposal of drum material especially pure product or heels of pure products. We need all of the information on this to approve.

Thanks.

From: Dana Carter
Sent: Monday, November 17, 2008 12:29 PM
To: Gary Peterson
Subject: Zinc Calcium Bromide Solution MSDS

Here is the product I asked you about. It would come to us in a drum from Stolt (heel from cleaning containers).

Dana Carter
Account Manager
CES Environmental Services Inc
Office: 713-676-1460
Cell: 713-748-9804
Fax: 713-676-1676

257600 ?

STOLT

SAFETY DATA SHEET

according to EC Directive 91/155/EEC

Diethyl Ether

Date of publication: 16.12.1999
Date of revision: 15.6.2005 *Revision:* 3

1 Identification of the substance/preparation and the company/undertaking

Identification of the substance or preparation

Trade Name: Diethyl Ether
Chemical Name: Diethyl ether, ether
Synonyms: Ether
Ethoxyethane
Ethyl oxide
1,1 ' -Oxybisethane
3-Oxapentane

Company/undertaking identification:

ALIACHEM, a.s.
o.z. SYNTHESIA
532 17 Pardubice - Semtín
Telephone: + 420 466 821 111
Fax: + 420 466 821 020
e-mail: synthesia@synthesia.cz

Recommended use:

As a solvent, an extractant and reactive agent, mostly for production of smokeless gun powder. High-quality Diethyl Ether is used as the pure chemicals in the labs and in medicine.

Emergency Telephone Number:
Producer:
tel: + 420 466 824 402
fax: + 420 466 824 448

National consultation body:
Toxikologické informa?ní st?edisko (TIS, Information Centre of Toxicology), Klinika nemocí z povolání (Clinic of Vocational Diseases), Na Bojišti 1171/1, 128 21 Praha 2, tel. 224 919 293, 224 915 402, 224 914 575

2 Composition/information on Ingredients

Substance contains these hazardous ingredients:

Chemical name	*Content (wt. %)*	*CAS-No*	*EC-No*	*Classification*	
Diethyl ether	100	60-29-7	200-467-2	F+, Xn	12-19-22-66-67

Classification - see section 3. Product labelling - see section 15. The full text of R-Phrases listed in Section 2 is given in Section 16.

3 Hazards Identification

Classification of the substance/preparation according to EC Directives:

Extremely flammable
Harmful

The most important adverse human health effects:

Harmful if swallowed.

Vapours irritate eyes, mucous membranes, respiratory track and they have expressive narcotic effect, may cause drowsiness and dizziness.
They dry up and slightly irritate skin, may cause its dryness or cracking.

The most important adverse environmental effects:
Extremely flammable.
May form explosive peroxides.
Forms the explosive mixture with air.

4 First-aid Measures

General information:
In all cases keep the victim at physical and mental rest and warm. In all serious events and always in case of eye contact, seek for medical help.

Inhalation:
Break off the exposition, move the victim to fresh air. In all cases if inhalation causes the symptoms (for instance cough) avoid walk. Even if symptoms stopped and victim feels well, do not allow to go home without the medical control.

Skin contact:
Flush the affected area with plenty of water (preferably lukewarm), carefully remove the contaminated clothing as soon as possible and continue washing the affected skin. After the rinsing cover the affected area with a clean cloth and seek medical advice.

Eye contact:
Rinse with plenty of water for at least 15 minutes. Never neutralize! Move to the physician while continue rinsing.

Ingestion:
Rinse the mouth with clean water, give max. 0.5 l water to drink, do not induce vomiting, seek for medical help.

5 Fire-fighting Measures

Suitable extinguishing media:
Foam, water mist, carbon dioxide, dry powders.

Unsuitable extinguishing media:
-

Special risks:
Combustible.
Vapour are havier than air.
Forms explosive mixture with air at ambient temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire-fighters:
Self-contained breathing apparatus and protective clothing.

Other information:
Take measures to prevent electrostatic charging. Prevent fire-fighting water from entering surface water or groundwater. In case of fire, cool the tanks containing the product with a water jet from a safe distance.

6 Accidental Release Measures

Personal precautions:
Avoid inhaling of product vapours.
Avoid contact with skin and eyes.

Environmental precautions:
Do not allow to enter sewerage system, risk of explosion!

Recommended methods of cleaning up and disposal:
Take up with liquid-absorbent material (e.g. sand, Chemizorb) and collect in the designated closed

containers. Dispose according to the section 13.

7 Handling and Storage

Handling:

Do not breathe exhalations.
Use personal protective equipment (see s.8). Keep principles of personal hygiene.
Wash with water and soap after working with substances.
Keep away from sources of ignition - do not smoke.
Do not empty into drains.

Storage:

Tightly closed.
Keep away from sources of ignition and heat.
Warehouse facilities must be equiped with ventilation system of sufficient capacity.
Protect from light.
Protected from air.
Take precautionary measures against static discharges.

8 Exposure Controls/Personal Protection

Exposure limits:

□□***In accordance with local regulations.***

□□***Czech regulations:***

Diethyl ether: PEL 300 mg/m3, NPK-P 600 mg/m3.
(1 mg/l = 330 ppm; 1 ppm = 3,03 mg/m3, 1% = 30,3 g/m3).

Exposure reduction (technical measures):

Use process enclosures, local exhaust, general ventilation.

Personal protective equipment:

Respiratory protection:	protective mask with filter AX against organic vapour,
Hand protection:	rubber gloves,
Eye protection:	tight protective goggles,
Skin protection:	protective clothing, flameproof if needed, rubber apron, boots, cap.

Other information:

Do not eat, drink or smoke during the work and observe the personal hygiene principles.
Wash with water and soap after work.

9 Physical and chemical properties

Physical state (at 20 °C):	liquid (clear, very fluid)
Colour:	colourless
Odour:	characteristic
pH Value (at °C):	not available
Melting point (range):	-116,3 °C
Boiling point (range):	34,5 °C
Flash point:	-40,0 °C
Flammability:	extremely flammable
Autoignition:	-
Explosion limits:	
uppern limit:	48 Vol.%
lower limit:	1,7 Vol.%
Oxidizing properties:	
Density (at 20 °C):	0,71 g/cm3
Vapour pressure (at 20 °C):	60 kPa; at 50 °C: 170 kPa
Solubility (at 20 °C):	
- in water:	6,896 wt. %
- in fats (incl. oil specification):	-
- in other solvent:	miscible to any relations with ethanol, chloroform, benzene and other organic solvents
Partition coefficient (n-octanol/water):	not available
Viscozity:	

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2,84 mPa.s (at 0 °C);

Other information:

Ignition temperature : 160 to 170 °C
Temperature class : T4
Heating value : 33,9 MJ/kg
Class of danger : I
Explosive group : II.B
Threshold experimental safety gap : 0,78 mm
Evaporating heat : 392,37 KJ/kg
Specific heat : cp = 2320 J/kg/K
Combustion heat : 37,14 MJ/kg

10 Stability and Reactivity

Conditions of stability:

-

Conditions to be avoided:

Heat, open flame, electrostatic discharges.

Substances to be avoided:

Oxidizing agents. Acids and alkalis.

Hazardous decomposition products:

Carbon oxides, peroxides.

Other information:

Easy evaporates at the air, vapours form with air the explosive mixture. Air (particularly with sunlight) cause the selfoxidation forming peroxides.

11 Toxicological Information

Acute toxicity:

- LD_{50}, oral, rat (mg.kg^{-1}):	1215
- LD_{50}, skin, rat or rabbit (mg.kg^{-1}):	> 20 ml/kg (rabbit)
- LC_{50}, inhalation, rat, gas and vapour (mg.l^{-1}):	mouse: 31 000 ppm/30M (spasm or epileptic attack) rabbit LCL0 : 10 600 ppm

Subacute-chronic toxicity: Symptoms of chronic toxicity are unspecific difficulties, lost of appetite, sick stomach, headache, drowsiness, on other hand searcefully undrowsiness, intolerance to alcohol. May appear the kidney affection or more serious nerves affection. The affect on blood creation is very problematic.

Senzitization: Symptoms of irritating are visible already near the concentration of 200 ppm in a few minutes. The concentration below 400 ppm has not yet the sensible effect. Near the concentration of 2000 ppm appear the slightly symptoms of anaesthesia beginning. Concentration of 35 000 ppm leads in 30 minutes to the deep anaesthesia exposure danger for the possibility of paralysis the respiratory centre and other complications.

Experiences in humans: The oral mortal doses for human being is 0,42 g/kg. Ingestion causes intoxication more promptly as alcohol, its lasting is but shorter. Ingestion of about 25 to 50 ml causes death. Harmful is also the extension of stomach due to vapour pressure. The acute inhalation toxicity is similar to intoxication. Irritation : eye, human being 100 ppm. Inhalation, human being TCL0 200 ppm (other changes of smell). Toxicology : oral, man LDL0 260 mg/kg.

Experiments upon animals: irritation:
skin, rabbit: 360 mg open MLD
skin, guinea pig: 50 mg/24 h. SEV
eye, rabbit: 100 mg MOD

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12 Ecological Information

Acute aquatic toxicity:

- *LC_{50}, 96 H Fish (mg.l $^{-1}$):* 2840 mg/l (L.idus)
- *EC_{50}, 48 H Daphnia (mg.l $^{-1}$):* 100

Biodegradability: (BOD5 : COD) . 100 = 4,6 %

Other data:

Concentration of 0,3 mg/l do not affects the ecotoxicity of water streams.
Concentration of 1000 mg/l is mortal for the fish.

COD: 2,17 mg O2/mg

BOD:$_5$: 0,1 mg O2/mg

Other information:

Water Hazard Class (WGK): 1 (Slightly water polluting substance)
Toxicity number for fish: 2,6
Toxicity number for mammals: 1

13 Disposal Considerations

Disposal methods of the substance/preparation:

Remains absorb with wooden sawdust or sand and then burn in waste incineration plant.

Disposal methods of the contaminated packaging:

Rinse with suitable solvent or incinerate at a reserved place.

14 Transport Information

Land transport ADR/RID:

Classification:	3 / F1 / PG I
UN No.:	1155
Name and description:	DIETHYL-ETHER
Labels:	3

Sea transport IMDG:

Classification:	3.1 / PG I
UN No.:	1155
Proper shipping name:	DIETHYLETHER
Marine pollutant:	no
Label:	3

Air transport ICAO/IATA:

Classification:	3 / PG I
UN No.:	1155
Name:	Diethyl ether
Label:	Flammable liquid

15 Regulatory Information

Labelling according to EC Directives:

Symbol:

F+ Extremely flammable

Extremely flammable

Xn Harmful

Harmful

R-phrases:
R 12 Extremely flammable
R 19 May form explosive peroxides
R 22 Harmful if swallowed
R 66 Repeated exposure may cause skin dryness or cracking
R 67 Vapours may cause drowsiness and dizziness

S-phrases:
S 9 Keep container in a well-ventilated place
S 16 Keep away from sources of ignition - No smoking
S 29 Do not empty into drains
S 33 Take precautionary measures against static discharges

Other information for labeling:
Diethyl ether (200-467-2)
EC - labelling

16 Other information

List of R-phrases:
R 12 Extremely flammable
R 19 May form explosive peroxides
R 22 Harmful if swallowed
R 66 Repeated exposure may cause skin dryness or cracking
R 67 Vapours may cause drowsiness and dizziness

Other Infomation:
VOC (according to Directive 99/13/ES):
64,82 %.

The above information corresponds to the current level of our knowledge and experience. The data merely describe the product with respect to safety and cannot be construed as guaranteed parameters. The user is responsible for handling in compliance with the existing laws and regulations.

MATERIAL SAFETY DATA SHEET

DATE PREPARED 11/03/01

Isoprene MSDS NO. 95400000

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Isoprene

CHEMICAL NAME:

2-methyl-1,3-butadiene 78-79-5

CHEMICAL FAMILY:

Diolefin

PRODUCT DESCRIPTION:

Clear colorless liquid or gas with faint aromatic odor.

CONTACT ADDRESS:

EMERGENCY TELEPHONE NUMBER: (24 HOURS)

NON EMERGENCY TELEPHONE NUMBERS: (8am-5pm M-F)

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is hazardous as defined in 29 CFR1910.1200.

OSHA HAZARD
Flammable gas
Eye Irritant
Carcinogen

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Irritating, but does not injure eye tissue.

SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis.

INHALATION:

Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F)

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Irritating to eyes and respiratory tract in high concentrations.

INGESTION:

Low order of toxicity.

CHRONIC EFFECTS:

This Product contains Isoprene. The bone marrow is a target organ for isopren
toxicity in mice but not rats. Isoprene has been shown to produce tumors in mice and rats and induce genetic damage in mice. There are no data available
to evaluate the carcinogenicity of isoprene in humans. The International Agency for Research on Cancer (IARC) has evaluated isoprene and found it to be
possibly carcinogenic to humans, Group 2B. The National Toxicology Program (NTP) has evaluated isoprene and listed it as Reasonably Anticipated to be a
Human Carcinogen (9th Report on Carcinogens).

SECTION 4 FIRST AID MEASURES

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Flush with large amounts of water; use soap if available.

INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: -65 Deg F. METHOD: TCC ASTM D56

FLAMMABLE LIMITS: LEL: 1.5 UEL: 10.0

AUTOIGNITION TEMPERATURE: 824 Deg F.

GENERAL HAZARD:

Extremely Flammable, material will readily ignite at ambient temperatures. If thermally decomposed, flammable/toxic gases may be released. Unstable, material will vigorously polymerize, decompose, condense or

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will become self-reactive under conditions of shocks of pressure or temperature.
Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge .
"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.
Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel.
Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.
Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.
Respiratory and eye protection required for fire fighting personnel.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

No unusual

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY INFORMATION) notify the National Response Center.
Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.
Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL:

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

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SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:

Yes, use proper bonding and/or grounding procedure.
Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1220 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).

STORAGE TEMPERATURE, Deg F:

Ambient or below

LOADING/UNLOADING TEMPERATURE, Deg F:

32 to 86

STORAGE TRANSPORT PRESSURE, mmHg:

Atmospheric

LOADING/UNLOADING VISCOSITY, cSt:

0.4 to 0.3

STORAGE AND HANDLING:

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials.
Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.
Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces.
See respiratory protection recommendations.
Use explosion-proof ventilation equipment.

PERSONAL PROTECTION:

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For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.
Where contact may occur, wear safety glasses with side shields.
Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY at Deg F:	0.69 at 60
VAPOR PRESSURE, mmHg at Deg F:	303.78 at 50
	463.546 at 70
SOLUBILITY IN WATER, wt. % at Deg F:	0.06 at 77
VISCOSITY OF LIQUID, cSt at Deg F:	0.4 at 32
	0.3 at 86
SP. GRAV OF VAPOR, at 1 atm(Air=1):	2.35
FREEZING/MELTING POINT, Deg F:	-231
EVAPORATION RATE, n-Bu Acetate=1:	Not Available
BOILING POINT, Deg F:	93

SECTION 10 STABILITY AND REACTIVITY

STABILITY:

Unstable

CONDITIONS TO AVOID INSTABILITY:

Must be inhibited with t-butyl catechol to prevent peroxide formation. Avoid heat, oxygen, water, open flames, and sparks.

HAZARDOUS POLYMERIZATION:

Will occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:

Must be inhibited with t-butyl catechol. Air exposure causes explosive peroxide formation.

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

Air, oxidizing agents, phenols, acetylide forming metals, caustics, amines, alkanolamines, halogenated compounds, alcohols, glycolesters, alkylene oxides, ammonia, halogens, ether, acid anhydrides, moisture.

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HAZARDOUS DECOMPOSITION PRODUCTS:

Polymerization can generate sufficient heat to cause violent explosion.

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT SHIPPING DESCRIPTION: ISOPRENE, STABILIZED, 3, UN 1218, I
)

SECTION 15 REGULATORY INFORMATION

TSCA:

This product is listed on the TSCA Inventory at CAS Registry Number 78-79-5

CERCLA:

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling 800-424-8802.
The reportable spill quantity of this product is 100 pounds.
It contains:
Isoprene.

SARA TITLE III:

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:
Immediate health, Delayed Health, Fire, Reactive.

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This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.
This product does not contain Section 313 Reportable Ingredients.

SECTION 16 OTHER INFORMATION

REVISION SUMMARY:

Since October 26, 2001 this MSDS has been revised in Section(s):
3

REFERENCE NUMBER: HDHA-L-00007

SUPERSEDES ISSUE DATE: October 26, 2001

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

LAST PAGE

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Submitted to
Maya
11-24-08

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

November 24, 2008

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257646 for Stolt-Nielsen. We would like to amend the constituents to include 3-(Dimethylamino) Propylamine at 0-100% and Cyclohexylamine at 0-100% on this profile. Attached is the MSDS for both 3-(Dimethylamino) Propylamine and Cyclohexylamine. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana Carter
Authorized Agent for Stolt-Nielsen

STOIT

BASF

Safety data sheet

according to 91/155/EEC

BASF Safety data sheet — CZ 00128-E (D/E)
Date / revised: 30.04.1999 — version 11.01
Product: 3-(DIMETHYLAMINO)PROPYLAMINE

(Print date: 01.05.1999)

1. Substance/preparation and company name

3-(DIMETHYLAMINO)PROPYLAMINE

Company:
BASF Aktiengesellschaft
Unternehmensbereich Zwischenprodukte
D-67056 Ludwigshafen
Tel.: 0621-60-0

Emergency information:
BASF works fire brigade Ludwigshafen
Tel.: 0621-60-43333 Fax: 0621-60-92664

2. Composition/information on ingredients

Chemical nature:
3-aminopropyldimethylamine
CAS-No. 109-55-7 EINECS-No. 203-680-9

3. Possible hazards

Advice on critical hazards to man and the environment:
Flammable.
Harmful in contact with skin and if swallowed.

May cause sensitization by skin contact.

Causes burns.

4. First aid measures

General advice: Immediately remove contaminated clothing.
If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary.
First-aiders should pay attention to their own safety.

If inhaled: Keep patient calm, remove to fresh air, summon medical help.

On skin contact: Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink plenty of water, summon physician.

5. Fire fighting measures

Suitable extinguishing media: Water, dry extinguishing media, foam, carbon dioxide (CO2).

Special protective equipment:
Wear self-contained breathing apparatus and protective suit.

Further information: Collect separately contaminated extinguishing water, do not allow to reach sewerage or effluent systems.

6. Accidental release measures

Personal precautions: Breathing protection required.
Avoid contact with the skin, eyes and clothing

Environmental precautions: Do not let product enter drains.

Methods for cleaning up:
Small amounts contain with absorbent material and dispose.
Large spillages should be dammed-off and pumped into containers; soak up remainder with absorbent material and dispose of in accordance with local regulations.

7. Handling and storage

Handling
Protection against fire and explosion: Ensure thorough ventilation of stores and work areas.
Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage
Protect from acids and acid forming substances.

8. Exposure controls and personal protection

Additional information on the lay-out of technical plant
(see 7)

Components with workplace control parameters

Personal protective equipment

Respiratory protection: If ventilation is inadequate.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles.

Body protection: Protective suit.

General safety and hygiene measures:
Avoid contact with the skin, eyes and clothing.
avoid inhalation of vapour.

9. Physical and chemical properties

Form: liquid
Colour: colourless - yellow
Odour: amine-like

Change in physical state
Melting point/melting range: <-50 'C
Boiling point/boiling range: 135 'C

Flash point:		32 'C 89.6	(DIN 51 755)
Explosion limits:			
- lower		2.3 Vol.%	
- upper		12.35 Vol.%	
Ignition temperature:		215 'C	(DIN 51 794)
Vapour pressure:	(20 'C)	8 mbar	
Density:	(20 'C)	0.818 g/cm3	
Solubility in water:		(20 'C) fully miscible	
pH value:	(at 100 g/l, 20'C)		12.7
Octanol/water partition coefficient (log POW): -0.4			
Viscosity:		(20 'C)	1.6 mPa.s

10. Stability and reactivity

Hazardous reactions:
Exothermic reaction with acids.

11. Toxicological information

Acute toxicity

LD50/oral/rat: 1 640 mg/kg
LD50/dermal/rabbit: 490 mg/kg
LC50/inhal./rat: > 4.31 mg/l / 4 h
(maximum technically achievable concentration, no fatalities)

Primary skin irritation/rabbit/BASF test: corrosive

As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

Acute inhalation hazard (rat; test results depending on toxicity and volatility): No mortality after 30 min exposure in a highly enriched and/or saturated atmosphere at ambient temperatures. Lethal after extended exposure.

Genotoxity

Ames-test: no mutagenic effect

Experiences in humans
If inhaled:
Concentration of above 0.8 ppm can cause: lung function difficulties

Additional information:
Under certain circumstances nitrosamines can form in contact with nitrosating agents (e.g. nitrites, nitrous oxides). Nitrosamines were found to cause cancer in animal experiments.

12. Ecological information

Elimination information

Test method: OECD 302B/ ISO 9888/ EEC 88/302, C
Method of analysis: DOC reduction
Degree of elimination: > 70%
Evaluation: easy to eliminate

Behaviour and environmental fate
The product is an alkaline. Before discharging sewage into treatment plants, neutralization is generally required.
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Ecotoxic effects

Toxicity to fish: LC50/Leuciscus idus/: 122 mg/l/96h
Toxicity to daphnids (acute): EC/LC50 (48 h): 59.5 mg/l
Toxicity to algae: EC/LC50 (72 h): 56.2 mg/l
Toxicity to bacteria: EC/LC50 (17 h): 95 mg/l

Further ecological information

AOX: This product contains no organically bound halogen.

13. Disposal considerations

Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.

Contaminated packaging:
Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.

14. Transport information

Land transport

ADR/RID	Class: 8	Item number/letter: 54B
	Hazard-no: 83	Substance no.: 2734

UN-No: 2734
Description of the goods: AMINE, FLUESSIG, AETZEND, ENTZUENDBAR, N.A.G. DIMETHYLAMINOPROPYLAMIN.

Inland waterway transport

ADN/ADNR	Class: 8	Item number/letter: 54B

Description of the goods: AMINE, FLUESSIG, AETZEND, ENTZUENDBAR, N.A.G. DIMETHYLAMINOPROPYLAMIN.

Sea transport

IMDG/GGVSee	Class: 8	UN-No: 2734 PG: II
	EMS: 8-04	MFAG: 320

Marine pollutant: no
Proper technical name: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (DIMETHYLAMINOPROPYLAMINE).

Air transport

ICAO/IATA	Class: 8	UN/ID-No.: 2734 PG: II

Proper technical name: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (DIMETHYLAMINOPROPYLAMINE).

15. Regulatory information

Labelling according to EEC Directives
The substance should be labelled as follows according to EEC "Hazardous Substances" Directive:

INDEX-No. 612-061-00-6

C - Corrosive

R10 - Flammable.
R34 - Causes burns.
R22 - Harmful if swallowed.
R43 - May cause sensitization by skin contact.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Supplementary classification based on experience:

R21 - Harmful in contact with skin.
S23 - Do not breathe vapour / spray

National legislation/regulations

TA Luft(Germany): Class III, number 3.1.7

Water hazard class: WGK 2 (Germany)

16. Other information

Shelf life

Minimum shelf life in sealed containers: 2 years

Standard packaging

Non-returnable packaging: drum with bung
Packaging unit: 160 kg

Suggested uses

Intermediate for polymers, dyes, pharmaceuticals, crop protection agents, cationic surfactants, additives for fuels and lubricants.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

General delivery specification

Content	min. 99.8 % (GC)
	trimethylenediamine (1,3-Diaminopropan) max. 80 ppm (GC)
	water max. 0.05 (DIN 51 777)
Colour value	max. 15 APHA (DIN-ISO 6271)

A backslash in the left hand margin indicates an amendment from the previous version.

STOIT

Safety Data Sheet

(According to the Rule of Law No. 356/2003 Col. and Commission Directive 2001/58/EC)

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

1. Identification of the substance or preparation and producer or importer

1.1 Chemical name: **Cyclohexylamine**
CAS number: **108-91-8**
ES (EINECS) number: **203-629-0**
Index number: **612-050-00-6**
Other names: **Cyclohexanamine, Hexahydrobenzenamine**

1.2 Use of substance/preparation

Cyclohexylamine is used especially in rubber industry for producing the vulcanisation accelerators.

1.3 Producer/importer identification:

Designation: **BorsodChem MCHZ, s.r.o.**

Name or trade name: **BorsodChem MCHZ, s.r.o.**

Point of business or residence: **Chemická 1, 709 03 Ostrava - Mariánské Hory**

Identification number: **26019388**

Telephone: **+420/ 596 641 111**

Fax: **+420/ 596 642 040**

Emergency telephone number: **+420/ 596 643 221 or 596 620794 non-stop**

TIS, Na Bojišti 1, 128 08 Praha 2

Non-stop telephone: +420/ 224 919 293 or 224 915 402, fax: +420/ 224 914 570

2. Information of substance or preparation composition

The product contains:

Chem. name	Content (% weight)	Symbol	R-formulas
Cyclohexylamine	**min. 99.6**	**C, Xn**	**10-21/22-34**
Aniline	**max. 0.15**	**T, N, Xn, Xi**	**23/24/25-40-41-43-48/23/24/25-68-50**
Cyclohexanole	**max. 0.15**	**Xn, Xi**	**20/22-37/38**

3. Substance or preparation hazard indications

The most serious adverse human health impacts in case of the substance/preparation use:
The foams strongly irritate eyes and airways. Caustic.

The most serious adverse environment impacts in case of the substance/preparation use:
Combustible.

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

Potential wrong use of the substance/preparation: —

Other data: —

4. First aid instructions:

4.1 General instructions: **Caustic substance, etches skin and mucosa. The foam irritates the eyes and airways. It influences central nerve system - headache, fear and anxiety feelings, tiredness or spasm.**

4.2 In case of respiration: **Bring a person to fresh air, release the clothing. Provide the breathing support. Call a doctor!**

4.3 In case of contact with skin: **Put off immediately the affected clothes, wash out the affected skin with a lot of water and call a doctor!**

4.4 In case of contact with eyes: **Wash out by a lot of water for 15 minutes as soon as possible and as well as possible and call immediately a doctor!**

4.5 In case of ingestion: **Do not induce vomiting. Give water to drink, provided the patient in conscious, obtain medical attention immediately.**

4.6 Other data:

5. Instructions for a case of fire occurence

5.1 Suitable extinguishing media: **Smashed water, powder, foam, CO_2**

5.2 Insuitable extinguishing media: —

5.3 Special hazard: **Flammable fluid, hazard class II (VbF : AII) Potential carbon monoxide and nitrogen oxides releasing. Toxic and explosive mixtures formation.**

5.4 Special protective aids for fire brigade: **Insulation breathing apparatus, special protective clothing! (Hazchem Code:3WE).**

5.5 Other data: —

6. Measures in case of accidental escape

6.1 Safety measures for personal protection: **Protection of airways, of unprevented body parts, protection of eyes. Measurement of cycloxelyamine concentration in the environment, proper ventilation should be provided.**

6.2 Safety measures for the environment protection: **Prevent against contamination of waters and soil, check the cyclohexylamine concentration in the living environment in the surrounding of the accident.**

6.3 Recommended cleaning and removal methods: **Fill with suction material (Vapex, Vermikulit) and remove in the waste bin, other disposal see Par. 13.**

6.4 Other data: —

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

7. Instructions for handling and storage

7.1 Handling: **It is supplied in railway or truck cisterns or in steel barrels and tank-containers. In decantation control cyclohexylamine concentration measurement in the working environment is performed and proper ventilation should be provided.**

7.2 Instructions for storage: **It should be stored in ventilable rooms in original packaging or steel containers, the upper permissible storage temperature limit is 35 °C. It should be not stored together with foods, strong oxidation agents and concentrated strong acids.**

8. Exposition control and personal protection

8.1 Technical measures: **Proper ventilation should be provided. Control measurements of the cyclohexylamine concentration in the working environment.**

8.2 Control parameters: PEL/NPK-P (aver./limit) **20/40** mg $\cdot$ m^{-3} (Czech Republic)

8.3 Personal protective work aids:

Airways protection: **Protective mask with a filter against organic foams of the A-type**
Protection of eyes: **Goggles or shield**
Protection of hands: **Protective glove**
Protection of skin: **Protective clothing**

8.4 Other data: **Avoid eating, drinking and smoking at work. After work completion, wash your hands with hot water and soap, treat the skin with suitable reparation means.**

9. Physical and chemical characteristics

State (at 20 °C):		**Fluid**
Appearance:		**Fluid**
Colour:		**Colourless, yellowish**
Odour:		**Strong fish**
pH value (at °C):		—
Melt temperature (range) (°C):		**- 17.7**
Boiling temperature (range) (°C):		**134.5**
Flash point (°C):		min. value found **5 , 27** Merck BC-MCHZ measured value **26,5**
Inflammation temperature (°C):		**235**
Burnability:		—
Self-ignitionability (°C):		—
Explosion limits:	lower (%vol.)	**21.7**
	upper (% vol.)	**0.52**
Oxidation properties:		**None**
Foam tension (at °C) in Pa:	(20 °C):	**794.0**
	(50 °C)	**4600.0**

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

Density (at 20°C) in kg · m^{-3}:	**867.0**
Soluability (at °C): - in water (20 °C)	**soluble**
- in fats	—
(including oil specification):	
Split factor n-octanole/water (log P_{OW}):	**1.49**
Other data: Viscosity (20 °C)	**1.66** mPa · s

10. Stability and reactivity

Conditions at which the product is stable: **Under normal conditions.**

Conditions which should be avoided: **In case of heating, irritative and explosive mixtures are formed.**

Substances and materials which should be prevented from any contact: **It reacts strongly with strong oxidation agents and concentrated strong acids. It should avoid from any contact with foods.**

Hazardous decomposible products: **Toxic carbon monoxide and nitrogen oxides can be released in burning.**

Other data:

11. Toxicologic information

Acute toxicity:

- LD_{50} (oral, rat) = **156** mg · kg^{-1}
- LD_{50} (derm., rabbit) = **277** mg · kg^{-1}
- LC_{L0} (inhal., mouse) = **8000** ppm/4 h.
- LC_{L0} (inhal., rat) = **7500** mg · kg^{-1}

Dermal irritation (rabbit): **7, very hazardous (cor-OECD-level 4)**
2 mg/24 h. **SEV**

Eye irritation (rabbit): **10, vitally hazardous (cor.OECD-level 4)**
50 µ/24 h. **SEV**

Sensibility (guinea pig): **not determined**

Other information:
Sub-acute toxicity: **not determined**
Subchronic toxicity: **not determined**
Human experience: **It etches the skin and mucosa, foams irriate eyes and airways.**

Additional data:
Mutagenity: **Probable mutagen.**

Other data:

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

12. Environmental information

Information of degradation:

Test method: **biological aerobic - kinetic test**

Evaluation: **$BSK_5/CHSK_{Cr}$ = 0.64, very well degradable**

Kinetic test - removal level 92.5 %, very well degradable

Stability: **Soluble in water**

Behaviour and fate in the living environment:

Mobility: **It can penetrate into the living environment from waste waters.**

Cummulation: **In appears in waters in case of escape.**

WGK = **2**

Adsorption: **on active coal**

Environment-toxic effects:

Water organisms: **Acute toxicity for fish: 3.7;** ***BCF=3***

LEUCISCUS IDUS MELATONUS (48h)	LC_0	= **50** mg · l^{-1}
	LC_{50}	= **58** mg · l^{-1}
	LC_{100}	= **82** mg · l^{-1}
BRACHYDANIO RERIO (96h)	LC_0	= **200** mg · l^{-1}
	LC_{50}	= **470** mg · l^{-1}
	LC_{100}	= **600** mg · l^{-1}
DAPHNIA MAGNA	L_{C0}	= **50** mg · l^{-1}
	LC_{50}	= **80** mg · l^{-1}
	LC_{100}	= **102** mg · l^{-1}
ENTOSIPHON SULCATUM	LC_{100}	= **0.69** mg · l^{-1}

Soil organisms: **Acute toxicity for bacteria: 3.4**

Plants and land animals:

MICROCYSTIS AERUGINOSA	LC_0	= **0.02** mg · l^{-1}

Acute toxicity for mammals: 5

MOUSE	LC_{50}(inh.)	= **1070** mg · kg^{-1}

Other adverse effects:

Other environmental information:

$CHSK_{Cr}$ = **2.578** g · g^{-1}

BSK_5 = **1.66** g · g^{-1}

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

13. Information of disposal

Substance/preparation disposal methods: **Detoxication with reaction with $NaHSO_4$ or in compliance with the Rule of Law No. 185/2001 Col. of wastes, incinerate in the hazardous wastes incinerators.**

Contamined cover: **Wash out with water, collected water and containers should be disposed in compliance with valid regulations.**

Other data:

14. Information for transport

Land transport

ADR/RID	Class: **8**	Number/letter: **CF1**
Warning panel	Kemler. No.: **83**	UN number: **2357**
Packaging category: **II**		
Comments:		

Sea transport

IMDG	Class: **8(3)**	
UN number: **2357**	EMS: **F-E, S-C**	Packaging category: **II**
Sea pollutants: **No "Marine pollutant"**		
Technical name: **Cyclohexylamine**		
Comments:		

Air transport

UN number: **2357**		
ICAO/IATA	Class: **8**	Packaging category: **II**
Technical name: **Cyclohexylamine**		

Comments: **transport max. 1 l (808), max. haulage 30 l (812)**

15. Information of legal regulations

Marking according to the Rule of Law No. 356/2003 Col. of chemical substances and chemical preparations and according to respective EC Council Directtives:

Chemical name:	**Cyclohexylamine**
CAS number.	**108-91-8**
ES (EINECS) number:	**203-629-0**
Index number:	**612-050-00-6**

Date / review: 12.08.2005

Product: **CYCLOHEXYLAMINE**

Symbol: **C - Corrosive**

R-formula: **R10** Flammable.
R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.

S-formula: **S 36/37/39** Wear suitabie clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other regulations effective and efficient in the Czech Republic:

Government Directive No. 178/2001.

Public notice by the Ministry of Environment No. 381/2001 Col.

16. Other information

Commission Directive 2004/73/EC of 29 April 2004

Prepared by: Environment Protection Department — Ing. Z. Svobodová

Submitted
to Maya
11-24-08

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

November 24, 2008

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 288044 for Stolt-Nielsen. We would like to amend the constituents to include Alkyl benzenesulfonic acid at 0-100%. Attached is the MSDS for Alkyl benzenesulfonic acid. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana Carter
Authorized Agent for Stolt-Nielsen

StOH

sasol
reaching new frontiers

EC-SAFETY DATA SHEET

SOLFODAC/AC-3-H

Version 7.00 **Revision Date 05.01.2006**

1. Identification of the substance/preparation and the company/undertaking

Trade name	**SOLFODAC/AC-3-H**
INCI	C10-14 ALKYL BENZENESULFONIC ACID
Use	surface-active substance, raw material for surfactant production
Company	Sasol Italy S.p.A. Via Medici del Vascello 26 20138 Milano
Information (Product safety):	+39-02-584531 **Fax:** +39-02-58453205
Emergency telephone number	Terranova dei Passerini +39-0377 463-300

2. Composition/information on ingredients

Benzenesulfonic acid-4-C10-13-sec alkyl derivs
Concentration: 98,00 %
CAS-No.: 85536-14-7 **Index-No.:** **EC-No.** 287-494-3
Symbol(s) C **R-phrase(s):** -R22 -R34

contains:

Sulfuric acid
Concentration: 0,99 %
CAS-No.: 7664-93-9 **Index-No.:** 016-020-00-8 **EC-No.** 231-639-5
Symbol(s) C **R-phrase(s):** -R35

For the full text of the R phrases mentioned in this Section, see Section 16.

Other data The substance is listed in the EINECS Inventory.

3. Hazards identification

Identification of the risks
Harmful if swallowed.
Causes burns.

4. First aid measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	Move to fresh air in case of accidental inhalation of fumes from

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	overheating or combustion.
Skin contact	Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician immediately.
Ingestion	Rinse mouth. Do not induce vomiting. Call a physician immediately.

NOTES TO PHYSICIAN

Risks	corrosive effects

5. Fire-fighting measures

Specific hazards during fire fighting	In case of fire hazardous decomposition products may be produced such as: CO and CO2
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions	Use personal protective equipment.
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. The material taken up must be disposed of in accordance with regulations. Neutralize with lime milk or soda and flush with plenty of water.

7. Handling and storage

HANDLING

Safe handling advice	Wear personal protective equipment. Avoid contact with skin and eyes.
Advice on protection against fire and explosion	No special protective measures against fire required Use only in well-ventilated areas.

STORAGE

Requirements for storage	Keep in a dry, cool place.

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areas and containers	
Storage temperature	< 50 °C
Packaging material	Suitable material: stainless steel, plastic receptacles

8. Exposure controls / personal protection

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

no data available

PERSONAL PROTECTIVE EQUIPMENT

Hand protection	General advice: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Suitable material: Nitrile rubber/nitrile latex Neoprene gloves
Eye protection	face-shield
Skin and body protection	protective suit, preventive skin protection
Hygiene measures	When using do not eat or drink. Provide adequate ventilation.

9. Physical and chemical properties

Form	liquid; 20 °C ; 1.013 hPa
	viscous
Colour	dark brown
Odour	sulphurous
pH	ca. 1; 10 g/l; 20 °C
Softening point	ca. -10 °C
Flash point	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	< 0,0015 hPa; 20 °C
Density	ca. 1,060 g/cm3; 20 °C; 1.013 hPa
Water solubility	> 10 g/l; 20 °C; 1.013 hPa
Partition coefficient (n-octanol/water)	not applicable
Solubility in other solvents.	; 20 °CAlcohol; soluble

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EC-SAFETY DATA SHEET

SOLFODAC/AC-3-H

Version 7.00 **Revision Date 05.01.2006**

Solubility in other solvents	; 20 °CAcetone; not applicable
Solubility in other solvents	; 20 °CHydrocarbons; negligible
Viscosity, dynamic	1.500 - 2.000 mPa.s; 20 °C

10. Stability and reactivity

Thermal decomposition	> 80 °C

11. Toxicological information

Acute oral toxicity	LD50 : 200 - 2.000 mg/kg; (literature value)
Skin irritation	; Causes burns.Destruction of skin tissue as a result of up to 4 hours exposure., (literature value)
Eye Irritation	Causes severe irritation of eyes, skin and mucous membranes., May cause irreversible eye damage., (literature value)
Sensitization	Did not cause sensitization on laboratory animals., (literature value)

12. Ecological information

Biodegradability	biodegradable; (literature value)
ECOTOXICITY EFFECTS	
Toxicity to fish	LC50 : > 1 mg/l; 96 hours; (literature value)
Toxicity to daphnia	EC50 Daphnia magna: > 1 mg/l; 48 hours; (literature value)
Toxicity to algae	EC50 : > 1 mg/l; 72 hours; (literature value)

13. Disposal considerations

Product	Dispose of in accordance with local regulations.

14. Transport information

ADR	UN-No: 2586; Class: 8; Packaging group: III; C3; Description of the goods: ALKYLSULPHONIC ACIDS, LIQUID (Alkylbenzenesulfonic acid)
RID	UN-No: 2586; Class: 8; Packaging group: III; C3; Description of the goods: ALKYLSULPHONIC ACIDS, LIQUID (Alkylbenzenesulfonic acid)

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ADNR	UN-No: 2586; Class: 8; Packaging group: III; Description of the goods: ALKYLSULPHONIC ACIDS, LIQUID (Alkylbenzenesulfonic acid)
IMDG	UN-No: 2586; Class: 8; EmS: 8-06; Packaging group: III; Description of the goods: ALKYLSULPHONIC ACIDS, LIQUID (Alkylbenzenesulfonic acid)
ICAO/IATA	UN-No : 2586; Class: 8; Packaging group: III; Description of the goods: ALKYLSULPHONIC ACIDS, LIQUID (Alkylbenzenesulfonic acid)

15. Regulatory information

LABELLING

Symbol(s)	C: Corrosive
R-phrase(s)	R22: Harmful if swallowed. R34: Causes burns.
S-phrase(s)	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: After contact with skin, wash immediately with plenty of water. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
Hazardous components which must be listed on the label	BENZENESULFONIC ACID-4-C10-13-SEC ALKYL DERIVS

NATIONAL LEGISLATION

Notification status	TSCA; y (positive listing) AICS; y (positive listing) DSL; y (positive listing) INV (CN); y (positive listing) EINECS; y (positive listing) KECI (KR); y (positive listing) PICCS (PH); y (positive listing)
Other regulations	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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16. Other information

Text of R phrases mentioned in Section 2

R22	Harmful if swallowed.
R34	Causes burns.
R35	Causes severe burns.

section has been revised

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
This safety data sheet only contains safety-relevant information and does not replace any product information or product specification.

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Stolt

N.O.R.

This registration does not constitute authorization of any waste management activities or facilites listed below. The registration reflects hazardous and/or industrial waste generation and management activities for which the registrant has provided notification. Requirements for solid waste management are provided by Texas Administrative code section 335 of the rules of the Texas Commission on Environmental Quality (TCEQ). Changes or additions to waste management methods referred to in this notice require written notification to the TCEQ.

Solid Waste Registration Number: 83712 EPA Id: TX0000326819

The Solid Waste Registration Number provides access to computerized and filed information pertaining to your operation. Please refer to that number in any correspondence.

Company Name: Stolt-Nielson Transporation Group Inc
Site Name: Stolt Transportation Services
Site Location: 16300 De Zavalla Rd, Ste 4, Channelview, TX
Primary Contact: ALMAGUER, JUAN
Mailing Address: 16300 De Zavalla Rd
Channelview, TX 77530-4467
Registration Status: Active
Registration Type: Generator
Generator Type: Industrial

Region: 12
County: 101 Harris
Title: Facility Manager
Site Street Address: 16300 De Zavalla Rd
Ste 4
Channelview, TX 77530-4676

Initial Registration Date: 06/04/1995
Last Amendment Date: 03/01/2006
Last Date NOR Computer update: 03/07/2006
Phone: 832-473-3285
Reporting Method: STEERS

Hazardous Waste Generation Status: Large Quantity Generator

Business Description: Quala Sytems performs commercial cleaning and decontamination of tank trailers, tank containers and portable mini-bulk storage tanks (totes) This service which utilizes the name Qualawash is provided primarily to the bulk chemical and waste transportation industry. Received 8H ltr. dated 12/15/03 request to inactivate. 1/6/04 bb

NAICS Code: 488310 Port and Harbor Operations
Tax Identification #: 11319324700
Handler Status:

Operator Information
Name: Stolt-Nielsen Transportation
Phone: 281-457-1080
Address: PO Box 96438
Houston, TX, 77213-6438

Owner Information
Name: Stolt-Nielsen Transportation Group Inc
Phone: 281-457-1080
Address: PO Box 96438
Houston, TX, 77213-6438

Billing Address: ATTN: Environmental Dept.
16300 Dezavala
Channelview, TX 77530

Other Contact: McNutt, William
Mailing Address: 16300 Dezavala
Channelview, TX 77530
Role: Environmental Manager Phone:

Other Contact: MAHER, LINDA
Mailing Address: 5106 HUISACHE ST
GREEN ENVIRONMENTAL CONSULTING
BELLAIRE, TX 77401-4930
Role: STEERS Contact Phone: 713-666-6270

As of 03/01/2006 - the next unassigned sequence number for WASTES is 0234 and
the next unassigned sequence number for UNITS is 011.

Section 335, Chapter 31 of the Texas Adminstrative Code specifies the notification, record keeping, manifesting and reporting requirements for hazardous and industrial solid wastes.

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83712 Stolt-Nielson Transporation Group Inc

**** WASTE INFORMATION ****

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

****** Active Wastes ******

0004211H H Active 04/07/04 Off No No

Description from Generator: Waste Dicyclopentadiene / Removal of pure product residue from empty cargotanks Waste inactivated due to product change.
Texas Form Code: 211 Paint thinner or petroleum distillates
EPA Form Code: W211 Paint thinner or petroleum distillates
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139986

0009212H H Active 02/18/04 Off No No

Description from Generator: Waste Toluene diisocyanate (liquid) and water. / Removal of pure productresid Waste inactivated due to product change.
Texas Form Code: 212 Reactive or polymerizable organic liquids
EPA Form Code: W210 Reactive or polymerizable organic liquids and adhe
EPA Hazardous Waste Numbers: U223
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139994

0011210H H Active 02/18/04 Off No No

Description from Generator: Waste flammable epoxy resin liquid. / Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 210 Adhesives or epoxies
EPA Form Code: W210 Reactive or polymerizable organic liquids and adhe
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139997

EPAHO08200263

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

****** Active Wastes ******

0073203H H Active 02/18/04 On/Off No No

Description from Generator: Waste flammable liquids, solvent type. Generated paint waste from cleaningpaint equipment. Removal of residual product from empty cargo tanks prior to cleaning. Date of initial generation: 1-1-97.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U239
Current Management Units: Contain Store Area 001
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): waste solvent

00746061 1 Active 02/18/04 Off No No

Description from Generator: Waste mixed Class 1 organics such as resins, fatty acids, fatty alcohols, (propylene and higher) glycols, polyols, wax, latex, polymers, cut-up hoses, RCRA-empty metal and plastic drums. Removal of residual product from empty cargo tanks prior to cleaning, and disposal of empty product drums. Date of initial generation: 9-1-96.
Texas Form Code: 606 Resins, tars, or tarry sludge
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Class 1 Rolloff

00785041 1 Active 02/18/04 Off No No

Description from Generator: Waste floor drain sludge consisting of silicates, clays, grease and oil solids, polymers titanium dioxide metal (iron and aluminum) hydroxides and water. Floor drain sludge from cleaning and flushing empty cargo tanks. Date of initial generation: 9-1-95.
Texas Form Code: 504 Other inorganic wastewater treatment sludge
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Floor drain sludge

0080207H H Active 04/07/04 Off No No

Description from Generator: Waste maleic anhydride (solid). Removal of residual product from empty cargo ta Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U147
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): maleic anhydride solid

EPAHO08200264

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

****** Active Wastes ******

00842191 1 Active 02/18/04 Off No No

Description from Generator: Waste herbicides and mixed organic liquids, may include Blazer herbicide, Acetochlor, Trifluralin Bicep, latex, polymer and water. Removal of residual product from empty cargo tanks prior to cleaning. Date of initial generation: 9-1-96.
Texas Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Non-haz non-reg erbicides for incineration

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0089219H H Active 02/18/04 Off No No

Description from Generator: Waste toluene diisocyanate and 2-ethoxyethylacetate (TDI and presolve). Removal of residual product from empty cargo tanks prior to cleaning. Date of initial generation: 9-1-97.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 U223
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDI and presolve 700

0102208H H Active 02/18/04 Off No No

Description from Generator: para-Cresol and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D025 U052
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): p-cresol and water

EPAHO08200265

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

****** Active Wastes ******

0114110H H Active 02/18/04 Off No No

Description from Generator: Sodium salts, esters, resins, adhesives, plasticizers, silicone, and latexsolids. High pH. Spent cleaning solution skimmings and solids. Removal of solids from cleaning solution vats.
Texas Form Code: 110 Caustic aqueous waste
EPA Form Code: W110 Caustic aqueous waste without cyanides
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G02 Stripping and acid or caustic cleaning
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): caustic aqueous wast

0115203H H Active 05/24/04 Off No No

Description from Generator: Oil additives (may contain toluene, xylenes, petroleum distillates) with trace levels of benzene. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 D018
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): oils with trace benz

0116105H H Active 02/18/04 Off No No

Description from Generator: Mineral and organic acids. May contain hydrochloric, sulfuric, phosphoric, acetic, sulfonic and/or other acids and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 105 Acidic aqueous waste
EPA Form Code: W105 Acidic aqueous wastes less than 5% acid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): acidic aqueous waste

01432121 1 Active 02/18/04 Off No No

Description from Generator: Methyacrylic acid, inhibited. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 212 Reactive or polymerizable organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Methacrylic acid

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Refer to 40 CFR Part 261 for Descriptions of EPA Hazardous Waste Numbers.

EPAHO08200026

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

****** Active Wastes ******

01709992 2 Active 02/18/04 On/Off No No
Description from Generator: Waste plant trash; office trash.
Texas Form Code: 999 Plant Refuse
Current Management Units: Misc Store Container 004
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): plant trash

0184219H H Active 02/18/04 Off No No
Description from Generator: Toluene diamine, aromatic amines, herbicides, pesticides and solvents (aromatic, aliphatic, aminic, and/or oxygentated hydrocarbons.) Removal of pureproduct residue, and solvent rinsing product residue, from empty cargo tanks prior to clea
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U221
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDA,amines,pest/herb

01891021 1 Active 02/18/04 Off No No
Description from Generator: Herbicides, biocides, pesticides, insecticides, and water. Removal of product residue and steam cleaning, or water rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 102 Aqueous waste with low other toxic organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Herb rinse

0217219H H Active 02/18/04 Off No No
Description from Generator: Sodium methylate, organic acids, sulfonic acids (alkyl/aryl), aliphatic, aromatic, oxygenated and/or amininc hydrocarbons, and water. Rinsing and removal of pure product residue from empty cargo tanks before cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO082000267

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
****** Active Wastes ******						
0222219H	H	Active	02/18/04	Off	No	No

Description from Generator: Naphthalene and water. Removal of product residue and steam cleaning or water rinsing product residue from empty cargotanks prior to cleaning.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U165
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): NAPHTHALENE AND WATE

0223219H H Active 02/18/04 Off No No

Description from Generator: o-Toluidine and water. Removal of product residue and steam cleaning or water rinsing product residue from empty cargotanks prior to cleaning.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U328
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): O-TOLUIDINE AND WATR

0226110H H Active 02/18/04 Off No No

Description from Generator: Corrosive/reactive sulfide and hydroxide solutions. May contain ammonium polysulfide, sodium hydrosulfide, sodium hydroxide, potassium hydroxide and water. Removal of residue and water/steam rinising residue from cargo tanks before cleaning the cargo tanks.
Texas Form Code: 110 Caustic aqueous waste
EPA Form Code: W110 Caustic aqueous waste without cyanides
EPA Hazardous Waste Numbers: D002 D003
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): D002 SULFIDES

02272101 1 Active 02/18/04 Off No No

Description from Generator: Aromatic and aliphatic diisocyanates (may include MDI/ HDI/IPDI/TMXDI), Solid (reacted) diisocyante polyurethanes, and monoethanolamine (MEA) solvent. Removal of residue and solvent rinsing residue from empty product cargo tanks before cleaning the cargo tanks.
Texas Form Code: 210 Adhesives or epoxies
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): DIISOCYANATES MEA

EPAHO082000268

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

****** Active Wastes ******

0229219H H Active 02/18/04 On/Off No No
Description from Generator: Pesticide and water Larvin (thiodicarb), 2,4-D. Removal of product residueand steam cleaning or water rinsing product residue from empty cargo tanksprior to cleaning.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 U410
Current Management Units: Contain Store Area 001
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): PESTICIDES AND WATER

0230219H H Active 02/18/04 Off No No
Description from Generator: Vydate pesticide (Oxamyl in methanol) and water. Triple rinseate from rinsing empty cargo tanks containing Vydate to render containers RCRA-empty.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 P194
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): VYDATE TRIPLE RINSE

02331141 1 Active 02/05/04 On/Off No No
Description from Generator: Wastewater generated from cleaning RCRA Empty transportation equipment.
Texas Form Code: 114 Other aqueous waste with low dissolved solids
Current Management Units: Tank 002 005 006 007 008 009
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): WASTEWATER

* The first value is considered the primary value (e.g. primary origin code).
As of 03/01/2006, the next unassigned sequence number for WASTES is 0234.

** No Longer Generated Wastes **

0001207H H Inactive 08/09/00 NA No No
Description from Generator: Waste Red indicator dye, flammable / Removal of pure product residue from empty Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139983

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Refer to 40 CFR Part 261 for Descriptions of EPA Hazardous Waste Numbers.

EPAHO082000269

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0002205H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste lube oil, alcohols, water, soil - flammaable / Removal of pure product res Waste inactivated due to product change.
Texas Form Code: 205 Oil-water emulsion or mixture
EPA Form Code: W205 Oil-water emulsion or mixture
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139984

0003207H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste Tolonate (Hexamethylene diisocyanate), methanol, n-butyl acetate, water / Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 F003
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139985

0005207H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste Maleic Anhydride propionic acid and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D002 U147
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139989

EPAHO08200270

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0006503H H Inactive 08/09/00 NA No No

Description from Generator: Waste pesticide solution (Dursban, Sevin, Malathion, Toxaphene, p-Chloroaniline) Waste inactivated due to product change.
Texas Form Code: 503 Inorganic wastewater treat sludge w/toxic organics
EPA Form Code: W503 Gypsum sludges from wastewater treatment or air po
EPA Hazardous Waste Numbers: D015 P024 P123
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139991

0007102H H Inactive 08/09/00 NA No No

Description from Generator: Waste pesticide solution (Dursban, Sevin, Malathion, Toxaphene, p-Chloroaniline) Waste inactivated due to product change.
Texas Form Code: 102 Aqueous waste with low other toxic organics
EPA Form Code: W101 Very dilute aqueous waste containg more than 99% w
EPA Hazardous Waste Numbers: D015 P024 P123
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139992

0008208H H Inactive 08/09/00 NA No No

Description from Generator: Waste phenol and water / Removal of pure product residue from empty cargo tank Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139993

EPAHO08200271

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0010111H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste Dimethyl Sulfide / Removal of pure product residue from empty cargo tanks Waste inactivated due to product change.
Texas Form Code: 111 Aqueous waste with reactive sulfides
EPA Form Code: W113 Other aqueous waste or wastewaters
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139996

0012204H H Inactive 07/20/00 NA No No

Description from Generator: Waste spent halogenated and nonhalogenated solvents. / Removal of pure product Waste inactivated due to product change.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037 D038 D039 D040 F001 F002 F003 F004 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139998

0013605H H Inactive 08/09/00 NA No No

Description from Generator: Waste Toluene diamine, water and debris. / Removal of pure product residue fro Waste inactivated due to product change.
Texas Form Code: 605 Reactive or polymerizable organics
EPA Form Code: W606 Resins, tars, polymer or tarry sludge
EPA Hazardous Waste Numbers: U221
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139999

EPAHO08200272

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0014207H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste Toluene diamine solution. / Removal of pure product residue from empty c Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U221
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140000

0015504H H Inactive 08/09/00 NA No No

Description from Generator: Waste floor drain sludge, sodium hydroxide. / Removal of primary wastewater sl Waste inactivated due to product change.
Texas Form Code: 504 Other inorganic wastewater treatment sludge
EPA Form Code: W504 Other sludges from wastewater treatment or air pol
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G14 Removal of tank sludge, sediments or slag
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140001

0016109H H Inactive 08/09/00 NA No No

Description from Generator: Waste sodium hydroxide and lube oils. / Removal of pure product residue from e Waste inactivated due to product change.
Texas Form Code: 109 Spent caustic
EPA Form Code: W110 Caustic aqueous waste without cyanides
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140005

EPAHO082000273

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0017208H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste Phenol and water. / Removal of pure product residue from empty cargo tan Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140008

0018105H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste sulfuric acid solution. / Removal of pure product residue from empty car Waste inactivated due to product change.
Texas Form Code: 105 Acidic aqueous waste
EPA Form Code: W105 Acidic aqueous wastes less than 5% acid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140012

0019207H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste Maleic acid and water. / Removal of pure product residue from empty carg Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140013

EPAHO08200274

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0020201H H		Inactive	08/09/00	NA	No	No

Description from Generator: Waste Cresols and water. / Removal of pure product residue from empty cargo ta Waste inactivated due to product change.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D023 D024 D025 D026
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140014

0021302H H		Inactive	08/09/00	NA	No	No

Description from Generator: Waste floor drain sludge - dirt, alkaline corrosive. / Removal of primary wast Waste inactivated due to product change.
Texas Form Code: 302 Soil contaminated with inorganics only
EPA Form Code: W301 Contaminated Soil
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G14 Removal of tank sludge, sediments or slag
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140017

0022207H H		Inactive	08/09/00	NA	No	No

Description from Generator: Waste Toluene Diisocyanate and water. / Removal of pure product residue from e Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U223
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS140103

EPAHO082000275

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0023204H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste paint and varnish remover, stripper solution. / Removal of pure product Waste inactivated due to product change.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: F002 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141039

0024201H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste tetrahydrothiopene and water. / Removal of pure product residue from emp Waste inactivated due to product change.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141495

0025207H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste thioglycolic acid and water solution. / Removal of pure product residue Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141496

EPAHO08200276

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0026105H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Waste acidic aluminum brightener (1% HF,H2504). / Spent cleaning solution from Waste inactivated due to product change.
Texas Form Code: 105 Acidic aqueous waste
EPA Form Code: W105 Acidic aqueous wastes less than 5% acid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141497

0027201H H Inactive 08/09/00 NA No No

Description from Generator: Waste Styrene monomer and water with surfactants. / Removal of pure product re Waste inactivated due to product change.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141562

0028207H H Inactive 08/09/00 NA No No

Description from Generator: Waste Styrene Monomer (90%) and water, surfactants. / Removal of pure product Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141563

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0029503H H		Inactive	08/09/00	NA	No	No

Description from Generator: Waste floor drain sludge with chloroform. / Removal of primary wastewater slud Waste inactivated due to product change.
Texas Form Code: 503 Inorganic wastewater treat sludge w/toxic organics
EPA Form Code: W503 Gypsum sludges from wastewater treatment or air po
EPA Hazardous Waste Numbers: D022
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G14 Removal of tank sludge, sediments or slag
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141565

0030219H H Inactive 08/09/00 NA No No

Description from Generator: Waste herbicides (o-dichlorobenzene, phenol, cacodylic acid , 2,4-Dichlorophenox Waste inactivated due to product change.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D004 D016
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141567

0031202H H Inactive 12/18/03 NA No No

Description from Generator: Waste Chlorobenzene. / Removal of pure product residue from empty cargo tanksprior to cleaning. / Date of initial generation: 5-1-94; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D021 U037
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141568

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0032212H H Inactive 12/18/03 NA No No

Description from Generator: Waste Methyl methacrylate (inhibited). / Removal of pure product residue fromempty cargo tanks prior to cleaning. / Date of initial generation: 5-1-94; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 212 Reactive or polymerizable organic liquids
EPA Form Code: W210 Reactive or polymerizable organic liquids and adhe
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141570

0033102H H Inactive 08/09/00 NA No No

Description from Generator: Waste tertiary butyl amnine and water / Removal of pure product residue from em Waste inactivated due to product change.
Texas Form Code: 102 Aqueous waste with low other toxic organics
EPA Form Code: W101 Very dilute aqueous waste containg more than 99% w
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141646

0034205H H Inactive 08/09/00 NA No No

Description from Generator: Waste cycloaliphatic amine and water. / Removal of pure product residue from e Waste inactivated due to product change.
Texas Form Code: 205 Oil-water emulsion or mixture
EPA Form Code: W205 Oil-water emulsion or mixture
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141646

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0035101H H Inactive 08/09/00 NA No No

Description from Generator: Waste Toluene and water / Removal of pure product residue from empty cargo tan Waste inactivated due to product change.
Texas Form Code: 101 Aqueous waste with low solvents
EPA Form Code: W101 Very dilute aqueous waste containg more than 99% w
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141649

0036207H H Inactive 08/09/00 NA No No

Description from Generator: Waste Dodecylbenzene sulfonic acid solution . / Removal of pure product residu Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS141652

0037403H H Inactive 08/09/00 NA No No

Description from Generator: Waste Phenol, water and soil, dirt and debris. / Removal of pure productresid Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
EPA Form Code: W403 Solid resins, plastics or polymerized organics
EPA Hazardous Waste Numbers: U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS142073

EPAHO08200280

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0038211H H Inactive 12/19/03 NA No No

Description from Generator: Waste pipeline flow booster compound (petroleum distillate). / Removal of pure product residue from empty cargo tanks prior to cleaning. / Date of initial generation: 5-1-94
Texas Form Code: 211 Paint thinner or petroleum distillates
EPA Form Code: W211 Paint thinner or petroleum distillates
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS142779

0039102H H Inactive 08/09/00 NA No No

Description from Generator: Waste Sethoxydin, kerosene, and water (Poast). / Removal of pure productresid Waste inactivated due to product change.
Texas Form Code: 102 Aqueous waste with low other toxic organics
EPA Form Code: W101 Very dilute aqueous waste containg more than 99% w
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS142780

0040207H H Inactive 02/15/00 NA No No

Description from Generator: Waste Maleic Anhydride and water. / Removal of pure product residue fromempty Waste inactivated due to error in submission. Waste inactivated due to error in submission.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U147
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): LTSQS139990

00411021 1 Inactive 08/09/00 NA No

Description from Generator: Waste o-Dichlorobenzene and water. / Removal of pure product residue from empt Waste inactivated due to product change.
Texas Form Code: 102 Aqueous waste with low other toxic organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS139987

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
00422071 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste water treating compound, acrylic polymer, sodium bicarbonate, sodiumcarbo Waste inactivated due to product change.					
Texas Form Code:	207 Concentrated aqueous solution of other organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS139995					
00434091 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste 1-Decanol (solid). / Removal of pure product residue from empty cargo ta Waste inactivated due to product change.					
Texas Form Code:	409 Other non-halogenated organic solids					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS140003					
00442071 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste 1-Decanol solution. / Removal of pure product residue from empty cargo t Waste inactivated due to product change.					
Texas Form Code:	207 Concentrated aqueous solution of other organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS140004					
00452061 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste lube oils and water / Used lubricating oil / Date of initial generation Waste inactivated due to product change.					
Texas Form Code:	206 Waste oil					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS140009					
00462061 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste oils, lube oils, fuel oils, dirt and water. / Removal of pure product re Waste inactivated due to product change.					
Texas Form Code:	206 Waste oil					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS140015					
00474031 1		Inactive	12/18/03	NA		No
Description from Generator:	Waste rubber hoses, PPE, gloves, suits, dirt. / Used personal protective equipment and decontaminated rubber process hoses from tank cleaning / Date of initial generation: 5-1-94.; Due to change(s) in the product produced, this waste is no longer generated.					
Texas Form Code:	403 Solid resins or polymerized organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS140016					

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83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
00482071 1		Inactive	08/09/00	NA		No
00491021 1		Inactive	08/09/00	NA		No
00504031 1		Inactive	08/09/00	NA		No
00514031 1		Inactive	07/20/00	NA		No
00524031 1		Inactive	07/20/00	NA		No
00532111 1		Inactive	08/09/00	NA		No

Description from Generator: Waste p-Diethylbenzene and water. / Removal of pure product residue fromempty Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140018

Description from Generator: Waste Trichlorodiisopropyl Thicarbonate and water. / Removal of pure product Waste inactivated due to product change.
Texas Form Code: 102 Aqueous waste with low other toxic organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140020

Description from Generator: Waste TDI Urethane and water (Reacted Toluene diisocyanate). / Removal of pur Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140021

Description from Generator: Waste HDI Urethane (reacted Hexamethylene diisocyanate) solid. / Removalof pu Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140022

Description from Generator: Waste TDI Urethane and water (reacted Toluene diisocyanate). / Removal of pure Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140024

Description from Generator: Waste pipeline flow booster compound (petroleum distillate). / Removal of pur Waste inactivated due to product change.
Texas Form Code: 211 Paint thinner or petroleum distillates
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS141038

EPAHO082000283

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
00541021 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste stripper with dichloropropene, surfactants and water. / Removal ofpure Waste inactivated due to product change.					
Texas Form Code:	102 Aqueous waste with low other toxic organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS141559					
00552021 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste p-Bromobenzene sulfonic acid ester and water. / Removal of pure product Waste inactivated due to product change.					
Texas Form Code:	202 Halogenated (e.g., chlorinated) solvent					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS141560					
00562071 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste Dodecylbenzene sulfonic acid sodium salt and water. / Removal of pure pr Waste inactivated due to product change.					
Texas Form Code:	207 Concentrated aqueous solution of other organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS141564					
00571021 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste Sodium N-methyl dithiocarbonate and water. / Removal of pure product res Waste inactivated due to product change.					
Texas Form Code:	102 Aqueous waste with low other toxic organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS141569					
00582071 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste Fatty acids and water. Removal of pure product residue from empty cargo t Waste inactivated due to product change.					
Texas Form Code:	207 Concentrated aqueous solution of other organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS141571					
00592071 1		Inactive	08/09/00	NA		No
Description from Generator:	Waste Sodium Dioctylsulfosuccinate and water. / Removal of pure product residu Waste inactivated due to product change.					
Texas Form Code:	207 Concentrated aqueous solution of other organics					
Current Management Units:	None					
* Origin Codes:	1 Onsite-process/service					
Company's Internal Code(s):	LTSQS141647					

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

00602081 1 Inactive 08/09/00 NA No
Description from Generator: Waste Dichlorophenol and water. / Removal of pure product residue from empty c Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS141650

00614032 2 Inactive 08/09/00 NA No
Description from Generator: Waste paraffin. / Removal of pure product residue from empty cargo tanksprior Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS139988

00624032 2 Inactive 08/09/00 NA No
Description from Generator: Waste PVC plastic pellets. / Removal of pure product residue from emptycargo Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140002

00633022 2 Inactive 08/09/00 NA No
Description from Generator: Waste Soda ash, soil, dirt, debris. / Clean up of class 2 nonhazardous waste s Waste inactivated due to product change.
Texas Form Code: 302 Soil contaminated with inorganics only
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 2 Spill clean-up
Company's Internal Code(s): LTSQS140006

00643022 2 Inactive 08/09/00 NA No
Description from Generator: Waste soil, rocks, dirt, debris. / Clean up of class 2 nonhazardous waste spil Waste inactivated due to product change.
Texas Form Code: 302 Soil contaminated with inorganics only
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 2 Spill clean-up
Company's Internal Code(s): LTSQS140007

00654032 2 Inactive 08/09/00 NA No
Description from Generator: Waste rubber hoses and gloves. / Used personal protective equipment and decont Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140010

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83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
00663012	2	Inactive	08/09/00	NA		No
00672072	2	Inactive	08/09/00	NA		Yes
00682092	2	Inactive	08/09/00	NA	No	Yes
00691142	2	Inactive	08/09/00	NA		No
00704032	2	Inactive	08/09/00	NA		No
00711102	2	Inactive	10/17/01	NA		Yes

00663012 2 Inactive 08/09/00 NA No
Description from Generator: Waste nonhazardous debris, soil, dirt. / Removal of pure product residuefrom Waste inactivated due to product change.
Texas Form Code: 301 Soil contaminated with organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140011

00672072 2 Inactive 08/09/00 NA Yes
Description from Generator: Waste Propylene glycol (Voranol). / Removal of pure product residue fromempty Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140019

00682092 2 Inactive 08/09/00 NA No Yes
Description from Generator: Waste latex and water. / Removal of pure product residue from empty cargo tank Waste inactivated due to product change.
Texas Form Code: 209 Organic paint, ink, lacquer, or varnish
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS140023

00691142 2 Inactive 08/09/00 NA No
Description from Generator: Waste soy bean protein solution. / Removal of pure product residue from empty Waste inactivated due to product change.
Texas Form Code: 114 Other aqueous waste with low dissolved solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS141461

00704032 2 Inactive 08/09/00 NA No
Description from Generator: Waste wax and water. / Removal of pure product residue from empty cargo tanks Waste inactivated due to product change.
Texas Form Code: 403 Solid resins or polymerized organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): LTSQS141566

00711102 2 Inactive 10/17/01 NA Yes
Description from Generator: Waste water. / Rinse water from cleaning and flushing empty cargo tanks. / D Waste inactivated due to product change.
Texas Form Code: 110 Caustic aqueous waste
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): EMPWW001

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
00722051 1		Inactive	12/19/03	NA		No

Description from Generator: Waste oil, diesel and water/Removal of residual product from empty cargo tanks prior to cleaning/Date of initial generation: 6-1-96.
Texas Form Code: 205 Oil-water emulsion or mixture
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): 8835 oil and water

0075219H H Inactive 08/09/00 NA No No

Description from Generator: Waste tolonate (hexamethylene diisocyanate) and 2-ethoxyethylacetate (HDI and pr Waste inactivated due to product change.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): HDI and presove 700, non-reactive

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0076201H H Inactive 12/18/03 NA No No

Description from Generator: Waste cresols and water/Removal of residual product from empty cargo tankspriorto cleaning/Date of initial generation: 11-1-95.; Due to change(s) inthe product produced, this waste is no longer generated.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D023 D024 D025 D026 U052
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Cresols

00771022 2 Inactive 08/09/00 NA No Yes

Description from Generator: Waste Trichlorodiisopropyl thiocarbonate and water. Removal of residual product Waste inactivated due to product change.
Texas Form Code: 102 Aqueous waste with low other toxic organics
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): TSQSI-40020

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

00792192 2 Inactive 07/20/00 NA No No

Description from Generator: Waste mixed organic liquids consisting of fatty acids, amines and alcohols, glyc Waste inactivated due to product change.
Texas Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes:
Company's Internal Code(s): MOL (mixed organic liquids)

00812102 2 Inactive 08/09/00 NA No

Description from Generator: Waste glycidyl methacrylate. Removal of residual product from empty cargotanks Waste inactivated due to product change.
Texas Form Code: 210 Adhesives or epoxies
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): glycidyl methacrylate

0082219H H Inactive 08/09/00 NA No No

Description from Generator: Waste hexamethylene diisocyanate and 2-ethoxylacetate (HDI and presolve).Remov Waste inactivated due to product change.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D003
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): HDI and presolve

0083409H H Inactive 08/09/00 NA No No

Description from Generator: Waste maleic anhydride and water. Removal of residual product from empty cargo Waste inactivated due to product change.
Texas Form Code: 409 Other non-halogenated organic solids
EPA Form Code: W409 Other organic solids
EPA Hazardous Waste Numbers: U147
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): maleic anhydride condensate

00853192 2 Inactive 08/09/00 NA No

Description from Generator: Waste blasting sand and concrete. Sand blasting material from concrete resurfac Waste inactivated due to product change.
Texas Form Code: 319 Other waste inorganic solids
Current Management Units: Misc Store Container 010
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): sand blast waste

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Refer to 40 CFR Part 261 for Descriptions of EPA Hazardous Waste Numbers.

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Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

00864092 2 Inactive 08/09/00 NA No

Description from Generator: Waste mixed organic solids, may include asphalt, fatty acid, butyl & octylpheno Waste inactivated due to product change.
Texas Form Code: 409 Other non-halogenated organic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): MOS (mixed organic solids)

0087204H H Inactive 08/09/00 NA No No

Description from Generator: Waste flammable and poisonous liquids, may contain alphatic and aromatic hydroca Waste inactivated due to product change.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D018 D023 D024 D025 D026 D030 D035 D038 U001 U002 U012 U031 U051 U052 U056 U105 U106 U112 U113 U122 U140 U154 U159 U161 U162 U165 U188 U196 U213 U220 U221 U239
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): flammable and poisonous liquids

00881132 2 Inactive 08/09/00 NA No

Description from Generator: Waste mixed aqueous liquids, may include soaps, silicates, latex, polymers, slur Waste inactivated due to product change.
Texas Form Code: 113 Other aqueous waste with high dissolved solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): MAL Mixed aqueous liquids

0090219H H Inactive 08/09/00 NA No No

Description from Generator: Waste hazardous herbicides and organic liquids, may include FAR-GO (triallate) h Waste inactivated due to product change.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U114 U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): U114, U389

EPAHO08200289

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0091504H H		Inactive	08/09/00	NA	No	No

Description from Generator: Waste floor drain sludge contaminated with tetrachloroethylene (sludge consistin Waste inactivated due to product change.
Texas Form Code: 504 Other inorganic wastewater treatment sludge
EPA Form Code: W504 Other sludges from wastewater treatment or air pol
EPA Hazardous Waste Numbers: D039
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): contaminated sludge, PCE

0092504H H Inactive 08/09/00 NA No No

Description from Generator: Waste floor drain sludge contaminated with chloroform (sludge consisting of sili Waste inactivated due to product change.
Texas Form Code: 504 Other inorganic wastewater treatment sludge
EPA Form Code: W504 Other sludges from wastewater treatment or air pol
EPA Hazardous Waste Numbers: D022
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): contaminated sludge, chloroform

00934882 2 Inactive 08/09/00 NA Yes

Description from Generator: Waste wood concrete expansion joints contaminated with class 2 wastewater. Remo Waste inactivated due to product change.
Texas Form Code: 488 Wood debris
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): wood expansion joints

0094219H H Inactive 12/19/03 NA No No

Description from Generator: Pesticides and herbicides in low pH solution (acidic characteristic.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Acidic pest/herbs

EPAHO08200290

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0095219H H Inactive 12/18/03 NA No No

Description from Generator: Waste triallate (TDTC) and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDTC and condensate

0096207H H Inactive 12/18/03 NA No No

Description from Generator: Toluene diamine and solvent blend. Removal of pure product residue, and solvent rinsing product residue, from empty cargo tanks prior to cleaning thecargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 U221
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDA and Presolve 700

0097207H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene bisdithiocarbamic acid, pesticides and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U114
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Et-bisdithiocarbamic

EPAHO082000291

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0098203H	H	Inactive	12/19/03	NA	No	No

Description from Generator: Methanol and flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U154
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): methanol and flammab

0099208H H Inactive 08/09/00 NA No No

Description from Generator: Cresols and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D023 D024 D025 U052
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): cresols

0100208H H Inactive 08/09/00 NA No No

Description from Generator: Phenol, petroleum distillates with trace levels of benzene and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D018 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): phenol, flam liquids

EPAHO082000292

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0101203H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Tetrohydrofuran and flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U213
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): THF and flam liquids

0103109H H Inactive 08/09/00 NA No No

Description from Generator: Sodium or potassium hydroxide salts, latex, resins, polymers, and hydrocarbons (aliphatic, aromatic and/or oxygenated.) Removal of solid from cleaning solution vats and removal of flammable resins from empty cargo tanks prio
Texas Form Code: 109 Spent caustic
EPA Form Code: W110 Caustic aqueous waste without cyanides
EPA Hazardous Waste Numbers: D001 D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): caustic skimmings, f

0104606H H Inactive 08/09/00 NA No No

Description from Generator: Mixed Class 1 organics (Waste Stream 00746061) contaminated with 1,2-dichloroethane. Removal of pure product residue from empty cargo tanks prior tocleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 606 Resins, tars, or tarry sludge
EPA Form Code: W606 Resins, tars, polymer or tarry sludge
EPA Hazardous Waste Numbers: D028
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): 1,2-dichloroethane a

EPAHO082000293

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0105110H	H	Inactive	12/18/03	NA	No	No

Description from Generator: Hexamethylene diamine and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 110 Caustic aqueous waste
EPA Form Code: W110 Caustic aqueous waste without cyanides
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Hexamethylenediamine

0106203H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Methylisobutylketone and flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U161
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): MIBK and flammable 1

01072112	2	Inactive	07/20/00	NA	No	No

Description from Generator: Petroleum distillates, alliphatic, aromatic and/or oxygenated hydrocarbons(TX Class 2.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 211 Paint thinner or petroleum distillates
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): class 2 solvents

EPAHO082000294

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0108201H H Inactive 12/19/03 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane), petroleum distillates, alliphatic, aromatic and/or oxygenated hydrocarbons, and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D028 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride

0109208H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane), phenol, and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 U077 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride,

0110203H H Inactive 12/18/03 NA No No

Description from Generator: Naphthalene, and flammable resins containing aliphatic, aromatic and/or oxygenated hydrocarbons. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U165
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): naphthalene and flam

EPAHO082000295

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						

0111409H H Inactive 08/09/00 NA No No

Description from Generator: Naphthalene. Removal of pure product residue from empty cargo tanks priorto cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 409 Other non-halogenated organic solids
EPA Form Code: W409 Other organic solids
EPA Hazardous Waste Numbers: U165
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): naphthalene solid

0112202H H Inactive 08/09/00 NA No No

Description from Generator: Epichlorohydrin. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 U041
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): epichlorohydrin

0113202H H Inactive 08/09/00 NA No No

Description from Generator: Epichlorohydrin, ethylene dichloride (1,2-dichloroethane), petroleum distillates, alliphatic, aromatic and/or oxygenated hydrocarbons, and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Wa
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D028 U041
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): epichlorohydrin, dce

EPAHO082000296

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0117201H H Inactive 08/09/00 NA No No

Description from Generator: Epichlorohydrin, ethylene dichloride (1,2-dichloroethane), trace benzene, petroleum distillates, alliphatic, aromatic and/or oxygenated hydrocarbons,and water. Removal of product residue from empty cargo tanks prior to clean

Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D018 D028 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): epichlorohydrin, dce

0118208H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) rinseate, phenol, and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.

Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D028 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride,

0119208H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) rinseate, phenol, epichlorohydrin, chlorinated organics and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due toproduct change.

Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 U041 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride,

EPAHO082000297

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0120208H H		Inactive	12/18/03	NA	No	No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) rinseate, petroleum distaillates,chlorinated organics and water. Removal of pure product residue from emptycargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride,

0121203H H		Inactive	08/09/00	NA	No	No

Description from Generator: Methylethylketone, flammable resins, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to pro
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 D035
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): resin and diesel, me

0122201H H		Inactive	08/09/00	NA	No	No

Description from Generator: Pipeline flow booster, 1,3-dichloropropene, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Wasteinactivated due
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 U084
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Flo1010, diesel and

EPAHO08200029B

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0123203H H		Inactive	12/18/03	NA	No	No

Description from Generator: Propylene tetramer and flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons.) Removal of pure product residue from empty cargo tanksprior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): propylene tetramer

0124204H H		Inactive	08/09/00	NA	No	No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) rinseate, toluene, xylene, chlorinated organics, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), and water. Removal of product residue from empty cargo tanks be
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D028 U220 U239
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Ethylenedichloride,

0125207H H		Inactive	12/18/03	NA	No	No

Description from Generator: Phenol, toluenediamine, and flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons.) Removal of pure product residue from empty cargotanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U188 U221
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Phenol, toluenediami

EPAHO082000299

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0126219H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) rinseate, triallate (TDTC) herbicide, and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D028 U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethyelene dichloroid

0127208H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) and methylethylketone rinseate, chlorinated organics, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), and water. Removal of product residue from cargo tanks bef

Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 D035
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethyelene dichloroid

0128208H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) and methylethylketone rinseate, phenol, chlorinated organics, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), and water.Removal of product residue from cargo ta

Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 D035 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethyelene dichloroid

EPAHO08200300

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0129208H	H	Inactive	08/09/00	NA	No	No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) and cresol rinseate, adiponitrile, chlorinated organics, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), and water.Removal of product residue from cargo tanks b
Texas Form Code: 208 Concentrated phenolics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D026 D028
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethyelene dichloroid

0130402H H Inactive 12/18/03 NA No No

Description from Generator: Triallate (TDTC) herbicide solid. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 402 Non-halogenated pesticide solid
EPA Form Code: W401 Pesticide solids
EPA Hazardous Waste Numbers: U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Triallate (TDTC) her

0131207H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) ,cresol, and nitrobenzene rinseate, phenol, dinitrobenzene, chlorinated organics and water. Removal of pureproduct residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 D036 U052 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Cresol, phenol, nitr

EPAHO08200301

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0132105H	H	Inactive	12/18/03	NA	No	No

Description from Generator: Ferric chloride and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the productproduced, this waste is no longer generated.
Texas Form Code: 105 Acidic aqueous waste
EPA Form Code: W105 Acidic aqueous wastes less than 5% acid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ferric chloride solu

0133207H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane) rinseate and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D028
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride

0134207H H Inactive 12/18/03 NA No No

Description from Generator: Amines (may include ethylamine, diethylamine, triethylamine, hexamethylenediamine, triethylene tetramine) and water. Removal of pure product residuefrom empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Amines and water

EPAHO08200302

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0135113H	H	Inactive	12/18/03	NA	No	No
0136203H	H	Inactive	12/19/03	NA	No	No
0137219H	H	Inactive	12/18/03	NA	No	No

0135113H H Inactive 12/18/03 NA No No
Description from Generator: Black liquor and caustic. Removal of pure product residue from empty cargotanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 113 Other aqueous waste with high dissolved solids
EPA Form Code: W113 Other aqueous waste or wastewaters
EPA Hazardous Waste Numbers: D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Black liquor/Caustic

0136203H H Inactive 12/19/03 NA No No
Description from Generator: Resin, solvent blend, and xylene. Removal of pure product residue, and solvent rinsing product residue, from empty cargo tanks prior to cleaning thecargo tanks.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U239
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Resin/Xylene

0137219H H Inactive 12/18/03 NA No No
Description from Generator: Triallate, phenol, and water. Removal of pure product residue from empty cargotanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U188 U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDTC/Phenol/H2O

EPAHO08200303

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0138204H H Inactive 12/18/03 NA No No

Description from Generator: Solvents, flammable liquids (aliphatic, aromatic and/or oxygenated hydrocarbons), chlorinated hydrocarbons (Non-RCRA characteristic), and water. Removal of pure product residue from empty cargo tanks prior to cleaning the ca; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Flam Solvents/Haloge

0139204H H Inactive 08/09/00 NA No No

Description from Generator: Flammable resins, 1,4-dichlorobenzene, chlorobenzene rinseate, and water.Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D021 D027 U072
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Resin/ chlorobezene

0140201H H Inactive 08/09/00 NA No No

Description from Generator: Phenol, ethylene dichloride, nitrobenzene, epichlorohydrin and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D028 D036 U041 U077 U169 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): phenol, ethylene dic

EPAHO08200304

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0141201H H Inactive 08/09/00 NA No No

Description from Generator: Ethylene dichloride, petroleum distillates, and phenol. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks. Waste inactivated due to product change.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D028 U077 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethylene dichloride,

0142207H H Inactive 12/18/03 NA No No

Description from Generator: Formaldehyde and water. Removal of pure product residue from empty cargo tanksprior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 207 Concentrated aqueous solution of other organics
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U122
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Formaldehyde & H2O

0144219H H Inactive 12/18/03 NA No No

Description from Generator: 2,4-dichlorophenoxyacetic acid, ethanol, malathion, and nitrobenzene rinseate and water. Removal of pure product residue from empty cargo tanks priorto cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 U169
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): 2,4-D/ Nitrobenzene

EPAHO082000305

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0145219H H Inactive 12/18/03 NA No No

Description from Generator: 2,4-dichlorophenoxyacetic acid, triallate, and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): 2,4-D/ TDTC

0146219H H Inactive 12/18/03 NA No No

Description from Generator: 2,4-dichlorophenoxyacetic acid, ethanol, non-rcra regulated herbicides, andwater. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): 2,4-D/Herbicides

01475191 1 Inactive 08/09/00 NA No No

Description from Generator: Sodium salts, esters, resins, adhesives, plasticizers, silicone, and latexsolids. Neutral pH. Spent cleaning solution skimmings and solids. Removal of solids from cleaning solution vats. Waste inactivated due to productchange.
Texas Form Code: 519 Other inorganic sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Neutral pH caustic s

EPAHO08200306

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0148219H H Inactive 12/18/03 NA No No

Description from Generator: Toluene diisocyanate, nitrobenzene, non-RCRA herbicides, and indulin MQK (isopropyl alcohol and fatty acid blend.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D036 U169 U223
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDI/ Nitrobenzene

0149204H H Inactive 12/19/03 NA No No

Description from Generator: Petroleum hydrocarbons and dichloroethyl ether Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 U025
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Pet Hydrocarbons / D

0150219H H Inactive 12/19/03 NA No No

Description from Generator: 2,4-dichlorophenoxyacetic acid, chlorobenzene and nitrobenzene rinseate andwater. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 D021 D036
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): D016, D021, D036 Con

EPAHO08200307

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0151219H H		Inactive	12/19/03	NA	No	No

Description from Generator: Dichloroethyl ether, ethylene dichloride, solvent blend, and non-RCRA herbicides. Removal of pure product residue, and solvent rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 U025
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): dichloroethyl ether

0152219H H Inactive 12/19/03 NA No No

Description from Generator: Ethylenediamine and water. Removal of pure product residue, and steam cleaning or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is nolonger generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Ethylenediamine

0153403H H Inactive 12/19/03 NA No No

Description from Generator: Toluene diisocyanate polymer (solid, reacted TDI.) Removal of pure productresidue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 403 Solid resins or polymerized organics
EPA Form Code: W403 Solid resins, plastics or polymerized organics
EPA Hazardous Waste Numbers: U223
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDI Solid

EPAHO08200308

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0154203H H Inactive 12/19/03 NA No No

Description from Generator: Methanol, acetonitrile, resins, and solvents (aliphatic, aromatic and/or oxygenated hydrocarbons.) Removal of pure product residue, and solvent rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U003 U154
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): methanol, acetonitri

0155219H H Inactive 12/19/03 NA No No

Description from Generator: Ethylene dichloride, o-Cresol and water. Removal of pure product residue,and steam cleaning or rinsing product residue, from empty cargo tanks priorto cleaning the cargo tanks.; Due to change(s) in the product produced, thiswaste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D023 D028 U052 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Et DiCl, o-cresol

0156102H H Inactive 12/19/03 NA No No

Description from Generator: Monosodium methyl arsonate and water. Removal of pure product residue, andwater rinsing product residue, from empty cargo tanks prior to cleaning thecargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 102 Aqueous waste with low other toxic organics
EPA Form Code: W101 Very dilute aqueous waste containg more than 99% w
EPA Hazardous Waste Numbers: D004
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): MSMA rinseate

EPAHO08200309

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0157219H H Inactive 12/19/03 NA No No

Description from Generator: Phenol, maleic anhydride, latex, polymers, oils, plastics and water. Removal of pure product residue, and steam cleaning or rinsing product residue,from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U147 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Phenol Maleic An

0158202H H Inactive 12/19/03 NA No No

Description from Generator: 1,2-Dichloroethane, p-Dichlorobenzene and water. Removal of pure product residue, and steam cleaning or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D027 D028 U072 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): PDCB, ethylene dichl

0159203H H Inactive 12/19/03 NA No No

Description from Generator: Ethyl acetate and solvents (aliphatic, aromatic and/or oxygnenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U112
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): ethyl acetate

EPAHO08200310

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0160519H H Inactive 12/19/03 NA No No

Description from Generator: Maleic anhydride and water. Removal of pure product residue, and steam cleaning or rinsing product residue, from empty cargo tanks prior to cleaningthe cargo tanks.; Due to change(s) in the product produced, this waste is nolonger generated.
Texas Form Code: 519 Other inorganic sludges
EPA Form Code: W519 Other inorganic sludges
EPA Hazardous Waste Numbers: D002 U147
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): maleic anhyd & water

0161203H H Inactive 12/19/03 NA No No

Description from Generator: Aliphatic, aromatic and/or oxygenated hydrocarbons. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Solvents

0162203H H Inactive 12/19/03 NA No No

Description from Generator: Pyridine and solvents (aliphatic, aromatic and/or oxygnenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaningthe cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 D038 U196
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Pyridine

EPAHO08200311

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0163203H H Inactive 12/19/03 NA No No

Description from Generator: Isobutanol and solvents (aliphatic, aromatic and/or oxygnenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U140
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Isobutanol

0164201H H Inactive 12/19/03 NA No No

Description from Generator: Phenol, trace levels of 1,2-dichloroethane, chlorobenzene and water. Removal of pure product residue, and steam cleaning or rinsing product residue,from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 201 Concentrated solvent-water solution
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D021 D028 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Phenol D021, D028

0165219H H Inactive 12/19/03 NA No No

Description from Generator: Water with trace levels of 2,4-dichlorophenoxyacetic acid, o-dichlorobenzene, chloroform, and 4,4-diaminodiphenlymethane. Steam cleaning, or rinsingproduct residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 D022 U070
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): D016, D022 condensat

EPAHO08200312

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0166219H H Inactive 12/19/03 NA No No

Description from Generator: 1,1,2,2-Tetrachloroethane and water with trace levels of 1,2-dichloroethane, and cresols. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D026 D028 U209
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): 1,1,2,2-Tetrachloroe

0167204H H Inactive 12/19/03 NA No No

Description from Generator: Tetrachloroethylene, diesel fuel, oils and water. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D039 U210
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TCE and diesel

0168212H H Inactive 12/19/03 NA No No

Description from Generator: Cumene hydroperoxide, cumene, acetophenone, dimethylbenzyl alcohol and water. Removal of product residue and rinsing product residue from empty cargotanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 212 Reactive or polymerizable organic liquids
EPA Form Code: W210 Reactive or polymerizable organic liquids and adhe
EPA Hazardous Waste Numbers: D001 D003
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Organic Peroxide

EPAHO08200313

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0169219H H Inactive 12/19/03 NA No No

Description from Generator: Triallate, glyphosate herbicide, methylene chloride and water. Removal of product residue and rinsing or steaming product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U080 U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Herbicide, MeCl, H2O

0171403H H Inactive 12/19/03 NA No No

Description from Generator: Personal Protective Equipment (PPE) contaminated with listed hazardous waste. PPE used by personnel cleaning empty cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 403 Solid resins or polymerized organics
EPA Form Code: W403 Solid resins, plastics or polymerized organics
EPA Hazardous Waste Numbers: U389
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): PPE 1

0172203H H Inactive 12/19/03 NA No No

Description from Generator: Furfural and solvents (aliphatic, aromatic and/or oxygnenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaningthe cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 203 Non-halogenated solvent
EPA Form Code: W203 Concentrated non-halogenated (e.g., non-chlorinate
EPA Hazardous Waste Numbers: D001 U125
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Furfural and solvent

EPAHO08200314

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0173219H H Inactive 12/19/03 NA No No

Description from Generator: Chlorotoluene, amines, alcohols, trace (1,2-dichloroethane, trichloroethylene, methyl ethyl ketone) and water. Removal of product residue and steam rinsing product residue, from empty cargo tanks prior to cleaning the cargotanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D028 D035 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): char condens 2

0174219H H Inactive 12/19/03 NA No No

Description from Generator: Toluene diisocyanate, solvent blend (aliphatic, aromatic, aminic and oxygentated hydrocarbons), trace p-cresol and water. Removal of product residueand steaming or solvent rinsing product residue, from empty cargo tanks prior to cleaning.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D025 U223
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TDI presolve p-creso

0175219H H Inactive 12/19/03 NA No No

Description from Generator: Amines and organic acids with trace benzene and solvents (aliphatic, aromatic, aminic and/or oxygnenated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D018
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): amine w/ trace D018

EPAHO0820000315

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0176219H H Inactive 12/19/03 NA No No

Description from Generator: Organic diisocyanates, diisocyanate oligomers, polymers and solvents (aromatic, aliphatic, aminic, and/or oxygentated hydrocarbons.) Removal of pure product residue, and solvent rinsing product residue, from empty cargo tanksprior to clean; Due to change(s) in the product produced, this waste is nolonger generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Diisocyate &presolve

0177219H H Inactive 12/18/03 NA No No

Description from Generator: Chloroform, trichloroethylene, methyl ethyl ketone, dimethylamine and water. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D022 D035 D040 U044 U092 U159
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): char cond 3

0178219H H Inactive 12/18/03 NA No No

Description from Generator: Chlorobenzene, napthalene, resins and water. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanks priorto cleaning the cargo tanks.; Due to change(s) in the product produced, thiswaste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D021 U037 U165
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): napth & chlorobenz

EPAHO08200316

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0179609H H		Inactive	09/18/01	NA	No	No

Description from Generator: Cargo tank residue (containing vinyl chloride, 1,2-dichloroethane) and water. Residue and rinseate from removal of residue from RCRA-empty waste cargo tanks prior to cleaning. Waste inactivated due to one-time shipment.
Texas Form Code: 609 Other organic sludges
EPA Form Code: W609 Other organic sludge
EPA Hazardous Waste Numbers: D028 D043
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Char tnk slds D28,43

0180219H H		Inactive	12/18/03	NA	No	No

Description from Generator: Trichloroethene, tetrachloroethene, naphthalene, herbicides, and water. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D039 D040 U165 U210 U228
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): TCE, PCE, Naphthalen

0181219H H		Inactive	12/18/03	NA	No	No

Description from Generator: Methyl ethyl ketone, resins, fatty acids, and water. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanksprior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D035 U159
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): MEK, resin, faty acd

EPAHO0820000317

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0182219H H Inactive 12/18/03 NA No No

Description from Generator: Carbon tetrachloride, epichlorohydrin, malathion, pesticides, and water. Removal of product residue and steam cleaning, or rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D019 U041 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): CCl4, epicl, malathi

0183202H H Inactive 12/18/03 NA No No

Description from Generator: Epichlorohydrin. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced,this waste is no longer generated.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: U041
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Epichlorohydrin

0185219H H Inactive 12/19/03 NA No No

Description from Generator: Isopropylamine, fatty amines, fatty acids and water. Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Isopropylamine

01864021 1 Inactive 12/18/03 NA No No

Description from Generator: Eptam (S-Ethyl-N,N-dipropyl thiocarbamate) and cargo tank insulation (fiberglass/cork). Removal of contaminated insulation from a cargo tank.; Due tochange(s) in the product produced, this waste is no longer generated.
Texas Form Code: 402 Non-halogenated pesticide solid
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

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Refer to 40 CFR Part 261 for Descriptions of EPA Hazardous Waste Numbers.

EPAHO0820000318

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

Company's Internal Code(s): Eptam/insulation

0187219H H Inactive 12/18/03 NA No No

Description from Generator: Acrylic acid and organic acids. Removal of pure product residue from emptycargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D002 U008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Acrylic acid

0188204H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, methylene chloride, chlorinated and non-chlorinated solvents, and water. Removal of product residue and steam cleaning, or waterrinsing product residue, from empty cargo tanks prior to cleaning the cargotanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D028 U077 U080
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): EDC, MeCl rinse

0190219H H Inactive 12/18/03 NA No No

Description from Generator: o-Toluidine, aromatic amines, alkylphenols, alkylphenol sulfides, sealants,latex, and resins. Removal of pure product residue from empty cargo tanksprior to cleaning.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: U328
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): o-Toluidine, MOL

EPAHO08200319

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0191219H H Inactive 12/18/03 NA No No

Description from Generator: Phenol, 2,4-D salts (herbicides), alkyl amines, latex, resins, and water.Removal of product residue and steam cleaning, or water rinsing product residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Phenol and 2,4-D

0192219H H Inactive 12/18/03 NA No No

Description from Generator: Epichlorohydrin and solvents (aromatic, aliphatic, aminic, halogenated and/or oxygentated hydrocarbons.) Removal of pure product residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 U041
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Epichydn & solvents

0193219H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, tetrachloroethylene, pesticide (containing chlorobenzene), solvents, and water. Removal of product residue and steam cleaning orwater rinsing residue, from empty cargo tanks prior to cleaning the cargotanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D021 D028 D039 U077 U210
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): EDC, PCE, Clbenz

EPAHO08200320

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0194202H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, chlorobenzene, solvents, sealants, resins, latex and water. Removal of product residue and steam cleaning or water rinsing residue, from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D021 D028 U037 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): EDC, Clbenz, MOL

0195219H H Inactive 12/18/03 NA No No

Description from Generator: Solvent (diesel, or solvent blends (aromatic, aliphatic, aminic, and/or oxygentated hydrocarbons), water, and Methyl Parathion. Triple rinseate fromrinsing empty cargo tanks containing methyl parathion to render containersRCRA-empty.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: P071
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Methyl Parathion

0196219H H Inactive 12/18/03 NA No No

Description from Generator: Maleic anhydride, ethanol and water. Removal of product residue and steamcleaning or water rinsing residue, from empty cargo tanks prior to cleaningthe cargo tanks.; Due to change(s) in the product produced, this waste is nolonger generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D002 U147
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G19 Other one-time intermittent processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Maleic and ethanol

EPAHO08200321

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
0197219H H		Inactive	12/18/03	NA	No	No

Description from Generator: Ethylene dichloride, characteristic herbicides (containing chloroform and tetrachloroethylene), other herbicides and water. Removal of product residue and steam cleaning residue, from empty cargo tanks prior to cleaning thecargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D022 D028 D039 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): EDC, Bicep, herbs

01981121 1		Inactive	12/19/03	NA	No	No

Description from Generator: Waste water; rinse water from cleaning & flushing empty cargo tanks.
Texas Form Code: 112 Aqueous waste with other reactives
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Class 1 wastewater

0199202H H		Inactive	12/18/03	NA	No	No

Description from Generator: Methylene chloride, carbon tetrachloride, ethylene dichloride and water. Removal of product residue and steam cleaning residue from empty cargo tanksprior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D019 D028 U077 U080 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0200202H H		Inactive	12/18/03	NA	No	No

Description from Generator: Carbon tetrachloride, herbicides, latex, resins, adhesives, glues and water. Removal of product residue and steam cleaning residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D019 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO08200322

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete
** No Longer Generated Wastes **						
02011191 1		Inactive	12/18/03	NA	No	No

Description from Generator: Sodium chlorite, nickel nitrate and water. Removal of product residue andsteam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this wasteis no longer generated.
Texas Form Code: 119 Other inorganic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

0202219H H		Inactive	12/18/03	NA	No	No

Description from Generator: Flammable pipeline flow booster, fuel additives, diesel, p-cresol, and aromatic fuels. Removal of product residue and diesel rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D025 U052
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance
Company's Internal Code(s): Flo

0203219H H		Inactive	12/18/03	NA	No	No

Description from Generator: 2,4-D salts (herbicides), carbon tetrachloride, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 D019 U211 U240
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO082000323

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0204204H H Inactive 12/18/03 NA No No

Description from Generator: Methylene chloride, vinyl acetate, chlorobenzene and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D021 U037 U080
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0205202H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, epichlorohydrin and water. Removal of product residueand steam cleaning or water rinsing residue from empty cargo tanks prior tocleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D028 U041 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0206202H H Inactive 12/18/03 NA No No

Description from Generator: Epichlorohydrin, carbon tetrachloride, phenylenediamine. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D019 U041 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO08200324

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0207202H H Inactive 12/18/03 NA No No

Description from Generator: Chlorobenzotrifluoride, ethylene dichloride, diethylsulfate, epichlorohydrin, zinc chloride, carbon tetrachloride, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D019 D028 U041 U077 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0208202H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, carbon tetrachloride, butyl chloride, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D019 D028 U077 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0209204H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, methyl ethyl ketone, carbon tetrachloride, butyl chloride, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Dueto change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D019 D028 D035 U077 U159 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO08200325

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0210202H H Inactive 12/18/03 NA No No

Description from Generator: Epichlorohydrin, methylene chloride, oil, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced,this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 U041 U080
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0211202H H Inactive 12/18/03 NA No No

Description from Generator: Chlorobenzene, tetrachloroethylene, carbon tetrachloride, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D019 D021 D039 U037 U210 U211
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0212202H H Inactive 12/18/03 NA No No

Description from Generator: Tetrachloroethylene, ethylene chloride, herbicides, and water. Removal ofproduct residue and steam cleaning or water rinsing residue from empty cargotanks prior to cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D001 D028 D039 U077 U210
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO08200326

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0213219H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride, other chlorinated organics, sulfonic acids, organic and inroganic acids, butyl phenols, and water. Removal of product residue and steam cleaning or water rinsing residue from empty cargo tanks prior to cleaning; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D002 D028 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0214219H H Inactive 12/18/03 NA No No

Description from Generator: Methyl methacrylate, petroleum distillates, aliphatic, aromatic, oxygenatedand/or amininc hydrocarbons, and water. Removal of pure product residue from empty cargo tanks before cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 U162
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0215204H H Inactive 12/18/03 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane), diisocyanates (i.e. HDI, MDI, etc. - exlcuding TDI), solvent blend (aliphatic, aromatic, oxygenated and/or amininc hydrocarbons), and water. Removal of pure product residue from empty cargo tanks; Due to change(s) in the product produced, this waste is no longer generated.

Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 D028 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO08200327

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0216219H H Inactive 12/19/03 NA No No

Description from Generator: 2,4-D salts and esters, herbicides, pesticides, and water. Rinsing and removal of pure product residue from empty cargo tanks before cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D016 U240
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0218202H H Inactive 12/19/03 NA No No

Description from Generator: Dichloropropene and water. Rinsing and removal of pure product residue from empty cargo tanks before cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: U084
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0219202H H Inactive 12/19/03 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane), dichloropropene, tetrachloroethylene, and water. Rinsing and removal of pure product residue from empty cargo tanks before cleaning the cargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 202 Halogenated (e.g., chlorinated) solvent
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: D039 U084 U210
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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EPAHO08200328

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0220219H H Inactive 12/19/03 NA No No

Description from Generator: Xylenes, aliphatic, aromatic, oxygenated and/or amininc hydrocarbons, and water. Rinsing and removal of pure product residue from empty cargo tanks before cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 U239
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0221204H H Inactive 12/19/03 NA No No

Description from Generator: Ethylene dichloride (1,2-dichloroethane), epichlorohydrin and solvent blend(aliphatic, aromatic, oxygenated and/or amininc hydrocarbons.) Rinsing andremoval of pure product residue from empty cargo tanks before cleaning thecargo tanks.; Due to change(s) in the product produced, this waste is no longer generated.
Texas Form Code: 204 Halogenated/non-halogenated solvent mixture
EPA Form Code: W204 Concentrated halogenated/non-halogenated solvent m
EPA Hazardous Waste Numbers: D001 U041 U077
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 811211 Consumer Electronics Repair and Maintenance

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0224219H H Inactive 12/19/03 NA No No

Description from Generator: Trichloroethylene, diesel, oil, cargo tank residue (flammable),solvent blend (aliphatic, aromatic, oxygenated, and/or aminic hydrocarbons), and water. Removal of residue and solvent rinsing, water rinsing or steam cleaning residue from empty product cargo tanks beforecleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code:
EPA Hazardous Waste Numbers: D001 D040 U228
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): TRICHLOROETHYLENE

EPAHO8200329

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0225219H H Inactive 12/19/03 NA No No

Description from Generator: Phenol and diesel. Removal of residue and solvent rinsing residue from empty product cargo tanks before cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 U188
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): DIESEL PHENOL

0228219H H Inactive 12/19/03 NA No No

Description from Generator: Resins, diesel, oils, gasoline, (trace benzene), solvent blend (aliphatic, aromatic, oxygenated, and/or aminic hydrocarbons), and water. Removal of residue and solvent rinsing, water rinsing orsteam cleaning residue from empty product cargo tanks before cleaning the cargo tanks.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W219 Other organic liquid
EPA Hazardous Waste Numbers: D001 D018
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G09 Other production or service-related processes
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): RESINS WATER GAS

0231219H H Inactive 12/19/03 NA No No

Description from Generator: Symtet (2,3,5,6-Tetrachloropyridine) and spent methylene chloride. Removal of product residue and solvent rinsing product residue from empty cargo tanks prior to cleaning.
Texas Form Code: 219 Other organic liquids
EPA Form Code: W202 Concentrated halogenated (e.g., chlorinated) solve
EPA Hazardous Waste Numbers: F002
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G01 Dip, flush or spray rinsing
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): SYMTET MECL

EPAHO08200330

83712 Stolt-Nielson Transporation Group Inc

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TCEQ Audit Complete

** No Longer Generated Wastes **

0232404H H Inactive 12/19/03 NA No No

Description from Generator: Activated carbon from air emissions control system with trace levels of 1,2-Dichloroethane. Removal of spent carbon from scrubber system.
Texas Form Code: 404 Spent carbon
EPA Form Code: W409 Other organic solids
EPA Hazardous Waste Numbers: D028
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: G21 Air pollution control devices (baghouse dust, etc.
* Measurement Points: 1 Before mixing
* NAICS Code: 562998 All Other Miscellaneous Waste Management Services
Company's Internal Code(s): SPENT CARBON D028

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* The first value is considered the primary value (e.g. primary origin code).
As of 03/01/2006, the next unassigned sequence number for WASTES is 0234.

Refer to 40 CFR Part 261 for Descriptions of EPA Hazardous Waste Numbers.

EPAHO08200331

83712 Stolt-Nielson Transporation Group Inc

**** UNITS AT THIS SITE MANAGING WASTE ****

Unit Number	Unit Type	Unit Status	Date of Status	Classes of Waste Managed in Unit Onsite / Offsite	Unit Permit Number	Unit # on Permit	Regulatory Status	Deed Recording Needed/Date
** 'Active', 'Closure Pending' & 'Closure Request' Units **								
001	Contain Store Area	Active	06/04/95	H/ NA	NA	NA	RCRA Pmt Exempt - Accumulation Time	NA /

Description from Company: Contained concrete area located inside and outside of the cargo tank (Conta iner-Rack) cleaning service area. The building wall seperates the inside a nd outside areas, which are both covered by a roof.

System Types: 141 Storage, bulking, and/or transfer off-site - no tr

Wastes Currently Managed in Unit: 0073203H Waste flam 0229219H Pesticide

Wastes Previously Managed in Unit:
0001207H 0002205H 0003207H 0004211H 0005207H 0006503H 0007102H 0008208H 0009212H 0010111H 0011210H
0012204H 0013605H 0014207H 0015504H 0016109H 0017208H 0018105H 0019207H 0020201H 0021302H 0022207H
0023204H 0024201H 0025207H 0026105H 0027201H 0028207H 0029503H 0030219H 0031202H 0032212H 0033102H
0034205H 0035101H 0036207H 0037403H 0038211H 0039102H 0040207H 00411021 00422071 00434091 00442071
00452061 00462061 00474031 00482071 00491021 00504031 00514031 00524031 00532111 00541021 00552021
00562071 00571021 00582071 00592071 00602081 00614032 00624032 00633022 00643022 00654032 00663012
00672072 00682092 00691142 00704032 00722051 0075219H 0076201H 00771022 00785041 00792192 0080207H
00812102 0082219H 0083409H 00842191 00853192 00864092 0087204H 00881132 0089219H 0090219H 0091504H
0092504H 00934882 0094219H 0095219H 0096207H 0097207H 0098203H 0099208H 0100208H 0101203H 0102208H
0103109H 0104606H 0105110H 0106203H 01072112 0108201H 0109208H 0110203H 0111409H 0112202H 0113202H
0114110H 0115203H 0116105H 0117201H 0118208H 0119208H 0120208H 0121203H 0122201H 0123203H 0124204H
0125207H 0126219H 0127208H 0128208H 0129208H 0130402H 0131207H 0132105H 0133207H 0134207H 0135113H
0136203H 0137219H 0138204H 0139204H 0140201H 0141201H 0142207H 01432121 0144219H 0145219H 0146219H
01475191 0148219H 0149204H 0150219H 0151219H 0152219H 0153403H 0154203H 0155219H 0156102H 0157219H
0158202H 0159203H 0160519H 0162203H 0163203H 0164201H 0165219H 0166219H 0167204H 0168212H 0169219H
0171403H 0172203H 0173219H 0174219H 0175219H 0176219H 0177219H 0178219H 0179609H 0180219H 0181219H
0182219H 0183202H 0184219H 0185219H 01864021 0187219H 0188204H 01891021 0190219H 0191219H 0192219H
0193219H 0194202H 0195219H 0196219H 0197219H 0199202H 0200202H 02011191 0202219H 0203219H 0204204H
0205202H 0206202H 0207202H 0208202H 0209204H 0210202H 0211202H 0212202H 0213219H 0214219H 0215204H
0216219H 0217219H 0218202H 0219202H 0220219H 0221204H 0222219H 0223219H 0224219H 0225219H 0226110H
02272101 0228219H 0230219H 0231219H 0232404H

002	Tank	Active	06/04/95	1/ NA	NA	NA	Non-Hazardous Regulated	NA /

Description from Company: Waste water accumulation tank, 6,000 gal capacity, with associated floor dr ains/sumps and aboveground piping. Located inside the Tankwash building.

System Types: 141 Storage, bulking, and/or transfer off-site - no tr

Wastes Currently Managed in Unit: 02331141 Wastewater

Wastes Previously Managed in Unit: 00711102 01981121

003	Misc Store Container	Active	09/26/97	/ NA	NA	NA	Non-Hazardous Regulated	NA /

Description from Company: Twenty cubic yard volume sealed bulk storage unit (rolloff container) insid e north part of tankwash cleaning building.

System Types: 141 Storage, bulking, and/or transfer off-site - no tr

Biennial System Regulatory Status: All units exempt from EPA and TX permits

Wastes Currently Managed in Unit:

Wastes Previously Managed in Unit: 00746061

EPAHO08200332

83712 Stolt-Nielson Transporation Group Inc

Unit Number	Unit Type	Unit Status	Date of Status	Classes of Waste Managed in Unit Onsite / Offsite	Unit Permit Number	Unit # on Permit	Regulatory Status	Deed Recording Needed/Date

** 'Active', 'Closure Pending' & 'Closure Request' Units **

004 Misc Store Container Active 08/09/00 2/ NA NA NA Non-Hazardous Regulated NA /
Description from Company: Eight cubic yard dumpster usually located fifty feet west of the boiler roo m, near the cargo tank cleaning service bays for trailers and containers.
Capacity: 5.0000 Capacity Unit of Measure: Y
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 01709992 Waste plan

005 Tank Active 08/09/00 1/ NA NA NA Non-Hazardous Regulated NA /
Description from Company: Waste water accumulation tank (10,000 gallon capacity, polyethylene), with associated floor drains, sumps, aboveground piping, and pumps. Located out side of Tankwash building in secondary containment area.
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 02331141 Wastewater
Wastes Previously Managed in Unit: 00711102 01981121

006 Tank Active 12/16/05 1/ NA NA NA Non-Hazardous Regulated NA /
Description from Company: Waste water accumulation tank, 6,000 gallon capacity, with associated floor drai ns/sumps and aboveground piping. Located inside the Tankwash building.
Capacity: 6000.0000 Capacity Unit of Measure: G
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 02331141 Wastewater

007 Tank Active 12/16/05 1/ NA NA NA Non-Hazardous Regulated NA /
Description from Company: Waste waste accumulation tank, 6,000 gallon capacity, with associated floor drai ns/sumps and aboveground piping. Located inside the Tankwash building.
Capacity: 6000.0000 Capacity Unit of Measure: G
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 02331141 Wastewater

008 Tank Active 12/16/05 1/ NA NA NA Non-Hazardous Regulated NA /
Description from Company: Waste water accumulation tank (10,000 gallon capacity, polyethylene), with assoc iated floor drains, sumps, aboveground piping, and pumps. Located outside of Tankwash building in secondary containment area.
Capacity: 10000.0000 Capacity Unit of Measure: G
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 02331141 Wastewater

009 Tank Active 12/16/05 1/ NA NA NA Non-Hazardous Regulated NA /
Description from Company: Waste water accumulation tank (10,000 gallon capacity, polyethylene), with assoc iated floor drains, sumps, aboveground piping, and pumps. Located outside of Tankwash building in secondary containment area.
Capacity: 10000.0000 Capacity Unit of Measure: G
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 02331141 Wastewater

EPAHO08200033

83712 Stolt-Nielson Transporation Group Inc

Unit Number	Unit Type	Unit Status	Date of Status	Classes of Waste Managed in Unit Onsite / Offsite	Unit Permit Number	Unit # on Permit	Regulatory Status	Deed Recording Needed/Date
** 'Active', 'Closure Pending' & 'Closure Request' Units **								
010	Misc Store Container	Active	03/01/06	2/ NA	NA	NA	Non-Hazardous Regulated	NA /

Description from Company: Sand blast grit from blasting pipe and equipment on -site. Sand blast grit is st
ored in drums until disposal
System Types: 141 Storage, bulking, and/or transfer off-site - no tr
Wastes Currently Managed in Unit: 00853192 Waste blas

As of 03/01/2006, the next unassigned sequence number for UNITS is 011.

EPAHO08200334

Index to NOR for Solid Waste Registration Number 83712 Stolt-Nielson Transporation Group Inc
for wastes and units

Wastes

Waste Code	Waste Description	NOR Page	Old Texas Waste Code
** Active Wastes **			
0004211H	Waste Dicyclopentadiene / Removal of pure product	2	
0009212H	Waste Toluene diisocyanate (liquid) and water. /	2	
0011210H	Waste flammable epoxy resin liquid. / Removal of	2	
0073203H	Waste flammable liquids, solvent type. Generated p	3	
00746061	Waste mixed Class 1 organics such as resins, fatty	3	
00785041	Waste floor drain sludge consisting of silicates,	3	
0080207H	Waste maleic anhydride (solid). Removal of residu	3	
00842191	Waste herbicides and mixed organic liquids, may in	4	
0089219H	Waste toluene diisocyanate and 2-ethoxyethylacetat	4	
0102208H	para-Cresol and water. Removal of pure product re	4	
0114110H	Sodium salts, esters, resins, adhesives, plasticiz	5	
0115203H	Oil additives (may contain toluene, xylenes, petro	5	
0116105H	Mineral and organic acids. May contain hydrochlor	5	
01432121	Methyacrylic acid, inhibited. Removal of pure pro	5	
01709992	Waste plant trash; office trash.	6	
0184219H	Toluene diamine, aromatic amines, herbicides, pest	6	
01891021	Herbicides, biocides, pesticides, insecticides, an	6	
0217219H	Sodium methylate, organic acids, sulfonic acids (a	6	
0222219H	Naphthalene and water. Removal of product residue	7	
0223219H	o-Toluidine and water. Removal of product residue	7	
0226110H	Corrosive/reactive sulfide and hydroxide solutions	7	
02272101	Aromatic and aliphatic diisocyanates (may include	7	
0229219H	Pesticide and water Larvin (thiodicarb), 2,4-D. Re	8	
0230219H	Vydate pesticide (Oxamyl in methanol) and water.	8	
02331141	Wastewater generated from cleaning RCRA Empty tran	8	
** Inactive Wastes **			
0001207H	Waste Red indicator dye, flammable / Removal of pu	8	
0002205H	Waste lube oil, alcohols, water, soil - flammaable	9	
0003207H	Waste Tolonate (Hexamethylene diisocyanate), metha	9	
0005207H	Waste Maleic Anhydride propionic acid and water.	9	
0006503H	Waste pesticide solution (Dursban, Sevin, Malathio	10	
0007102H	Waste pesticide solution (Dursban, Sevin, Malathio	10	
0008208H	Waste phenol and water / Removal of pure product	10	
0010111H	Waste Dimethyl Sulfide / Removal of pure product r	11	
0012204H	Waste spent halogenated and nonhalogenated solvent	11	
0013605H	Waste Toluene diamine, water and debris. / Remov	11	
0014207H	Waste Toluene diamine solution. / Removal of pur	12	
0015504H	Waste floor drain sludge, sodium hydroxide. / Re	12	
0016109H	Waste sodium hydroxide and lube oils. / Removal	12	
0017208H	Waste Phenol and water. / Removal of pure produc	13	
0018105H	Waste sulfuric acid solution. / Removal of pure	13	
0019207H	Waste Maleic acid and water. / Removal of pure p	13	
0020201H	Waste Cresols and water. / Removal of pure produ	14	
0021302H	Waste floor drain sludge - dirt, alkaline corrosiv	14	
0022207H	Waste Toluene Diisocyanate and water. / Removal	14	
0023204H	Waste paint and varnish remover, stripper solution	15	
0024201H	Waste tetrahydrothiopene and water. / Removal of	15	
0025207H	Waste thioglycolic acid and water solution. / Re	15	
0026105H	Waste acidic aluminum brightener (1% HF,H2504). /	16	
0027201H	Waste Styrene monomer and water with surfactants.	16	

EPAHO0820000335

Index to NOR for Solid Waste Registration Number 83712 Stolt-Nielson Transporation Group Inc
for wastes and units

Wastes

Waste Code	Waste Description	NOR Page	Old Texas Waste Code
0028207H	Waste Styrene Monomer (90%) and water, surfactants	16	
0029503H	Waste floor drain sludge with chloroform. / Remo	17	
0030219H	Waste herbicides (o-dichlorobenzene, phenol, cacod	17	
0031202H	Waste Chlorobenzene. / Removal of pure product res	17	
0032212H	Waste Methyl methacrylate (inhibited). / Removal o	18	
0033102H	Waste tertiary butyl amnine and water / Removal o	18	
0034205H	Waste cycloaliphatic amine and water. / Removal	18	
0035101H	Waste Toluene and water / Removal of pure produc	19	
0036207H	Waste Dodecylbenzene sulfonic acid solution . /	19	
0037403H	Waste Phenol, water and soil, dirt and debris. /	19	
0038211H	Waste pipeline flow booster compound (petroleum di	20	
0039102H	Waste Sethoxydin, kerosene, and water (Poast). /	20	
0040207H	Waste Maleic Anhydride and water. / Removal of p	20	
00411021	Waste o-Dichlorobenzene and water. / Removal of	20	
00422071	Waste water treating compound, acrylic polymer, so	21	
00434091	Waste 1-Decanol (solid). / Removal of pure produ	21	
00442071	Waste 1-Decanol solution. / Removal of pure prod	21	
00452061	Waste lube oils and water / Used lubricating oil	21	
00462061	Waste oils, lube oils, fuel oils, dirt and water.	21	
00474031	Waste rubber hoses, PPE, gloves, suits, dirt. / Us	21	
00482071	Waste p-Diethylbenzene and water. / Removal of p	22	
00491021	Waste Trichlorodiisopropyl Thicarbonate and water.	22	
00504031	Waste TDI Urethane and water (Reacted Toluene dii	22	
00514031	Waste HDI Urethane (reacted Hexamethylene diisocya	22	
00524031	Waste TDI Urethane and water (reacted Toluene diis	22	
00532111	Waste pipeline flow booster compound (petroleum di	22	
00541021	Waste stripper with dichloropropene, surfactants a	23	
00552021	Waste p-Bromobenzene sulfonic acid ester and water	23	
00562071	Waste Dodecylbenzene sulfonic acid sodium salt and	23	
00571021	Waste Sodium N-methyl dithiocarbonate and water.	23	
00582071	Waste Fatty acids and water. Removal of pure prod	23	
00592071	Waste Sodium Dioctylsulfosuccinate and water. /	23	
00602081	Waste Dichlorophenol and water. / Removal of pur	24	
00614032	Waste paraffin. / Removal of pure product residu	24	
00624032	Waste PVC plastic pellets. / Removal of pure pr	24	
00633022	Waste Soda ash, soil, dirt, debris. / Clean up o	24	
00643022	Waste soil, rocks, dirt, debris. / Clean up of c	24	
00654032	Waste rubber hoses and gloves. / Used personal p	24	
00663012	Waste nonhazardous debris, soil, dirt. / Removal	25	
00672072	Waste Propylene glycol (Voranol). / Removal of p	25	
00682092	Waste latex and water. / Removal of pure product	25	
00691142	Waste soy bean protein solution. / Removal of pu	25	
00704032	Waste wax and water. / Removal of pure product r	25	
00711102	Waste water. / Rinse water from cleaning and flu	25	
00722051	Waste oil, diesel and water/Removal of residual pr	26	
0075219H	Waste tolonate (hexamethylene diisocyanate) and 2-	26	
0076201H	Waste cresols and water/Removal of residual produc	26	
00771022	Waste Trichlorodiisopropyl thiocarbonate and water	26	
00792192	Waste mixed organic liquids consisting of fatty ac	27	
00812102	Waste glycidyl methacrylate. Removal of residual	27	
0082219H	Waste hexamethylene diisocyanate and 2-ethoxylacet	27	

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Index to NOR for Solid Waste Registration Number 83712 Stolt-Nielson Transporation Group Inc
for wastes and units

Wastes

Waste Code	Waste Description	NOR Page	Old Texas Waste Code
0083409H	Waste maleic anhydride and water. Removal of resi	27	
00853192	Waste blasting sand and concrete. Sand blasting m	27	
00864092	Waste mixed organic solids, may include asphalt, f	28	
0087204H	Waste flammable and poisonous liquids, may contain	28	
00881132	Waste mixed aqueous liquids, may include soaps, si	28	
0090219H	Waste hazardous herbicides and organic liquids, ma	28	
0091504H	Waste floor drain sludge contaminated with tetrach	29	
0092504H	Waste floor drain sludge contaminated with chlorof	29	
00934882	Waste wood concrete expansion joints contaminated	29	
0094219H	Pesticides and herbicides in low pH solution (acid	29	
0095219H	Waste triallate (TDTC) and water. Removal of pure	30	
0096207H	Toluene diamine and solvent blend. Removal of pure	30	
0097207H	Ethylene bisdithiocarbamic acid, pesticides and wa	30	
0098203H	Methanol and flammable liquids (aliphatic, aromati	31	
0099208H	Cresols and water. Removal of pure product resi	31	
0100208H	Phenol, petroleum distillates with trace levels of	31	
0101203H	Tetrohydrofuran and flammable liquids (aliphatic,	32	
0103109H	Sodium or potassium hydroxide salts, latex, resins	32	
0104606H	Mixed Class 1 organics (Waste Stream 00746061) con	32	
0105110H	Hexamethylene diamine and water. Removal of pure p	33	
0106203H	Methylisobutylketone and flammable liquids (alipha	33	
01072112	Petroleum distillates, alliphatic, aromatic and/or	33	
0108201H	Ethylene dichloride (1,2-dichloroethane), petroleu	34	
0109208H	Ethylene dichloride (1,2-dichloroethane), phenol,	34	
0110203H	Naphthalene, and flammable resins containing aliph	34	
0111409H	Naphthalene. Removal of pure product residue from	35	
0112202H	Epichlorohydrin. Removal of pure product residue	35	
0113202H	Epichlorohydrin, ethylene dichloride (1,2-dichloro	35	
0117201H	Epichlorohydrin, ethylene dichloride (1,2-dichloro	36	
0118208H	Ethylene dichloride (1,2-dichloroethane) rinseate,	36	
0119208H	Ethylene dichloride (1,2-dichloroethane) rinseate,	36	
0120208H	Ethylene dichloride (1,2-dichloroethane) rinseate,	37	
0121203H	Methylethylketone, flammable resins, flammable liq	37	
0122201H	Pipeline flow booster, 1,3-dichloropropene, flamma	37	
0123203H	Propylene tetramer and flammable liquids (aliphati	38	
0124204H	Ethylene dichloride (1,2-dichloroethane) rinseate,	38	
0125207H	Phenol, toluenediamine, and flammable liquids (ali	38	
0126219H	Ethylene dichloride (1,2-dichloroethane) rinseate,	39	
0127208H	Ethylene dichloride (1,2-dichloroethane) and methy	39	
0128208H	Ethylene dichloride (1,2-dichloroethane) and methy	39	
0129208H	Ethylene dichloride (1,2-dichloroethane) and creso	40	
0130402H	Triallate (TDTC) herbicide solid. Removal of pure	40	
0131207H	Ethylene dichloride (1,2-dichloroethane) ,cresol,	40	
0132105H	Ferric chloride and water. Removal of pure product	41	
0133207H	Ethylene dichloride (1,2-dichloroethane) rinseate	41	
0134207H	Amines (may include ethylamine, diethylamine, trie	41	
0135113H	Black liquor and caustic. Removal of pure product	42	
0136203H	Resin, solvent blend, and xylene. Removal of pure	42	
0137219H	Triallate, phenol, and water. Removal of pure prod	42	
0138204H	Solvents, flammable liquids (aliphatic, aromatic a	43	
0139204H	Flammable resins, 1,4-dichlorobenzene, chlorobenze	43	

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Index to NOR for Solid Waste Registration Number 83712 Stolt-Nielson Transporation Group Inc
for wastes and units

Wastes

Waste Code	Waste Description	NOR Page	Old Texas Waste Code
0140201H	Phenol, ethylene dichloride, nitrobenzene, epichlo	43	
0141201H	Ethylene dichloride, petroleum distillates, and ph	44	
0142207H	Formaldehyde and water. Removal of pure product re	44	
0144219H	2,4-dichlorophenoxyacetic acid, ethanol, malathion	44	
0145219H	2,4-dichlorophenoxyacetic acid, triallate, and wat	45	
0146219H	2,4-dichlorophenoxyacetic acid, ethanol, non-rcra	45	
01475191	Sodium salts, esters, resins, adhesives, plasticiz	45	
0148219H	Toluene diisocyanate, nitrobenzene, non-RCRA herbi	46	
0149204H	Petroleum hydrocarbons and dichloroethyl ether Rem	46	
0150219H	2,4-dichlorophenoxyacetic acid, chlorobenzene and	46	
0151219H	Dichloroethyl ether, ethylene dichloride, solvent	47	
0152219H	Ethylenediamine and water. Removal of pure product	47	
0153403H	Toluene diisocyanate polymer (solid, reacted TDI.)	47	
0154203H	Methanol, acetonitrile, resins, and solvents (alip	48	
0155219H	Ethylene dichloride, o-Cresol and water. Removal o	48	
0156102H	Monosodium methyl arsonate and water. Removal of p	48	
0157219H	Phenol, maleic anhydride, latex, polymers, oils, p	49	
0158202H	1,2-Dichloroethane, p-Dichlorobenzene and water. R	49	
0159203H	Ethyl acetate and solvents (aliphatic, aromatic an	49	
0160519H	Maleic anhydride and water. Removal of pure produc	50	
0161203H	Aliphatic, aromatic and/or oxygenated hydrocarbons	50	
0162203H	Pyridine and solvents (aliphatic, aromatic and/or	50	
0163203H	Isobutanol and solvents (aliphatic, aromatic and/o	51	
0164201H	Phenol, trace levels of 1,2-dichloroethane, chloro	51	
0165219H	Water with trace levels of 2,4-dichlorophenoxyacet	51	
0166219H	1,1,2,2-Tetrachloroethane and water with trace lev	52	
0167204H	Tetrachloroethylene, diesel fuel, oils and water.	52	
0168212H	Cumene hydroperoxide, cumene, acetophenone, dimeth	52	
0169219H	Triallate, glyphosate herbicide, methylene chlorid	53	
0171403H	Personal Protective Equipment (PPE) contaminated w	53	
0172203H	Furfural and solvents (aliphatic, aromatic and/or	53	
0173219H	Chlorotoluene, amines, alcohols, trace (1,2-dichlo	54	
0174219H	Toluene diisocyanate, solvent blend (aliphatic, ar	54	
0175219H	Amines and organic acids with trace benzene and so	54	
0176219H	Organic diisocyanates, diisocyanate oligomers, pol	55	
0177219H	Chloroform, trichloroethylene, methyl ethyl ketone	55	
0178219H	Chlorobenzene, napthalene, resins and water. Remov	55	
0179609H	Cargo tank residue (containing vinyl chloride, 1,2	56	
0180219H	Trichloroethene, tetrachloroethene, naphthalene, h	56	
0181219H	Methyl ethyl ketone, resins, fatty acids, and wate	56	
0182219H	Carbon tetrachloride, epichlorohydrin, malathion,	57	
0183202H	Epichlorohydrin. Removal of pure product residue f	57	
0185219H	Isopropylamine, fatty amines, fatty acids and wate	57	
01864021	Eptam (S-Ethyl-N,N-dipropyl thiocarbamate) and car	57	
0187219H	Acrylic acid and organic acids. Removal of pure pr	58	
0188204H	Ethylene dichloride, methylene chloride, chlorinat	58	
0190219H	o-Toluidine, aromatic amines, alkylphenols, alkylp	58	
0191219H	Phenol, 2,4-D salts (herbicides), alkyl amines, la	59	
0192219H	Epichlorohydrin and solvents (aromatic, aliphatic,	59	
0193219H	Ethylene dichloride, tetrachloroethylene, pesticid	59	
0194202H	Ethylene dichloride, chlorobenzene, solvents, seal	60	

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Index to NOR for Solid Waste Registration Number 83712 Stolt-Nielson Transporation Group Inc
for wastes and units

Wastes

Waste Code	Waste Description	NOR Page	Old Texas Waste Code
0195219H	Solvent (diesel, or solvent blends (aromatic, alip	60	
0196219H	Maleic anhydride, ethanol and water. Removal of pr	60	
0197219H	Ethylene dichloride, characteristic herbicides (co	61	
01981121	Waste water; rinse water from cleaning & flushing	61	
0199202H	Methylene chloride, carbon tetrachloride, ethylene	61	
0200202H	Carbon tetrachloride, herbicides, latex, resins, a	61	
02011191	Sodium chlorite, nickel nitrate and water. Removal	62	
0202219H	Flammable pipeline flow booster, fuel additives, d	62	
0203219H	2,4-D salts (herbicides), carbon tetrachloride, an	62	
0204204H	Methylene chloride, vinyl acetate, chlorobenzene a	63	
0205202H	Ethylene dichloride, epichlorohydrin and water. Re	63	
0206202H	Epichlorohydrin, carbon tetrachloride, phenylenedi	63	
0207202H	Chlorobenzotrifluoride, ethylene dichloride, dieth	64	
0208202H	Ethylene dichloride, carbon tetrachloride, butyl c	64	
0209204H	Ethylene dichloride, methyl ethyl ketone, carbon t	64	
0210202H	Epichlorohydrin, methylene chloride, oil, and wate	65	
0211202H	Chlorobenzene, tetrachloroethylene, carbon tetrach	65	
0212202H	Tetrachloroethylene, ethylene chloride, herbicides	65	
0213219H	Ethylene dichloride, other chlorinated organics, s	66	
0214219H	Methyl methacrylate, petroleum distillates, alipha	66	
0215204H	Ethylene dichloride (1,2-dichloroethane), diisocya	66	
0216219H	2,4-D salts and esters, herbicides, pesticides, an	67	
0218202H	Dichloropropene and water. Rinsing and removal of	67	
0219202H	Ethylene dichloride (1,2-dichloroethane), dichloro	67	
0220219H	Xylenes, aliphatic, aromatic, oxygenated and/or am	68	
0221204H	Ethylene dichloride (1,2-dichloroethane), epichlor	68	
0224219H	Trichloroethylene, diesel, oil, cargo tank residue	68	
0225219H	Phenol and diesel. Removal of residue and solvent	69	
0228219H	Resins, diesel, oils, gasoline, (trace benzene), s	69	
0231219H	Symtet (2,3,5,6-Tetrachloropyridine) and spent met	69	
0232404H	Activated carbon from air emissions control system	70	

Units

Unit Sequence Number	Unit Description	NOR Page
** Active, Closure Pending and Closure Request Units **		
001	Contained concrete area located inside and outside	71
002	Waste water accumulation tank, 6,000 gal capacity,	71
003	Twenty cubic yard volume sealed bulk storage unit	71
004	Eight cubic yard dumpster usually located fifty fe	72
005	Waste water accumulation tank (10,000 gallon capac	72
006	Waste water accumulation tank, 6,000 gallon capaci	72
007	Waste waste accumulation tank, 6,000 gallon capaci	72
008	Waste water accumulation tank (10,000 gallon capac	72
009	Waste water accumulation tank (10,000 gallon capac	72
010	Sand blast grit from blasting pipe and equipment o	73

EPAHO082000339

Kathleen Hartnett White, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
Larry R. Soward, *Commissioner*
Glenn Shankle, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 7, 2006

LINDA MAHER
Stolt-Nielson Transporation Group Inc
5106 HUISACHE ST
BELLAIRE TX USA 77401-4930

Re: Electronic Notice of Registration Amendment for SWR: 83712

Dear LINDA MAHER:

Thank you for the recent electronic submittal for updating your facility's Notice of Registration (NOR). The Texas Commission on Environmental Quality is pleased to provide you with a summary of the results of your electronic submittal. Your amendment(s) has been processed with the following results:

2 attempted changes were received.
2 attempted changes were updated to your NOR.

A copy of the amended NOR is enclosed for your convenience. Please review it and notify the Data Analysis Team if there are any errors.

If you have any questions or comments on the processing of your electronic NOR amendment submittal, please contact the Data Analysis Team at (512) 239-6413. If your questions are of a technical nature concerning STEERS, please call the STEERS helpline at (512) 239-6925 and leave a detailed message. Your call will be returned within 24 hours. Thank you for reporting electronically.

Sincerely,

Data Analysis and Management Team
Waste Evaluation Section, MC 129
Registration and Evaluation Division

Enclosure

EPAHO082000340

Dana Carter STOLT

From: Jamie Stieffel [jstieffel@pollutioncontrol.com]
Sent: Monday, November 17, 2008 1:20 PM
To: Dana Carter; Maya Cargle
Subject: RE: last one!

Yes, we can process as a processable solid fuel ("TF" process code). $147/dm

Thanks,
Jamie

From: Dana Carter [mailto:dcarter@cesenvironmental.com]
Sent: Monday, November 17, 2008 1:10 PM
To: Maya Cargle
Cc: Jamie Stieffel
Subject: last one!

Can you take the attached material? It carries U101.

Dana Carter
Account Manager
CES Environmental Services Inc
Office: 713-676-1460
Cell: 713-748-9804
Fax: 713-676-1676

PCI

GENERATOR'S WASTE PROFILE SHEET

COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION

Generator Name Stolt-Nielsen USA Inc

Facility Address 16300 DeZavalla Road City Channelview State TX Zip 77530

Customer Name Dana Carter (CES Environmental)

Customer Phone (713) 748-9804 Customer FAX (713) 676-1676

Generator USEPA/Federal ID# TXD000326819

Is the Generator a "Conditionally Exempt Small Quantity Generator"? ○ Yes ◉ No

Generator's S.I.C. Code (4 Digit) NA

BILLING INFORMATION (Check HERE if billing information is the same as above information) ☐

Billing Name CES Environmental Services Inc

Billing Address 4904 Griggs Road City Houston State TX Zip 77021

Billing Contact Name Juanita Thomas

Billing Phone (713) 676-1460 Billing FAX (713) 676-1676

PCI Sales Rep. Jamie Stieffel

B. WASTE STREAM INFORMATION

Name of the Waste 2,4 Dimethylphenol

Original Process Generating Waste removal of heel from RCRA empty containers

Is a representative sample provided? ☐ Yes ☒ No Is a MSDS attached? ☒ Yes ☐ No

Is there any analytical attached? ☐ Yes ☒ No

C. GENERAL CHARACTERISTICS

Color Select Odor Mild

Physical State @ 70 F 100% %Liquid Select %Sludge Select %Solid Select %Powder

Select %Gas (Aerosol) Select %Gas (Other) Select %Other

Phases Single Layer ◉ Multi Layer ○ How Many

Btu/lb <3,000 ○ 3,000-5,000 ○ 5,000-10,000 ○ >10,000 ○

PH <2.0 ○ 2.0 to 4.0 ○ 4.0 to 10.0 ○ 10.0 to 12.5 ○ >12.5 ○

Liquid Flash Point <73 F ○ 73 to 99 F ○ 100 to 139 F ○ 140 to 200 F ○ >200 F ◉ None ○

Specific Gravity 0.97 % Total Halogens Select

D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
2,4-Dimethylphenol	100%	100%		Select	Select
	Select	Select		Select	Select
	Select	Select		Select	Select

E. OTHER WASTE STREAM INFORMATION

Is this waste a "USED OIL" per 40CFR PART 279? Yes ○ No ◉

If "Yes", does the total halogen content exceed 1,000 ppm? Yes ○ No ◉

If "Yes", can you identify the "Chlorinated Constituent" present in the oil? Yes ○ No ◉

If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? Yes ○ No ◉

Does the Waste have any of the following characteristics? (Please select all that apply)

○ Oxidizer ○ Organic Peroxide ○ Water Reactive ○ Air Reactive ○ Pyrophoric ○ Dioxin
○ Radioactive ○ Infectious ○ Pathogen ○ Carcinogen ○ Etiological ○ Aerosols
○ Explosive ○ Shock Sensitive ○ Undergo Hazardous Polymerization ○ Cylinder

Does the Waste contain any of the following?

	None	or	LESS THAN	or	ACTUAL		None	or	LESS THAN	or	ACTUAL
PCB'S	◉		<50ppm ○		ppm	Sulfides	◉		<50ppm ○		ppm
Cyanides	◉		<50ppm ○		ppm	Phenolics	○		<50ppm ○		ppm

Does the waste represented by this profile contain benzene? Yes ○ No ◉

If "Yes", please list concentration in _ppm.

Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) Yes ○ No ◉

Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) Yes ○ No ◉

If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) Yes ○ No ◉

If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) Yes ◉ No ○

Does the Waste contain any Class I or Class II ozone-depleting substances? Yes ○ No ◉

If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? Yes ○ No ◉

F. SHIPPING INFORMATION:

Method of Shipment

Bulk Liquid(> 500 Gallons) ☐ Bulk Solids(roll-off box, vacuum box, etc) ☐ Lab Pack ☐

Cubic Yard Boxes ☐ Totes ☐ (Please specify size)

Drums (Select size) 55 Other (Please specify)

Shipping Frequency

Number of Units Month Quarter Year 5 Other

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes ◉ No ○ If "No", Please skip to section H.

Is this a "Universal Waste" per 40CFR part 273? Yes ○ No ◉

Is this a "Characteristic Waste"? Yes ○ No ◉

If "Yes", is it: ☐ D001 Ignitable ☐ D002 Corrosive ☐ D003 Reactive

Characteristic for Toxic Metals:

○ D004 ○ D005 ○ D006 ○ D007 ○ D008 ○ D009 ○ D010 ○ D011

Characteristic for Toxic Organics: D012 thru D043 (List all that apply)

G. R.C.R.A. CHARACTERIZATION: (Cont.)

Is this an "F" or "K" Listed waste or mixed with one? Yes ○ No ◉

If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:

Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f) Yes ◉ No ○

If "Yes", Please list all applicable waste code(s) U101

Is this a state regulated waste? Yes ◉ No ○

If "Yes", Please list all codes. 01022.08H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material? Yes ◉ No ○

Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Environmentally hazardous substance, liquid

"Reportable Quantity" (if any) lbs

Hazard Class or Division No. 9 UN/NA # UN3077 Packing Group ☐ I ☐ II ☑ III

Is this a "Poison Inhalation Hazard"? Yes ○ No ◉

If "Yes", Please indicate Hazard Zone ☐ Zone A ☐ Zone B ☐ Zone C ☐ Zone D ☐ Other

List two primary hazardous constituents: 1 2,4-Dimethylphenol 2

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name Ivan Almaguer Title Facility Manager

Signature Ivan Almaguer Date 12/2/08

Submit Clear New

THIS SPACE IS FOR PCI APPROVALS DEPARTMENT USE

Date Received APPROVER'S INITIALS _____ PROFILE NUMBER 1

PROCESS CODE PRICE TRANS

PROPER WASTE CODES

PROPER D.O.T. SHIPPING NAME

HAZARD CLASS UN NA PACKING GROUP I II III

N.O.S DESCRIPTIONS

YARD INSTRUCTIONS

NO LANDFILL CUSTOMER RUN SALES ANALYTICAL MSDS ATTACHED

NO SAMPLE APPROVAL N/H FOR METALS PER GEN. SEE ATTACHED ANALYTICAL

RUN OX. SCREEN ON INCOMING RUN COMP. ON INCOMING

FORM CODE W SYSTEM CODE H

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Identification:

- **Key:** 14357
- **Name:** 2,4-Dimethylphenol, 99% (GC)

Catalog Numbers:

AC408450000, AC408450050, AC408450250, AC408451000

Synonyms:

- 2,4-Xylenol; 4,6-DImethylphenol Benzene; 1-Hydroxy-2,4-Dimethyl
- Benzene; M-Xylenol.

Company Identification (Europe):

Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium

Company Identification (USA):

Acros Organics
One Reagent Lane
Fairlawn, NJ 07410

For information in North America, call:

- 800-ACROS-01

For information in Europe, call:

- 0032(0) 14575211

For emergencies in the US, call CHEMTREC:

- 800-424-9300

For emergencies in Europe, call:

- 0032(0) 14575299

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	Chemical Name	%	EINECS #
105-67-9	2,4-Dimethylphenol	99%	203-321-6

Hazard Symbols: XN

Risk Phrases: 21/22

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: colorless or almost colorless crystals. Caution! May be harmful if absorbed through the skin. May cause kidney damage. May cause respiratory and digestive tract irritation. Causes eye and skin irritation and possible burns.

Target Organs: Kidneys.

POTENTIAL HEALTH EFFECTS

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May cause kidney damage. A case of fatal xylenol ingestion by a long stay mental hospital patient is described. Clinical course was similar to that observed in other phenolic poisonings with active bowel sounds, nausea, vomiting, severe metabolic acidosis, hypotension, and cardiac and renal failure.

Inhalation: May cause respiratory tract irritation.

Chronic: Chronic ingestion may cause effects similar to those of acute ingestion. May cause kidney damage.

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Material will burn in a fire. Use water spray to keep fire-exposed containers cool. May polymerize explosively when involved in a fire. Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.

Extinguishing Media: Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Autoignition Temperature: Not available.

EPAHO082000346

Flash Point: 96 deg C (204.80 deg F)

Explosion Limits, lower: 1.40 vol %

Explosion Limits, upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 - HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Keep away from strong bases and metals.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in metal containers.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

EXPOSURE LIMITS

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
2,4-Dimethylphenol	none listed	none listed	none listed

OSHA Vacated PELs:

2,4-Dimethylphenol: No OSHA Vacated PELs are listed for this chemical.

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystals

EPAHO082000347

Color: colorless or almost colorless

Odor: Characteristic phenolic odor.

pH: Not available.

Vapor Pressure: 10 mm Hg @92.3

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 211 deg C

Freezing/Melting Point: 25.4-26C

Decomposition Temperature:

Solubility in water: 0.5% (25¦C)

Specific Gravity/Density: .9700g/cm3

Molecular Formula: C8H10O

Molecular Weight: 122.17

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess heat.

Incompatibilities with Other Materials: Bases - acid chlorides - acid anhydrides - oxidizing agents - corrodes steel - brass - copper - copper alloys.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

- CAS# 105-67-9: ZE5600000

LD50/LC50:

- CAS# 105-67-9: Oral, mouse: LD50 = 809 mg/kg; Oral, rat: LD50 = 3200 mg/kg; Skin, rat: LD50 = 1040 mg/kg.

Carcinogenicity:

2,4-Dimethylphenol -

- Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

EPAHO082000348

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Neurotoxicity:

No information available.

Mutagenicity:

No information available.

Other Studies:

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

- cfr. DOSE

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 105-67-9: waste number U101.

SECTION 14 - TRANSPORT INFORMATION

US DOT

- No information available

Canadian TDG

- No information available.

SECTION 15 - REGULATORY INFORMATION

EPAHO082000349

US FEDERAL

TSCA

- CAS# 105-67-9 is listed on the TSCA inventory.

Health & Safety Reporting List

- None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

- None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

- None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

- None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

- CAS# 105-67-9: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

- None of the chemicals in this product have a TPQ.

SARA Codes

- CAS # 105-67-9: acute.

Section 313

- This material contains 2,4-Dimethylphenol (CAS# 105-67-9, 99%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

- This material does not contain any hazardous air pollutants.
- This material does not contain any Class 1 Ozone depletors.
- This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

- None of the chemicals in this product are listed as Hazardous Substances under the CWA.
- CAS# 105-67-9 is listed as a Priority Pollutant under the Clean Water Act.
- CAS# 105-67-9 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

- None of the chemicals in this product are considered highly hazardous by OSHA.

EPAHO082000350

STATE

2,4-Dimethylphenol can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

- Hazard Symbols: XN
- Risk Phrases:
  - R 21/22 Harmful in contact with skin and if swallowed.
- Safety Phrases:
  - S 2 Keep out of reach of children.
  - S 28A After contact with skin, wash immediately with plenty of water.
  - S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

- CAS# 105-67-9: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

- CAS# 105-67-9 is listed on Canada's DSL List.
- This product has a WHMIS classification of D1A, D2B.
- CAS# 105-67-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

- CAS# 105-67-9: Not available.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 4/16/1999, **Revision #2 Date:** 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

EPAHO082000351

Depot

288098 - Paint Waste

10/8/08

STOLT-NEILSEN WASTE STREAMS

TABLE OF CONTENTS

Tab	TX Waste Code	Description of Waste	Profile Number
1	0073203H	**Waste Flammable Liquids, N.O.S.** Acrylic Acid Alkenyl ester sulfide Butyl Acrylate Butyl Acetate Butynediol Cumene Cylcopentane Dewatering Aid Diallylamine Dicyclopentadiene Dimethyl Disulfide Ethanol Ethyl Acetate Heavy Aromatic Hydrocarbons Isopropanol amine JEFF CAT BDMA JEFF CAT DMCHA JEFF CAT ZF-20 MCP 1652 Methy Methacrylate N,N-Dimethylaniline Naphthalene OREPREP F-501 Petroleum Distillate Polyester/Polystyrene resin Propylene Oxide Siloxane Tetrahydrofuran Trimethyl Benzene Xylene	257600
2	0234119H	**Waste Hydrogen Peroxide, aqueous solutions** Hydrogen Peroxide	288043
3	0216279H	**Waste Analine** Analine Pentane Blend	296285
4	0037403H	**Waste Solids containing flammable liquid, n.o.s.** Phenylaldol	288038

Methyl Methoxy Acetate
BU

5	0235219H	**Waste Toludines liquid** O-Toluidine	288037
6	0089219H	**Waste Acetonitrile** Acetonitrile	288001
7	0234119H	**Waste Corrosive liquid,acidic, inorganic** Hydrochloric Acid Dodecylbenzene Sulfonic Acid	288042
8	0089219H	**Waste Flammable Liquids, N.O.S.** TDI Pre-solve 777(monoether, acetone, pyrolodone)	257621
9	0009212H	**Waste Toluene Diisocyanate** Toluene Diisocyanate Hexamethylene diisocyanate Basonat HI 100	296307
10	0217219H	**Waste Sodium Methylate** Sodium Methylate Sodium Sulfide Ammonium Polysulfide Solution	257554
11	0116105H	**Waste Alkyl sulfonic acids, liquid** Dodecylbenzene Sulfonic Acid	288044
12	0115203H	**Hazardous Waste, Solid, N.O.S.** Biphenyl, Benzene	257606
13	0217219H	**Waste Corrosive liquids, N.O.S.** Diethyl Sulfate Rhodiment AT 88 Dodecylbenzene Sulfonic Acid	257599
14	0102208H	**Waste Cresols** P-Cresol	257620
15	0229219H	**Hazardous Waste, Liquid, N.O.S.** 2,4-D 2-Ethylhexyl Ester	257605
16	0230219H	**Waste Flammable Liquids, N.O.S.** Oxymyl Diesel Dupont "Vydate L" Insecticide/Nematicide Penncap-M Diesel	257598
17	0080207H	**Waste Maleic Anhydride** Maleic Anhydride, Water	257619
18	0234119H	**Waste Hydrazine Hydrate** Hydrazine Hydrate	288040
19	0233119H	**Waste Environmentally hazardous substances, liquids, n.o.s.** Sodium Sulfide Ammonium Polysulfide	288032

20	0102208H	**Waste, Phenol, Molten** Lewatit/Phenol-Mischung	288184
21	00746061	**Waste Toxic Solid Inorganics** O-Nitrophenol O-Nitroaniline Ammonium Bisulfate	288052
22	01891021	**Toxic Liquid, Inorganic, N.O.S.** 1,2,4-trichlorobenzene 1,3 - phenylenediamine 4,4'-Bipyridyl Acetochlor technical Eptam Glutaraldehyde Parquat Concentrate 3 Tolcide P875 Tris-(2-chloro-1-methylethyhl) phosate	257612
23	0217219H	**Waste Flammable Liquids, Corrosive, N.O.S.** Amino Butanol Diethenol Amine Diethylene Triamine Dimethylamin Hexamethylenediamine Hydrogen Peroxide Isophorone Diamine Methanol Amine Methyl Dietheanolamine N-Octel Amine NORAM SC (Tallow Amine) Tallow Diamine Tetraethylene pentamine Toluene Diamine TDA	257646
24	00785041	**Waste Floor Drain Sludge**	1100
25	00746061	**Dicarbonic Acid** Adipic Acid Proprietrary	1098
26	00853192	**Blasting Grit**	1095
27	Recycle	**Gasoline Water Mix**	1639

28	00746061	**Product heels** 2-ethylhexyl nitrate Alkylphenol Benzyl Alcohol Benzylaldehyde Coco Amine Corn Oil, Alkylbenzene, and Sulfolene Dimethyl Sulphoxide Dissolvine Etheylene glycol Infineum C9302 Sodium Bisulfite Tedol Tetrolite RBW505	**1047**
29	**Recycle**	**Used Tires**	**1348**
30	**00746061**	**Unused Product Heels** Glyoxal	**1987**
31	**00746061**	**MEA & TDI Waste**	**2173**

32 00746001 mea+mdi 3037

33 0271219H Acetic Acid 335987

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257600

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☑ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt - Nielson
Facility Address 16300 De Zavala Rd, Bldg. 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID # : TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Environmental Services
Billing Address 4904 Griggs Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 671 - 1676
P.C.I. Sales Rep.: J. Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: Flammable drums
Original Process Generating Waste: cleaning material from RCRA empty containers

Is a representative sample provided? ___Yes X No
Is there any Analytical attached? TCLP ___Yes X No
Is a MSDS attached? X Yes ___No
Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: Varied
Odor: ___None ___X Mild ___Strong

Physical state @ 70 F: 100 % Liquid; 0 % Sludge; 0 % Solid; 0 % Powder; 0 % Gas(Aerosol); 0 % Gas(Other); 0 % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 ___3000-5000 ___5000-10,000 X >10,000

pH: ___<2.0 ___X 2.0 to 4.0 ___X 4.0 to 10.0 ___X 10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___X 100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity_____ % Total Halogens_____

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
JEFFCAT ZF-20 (See MSDS)	6	10	polyether / polystyrene resin	6	10
JEFFCAT BDMA (See MSDS)	6	10	Isopropanol amine	6	10
JEFFCAT DMCHA (See MSDS)	6	10	M134 (See MSDS)	6	10
Cumene	6	10	ethanol	6	10
tetrahydrofuran	6	10	trimethyl Benzene	6	10
dicyclopentadiene	6	10	methy Methacrylate	6	10
			water	5	8

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	___<50ppm		___ppm	X	Sulfides	___<50ppm		___ppm
X	Cyanides	___<50ppm		___ppm	X	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

EPAHO082000358

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
f PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
X Drums(Specify size) ___85 X55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: _____Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: X D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? X Yes ___No
If "Yes", Please list all applicable waste code(s). U213, U162

Is this a state regulated waste? X Yes ___No
If "Yes", Please list all codes. 0073203 H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste flammable liquids, n.o.s.

"Reportable Quantity"(if any) NA lbs
Hazard Class or Division No. 3 UN/NA # UN1993 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bowman Title Agent for Generator
Signature Matt Bow Date 3-17-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 257600
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
ARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

June 21, 2004

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielson. We would like to amend the chemical composition to include the following: OREPREP F-501 at 5% - 10% and N,N-DIMETHYLANILINE at 5% - 10% (see msds'). If you have any question please feel free to contact me at (713) 826-1329.

Sincerely,

Matt Bowman
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Pollution Control Industries
Attn: Jaime Steiffel
Phone: (985) 209-1849
Fax: (985) 633-4814

Date: May 16, 2005

RE: Amendment for Waste Profile Number 257600

To Whom It May Concern:

CES Environmental Services, Inc. would like to amend the constituents for the PCI waste stream number 257600 for Stolt-Neilson to include Propylene Oxide (MSDS attached) at 5% to 10%. If you have any questions regarding this request you may contact me at (713) 826-1329.

Thank you,

Matt Bowman, Agent for Generator
CES Environmental Services, Inc

CES Environmental Services, Inc
4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

August 22, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielson. We would like to amend the constituents to include a mixture of heavy aromatic hydrocarbons at 5-10 percent, as well as Acrylic acid at 5-10 percent. Acrylic acid carries a U code of U008. The MSDS for these products are attached. If you have any questions please feel free to contact me at (713) 410-7789.

Sincerely,

Leanna Lehmer
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

September 8, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielson. We would like to amend the constituents to include Diallylamine at 5-10 percent. The MSDS for this product is attached. If you have any questions please feel free to contact me at (713) 410-7789.

Sincerely,

Leanna Lehmer
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

August 9, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielson. We would like to amend the constituents to include MCP 1652 at 5-10 percent, Xylene at 5-10 percent, Siloxane D4N at 5-10 percent, Alkenyl ester sulfide at 5-10 percent, Butyl Acrylate at 5-10 percent, and Ethyl Acetate at 5-10 percent. The MSDS for each of these products are attached. If you have any questions please feel free to contact me at (713) 410-7789.

Sincerely,

Leanna Lehmer
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

October 3, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielsen Transportation. We would like to amend one of the constituents, Butynediol to 50% - 100% on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

May 31, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielson. We would like to amend the chemical composition to include naphthalene at 5% to 15%. If you have any question please feel free to contact me at (713) 826-1329.

Sincerely,

Matt Bowman
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

June 20, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielsen. We would like to amend the constituents to include Dimethyl Disulfide at 0-100% on this profile. Attached is the MSDS for Dimethyl Disulfide. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana R Carter

Dana Carter
Authorized Agent for Stolt-Nielsen

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

July 17, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielsen. We would like to amend the constituents to include Nalco 8815 Dewatering Aid at 0-100% and Cylcopentane 0-100% on this profile. Attached are the MSDS for Dewatering Aid and Cyclopentane. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana Carter
Authorized Agent for Stolt-Nielsen

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

April 18, 2007

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielsen. We would like to amend the constituents to include Butyl Acetate at 0-100%. Attached is the MSDS for Butyl Acetate. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana Carter
Authorized Agent for Stolt-Nielsen

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

October 10, 2007

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257600 for Stolt-Nielsen. We would like to amend the constituents to include Methyl Methoxy Acetate at 0-100% on this profile. Attached is the MSDS for Methyl Methoxy Acetate. If you have any questions please feel free to contact me at (713) 748-9804.

Sincerely,

Dana Carter
Authorized Agent for Stolt-Nielsen

z

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288043

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT-NIELSON
Facility Address 16300 DE ESQUALLA RD #4
City CHANNELVIEW State TX Zip 77530
Customer Name: ERICA BOGAN
Customer Phone: (713) 676 - 1460
Customer Fax: (713) 676 - 16076
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes ✓No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENVIRON. SERVICES
Billing Address 4904 GRIGGS RD
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 16076
P.C.I. Sales Rep.: JAMIE STEFFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: WASTE HYDROGEN PEROXIDE
Original Process Generating Waste: REMOVAL OF HEELS FROM CONTAINERS

Is a representative sample provided? ___Yes ✓No
Is a MSDS attached? ✓Yes ___No
Is there any Analytical attached? TCLP ___Yes ✓No Other ___Yes ✓No

C. GENERAL CHARACTERISTICS:

CLEAR Color:
Odor: ___None ✓Mild ___Strong
Physical state @ 70 F: ✓% Liquid ___% Sludge ___% Solid ___% Powder ___% Gas(Aerosol) ___% Gas(Other) ___% Other
Phases: ✓Single Layer ___Multi Layer How Many?___
Btu/Lb: ___<3000 ___3000-5000 ___5000-10,000 ___>10,000

PH: ✓<2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5
Liquid Flash Point: ___<73 F ___73 to 99 F ✓100 to 139 F ___140 to 200 F ___>200 F ___None
Specific Gravity 1.23 - 1.29 % Total Halogens ___

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
HYDROGEN PEROXIDE	75	95			
WATER	05	25			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes ✓No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ✓No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? ___
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ✓No
Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ✓Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
✓	PCB'S	___<50ppm		___ppm	✓	Sulfides	___<50ppm		___ppm
✓	Cyanides	___<50ppm		___ppm	___	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ✓No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ✓No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

EPAHO082000372

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes ✓No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes ✓No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ✓Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes ✓No
PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes ✓No

F. SHIPPING INFORMATION:

Method of Shipment:
___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
✓Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)___
Container Type: ✓Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___
Shipping Frequency:
Number of Units 5 Per ___Month ___Quarter ✓Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ✓D001 Ignitable ✓D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___
Is this an "F" or "K" Listed waste or mixed with one? ___Yes ✓No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes ✓No
If "Yes", Please list all applicable waste code(s).___
this a state regulated waste? ✓Yes ___No
If "Yes", Please list all codes. 0Z34119H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ✓Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Hydrogen peroxide, aqueous solutions
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 5.1 UN/NA # UN 2014 Packing Group ___I ✓II ___III
Is this a "Poison Inhalation Hazard"? ___Yes ✓No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

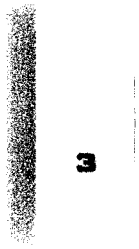
I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BOGAN Title AGENT FOR GENERATOR
Signature Erica Bogan Date 02/09/06

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 288043
PROCESS CODE ___ - ___ PRICE___ TRANS___ -
PROPER WASTE CODES ___
PROPER D.O.T. SHIPPING NAME:___
YARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
U.S. DESCRIPTORS___
YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING
FORM CODE W___ SYSTEM CODE H___



PCI

GENERATOR'S WASTE PROFILE SHEET

COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION

Generator Name Stolt-Nielson

Facility Address 16300 DeZavala Rd. Bldg. 4 City Channelview State TX Zip 77530

Customer Name Leanna Lehmer

Customer Phone (713) 410-7789 Customer FAX (713) 676-1676

Generator USEPA/Federal ID# TXD000032681 9

Is the Generator a "Conditionally Exempt Small Quantity Generator"? ○ Yes ◉ No

Generator's S.I.C. Code (4 Digit) N/A

BILLING INFORMATION (Check HERE if billing information is the same as above information) ☐

Billing Name CES Environmental Services

Billing Address 4904 Griggs Rd. City Houston State TX Zip 77021

Billing Contact Name Juanita Thomas

Billing Phone (713) 676-1460 Billing FAX (713) 676-1676

PCI Sales Rep. Jamie Steiffel

B. WASTE STREAM INFORMATION

Name of the Waste Aniline

Original Process Generating Waste Removal of heels from empty containers prior to cleaning them

Is a representative sample provided? ☐ Yes ☑ No Is a MSDS attached? ☑ Yes ☐ No

Is there any analytical attached? ☐ Yes ☑ No

C. GENERAL CHARACTERISTICS

Color colorless; turns brown when exposed to air Odor Mild

Physical State @ 70 F 100% %Liquid Select %Sludge Select %Solid Select %Powder

Select %Gas (Aerosol) Select %Gas (Other) Select %Other

Phases Single Layer ◉ Multi Layer ○ How Many

Btu/lb <3,000 ○ 3,000-5,000 ○ 5,000-10,000 ○ >10,000 ◉

PH N/A <2.0 ○ 2.0 to 4.0 ○ 4.0 to 10.0 ○ 10.0 to 12.5 ○ >12.5 ○

Liquid Flash Point <73 F ○ 73 to 99 F ○ 100 to 139 F ○ 140 to 200 F ◉ >200 F ○ None ○

Specific Gravity .9-1.1 % Total Halogens 0

D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
Aniline		100%		Select	Select
	Select	Select		Select	Select
	Select	Select		Select	Select

E. OTHER WASTE STREAM INFORMATION

Is this waste a "USED OIL" per 40CFR PART 279? Yes ○ No ◉

If "Yes", does the total halogen content exceed 1,000 ppm? Yes ○ No ○

If "Yes", can you identify the "Chlorinated Constituent" present in the oil? Yes ○ No ○

If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? Yes ○ No ○

Does the Waste have any of the following characteristics? (Please select all that apply)

○ Oxidizer ○ Organic Peroxide ○ Water Reactive ○ Air Reactive ○ Pyrophoric ○ Dioxin
○ Radioactive ○ Infectious ○ Pathogen ○ Carcinogen ○ Etiological ○ Aerosols
◉ Explosive ○ Shock Sensitive ○ Undergo Hazardous Polymerization ○ Cylinder

Does the Waste contain any of the following?

	None	or	LESS THAN	or	ACTUAL		None	or	LESS THAN	or	ACTUAL
PCB'S	◉		<50ppm ○		ppm	Sulfides	◉		<50ppm ○		ppm
Cyanides	◉		<50ppm ○		ppm	Phenolics	◉		<50ppm ○		ppm

Does the waste represented by this profile contain benzene? Yes ○ No ◉

If "Yes", please list concentration in _____ppm.

Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) Yes ○ No ◉

Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) Yes ○ No ◉

If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) Yes ○ No ◉

If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) Yes ○ No ◉

Does the Waste contain any Class I or Class II ozone-depleting substances? Yes ○ No ◉

If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? Yes ○ No ◉

F. SHIPPING INFORMATION:

Method of Shipment

Bulk Liquid(> 500 Gallons) ☐ Bulk Solids(roll-off box, vacuum box, etc) ☐ Lab Pack ☐

Cubic Yard Boxes ☐ Totes ☐ (Please specify size) _____

Drums (Select size) 55gal Other (Please specify) _____

Shipping Frequency

Number of Units _____ Month _____ Quarter 1 Year _____ Other _____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes ◉ No ○ If "No", Please skip to section H.

Is this a "Universal Waste" per 40CFR part 273? Yes ○ No ◉

Is this a "Characteristic Waste"? Yes ◉ No ○

If "Yes", is it: ☑ D001 Ignitable ☐ D002 Corrosive ☐ D003 Reactive

Characteristic for Toxic Metals:

○ D004 ○ D005 ○ D006 ○ D007 ○ D008 ○ D009 ○ D010 ○ D011

G. R.C.R.A. CHARACTERIZATION: (Cont.)

Is this an "F" or "K" Listed waste or mixed with one? Yes ○ No ◉

If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:

Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f) Yes ◉ No ○

If "Yes", Please list all applicable waste code(s) U012

Is this a state regulated waste? Yes ☑ No ○

If "Yes", Please list all codes. 0216219H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material? Yes ◉ No ○

Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Aniline

"Reportable Quantity" (if any) 5000 lbs

Hazard Class or Division No. 6.1 UN/NA # UN1547 Packing Group ☐ I ☑ II ☐ III

Is this a "Poison Inhalation Hazard"? Yes ○ No ☑

If "Yes", Please indicate Hazard Zone ☐ Zone A ☐ Zone B ☐ Zone C ☐ Zone D ☐ Other

List two primary hazardous constituents: 1 Aniline 2

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name Leanna Lehmer Title Agent for Generator

Signature Leanna Lehmer Date Aug 11, 2005

Submit Clear New

THIS SPACE IS FOR PCI APPROVALS DEPARTMENT USE

Date Received APPROVER'S INITIALS _____ PROFILE NUMBER 1

PROCESS CODE PRICE TRANS

PROPER WASTE CODES

PROPER D.O.T. SHIPPING NAME

HAZARD CLASS UN NA PACKING GROUP I II III

N.O.S DESCRIPTIONS

YARD INSTRUCTIONS

NO LANDFILL CUSTOMER RUN SALES ANALYTICAL MSDS ATTACHED

NO SAMPLE APPROVAL N/H FOR METALS PER GEN. SEE ATTACHED ANALYTICAL

RUN OX. SCREEN ON INCOMING RUN COMP. ON INCOMING

FORM CODE W SYSTEM CODE H

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

February 8, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: 800-388-7242
Fax: 219-397-6411

To Whom It May Concern:

This letter is regarding the profile number 296285 for Stolt-Nielson. We would like to amend one of the constituents, Pentane Blend at 75 – 100 % on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288038

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT-NIELSON
Facility Address 16300 DEZENDALLA RD BLDG 4
City CHANNELVIEW State TX Zip 77530
Customer Name: ERICA BOGAN
Customer Phone: (713) 676-1460
Customer Fax: (713) 676-1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes ✓No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENVIRONMENTAL SERV.
Billing Address 4904 GRIGGS RD.
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676-1460
Billing Fax: (713) 676-1676
P.C.I. Sales Rep.: J. STEIFFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: WASTE PHENYLALDOL
Original Process Generating Waste: REMOVAL OF HEEL FROM CONTAINERS

Is a representative sample provided? ___Yes ✓No
Is a MSDS attached? ✓Yes ___No
Is there any Analytical attached? TCLP ___Yes ✓No
Other ___Yes ✓No

C. GENERAL CHARACTERISTICS:

Color: Yellow
Odor: ___None ✓Mild ___Strong

Physical state @ 70 F: ___% Liquid; ___% Sludge; ✓% Solid; ___% Powder; ___% Gas(Aerosol); ___% Gas(Other); ___% Other

Phases: ✓Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 ___3000-5000 ___5000-10,000 ___>10,000

PH: ___<2.0 ___2.0 to 4.0 ✓4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ✓100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity_____ % Total Halogens_____

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
PHENYLALDOL	95	100			
WATER	0	5			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes ✓No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ✓No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ___No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
✓	PCB'S	___<50ppm		___ppm	✓	Sulfides	___<50ppm		___ppm
✓	Cyanides	___<50ppm		___ppm	✓	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ✓No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ✓No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes ✓No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes ✓No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ✓Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes ✓No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes ✓No

F. SHIPPING INFORMATION:

Method of Shipment:

___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
✓Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)___
Container Type: ✓Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___

Shipping Frequency:
Number of Units 15 Per ___Month ✓Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ✓D001 Ignitable ___D002 Corrosive ✓D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___

Is this an "F" or "K" Listed waste or mixed with one? ___Yes ✓No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes ✓No
If "Yes", Please list all applicable waste code(s).___

Is this a state regulated waste? ✓Yes ___No
If "Yes", Please list all codes. 00374O3H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ___Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (CONTAINS PHENYLALDOL)
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 4.1 UN/NA # UN3175 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes ✓No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BOGAN Title AGENT FOR GENERATOR
Signature Erica Bogan Date 02-03-06

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 288038
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___

PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS___

YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING

FORM CODE W___ SYSTEM CODE H___

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288037

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT-NIELSON
Facility Address 16300 PEZAVALA RD BLDG 4
City CHANNELVIEW State TX Zip 77530
Customer Name: MATT BOWMAN
Customer Phone: (713) 826-1329
Customer Fax: (713) 676-1676
Generator USEPA/Federal ID # :
Generator State ID # (If applicable):
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENV. SERVICES
Billing Address 4904 GRIGGS RD.
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676-1400
Billing Fax: (713) 676-1676
P.C.I. Sales Rep.: J. STIEFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: O-TOLUIDINE
Original Process Generating Waste: REMOVAL OF HEELS FROM TANK TRAILERS / CONTAINERS
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No
Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: COLORLESS
Odor: ___None ___Mild ✓ Strong

Physical state @ 70 F: ✓ % Liquid ___ % Sludge ___ % Solid ___ % Powder; ___ % Gas(Aerosol) ___ % Gas(Other) ___ % Other

Phases: ✓ Single Layer ___ Multi Layer How Many?___

Btu/Lb: ✓ <3000 ___ 3000-5000 ___ 5000-10,000 ___ >10,000

PH: ___<2.0 ___2.0 to 4.0 ✓ 4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity___ % Total Halogens___

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
O-TOLUIDINE	0	100%			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ___No

Does the Waste have any of the following characteristics? (Please check all that apply)

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None		or LESS THAN	or ACTUAL	None		or LESS THAN	or ACTUAL
X	PCB'S	___<50ppm	___ppm	X	Sulfides	___<50ppm	___ppm
X	Cyanides	___<50ppm	___ppm	X	Phenolics	___<50ppm	___ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:
___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
X Drums(Specify size) ___85 X 55 ___30 ___16 ___5 Other (Please specify)___
Container Type: X Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___
Shipping Frequency:
Number of Units 1 Per ___Month 1 Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? ___Yes X No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___
Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? X Yes ___No
If "Yes", Please list all applicable waste code(s). U328
Is this a state regulated waste? X Yes ___No
If "Yes", Please list all codes. 0235219H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: TOLUIDINES LIQUID
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 6.1 UN/NA # UN1708 Packing Group ___I ✓ II ___III
Is this a "Poison Inhalation Hazard"? ___Yes ___No
If "Yes", Please indicate Hazard Zone ✓ Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BOGAN Title AGENT FOR GENERATOR
Signature Erica R. Bogan Date 12/29/05

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 288037
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___
PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS___
YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING
FORM CODE W___ SYSTEM CODE H___

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288001

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT NIELSON
Facility Address 16300 DE ZAVALLA RD, BLDG 4
City CHANNELVIEW State TX Zip 77530
Customer Name: MATT BOWMAN
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENV. SVCS
Billing Address 4904 GRIGGS ROAD
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. STEIFFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: ACETONITRILE
Original Process Generating Waste: Removal of heels from tank trailers and containers
Is a representative sample provided? ___Yes X No
Is a MSDS attached? ___Yes X No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color:	Physical state @ 70 F		Phases	Btu/Lb
Odor:	100 % Liquid	Ø % Gas(Aerosol)	X Single Layer	___<3000
___None	Ø % Sludge	Ø % Gas(Other)	___Multi Layer	___3000-5000
X Mild	Ø % Solid	Ø % Other	How Many?___	X 5000-10,000
___Strong	Ø % Powder			___>10,000

PH: ___<2.0 ___2.0 to 4.0 X 4.0 to 10.0 ___10.0 to 12.5 ___>12.5
Liquid Flash Point: X <73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F ___>200 F ___None
Specific Gravity .78 % Total Halogens N/A

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Acetonitrile	100	100			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ___No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ___No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	___<50ppm		___ppm	X	Sulfides	___<50ppm		___ppm
X	Cyanides	___<50ppm		___ppm	X	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
X Drums(Specify size) ___85 X 55 ___30 ___16 ___5 Other (Please specify)___
Container Type: X Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___

Shipping Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? ___Yes X No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? X Yes ___No
If "Yes", Please list all applicable waste code(s). U003

Is this a state regulated waste? X Yes ___No
If "Yes", Please list all codes. 0089219H (TEXAS WASTE CODE)

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: WASTE ACETONITRILE

"Reportable Quantity"(if any) 5000 lbs
Hazard Class or Division No. 3 UN/NA # UN 1648 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents: ACETONITRILE

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) MATT BOWMAN Title AGENT FOR SOLT-NIELSON
Signature Matt Bowman Date 2-22-05

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 288001
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___

PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS___

YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING

FORM CODE W___ SYSTEM CODE H___

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288042

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT - NIELSON
Facility Address 16300 DE ZAVALA RD. BLDG. 4
City CHANNELVIEW State TX Zip 77530
Customer Name: MATT BAUMAN
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID # :
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES GNOV. SVCS
Billing Address 4904 GRIGGS RD.
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. STIEFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: ACID
Original Process Generating Waste: REMOVAL OF HEEL FROM TANK TRAILERS/ CONTAINERS
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No
Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Colorless Color:

Odor:	Physical state @ 70 F		Phases	Btu/Lb
	100 % Liquid	___% Gas(Aerosol)	✓ Single Layer	✓ <3000
___None	___% Sludge	___% Gas(Other)	___Multi Layer	___3000-5000
___Mild	___% Solid	___% Other	How Many? ___	___5000-10,000
✓ Strong	___% Powder			___>10,000

pH: ✓ <2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ✓ 140 to 200 F ___>200 F ___None

Specific Gravity ___ % Total Halogens ___

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
HYDROCHLORIC ACID	0	100%			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply)

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ✓ Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	___<50ppm		___ppm	X	Sulfides	___<50ppm		___ppm
X	Cyanides	___<50ppm		___ppm	X	Phenolics	___<50ppm		___ppm

Is the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:
___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
X Drums(Specify size) ___85 X 55 ___30 ___16 ___5 Other (Please specify)___
Container Type: X Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___
Shipping Frequency:
Number of Units 1 Per ___Month V Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: ___D001 Ignitable X D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___
Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes X No
If "Yes", Please list all applicable waste code(s).___
this a state regulated waste? X Yes ___No
If "Yes", Please list all codes. 02341191H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 8 UN/NA # UN3264 Packing Group V I ___II ___III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BOGAN Title AGENT FOR GENERATOR
Signature Erica M Bogan Date 12/29/05

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 288042
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___
PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
S. DESCRIPTORS___
YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING
FORM CODE W___ SYSTEM CODE H___

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

February 8, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: 800-388-7242
Fax: 219-397-6411

To Whom It May Concern:

This letter is regarding the profile number 288042 for Stolt-Nielson. We would like to amend one of the constituents, Dodecylbenzene Sulfonic Acid 75 – 100 % on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

EPAHO082000392

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257621

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Shell - Nielson
Facility Address 16300 DeZavalle Rd. Bldg 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID # : TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Env. Svcs.
Billing Address 4904 Gresser Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Stefanel

B. WASTE STREAM INFORMATION:

Name of the Waste: Waste TDI
Original Process Generating Waste: cleaning material from RCRA empty containers

Is a representative sample provided? ___Yes X No
Is a MSDS attached? ___Yes X No
Is there any Analytical attached? TCLP ___Yes X No
Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: Varies

Odor:
___None
X Mild
___Strong

Physical state @ 70 F:
50 % Liquid
50 % Sludge
0 % Solid
0 % Powder
0 % Gas(Aerosol)
0 % Gas(Other)
0 % Other

Phases:
X Single Layer
___Multi Layer
How Many?___

Btu/Lb:
___<3000
X 3000-5000
___5000-10,000
___>10,000

pH: ___<2.0 ___2.0 to 4.0 X 4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F X 100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity N/A % Total Halogens 0

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
TDI	90	95			
Pre-solve 777	5	10			
(monoethyl acetate, pyrrolidone)					

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	___<50ppm		___ppm	X	Sulfides	___<50ppm		___ppm
X	Cyanides	___<50ppm		___ppm	X	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
X Drums(Specify size) ___85 X 55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: X Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: X D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? X Yes ___No
If "Yes", Please list all applicable waste code(s). U223

Is this a state regulated waste? ___Yes X No
If "Yes", Please list all codes. 00892194

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste Flammable liquids, N.O.S.
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 3 UN/NA # UN1993 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Ryan Thomas Title Agent for Generator
Signature Date 6-21-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 257621
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS: ____ RUN SALES ANALYTICAL ____ MSDS ATTACHED
____ NO LANDFILL CUSTOMER ____ N/H FOR METALS PER GEN. ____SEE ATTACHED ANALYTICAL
____ NO SAMPLE APPROVAL ____ RUN OX. SCREEN ON INCOMING ____RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

POLLUTION CONTROL INDUSTRIES

4343 Kennedy Ave. East Chicago, IN 46312 1-800-388-7242
X 5485 Tay-For Drive Millington, TN 38053 1-888-724-8366
11855 Whiterock Rd. Rancho Cordova, CA 95670 916-351-0750

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielson Inc.
Facility Address 16300 De Zavalla Rd, Bldg. 4
City Channelview State TX Zip 77530
Customer Name: CES Environmental Services Inc.
Customer Phone: (713) 676-1460
Customer Fax: (713) 676-1676
Generator USEPA/Federal ID #: TXD000326819
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes ✓No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Environmental Services
Billing Address 4704 Griggs Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676-1460
Billing Fax: (713) 676-1676
P.C.I. Sales Rep.: Jamie Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: Basonat HI 100, Waste toluene diisocyanate (TDI)
Original Process Generating Waste: Removal of heel from Transportation Equipment prior to cleaning.
Is a representative sample provided? ___Yes ✓No Is a MSDS attached? ✓Yes ___No
Is there any Analytical attached? TCLP ___Yes ✓No Other ___Yes ✓No

C. GENERAL CHARACTERISTICS:

✓Color: colorless to light yellow Physical state @ 70 F
Odor: 100 % Liquid 0 % Gas(Aerosol)
___None 0 % Sludge 0 % Gas(Other)
✓Mild 0 % Solid 0 % Other
✓Strong 0 % Powder

Phases: ✓Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 ___3000-5000 ✓5000-10,000 ___>10,000

PH: N/A ___<2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5
Fluid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F ✓>200 F ___None
Specific Gravity 1.0-1.3 % Total Halogens 0

D. CHEMICAL COMPOSITION:

Constituents	Min%	Max%	Constituents	Min%	Max%
Basonat HI 100	0%	100%			
Toluene diisocyanate	0%	100%			

Total of Maximum concentration must > or = to 100%

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes ✓No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ___No N/A
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ___No N/A

Does the Waste have any of the following characteristics? (Please check all that apply)

___Oxidizer ___Organic Peroxide ✓Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ✓Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
✓	PCB'S	___<50ppm		___ppm	✓	Sulfides	___<50ppm		___ppm
✓	Cyanides	___<50ppm		___ppm	✓	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ✓No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ✓No
Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the following:

2812 2813 2815 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2875 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes ✓No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes ✓No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ✓Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes ✓No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes ✓No

F. SHIPPING INFORMATION:

Method of Shipment:

___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
✓ Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)___

Shipping Frequency:

Number of Units 2 Per ___Month ✓Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ✓D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) N/A

Is this an "F" or "K" Listed waste or mixed with one? ___Yes ✓No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32: N/A
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ✓Yes ___No
If "Yes", Please list all applicable waste code(s). U223

Is this a state regulated waste? ✓Yes ___No
If "Yes", Please list all codes. 0009212H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ✓Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: RQ 100lbs, Waste Toluene diisocyanate, 6.1, UN2078, PG II
"Reportable Quantity(if any) 100 lbs
Hazard Class or Division No. 6.1 UN/NA # UN2078 Packing Group ___I (II) ___III
Is this a "Poison Inhalation Hazard"? ___Yes ✓No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents: Toluene diisocyanate 1,6-hexamethylene diisocyanate

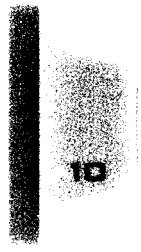
I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazardous have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Leanna Lehmer Title Agent for generator
Signature Leanna Lehmer Date 7/21/05

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___ 208590
PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N.A. DESCRIPTORS___
YARD INSTRUCTIONS: ___RUN SALES ANALYTICAL ___MSDS ATTACHED
___NO LANDFILL CUSTOMER ___N/H FOR METALS PER GEN. ___SEE ATTACHED ANALYTICAL
___NO SAMPLE APPROVAL ___RUN OX. SCREEN ON INCOMING ___RUN COMP. ON INCOMING
FORM CODE B___ SYSTEM CODE M___
NOTES:___



POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257554

Please indicate which PCI Facility(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☑ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt - Nielson
Facility Address 16300 Dezavilla Rd. Bldg 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes ✓No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Env. Svcs.
Billing Address 4904 Griggs Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Stauffer

B. WASTE STREAM INFORMATION:

Name of the Waste: Waste Sodium Methylate
Original Process Generating Waste: Removal of heels from containers

Is a representative sample provided? ___Yes ✓No
Is there any Analytical attached? TCLP ___Yes ✓No
Is a MSDS attached? ✓Yes ___No
Other ___Yes ✓No

C. GENERAL CHARACTERISTICS:

Color: clear / white
Odor: ___None ___Mild ___Strong

Physical state @ 70 F: 100 % Liquid; Ø % Sludge; Ø % Solid; Ø % Gas(Aerosol); Ø % Gas(Other); Ø % Other; Ø % Powder

Phases: ✓Single Layer ___Multi Layer How Many? ___

Btu/Lb: ___<3000 ✓3000-5000 ___5000-10,000 ___>10,000

PH: ___<2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ✓>12.5

Liquid Flash Point: ✓<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity .95 % Total Halogens Ø

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Sodium methylate (See MSDS)	100	100			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes ✓No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ___No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ✓No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
✓	PCB'S	___<50ppm		___ppm	✓	Sulfides	___<50ppm		___ppm
✓	Cyanides	___<50ppm		___ppm	✓	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ✓No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ✓No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes ✓No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes ✓No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ✓Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes ✓No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes ✓No

F. SHIPPING INFORMATION:

Method of Shipment:

___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
___Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)___
Container Type: ✓Metal ✓Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___

Shipping Frequency:
Number of Units 5 Per ___Month ___Quarter ✓Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ✓D001 Ignitable ✓D002 Corrosive ✓D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___

Is this an "F" or "K" Listed waste or mixed with one? ___Yes ✓No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes ✓No
If "Yes", Please list all applicable waste code(s).___

Is this a state regulated waste? ___Yes ✓No
If "Yes", Please list all codes. 0217219H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ✓Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste Sodium methylate,

"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 4.2 UN/NA # UN1431 Packing Group ___I ✓II ___III
Is this a "Poison Inhalation Hazard"? ___Yes ✓No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.

I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bowen Title Agent for Generator
Signature Matt Bowen Date 10-18-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 257554
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___

PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS___

YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING

FORM CODE W___ SYSTEM CODE H___

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

October 20, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257554 for Stolt-Nielsen Transportation. We would like to amend one of the constituents, Sodium Sulfide at 10-15%, and Ammonium Polysulfide Solution at 5-10% on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

EPAHO082000402

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288044

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT-NIELSON
Facility Address 16300 DE ZAVALLA RD #4
City CHANNELVIEW State TX Zip 77530
Customer Name: ERICA BROWN
Customer Phone: (713) 676 - 1460
Customer Fax: (713) 676 - 16716
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes ✓No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENVIRONMENTAL SERV.
Billing Address 4904 GRIGGS RD
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 16716
P.C.I. Sales Rep.: JAMIE STEFFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: WASTE DODECYLBENZENE SULFONIC ACID
Original Process Generating Waste: REMOVAL OF HEELS FROM CONTAINERS

Is a representative sample provided? ___Yes ✓No
Is a MSDS attached? ✓Yes ___No
Is there any Analytical attached? TCLP ___Yes ✓No
Other ___Yes ___No

C. GENERAL CHARACTERISTICS:

Brown Color:
Odor: ___None ___Mild ✓Strong

Physical state @ 70 F: ✓% Liquid ___% Sludge ___% Solid ___% Powder ___% Gas(Aerosol) ___% Gas(Other) ___% Other

Phases: ✓Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 ___3000-5000 ___5000-10,000 ___>10,000

PH: ✓<2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F ✓>200 F ___None

Specific Gravity_____ % Total Halogens_____

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
DODECYLBENZENE SUL. ACID	75	100			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes ✓No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ✓No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? _____
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ___No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ✓Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
✓	PCB'S	___<50ppm		___ppm	✓	Sulfides	___<50ppm		___ppm
✓	Cyanides	___<50ppm		___ppm	✓	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ✓No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ✓No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes ✓No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes ✓No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ✓Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes ✓No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes ✓No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
✓Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: ✓Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:
Number of Units 5 Per ___Month ___Quarter ✓Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ___D001 Ignitable ✓D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes ✓No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes ✓No
If "Yes", Please list all applicable waste code(s)._____

Is this a state regulated waste? ✓Yes ___No
If "Yes", Please list all codes. 011605H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ✓Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: ARYLSULPHONIC ACIDS, LIQUID (CONTAINS: N-DODECYL BENZENE SULPHONIC ACID 98%)
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 8 UN/NA # UN2586 Packing Group _____I _____II ✓III
Is this a "Poison Inhalation Hazard"? ___Yes ✓No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.

I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BROAN Title ACCNT FOR GENERATOR
Signature Erica Broan Date 02/09/04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 288044
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
DESCRIPTORS_____
YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

EPAHO082000405

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257606

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielsen
Facility Address 16300 De Zavalla Rd, Bldg 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 820 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Env. Services
Billing Address 4904 Griggs Rd
City Houston State Tx Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J - Stoffel

B. WASTE STREAM INFORMATION:

Name of the Waste: Biphenyl 95%
Original Process Generating Waste: Product heel from cleaning RCRA empty containers
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

White Color:
Odor: ___None X Mild ___Strong

Physical state @ 70 F: 0 % Liquid; 20 % Sludge; 80 % Solid; 0 % Powder; 0 % Gas(Aerosol); 0 % Gas(Other); 0 % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 X 3000-5000 ___5000-10,000 ___>10,000

PH: ___<2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity_____ % Total Halogens_____

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Biphenyl 95%	95	100			
water	0	5			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	<50ppm		ppm	X	Sulfides	<50ppm		ppm
X	Cyanides	<50ppm		ppm	X	Phenolics	<50ppm		ppm

Does the waste represented by this profile contain benzene? X Yes ___No
If "Yes", please list concentration in 0 - 800 ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
X Drums(Specify size) ___85 ___55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: _____Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) D018

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes X No
If "Yes", Please list all applicable waste code(s)._____

Is this a state regulated waste? ___Yes X No
If "Yes", Please list all codes. ~~TX000052681~~ 01152031,

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Hazardous waste, solid, n.o.s. (biphenyl, benzene)
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 9 UN/NA # NA 3077 Packing Group ___I ___II X III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bowman Title Agent for Generator
Signature Matt Bowman Date 4-27-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 257606
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____

YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING

FORM CODE W_____ SYSTEM CODE H_____

EPAHO082000408

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257599

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielsen
Facility Address 16300 De Zavalla Rd., Bldg. 4
City Channelview State TX Zip 77530
Customer Name: Matt Burman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Environmental Services
Billing Address 4904 Griggs Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: Diethyl Sulfate
Original Process Generating Waste: cleaning material from RCRA empty containers

Is a representative sample provided? ___Yes X No
Is there any Analytical attached? TCLP ___Yes ___No
Is a MSDS attached? X Yes ___No
Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: Varies
Odor: ___None ___Mild X Strong

Physical state @ 70 F: 100 % Liquid; 0 % Sludge; 0 % Solid; 0 % Powder; 0 % Gas(Aerosol); 0 % Gas(Other); 0 % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 X 3000-5000 ___5000-10,000 ___>10,000

PH: X <2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F X >200 F ___None

Specific Gravity N/A % Total Halogens 0

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Diethyl Sulfate (see MSDS)	93	96			
water	1	5			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) NA

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	<50ppm		ppm	X	Sulfides	<50ppm		ppm
X	Cyanides	<50ppm		ppm	X	Phenolics	<50ppm		ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
X Drums(Specify size) ___85 X 55 ___30 ___16 ___5 Other (Please specify)___
Container Type: ___Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___

Shipping Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: ___D001 Ignitable X D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)___

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes X No
If "Yes", Please list all applicable waste code(s).___
Is this a state regulated waste? X Yes ___No
If "Yes", Please list all codes. 0217219H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste Corrosive liquids, n.o.s.
"Reportable Quantity"(if any) NA lbs
Hazard Class or Division No. 8 UN/NA # UN1760 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bourne Title Agent for Generator
Signature Matt Bourne Date 3-17-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 257599
PROCESS CODE ___ ___ PRICE___ TRANS___
PROPER WASTE CODES ___

PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS___
YARD INSTRUCTIONS:
___ NO LANDFILL CUSTOMER
___ NO SAMPLE APPROVAL
___ RUN SALES ANALYTICAL
___ N/H FOR METALS PER GEN.
___ RUN OX. SCREEN ON INCOMING
___ MSDS ATTACHED
___ SEE ATTACHED ANALYTICAL
___ RUN COMP. ON INCOMING
FORM CODE W___ SYSTEM CODE H___

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

August 25, 2004

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257599 for Stolt-Nielson. We would like to amend the constituents to include Rhodiment AT 88 (msds attached) at 5-10 percent. If you have any question please feel free to contact me at (713) 826-1329.

Sincerely,

Matt Bowman
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

August 25, 2004

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257599 for Stolt-Nielson. We would like to amend the constituents to include Rhodiment AT 88 (msds attached) at 5-10 percent. If you have any question please feel free to contact me at (713) 826-1329.

Sincerely,

Matt Bowman
Authorized Agent for Stolt-Nielson

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

August 05, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257599 for Stolt-Nielson. We would like to amend the constituents to include Dodecylbenzene Sulfonic Acid at 10-15 percent. Attached is the MSDS for Dodecylbenzene Sulfonic Acid. If you have any questions please feel free to contact me at (713) 410-7789.

Sincerely,

Leanna Lehmer
Authorized Agent for Stolt-Nielson

EPAHO082000414

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257620

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt - Nielson
Facility Address 16300 DeZavalla Rd. Bls. 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowmen
Customer Phone: (713) 926 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000826819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes _X_No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Env. Svcs.
Billing Address 4904 Griggs Rd
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Stelpflug

B. WASTE STREAM INFORMATION:

Name of the Waste: Waste p-cresol
Original Process Generating Waste: cleaning material from RCRA empty containers
Is a representative sample provided? ___Yes _X_No
Is a MSDS attached? _X_Yes ___No
Is there any Analytical attached? TCLP ___Yes _X_No Other ___Yes _X_No

C. GENERAL CHARACTERISTICS:

Color: colorless
Odor: ___None _X_Mild ___Strong
Physical state @ 70 F: 100% Liquid; 0% Sludge; 0% Solid; 0% Powder; 0% Gas(Aerosol); 0% Gas(Other); 0% Other
Phases: _X_Single Layer ___Multi Layer How Many?___
Btu/Lb: ___<3000 _X_3000-5000 ___5000-10,000 ___>10,000
pH: ___<2.0 ___2.0 to 4.0 _X_4.0 to 10.0 ___10.0 to 12.5 ___>12.5
Liquid Flash Point: ___<73 F _X_73 to 99 F ___100 to 139 F ___140 to 200 F ___>200 F ___None
Specific Gravity N/A % Total Halogens 0

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
p-Cresol	98	99			
water	1	2			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes _X_No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes _X_No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes _X_No
Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None or		LESS THAN	or ACTUAL		None or		LESS THAN	or ACTUAL	
X	PCB'S	<50ppm		ppm	X	Sulfides	<50ppm		ppm
X	Cyanides	<50ppm		ppm	X	Phenolics	<50ppm		ppm

Does the waste represented by this profile contain benzene? ___Yes _X_No
If "Yes", please list concentration in ~ ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes _X_No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:
___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
X Drums(Specify size) ___85 X 55 ___30 ___16 ___5 Other (Please specify)___
Container Type: X Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___
Shipping Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other___

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) D025

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes X No
If "Yes", Please list all applicable waste code(s).___

this a state regulated waste? ___Yes X No
If "Yes", Please list all codes. 0102208H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste Cresols, liquid,

"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 6.1 UN/NA # UN2076 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes ___No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:___

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Ryan Thomas Title Agent for Generator
Signature [signature] Date 6-21-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER 257620
PROCESS CODE ___ ___ PRICE ___ TRANS___
PROPER WASTE CODES ___

PROPER D.O.T. SHIPPING NAME:___
HAZARD CLASS___ UN___ NA___ PACKING GROUP ___I ___II ___III
N... DESCRIPTORS___
YARD INSTRUCTIONS: ___ RUN SALES ANALYTICAL ___ MSDS ATTACHED
___ NO LANDFILL CUSTOMER ___ N/H FOR METALS PER GEN. ___ SEE ATTACHED ANALYTICAL
___ NO SAMPLE APPROVAL ___ RUN OX. SCREEN ON INCOMING ___ RUN COMP. ON INCOMING
FORM CODE W___ SYSTEM CODE H___

EPAHO082000417

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257605

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielson
Facility Address 16300 DeZavalla Rd. Bldg 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Environmental Services
Billing Address 4904 Griggs Road
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: 2,4-D 2-Ethylhexyl Ester Technical
Original Process Generating Waste: Product heels from cleaning RCRA empty containers (0-400 ppm 2,4-D)
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No
Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: dark
Odor: ___None ___Mild X Strong

Physical state @ 70 F: 100 % Liquid; 0 % Sludge; 0 % Solid; 0 % Powder; 0 % Gas(Aerosol); 0 % Gas(Other); 0 % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 X 3000-5000 ___5000-10,000 ___>10,000

PH: ___<2.0 X 2.0 to 4.0 ___4.0 to 10.0 X 10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F X >200 F ___None

Specific Gravity 1.152 % Total Halogens 0

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
2,4-D 2-Ethylhexyl Ester Technical	95	100			
water	0	5			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None		or LESS THAN	or ACTUAL	None		or LESS THAN	or ACTUAL
X	PCB'S	<50ppm ____	____ppm	X	Sulfides	<50ppm ____	____ppm
X	Cyanides	<50ppm ____	____ppm	X	Phenolics	<50ppm ____	____ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
__X__Drums(Specify size) ___85 ___55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: _____Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____
Shipping Frequency:
Number of Units 5-10 Per ___Month __X__Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? X Yes ___No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) D016

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes X No
If "Yes", Please list all applicable waste code(s)._____
Is this a state regulated waste? ___Yes X No
If "Yes", Please list all codes. 022921 9H,

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Hazardous Waste, Liquid, n.o.s. (2, 4-D)
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 9 UN/NA # NA 3082 Packing Group _____I _____II X III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bowman Title Agent for Generator
Signature [signature] Date 4-27-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED _____/_____/_____ APPROVER'S INITIALS_____ PROFILE NUMBER 257605
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____

YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING

FORM CODE W_____ SYSTEM CODE H_____

EPAHO082000420

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257598

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt - Nielson
Facility Address 16300 De Zevalla Rd., Bldg. 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Environmental Services
Billing Address 4904 Griggs Road
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: P-Listed Pesticides
Original Process Generating Waste: Removal of material from RCRA empty containers (from Tankwash facility)
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: clear - dark
Odor: ___None X Mild ___Strong

Physical state @ 70 F: 100 % Liquid; 0 % Sludge; 0 % Solid; 0 % Powder; 0 % Gas(Aerosol); 0 % Gas(Other); 0 % Other

Phases: X Single Layer ___Multi Layer How Many?____

Btu/Lb: ___<3000 ___3000-5000 X 5000-10,000 X >10,000

PH: ___<2.0 X 2.0 to 4.0 X 4.0 to 10.0 X 10.0 to 12.5 ___>12.5
Liquid Flash Point: ___<73 F X 73 to 99 F X 100 to 139 F ___140 to 200 F ___>200 F ___None
Specific Gravity N/A % Total Halogens N/A

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Dupont "Vydate L" Insecticide/ Nematicide	1	5	MSDS' attached		
Rennco-M	1	5			
Diesel	90	93			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	___<50ppm		___ppm	X	Sulfides	___<50ppm		___ppm
X	Cyanides	___<50ppm		___ppm	X	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

OTHER WASTE STREAM INFORMATION CONTINUED:

the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Is the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

SHIPPING INFORMATION:

thod of Shipment:
___Bulk Liquid(> 500 Gallons) ___Bulk Solids(roll-off box, vacuum box, etc) ___Lab Pack
___Cubic Yard Boxes ___Totes (Please specify size) ___
X Drums(Specify size) ___85 X55 ___30 ___16 ___5 Other (Please specify)___
ainer Type: ___Metal ___Plastic ___Fiberboard ___Combination(EX: Glass containers in metal drum)
___Other(Please describe)___
ing Frequency:
Number of Units 5 Per ___Month X Quarter ___Year Other___

C.R.A. CHARACTERIZATION:

a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
o", Please skip to section H.
"Universal Waste" per 40CFR part 273? ___Yes X No
"Characteristic Waste"? X Yes ___No
es" Is it: X D001 Ignitable ___D002 Corrosive ___D003 Reactive
aracteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
aracteristic for Toxic Organics: D012 thru D043 (please list all that apply)___

"F" or "K" Listed waste or mixed with one? ___Yes X No
s", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:___
commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under
R 261.33 (e) or (f)? X Yes ___No
", Please list all applicable waste code(s). P194

tate regulated waste? X Yes ___No
", Please list all codes. 0230219H

SHIPPING INFORMATION:

S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
ipping Name per 49CFR 172.101 Hazardous Materials Table: Waste flammable liquids, n.o.s.

e Quantity"(if any) N/A lbs
ss or Division No. 3 UN/NA # UN 1993 Packing Group ___I X II ___III
oison Inhalation Hazard"? ___Yes X No
Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
mary hazardous constituents:___

ATOR CERTIFICATION:

y that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or
ne of composition or properties exist and that all known or suspected hazards have been disclosed.
at the obtained sample is representative of the waste material described above and give PCI permission and consent to make
and corrections.

Matt Bowman Title Agent for Generator
Matt Bowman Date 3-17-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

ED ___/___/___ APPROVER'S INITIALS___ PROFILE NUMBER
___ ___ PRICE___ TRANS___ 257598
CODES ___
HIPPING NAME:___
___ UN___ NA___ PACKING GROUP ___I ___II ___III
TORS___
ONS:
___ RUN SALES ANALYTICAL ___ MSDS ATTACHED
L CUSTOMER ___ N/H FOR METALS PER GEN. ___SEE ATTACHED ANALYTICAL
APPROVAL ___ RUN OX. SCREEN ON INCOMING ___RUN COMP. ON INCOMING
SYSTEM CODE H___

EPAHO082000423

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257619

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielson
Facility Address 16300 De Zevalla Rd., Bldg. 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Env. Svcs.
Billing Address 4904 Gardner Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: Waste Maleic Anhydride
Original Process Generating Waste: Cleaning material from RCRA empty Containers
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: clear
Odor: ___None ___Mild ___Strong

Physical state @ 70 F: 100 % Liquid; 0 % Sludge; 0 % Solid; 0 % Powder; 0 % Gas(Aerosol); 0 % Gas(Other); 0 % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 ___3000-5000 X 5000-10,000 ___>10,000

PH: ___<2.0 ___2.0 to 4.0 X 4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F X >200 F ___None

Specific Gravity N/A % Total Halogens 0

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Maleic anhydride	98.5	99.5			
Water	0.5	1.5			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	<50ppm		ppm	X	Sulfides	<50ppm		ppm
X	Cyanides	<50ppm		ppm	X	Phenolics	<50ppm		ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
__X__Drums(Specify size) ___85 X55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: __X__Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:

Number of Units __5__ Per ___Month X Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? X Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? ___Yes X No
If "Yes" Is it: ___D001 Ignitable X D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? X Yes ___No
If "Yes", Please list all applicable waste code(s). U147
Is this a state regulated waste? ___Yes X No
If "Yes", Please list all codes. 00802074

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table. Waste maleic anhydride,
"Reportable Quantity"(if any) NA lbs
Hazard Class or Division No. 8 UN/NA # UN2215 Packing Group ___I ___II X III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Ray Thomas Title Agent for Generator
Signature Date 6-21-07

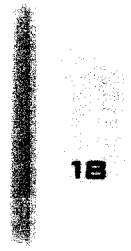
THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 257619
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____

YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING

FORM CODE W_____ SYSTEM CODE H_____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POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288040

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT-NIELSON
Facility Address 16300 DE ZEVALLA RD BLDG 4
City CHANNELVIEW State TX Zip 77530
Customer Name: ERICA BOGAN
Customer Phone: (713) 676 - 1460
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID # : TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes ✓No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENVIRONMENTAL SERV.
Billing Address 4904 GRIGGS RD.
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. STEIFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: WASTE [redacted] HYDRAZINE HYDRATE
Original Process Generating Waste: REMOVAL OF HEEL FROM CONTAINERS

Is a representative sample provided? ___Yes ✓No
Is a MSDS attached? ✓Yes ___No
Is there any Analytical attached? TCLP ___Yes ✓No
Other ___Yes ✓No

C. GENERAL CHARACTERISTICS:

CLEAR Color:
Odor:
___None
✓Mild
___Strong

Physical state @ 70 F: 100 % Liquid; ___% Sludge; ___% Solid; ___% Powder; ___% Gas(Aerosol); ___% Gas(Other); ___% Other

Phases: ✓Single Layer; ___Multi Layer; How Many?___

Btu/Lb: ___<3000; ___3000-5000; ___5000-10,000; ___>10,000

PH: ✓<2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ✓>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ✓140 to 200 F ___>200 F ___None

Specific Gravity___ % Total Halogens___

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
HYDRAZINE HYDRATE	85	95			
WATER	5	15			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes ✓No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes ✓No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes ___No

Does the Waste have any of the following characteristics? (Please check all that apply)

___Oxidizer ___Organic Peroxide ___Water Reactive ✓Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
✓	PCB'S	___<50ppm		___ppm	✓	Sulfides	___<50ppm		___ppm
✓	Cyanides	___<50ppm		___ppm	✓	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ✓No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ✓No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes ✓No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes ✓No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ✓Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes ✓No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes ✓No

F. SHIPPING INFORMATION:

Method of Shipment:
_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
✓Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: ✓Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____
Shipping Frequency:
Number of Units 1 Per ___Month ✓Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ✓D001 Ignitable ✓D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____
Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ✓Yes ___No
If "Yes", Please list all applicable waste code(s). U133
Is this a state regulated waste? ✓Yes ___No
If "Yes", Please list all codes. 02341191H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ✓Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: WASTE FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 3 UN/NA # UN 2924 Packing Group ___I X II ___III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BOGAN Title AGENT FOR GENERATOR
Signature Erica M Bogan Date 02-08-06

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 288040
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____
PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

EPAHO082000429

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288032

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: STOLT-NIELSON
Facility Address 16300 DE ZAVALLA RD. BLDG 4
City CHANNELVIEW State TX Zip 77530
Customer Name: MATT BOWMAN
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID # : TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES ENVIRONMENTAL SERVICES
Billing Address 4904 GRIGGS RD.
City HOUSTON State TX Zip 77021
Billing Contact Name: JUANITA THOMAS
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. STEIFFEL

B. WASTE STREAM INFORMATION:

Name of the Waste: WASTE CORROSIVE LIQUID TOXIC
Original Process Generating Waste: PRODUCT HEEL FROM CLEANING RCRA EMPTY CONTAINERS.
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

VARIES Color:

Odor:	Physical state @ 70 F		Phases	Btu/Lb
___None	100 % Liquid	Ø % Gas(Aerosol)	X Single Layer	X <3000
X Mild	Ø % Sludge	Ø % Gas(Other)	___Multi Layer	___3000-5000
___Strong	Ø % Solid	Ø % Other	How Many?___	___5000-10,000
	Ø % Powder			___>10,000

PH: ___<2.0 ___2.0 to 4.0 ___4.0 to 10.0 X 10.0 to 12.5 ___>12.5
Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F X 140 to 200 F ___>200 F ___None
Specific Gravity___ % Total Halogens___

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
SODIUM SULFIDE	95	100			
AMMONIUM POLYSULFIDE	95	100			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No
Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
X	PCB'S	___<50ppm		___ppm	X	Sulfides	___<50ppm		SEE MSDS ppm
___	Cyanides	___<50ppm		___ppm	___	Phenolics	___<50ppm		___ppm

Does the waste represented by this profile contain benzene? ___Yes ___No
If "Yes", please list concentration in ___ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes ___No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
✓ Drums(Specify size) ___85 ✓55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: _____Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____
Shipping Frequency:
Number of Units 1 Per ___Month ✓Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ✓Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ✓No
Is this a "Characteristic Waste"? ✓Yes ___No
If "Yes" Is it: ___D001 Ignitable ✓D002 Corrosive ✓D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes ✓No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes ✓No
If "Yes", Please list all applicable waste code(s)._____

Is this a state regulated waste? ✓Yes ___No
If "Yes", Please list all codes. 0233119H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ___Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: ~~WASTE~~ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTIVE + CORROSIVE SULFIDES)
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 9 UN/NA # 3082 Packing Group ___I ___II ✓III
Is this a "Poison Inhalation Hazard"? ___Yes ___No
If "Yes", Please indicate Hazard Zone ✓Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) ERICA BOGAN Title AGENT FOR GENERATOR
Signature Erica N. Bogan Date 12/2/05

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 288032
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____

YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING

FORM CODE W_____ SYSTEM CODE H_____

20

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288184

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielsen, Inc
Facility Address 16300 Dezavala Road
City Channelview State TX Zip 77530
Customer Name: Juan Almaguer
Customer Phone: (832) 473 - 3285
Customer Fax: (281) 860 - 6307
Generator USEPA/Federal ID # : TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): _____

BILLING INFORMATION:

Billing Name: CES Environmental
Billing Address 4904 Griggs Road
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 1676
P.C.I. Sales Rep.: J. Steifle

B. WASTE STREAM INFORMATION:

Name of the Waste: Molten Phenol
Original Process Generating Waste: Removal of product heel from RCRA empty container

Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

___Color: Varies
Odor: ___None ___Mild X Strong

Physical state @ 70 F: ___% Liquid; X % Sludge; X % Solid; ___% Powder; ___% Gas(Aerosol); ___% Gas(Other); ___% Other

Phases: ___Single Layer; X Multi Layer; How Many? 2

Btu/Lb: X <3000; ___3000-5000; ___5000-10,000; ___>10,000

PH: X <2.0 ___2.0 to 4.0 ___4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F X 140 to 200 F ___>200 F ___None

Specific Gravity _____ % Total Halogens _____

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Lewatit/Phenol-Mischung	0	100			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? NA
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply)

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None or		LESS THAN or	ACTUAL	None or		LESS THAN or	ACTUAL
___	PCB'S	___<50ppm	___ppm	___	Sulfides	___<50ppm	___ppm
___	Cyanides	___<50ppm	___ppm	X	Phenolics	___<50ppm	50% ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in NA ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

EPAHO082000433

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes _X_No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) _X_Yes ___No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) _X_Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes _X_No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes _X_No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
_X_Drums(Specify size) ___85 _X_55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: _X_Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:
Number of Units 5 Per ___Month _X_Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? _X_Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes _X_No
Is this a "Characteristic Waste"? ___Yes _X_No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes _X_No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? _X_Yes ___No
If "Yes", Please list all applicable waste code(s). U188
Is this a state regulated waste? _X_Yes ___No
If "Yes", Please list all codes. 01022208H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? _X_Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste Phenol, Molten
"Reportable Quantity"(if any) 1000 lbs
Hazard Class or Division No. 6.1 UN/NA # 2312 Packing Group ___I _X_II ___III
Is this a "Poison Inhalation Hazard"? ___Yes _X_No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Dana Carter Title Agent for Generator
Signature Dana Carter Date 6/30/10

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 288184
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____
PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS: ____ RUN SALES ANALYTICAL ____ MSDS ATTACHED
____ NO LANDFILL CUSTOMER ____ N/H FOR METALS PER GEN. ____SEE ATTACHED ANALYTICAL
____ NO SAMPLE APPROVAL ____ RUN OX. SCREEN ON INCOMING ____RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

Rineco

819 Vulcan Road -- Haskell
P.O. Box 729, Benton, AR 72015
Office (501) 778-9089 Fax (501) 778-0201

Prepared by: Dana Carter

FOR OFFICE USE ONLY
Account Rep:
Region:

I. WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the water for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name: Stolt-Neilsen Inc
Address: 16300 Dezavala Road
Channelview, TX 77530
USEPA I.D. No. TXD000326819
State I.D. No. 83712
Phone: 832-473-3285
Fax: 281-860-6307
Technical Contact: Dana Carter
Title: Agent for Generator
24 hour Emergency Contact: Dana Carter
24 hour Phone: 713-748-9804
Is this material located or generated in a foreign country? N
Foreign Address:

II. GENERAL INFORMATION

Material Name: Molten Phenol

- ☐ A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?
- ☐ B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?
- ☐ C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?
- ☐ D. Is waste a spent solvent as defined in 40 CFR 261.31 ?
- ☐ E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: removal of product heel from RCRA empty containers

Anticipated Monthly Volume: 1-4 drums
Bulk: ☐ Drum: ☒ Other: ☐ Explain:

III. MATERIAL COMPOSITION

Component	Concentration Min	Max	Actual	PPM
Lewatit/Phenol-Molten	0-100			

IV. PHYSICAL CHARACTERISTICS

Physical State: ☒ Solid ☒ Semi-Solid ☐ Liquid
Free Liquid: ☐ Yes ☒ No
Viscosity: ☐ Low ☒ Medium ☒ High
Layers: ☐ Single ☐ Bi-Layered ☒ Multi
Odor: ☐ None ☐ Mild ☒ Strong

Flash Point: ☐ < 73F ☐ 73F - 140F ☒ 140F - 200F ☐ > 200F

pH: ☒ < 2 ☐ > 12.5
Actual pH: N/D

Density: BTU: <3000

V. OTHER CHARACTERISTICS

☐ Explosive	☐ Dioxin
☐ Radioactive	☐ Shock Sensitive
☐ Sulfide	☐ PCB
☐ Etiological	☐ Cyanide
☐ Pyrophoric	☐ Water Reactive

VI. SHIPPING INFORMATION

DOT Hazardous Material [X] Yes [ ] No ER Guide Page #- _____

Proper Shipping name: Waste Phenol, Molten

Hazard Class and Division: 6.1 UN or NA: 2312 Packaging Group: II

[X] Yes [ ] No If Yes: 1000 lbs Special Provisions: _____

USEPA HAZARDOUS WASTE: [X] Yes [ ] No

Waste I.D. Numbers: U188

(State waste code - 01022208H

VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24. Check only if waste exceeds regulatory threshold levels and include analytical date if available.

Constituent	Regulatory level	TCLP PPM	Total Know-ledge PPM	Constituent	Regulatory level	TCLP PPM	Total Know-ledge ppM
D004 Arsenic	5.000			D024 m-Cresol	200.000		
D005 Barium	100.000			D025 p-Cresol	200.000		
D006 Cadmium	1.000			D026 Cresol	200.000		
D007 Chromium	5.000			D027 1,4.Dichlorobenzene	7.500		
D008 Lead	5.000			D028 1,2.Dichloroethane	0.500		
D009 Mercury	0.200			D029 1,1 Dichloroethylene	0.700		
D010 Selenium	1.000			DO30 2,4 Dinitrotoluene	0.130		
DO11 Silver	5.000			D031 Heptachlor	0.010		
DO12 Edrin	0.020			D032 Hexachlorobenzene	0.130		
DO13 Lindane	0.400			D033 Hexachlorobutadiene	0.500		
DO14 Methoxychlor	10.000			D034 Hexachloroethane	3.000		
D015 Toxaphene	0.500			D035 Methyl Ethyl Ketone	200.000		
D016 2,4 Dichlorophenoxyacetic ac	10.000			D036 Nitrobenzene	2.000		
D017 2,4,5 TP Silvex	1.000			DO37 Pentachlorophenol	100.000		
D018 Benzene	0.500			DO38 Pyridine	5.000		
DO19 Carbon Tetrachloride	0.500			DO39 Tetrachloroethylene	0.700		
D020 Chlordane	0.030			D040 Trichloroethylene	0.500		
D021 Chlorobenzene	100.000			DO41 2,4,5 Trichlorophenol	400.000		
D022 Chloroform	6.000			DO42 2,4,6 Trichlorophenol	2.000		
D023 o-Cresol	200.000			D043 Vinyl Chloride	0.200		

V111. Benzene Waste Operations NESHAP Generator Certification. Complete only if DO18 and/or UO19 appear in section VI (shipping information).

	Yes	No
1. Is this waste generated by an industry with any of the following SIC Codes: 2911,2800-2899,3312 or 4953?	[ ]	[X]
2. Does this stream have Benzene concentration of 10 ppm or more?	[ ]	[X]
3. Does this stream contain greater than 10% moisture?	[ ]	[X]
4. Is this company's Total Annual Benzene (TAB) of 10 Mg or greater per year?	[ ]	[X]

AUTHORIZATION TO CORRECT WASTE MATERIAL PROFILE SHEET: In the event Rineco determines that it is necessary to make corrections on this Waste Material Profile Sheet to make the information herein consistent with the results of the sample characterization and/or applicable federal and state statutes and regulations. Rineco will contact the Generator and receive oral authorization to make such corrections. Generator [X] does [ ] does not hereby authorize Rineco to make such changes pursuant to this paragraph.

GENERATOR CERTIFICATION: THIS CERTIFICATION IS REQUIRED FOR EACH PROFILE.

This above information is to be held confidential and is true and accurate to the best of my knowledge.

Signature Dana Carter Date: July 6, 2006

Print Name: Dana Carter Title Agent for Generator

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 288052

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☐ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielsen Inc
Facility Address 16300 Dezavala Road
City Channelview State TX Zip 77530
Customer Name: Juan Almaguer
Customer Phone: (832) 473 - 3285
Customer Fax: (281) 860 - 6307
Generator USEPA/Federal ID #: TXD000326819
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): _____

BILLING INFORMATION:

Billing Name: CES Environmental
Billing Address 4904 Griggs Road
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676 - 1460
Billing Fax: (713) 676 - 6776
P.C.I. Sales Rep.: J. Steifle

B. WASTE STREAM INFORMATION:

Name of the Waste: Waste Toxic Solid Inorganics
Original Process Generating Waste: Removal of product heel from RCRA empty container
Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

___Color: Varies
Odor: ___None X Mild ___Strong
Physical state @ 70 F: ___% Liquid; ___% Sludge; 100% Solid; ___% Powder; ___% Gas(Aerosol); ___% Gas(Other); ___% Other
Phases: X Single Layer; ___Multi Layer; How Many? ___
Btu/Lb: X <3000; ___3000-5000; ___5000-10,000; ___>10,000
pH: ___<2.0 ___2.0 to 4.0 X 4.0 to 10.0 ___10.0 to 12.5 ___>12.5
Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F X >200 F ___None
Specific Gravity 1.117 % Total Halogens _____

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
O-Nitrophenol		100			
Ammonium Bisulfate		100			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply)

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None	or	LESS THAN	or	ACTUAL	None	or	LESS THAN	or	ACTUAL
___	PCB'S	___<50ppm		___ppm	___	Sulfides	___<50ppm		___ppm
___	Cyanides	___<50ppm		___ppm	X	Phenolics	___<50ppm		See msds ppm

Is the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in _____ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) ___Yes X No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:
_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
__X__Drums(Specify size) ___85 ___55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: __X__Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____
Shipping Frequency:
Number of Units __5__Per ___Month __X__Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ___Yes X No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes X No
Is this a "Characteristic Waste"? ___Yes X No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____
Is this an "F" or "K" Listed waste or mixed with one? ___Yes X No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes X No
If "Yes", Please list all applicable waste code(s)._____
This a state regulated waste? X Yes ___No
If "Yes", Please list all codes. 007460061

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? X Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste, Toxic Solids Inorganics
"Reportable Quantity"(if any) 100 lbs
Hazard Class or Division No. 6.1 UN/NA # 11663 Packing Group _____I _____II __X__III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ____Zone A ____Zone B ____Zone C ____Zone D ____Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Dana Carter Title Agent for Generator
Signature Dana R Carter Date 6/20/06

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ____/____/____ APPROVER'S INITIALS_____ PROFILE NUMBER 288052
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____
PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS: _____ RUN SALES ANALYTICAL _____ MSDS ATTACHED
_____ NO LANDFILL CUSTOMER _____ N/H FOR METALS PER GEN. _____SEE ATTACHED ANALYTICAL
_____ NO SAMPLE APPROVAL _____ RUN OX. SCREEN ON INCOMING _____RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

Rineco

819 Vulcan Road -- Haskell
P.O. Box 729, Benton, AR 72015
Office (501) 778-9089 Fax (501) 778-0201

Prepared by: Dana Carter-CES Environmental

FOR OFFICE USE ONLY
Account Rep:
Region:

. WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations. it is necessary for the Generator of hazardous waste to properly identify the water for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete. and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name: Stolt-Neilsen Inc
Address: 16300 Dezavala Road
Channelview, TX 77530
USEPA I.D. No. TXD000326819
State I.D. No. 83712
Phone: 832-473-3285
Fax: 281-860-6307
Technical Contact: Dana Carter
Title: Agent for Generator
24 hour Emergency Contact: Dana Carter
24 hour Phone: 713-748-9804
Is this material located or generated in a foreign country? N
Foreign Address:

II. GENERAL INFORMATION

Material Name: Waste Toxic Solid Inorganics

- ☐ A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?
- ☐ B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?
- ☐ C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?
- ☐ D. Is waste a spent solvent as defined in 40 CFR 261.31 ?
- ☐ E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: removal of product heel from RCRA empty containers

Anticipated Monthly Volume: 1-4 drums
Bulk: ☐ Drum: ☒ Other: ☐ Explain:

III. MATERIAL COMPOSITION

Component	Concentration Min	Max	Actual	PPM
O-Nitrophenol	100			
Ammonium Bisulfate	100			

IV. PHYSICAL CHARACTERISTICS

Physical State: ☒ Solid ☐ Semi-Solid ☐ Liquid
Free Liquid: ☐ Yes ☒ No
Viscosity: ☐ Low ☐ Medium ☒ High
Layers: ☒ Single ☐ Bi-Layered ☐ Multi
Odor: ☐ None ☒ Mild ☐ Strong
Flash Point: ☐ < 73F ☐ 73F - 140F ☒ 140F - 200F ☐ > 200F
pH: ☐ < 2 ☒ > 12.5
Actual pH: N/D
Density: BTU: <3000

V. OTHER CHARACTERISTICS

- ☐ Explosive
- ☐ Dioxin
- ☐ Radioactive
- ☐ Shock Sensitive
- ☐ Sulfide
- ☐ PCB
- ☐ Etiological
- ☐ Cyanide
- ☐ Pyrophoric
- ☐ Water Reactive

DOT Hazardous Material [X] Yes [ ] No ER Guide Page #- _____

Proper Shipping name: Waste Toxic Solid Inorganics

Hazard Class and Division: 6.1 UN or NA: 1663 Packaging Group: III

[X] Yes [ ] No If Yes: 100 lbs Special Provisions: _____

USEPA HAZARDOUS WASTE: [X] Yes [ ] No

Waste I.D. Numbers: 00746061-State Waste Code

VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24. Check only if waste exceeds regulatory threshold levels and include analytical date if available.

Constituent	Regulatory TCLP Total Know- *level PPM PPM PPM* ledge	Constituent	Regulatory TCLP *level PPM PPM*	Total Know- *ppM* ledge
D004 Arsenic	5.000	D024 m-Cresol	200.000	
D005 Barium	100.000	D025 p-Cresol	200.000	
D006 Cadmium	1.000	D026 Cresol	200.000	
D007 Chromium	5.000	D027 1,4.Dichlorobenzene	7.500	
D008 Lead	5.000	D028 1,2.Dichloroethane	0.500	
D009 Mercury	0.200	D029 1,1 Dichloroethylene	0.700	
D010 Selenium	1.000	DO30 2,4 Dinitrotoluene	0.130	
DO11 Silver	5.000	D031 Heptachlor	0.010	
DO12 Edrin	0.020	D032 Hexachlorobenzene	0.130	
DO13 Lindane	0.400	D033 Hexachlorobutadiene	0.500	
DO14 Methoxychlor	10.000	D034 Hexachloroethane	3.000	
D015 Toxaphene	0.500	D035 Methyl Ethyl Ketone	200.000	
DO16 2,4 Dichlorophenoxyacetic ac	10.000	D036 Nitrobenzene	2.000	
/ 2,4,5 TP Silvex	1.000	DO37 Pentachlorophenol	100.000	
D018 Benzene	0.500	DO38 Pyridine	5.000	
DO19 Carbon Tetrachloride	0.500	DO39 Tetrachloroethylene	0.700	
D020 Chlordane	0.030	D040 Trichloroethylene	0.500	
D021 Chlorobenzene	100.000	DO41 2,4.5 Trichlorophenol	400.000	
D022 Chloroform	6.000	DO42 2,4,6 Trichlorophenol	2.000	
D023 o-Cresol	200.000	D043 Vinyl Chloride	0.200	

V111. Benzene Waste Operations NESHAP Generator Certification. Complete only if DO18 and/or UO19 appear in section VI (shipping information).

	Yes	No
1. Is this waste generated by an industry with any of the following SIC Codes: 2911,2800-2899,3312 or 4953?	[ ]	[X]
2. Does this stream have Benzene concentration of 10 ppm or more?	[ ]	[X]
3. Does this stream contain greater than 10% moisture?	[ ]	[X]
4. Is this company's Total Annual Benzene (TAB) of 10 Mg or greater per year?	[ ]	[X]

AUTHORIZATION TO CORRECT WASTE MATERIAL PROFILE SHEET: In the event Rineco determines that it is necessary to make corrections on this Waste Material Profile Sheet to make the information herein consistent with the results of the sample characterization and/or applicable federal and state statutes and regulations. Rineco will contact the Generator and receive oral authorization to make such corrections. Generator [X] does [ ] does not hereby authorize Rineco to make such changes pursuant to this paragraph.

GENERATOR CERTIFICATION: THIS CERTIFICATION IS REQUIRED FOR EACH PROFILE.

This above information is to be held confidential and is true and accurate to the best of my knowledge.

Signature: _____ Date: July 6, 2006

Print Name: Dana Carter Title Agent for Generator

EPAHO082000442

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257612

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielson
Facility Address 16300 Dezavala Rd., Bldg 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowman
Customer Phone: (713) 826-1329
Customer Fax: (713) 676-1676
Generator USEPA/Federal ID # :
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Env. Svcs.
Billing Address 4904 Griggs Road
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676-1460
Billing Fax: (713) 676-1676
P.C.I. Sales Rep.: J. Stiefel

B. WASTE STREAM INFORMATION:

Name of the Waste: Non-haz waste ligands
Original Process Generating Waste: cleaning heel from tank trailer / container

Is a representative sample provided? ___Yes X No
Is a MSDS attached? X Yes ___No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: clear
Odor: dark
___None ___Mild X Strong

Physical state @ 70 F: 80 % Liquid, 20 % Sludge, 0 % Solid, 0 % Powder, 0 % Gas(Aerosol), 0 % Gas(Other), 0 % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 X 3000-5000 ___5000-10,000 ___>10,000

PH: ___<2.0 ___2.0 to 4.0 X 4.0 to 10.0 ___10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F ___100 to 139 F ___140 to 200 F X >200 F ___None

Specific Gravity N/A % Total Halogens N/A

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
4,4'-Bipyridyl	0	30	1,2,4-trichlorobenzene	0	30
pregnt Concentrate 3	0	30	water	0	5
tolcide PS75	0	30			
1,3-phenylenediamine	0	30			
aceto chlor technical	0	30			
tris-(2-chloro-1-methylethyl) phosphate	0	30			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? n/a
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) n/a

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None		or LESS THAN	or ACTUAL	None		or LESS THAN	or ACTUAL
X	PCB'S	___<50ppm	___ppm	X	Sulfides	___<50ppm	___ppm
X	Cyanides	___<50ppm	___ppm	X	Phenolics	___<50ppm	___ppm

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes X No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes X No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) X Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes X No
PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes X No

F. SHIPPING INFORMATION:

Method of Shipment:
_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
X Drums(Specify size) ___85 ___55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: X Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____
Shipping Frequency:
Number of Units 15 Per ___Month X Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ___Yes X No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes ___No
Is this a "Characteristic Waste"? ___Yes ___No
If "Yes" Is it: ___D001 Ignitable ___D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes ___No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes ___No
If "Yes", Please list all applicable waste code(s)._____

Is this a state regulated waste? ___Yes ___No
If "Yes", Please list all codes. 0189/021

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? ___Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: waste toxic, liquid, inorganic, n.o.s.
"Reportable Quantity"(if any) N/A lbs
Hazard Class or Division No. 6.1 UN/NA # UN 3287 Packing Group _____I _____II X III
Is this a "Poison Inhalation Hazard"? ___Yes X No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bowman Title Agent for Generator
Signature Matt Bowman Date 4-28-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 257612
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS: _____ RUN SALES ANALYTICAL _____ MSDS ATTACHED
_____ NO LANDFILL CUSTOMER _____ N/H FOR METALS PER GEN. _____SEE ATTACHED ANALYTICAL
_____ NO SAMPLE APPROVAL _____ RUN OX. SCREEN ON INCOMING _____RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

October 3, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257612 for Stolt-Nielsen Transportation. We would like to amend one of the constituents, Eptam to 50% - 100% on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

EPAHO082000446

POLLUTION CONTROL INDUSTRIES

PROFILE NUMBER 257646

Please indicate which PCI Facilty(s) are being utilized for this Profile

☐ East Chicago, IN. 46310 1-800-388-7242 ☒ Millington, TN. 38053 1-888-724-8366 ☐ Rancho Cordova, CA. 95670 1-866-724-2272

GENERATORS WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

PLEASE FAX COMPLETED FORM TO THE PCI APPROVALS DEPARTMENT AT 1-219-397-6411

A. GENERATOR INFORMATION:

Generator Name: Stolt-Nielson
Facility Address 16300 De Zevalla Rd., Bldg 4
City Channelview State TX Zip 77530
Customer Name: Matt Bowmen
Customer Phone: (713) 826 - 1329
Customer Fax: (713) 676 - 1676
Generator USEPA/Federal ID #: TXD000326879
Generator State ID # (If applicable): 83712
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ___Yes X No
Generator's S.I.C. Code(4 Digit): N/A

BILLING INFORMATION:

Billing Name: CES Environmental Svcs
Billing Address 4904 Griggs Rd.
City Houston State TX Zip 77021
Billing Contact Name: Juanita Thomas
Billing Phone: (713) 676-1460
Billing Fax: (713) 676-1676
P.C.I. Sales Rep.: J. Steiffel

B. WASTE STREAM INFORMATION:

Name of the Waste: Waste Amines
Original Process Generating Waste: removal of heels from empty containers

Is a representative sample provided? ___Yes X No
Is a MSDS attached? ___Yes X No
Is there any Analytical attached? TCLP ___Yes X No Other ___Yes X No

C. GENERAL CHARACTERISTICS:

Color: Varies
Odor: ___None X Mild ___Strong

Physical state @ 70 F: 100 % Liquid; Ø % Sludge; Ø % Solid; Ø % Powder; Ø % Gas(Aerosol); Ø % Gas(Other); Ø % Other

Phases: X Single Layer ___Multi Layer How Many?___

Btu/Lb: ___<3000 ___3000-5000 ___5000-10,000 X >10,000

PH: ___<2.0 ___2.0 to 4.0 ___4.0 to 10.0 X 10.0 to 12.5 ___>12.5

Liquid Flash Point: ___<73 F ___73 to 99 F X 100 to 139 F ___140 to 200 F ___>200 F ___None

Specific Gravity N/A % Total Halogens N/A

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	Constituents	Min%	Max%
Diethanol Amine	15	20			
Methanol Amine	15	20			
Diethylene Triamine	15	20			
Methyl Diethanolamine	15	20			
N Octel Amine	15	20			
Water	0	5			

E. OTHER WASTE STREAM INFORMATION:

Is this waste a "USED OIL" per 40CFR PART 279? ___Yes X No
If "Yes", does the total halogen content exceed 1,000 ppm? ___Yes X No
If "Yes", can you identify the "Chlorinated Constituent" present in the oil? N/A
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? ___Yes X No

Does the Waste have any of the following characteristics? (Please check all that apply) N/A

___Oxidizer ___Organic Peroxide ___Water Reactive ___Air Reactive ___Pyrophoric ___Dioxin
___Radioactive ___Infectious ___Pathogen ___Carcinogen ___Etiological
___Explosive ___Shock Sensitive ___Undergo Hazardous Polymerization ___Cylinder ___Aerosols

Does the Waste contain any of the following?

None		or LESS THAN	or ACTUAL	None		or LESS THAN	or ACTUAL
X	PCB'S	<50ppm ppm		X	Sulfides	<50ppm ppm	
X	Cyanides	<50ppm ppm		X	Phenolics	<50ppm ppm	

Does the waste represented by this profile contain benzene? ___Yes X No
If "Yes", please list concentration in N/A ppm.
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) ___Yes X No
Answer "Yes" if your waste contains benzene **and** if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

E. OTHER WASTE STREAM INFORMATION CONTINUED:

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) ___Yes _X_No
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) ___Yes _X_No
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) _X_Yes ___No
Does the Waste contain any Class I or Class II ozone-depleting substances? ___Yes _X_No
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? ___Yes _X_No

F. SHIPPING INFORMATION:

Method of Shipment:

_____Bulk Liquid(> 500 Gallons) _____Bulk Solids(roll-off box, vacuum box, etc) _____ Lab Pack
_____Cubic Yard Boxes _____Totes (Please specify size) _____
_X_Drums(Specify size) ___85 _X_55 ___30 ___16 ___5 Other (Please specify)_____
Container Type: _X_Metal _____Plastic _____Fiberboard _____Combination(EX: Glass containers in metal drum)
_____Other(Please describe)_____

Shipping Frequency:
Number of Units 10 Per ___Month _X_Quarter ___Year Other_____

G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? _X_Yes ___No
If "No", Please skip to section H.
Is this a "Universal Waste" per 40CFR part 273? ___Yes _X_No
Is this a "Characteristic Waste"? _X_Yes ___No
If "Yes" Is it: _X_D001 Ignitable _X_D002 Corrosive ___D003 Reactive
Characteristic for Toxic Metals: ___D004 ___D005 ___D006 ___D007 ___D008 ___D009 ___D010 ___D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)_____

Is this an "F" or "K" Listed waste or mixed with one? ___Yes _X_No
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:_____
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f)? ___Yes _X_No
If "Yes", Please list all applicable waste code(s)._____

Is this a state regulated waste? ___Yes _X_No
If "Yes", Please list all codes. 0217219H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation(USDOT) Hazardous Material? _X_Yes ___No
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste flammable liquids, corrosive, n.o.s.
"Reportable Quantity"(if any) N/A lbs UN 2924
Hazard Class or Division No. 3 UN/NA # [redacted] Packing Group ___I _X_II ___III
Is this a "Poison Inhalation Hazard"? ___Yes _X_No
If "Yes", Please indicate Hazard Zone ___Zone A ___Zone B ___Zone C ___Zone D ___Other
List two primary hazardous constituents:_____

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name(print) Matt Bowman Title Agent for Generator
Signature Matt Bowman Date 8-25-04

THIS SPACE FOR PCI APPROVALS DEPARTMENT ONLY

DATE RECEIVED ___/___/___ APPROVER'S INITIALS_____ PROFILE NUMBER 257646
PROCESS CODE _____ _____ PRICE_____ TRANS_____
PROPER WASTE CODES _____

PROPER D.O.T. SHIPPING NAME:_____
HAZARD CLASS_____ UN_____ NA_____ PACKING GROUP ___I ___II ___III
N.O.S. DESCRIPTORS_____
YARD INSTRUCTIONS:
_____ NO LANDFILL CUSTOMER
_____ NO SAMPLE APPROVAL
_____ RUN SALES ANALYTICAL
_____ N/H FOR METALS PER GEN.
_____ RUN OX. SCREEN ON INCOMING
_____ MSDS ATTACHED
_____ SEE ATTACHED ANALYTICAL
_____ RUN COMP. ON INCOMING
FORM CODE W_____ SYSTEM CODE H_____

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

November 14, 2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: (800) 388-7242
Fax: (219) 397-6411

To Whom It May Concern:

This letter is regarding the profile number 257646 for Stolt-Nielsen Transportation. We would like to amend one of the constituents, NORAM SC (Tallow Amine) at 10-15%, MEA 5-10%, hexamethylenediamine, Tallow Diamine, Isophorone Diamine, and Tetraethylene pentamine to 50% - 100% on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

December 29,2005

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: 800-388-7242
Fax: 219-397-6411

To Whom It May Concern:

This letter is regarding the profile number 257646 for Stolt-Nielson. We would like to amend one of the constituents, Toluene Diamine (TDA) at 50-100% on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

February 8, 2006

Pollution Control Industries
5485 Tay-For-Drive
Millington, TN 38053
Phone: 800-388-7242
Fax: 219-397-6411

To Whom It May Concern:

This letter is regarding the profile number 257646 for Stolt-Nielson. We would like to amend three of the constituents, Dimethylamin 75 – 100 %, Amino Butanol 75 – 100 %, and Hydrogen Peroxide 75 – 100 % on this profile. If you have any question please feel free to contact me at (713) 292-3458.

Sincerely,

Erica Bogan
Authorized Agent for Stolt-Nielsen Transportation

EPAHO082000452

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/23/2005**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 1100

Generator: Stolt-Nielson Inc
Address: 16300 De Zavalla Road, Bldg. 4
Channelview, TX 77530

Waste Information

Name of Waste: Waste Floor Drain Sludge
TCEQ Waste Code #: 00785041
Container Type: Drum
Detailed Description of Process Generating Waste:
Floor drain sludge from cleaning and flushing empty cargo tanks.
Color: Varies **Odor:** None **pH:** 2-12.5
Physical State: Sludge
Incompatibilities: Strong Oxidizers.
Safety Related Data/Special Handling:
Standard PPE.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Stolt- Nielson		
Address:	16300 DeZavala Rd.		
City, State, Zip:	Houston, TX 77530		
Contact:	Juan Almaguer	**Title:**	Tank Cleaning Manager
Phone No:	281-860-6309	**Fax No:**	281-860-6307
24/hr Phone:	832-473-3285		
U.S. EPA I.D. No:	TXD000326819		
State I.D.	83712	**SIC Code:**	N/A

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Waste floor drain sludge
Detailed Description of Process Generating Waste: Floor drain sludge from cleaning and flushing empty cargo tanks.

Physical State: ☐ **Liquid** ☒ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** none

Specific Gravity (water=1): 1.1-1.2 **Density:** 8-10 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒	**Drum**	☐	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		55 gal		____	____		____

Frequency:	☐	**Weekly**	☐	**Monthly**	☒ **Quarterly**	☐	**Yearly**

Number of Units (containers): 3 **Other:** ____
Texas State Waste Code No: 00785041
Proper U.S. DOT Shipping Name: N/A
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point >200	**pH** 2-12.5	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 70-75%
Oil&Grease 1000-3000mg/l	**TOC** ____mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	20-30%	
Dirt/rocks/sand	70-75%	
Oil	1-3%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical # 5020529

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Strong oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: —
TCLP Volatiles: —
TCLP Semi-Volatiles: —
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 8/22/05

Printed Name/Title: _____ Turnaround Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: _____

Date: 8-23-05 (Approved) Rejected _____

Approval Number: 1100 _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO082000456

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO082000457

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

Stolt Tank Containers
16300 Dezavala
Channelview, TX 77530

Phone (832) 473-3285
Fax: (281) 860-6307

Attn: **Juan Almaguer**

- CERTIFICATE OF RESULTS -

MES Lab#: 5020529

Client Sample ID: Composite Drain Sludge
Extended ID: P.O. #UAN1291

Sample Collect Date: 2/23/2005 @ 11:00:00 AM
Sample Receipt Date: 2/23/2005 @ 12:00:00 PM

Test Group / Method

TCLP Pesticides Method: SW-846 8081A	MDL	RL	Result	Units	Analyst: TFR Date / Time
Chlordane	0.0002	0.03	< 0.0002	mg/L	3/1/2005 / 8:41 AM
Endrin	0.0004	0.02	< 0.0004	mg/L	3/1/2005 / 8:41 AM
Heptachlor	0.0002	0.008	< 0.0002	mg/L	3/1/2005 / 8:41 AM
Lindane	0.0002	0.4	< 0.0002	mg/L	3/1/2005 / 8:41 AM
Heptachlor epoxide	0.0002	0.04	< 0.0002	mg/L	3/1/2005 / 8:41 AM
Toxaphene	0.02	0.5	< 0.02	mg/L	3/1/2005 / 8:41 AM
Methoxychlor	0.002	10	< 0.002	mg/L	3/1/2005 / 8:41 AM

TCLP Herbicides Method: SW-846 8151A	MDL	RL	Result	Units	Analyst: TFR Date / Time
2,4-D	0.3	10	< 0.3	mg/L	2/28/2005 / 5:13 PM
2,4,5-TP (Silvex)	0.2	1	< 0.2	mg/L	2/28/2005 / 5:13 PM

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: TFR Date / Time
Vinyl chloride	0.10	0.2	< 0.10	mg/L	2/28/2005 / 11:19 PM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L	2/28/2005 / 11:19 PM
2-Butanone	0.50	200	< 0.50	mg/L	2/28/2005 / 11:19 PM
Chloroform	0.05	6	< 0.05	mg/L	2/28/2005 / 11:19 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	2/28/2005 / 11:19 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	2/28/2005 / 11:19 PM
Benzene	0.50	0.5	< 0.50	mg/L	2/28/2005 / 11:19 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L	2/28/2005 / 11:19 PM
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	2/28/2005 / 11:19 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	2/28/2005 / 11:19 PM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	2/28/2005 / 11:19 PM
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	2/28/2005 / 11:19 PM

EPAHO082000458

- CERTIFICATE OF RESULTS -

MES Lab#: 5020529

Client Sample ID: Composite Drain Sludge
Extended ID: P.O. #UAN1291

Sample Collect Date: 2/23/2005 @ 11:00:00 AM
Sample Receipt Date: 2/23/2005 @ 12:00:00 PM

TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time
Pyridine	0.10	5	< 0.10	mg/L	2/26/2005 / 8:00 AM
1,4-Dichlorobenzene	0.10	7.5	< 0.10	mg/L	2/26/2005 / 8:00 AM
o-Cresol	0.10	200	< 0.10	mg/L	2/26/2005 / 8:00 AM
m+p-Cresol	0.10	200	< 0.10	mg/L	2/26/2005 / 8:00 AM
Hexachloroethane	0.10	3	< 0.10	mg/L	2/26/2005 / 8:00 AM
Nitrobenzene	0.10	2	< 0.10	mg/L	2/26/2005 / 8:00 AM
Hexachlorobutadiene	0.10	0.5	< 0.10	mg/L	2/26/2005 / 8:00 AM
2,4,6-Trichlorophenol	0.10	2	< 0.10	mg/L	2/26/2005 / 8:00 AM
2,4,5-Trichlorophenol	0.10	400	< 0.10	mg/L	2/26/2005 / 8:00 AM
2,4-Dinitrotoluene	0.10	0.13	< 0.10	mg/L	2/26/2005 / 8:00 AM
Hexachlorobenzene	0.10	0.13	< 0.10	mg/L	2/26/2005 / 8:00 AM
Pentachlorophenol	1.00	100	< 1.00	mg/L	2/26/2005 / 8:00 AM

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time
Arsenic	0.050	5	< 0.050	mg/L	2/28/2005 / 4:34 PM
Barium	0.002	100	**0.106**	**mg/L**	2/28/2005 / 4:34 PM
Cadmium	0.004	1	< 0.004	mg/L	2/28/2005 / 4:34 PM
Chromium	0.007	5	< 0.007	mg/L	2/28/2005 / 4:34 PM
Lead	0.010	5	< 0.010	mg/L	2/28/2005 / 4:34 PM
Selenium	0.050	1	< 0.050	mg/L	2/28/2005 / 4:34 PM
Silver	0.006	5	< 0.006	mg/L	2/28/2005 / 4:34 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.005	0.2	< 0.005	mg/L	2/28/2005 / 3:46 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Wednesday, March 02, 2005

Holland D. Gilmore, Laboratory Director **Date**

EPAHO082000459

EPAHO082000460

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/23/2005**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 1098

Generator: Stolt-Nielson Inc
Address: 16300 De Zavalla Road, Bldg. 4
Channelview, TX 77530

Waste Information

Name of Waste: Dicarbonic Acid
TCEQ Waste Code #: 00746061
Container Type: Drum
Detailed Description of Process Generating Waste:
Non-hazardous heels ffrom the cleaning of Iso Tanks
Color: Yellow **Odor:** of acetic acid **pH:** 2.4
Physical State: Liquid
Incompatibilities: Oxidizers, acids, acids, alkalies, amines.
Safety Related Data/Special Handling:
NIOSH certified organic vapor/particulate respirator, NIOSH chemical goggles, and standard PPE.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

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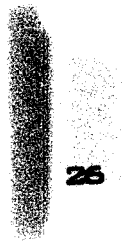
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CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/22/2005**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 1095

Generator: Stolt-Nielson Inc
Address: 16300 De Zavalla Road, Bldg. 4
Channelview, TX 77530

Waste Information

Name of Waste: Blasting Grit
TCEQ Waste Code #: 00853192
Container Type: Drum
Detailed Description of Process Generating Waste:
Sand blasting tanks
Color: Sandy/Brown **Odor:** None **pH:** N/A
Physical State: Solid
Incompatibilities: None Known
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	Tank Cleaning Manager
Phone No :	(832) 473-3285	**Fax :**	
24 / HR Phone :	(832) 473-3285		
U.S EPA I.D No :	TXD000326819		
State I.D :	83712	**SIC Code**	N/A

SECTION 2: Billing Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	Tank Cleaning Manager
Phone No :	(832) 473-3285	**Fax :**	

SECTION 3: General Description of the Waste

ame of Waste : Blasting Grit

Detailed Description of Process Generating Waste:

Sand blasting tanks

Physical State : ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color : Sandy/Brown **Odor :** None

Specific Gravity (Water=1) : **Density :** 20 lbs / gal

Layers : ☑ Single-Phas ☐ Multi-Phase

Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 10

Texas State Waste Code No : 00853192

Proper U.S. State Waste Code No : N/A

Class : N/A **UN/NA :** N/A **PG :** N/A **RQ :** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/A	N/A mg/l	N/A mg/l	100 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
<1500 mg/l	<1500 mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO082000468

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☑ NO

If 'YES', complete this section

LEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO082000469

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO082000470

EPAHO082000471

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/22/2006**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 1639

Generator: Stolt-Nielson Inc
Address: 16300 De Zavalla Road, Bldg. 4
Channelview, TX 77530

Waste Information

Name of Waste: Gasoline Water Mix
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Removal of product from gasoline tank that last contained unleaded gasoline
Color: clear, pink **Odor:** gasoline **pH:** 3-11
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(832) 473-3285	**Fax :**	
24 / HR Phone :			
U.S EPA I.D No :	TXD000326819		
State I.D :	83712	**SIC Code**	na

SECTION 2: Billing Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(832) 473-3285	**Fax :**	

SECTION 3: General Description of the Waste

Name of Waste : Gasoline water mix

Detailed Description of Process Generating Waste:

Removal of product from gasoline tank that last contained unleaded gasoline

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : clear, pink **Odor :** gasoline

Specific Gravity (Water=1) : .9-.95 **Density :** 8 lbs / gal

Layers : ☐ Single-Phas ☑ Multi-Phase

Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 2

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : ~~Combustible liquid, n.o.s., NA1993, PGIII~~ Flammable Liquids, n.o.s. (Gasoline)

Class : 3 **UN/NA :** ~~1993~~ 1203 **PG :** ~~III~~ II **RQ :** 100

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<140	3-11	0 mg/l	0 mg/l	<3 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>1500 mg/l	>1500 mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO082000473

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Gasoline	10-80	%
Water	20-90	%
Dirt	0-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : x
TCLP Volatiles : x
TCLP Semi-Volatiles : x
Reactivity : x
Corrosivity : x
Ignitability : x

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : [signature] Date : 6/16/2006

Printed Name / Title : Juan Almaguer,

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : [signature]

Date : 6-22-06 Status : Approved Rejected

Approval Number : 1639

Additional Information

REC

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☑ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO082000475

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO082000476

EPAHO082000477

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Waste Pre-Acceptance/Approval Letter

7/19/2005

Mr. Juan Almagar,

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

Profile #: 1047

Generator: Stolt-Nielson
Address: 16300 DeZevalla Rd, Bldg. 4, Channelview, TX 77530
Name of Waste: Non-hazadous, Unused Product Heels
TCEQ Waste Code Number: 00746061

Waste Information
Container Type: Drums
Detailed description of process generating waste: Removal of non-hazardous product heels prior to cleaning
Color: Varies Odor: Mild Chemical pH: 3-11
Physical State: Sludge
Incompatibilities: Strong oxidizers, strong acids, strong bases
Safety Related Data/Special Handling: Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(832) 473-3285	**Fax :**	
24 / HR Phone :			
U.S EPA I.D No :	TXD000326819		
State I.D :	83712	**SIC Code**	N/A

SECTION 2: Billing Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(832) 473-3285	**Fax :**	

SECTION 3: General Description of the Waste

Name of Waste : Non-Hardous Unused Product Heels

Detailed Description of Process Generating Waste:

Removal of non-hazardous product heels prior to cleaning

Physical State : ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color : Varies **Odor :** Mild Chemical Odor

Specific Gravity (Water=1) : 0.80-1.20 **Density :** 8.5 lbs / gal

Layers : ☐ Single-Phas ☑ Multi-Phase

Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 10

Texas State Waste Code No : 00746061

Proper U.S. State Waste Code No : non-RCRA/Non DOT regulated material (possibly combustible liquids)

Class : N/a **UN/NA :** N/a **PG :** N/a **RQ :** N/a

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	3-11	0 mg/l	0 mg/l	0-100 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
0-100% mg/l	N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l

EPAHO082000479

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dimethyl Sulphoxide	0-100	%
Alkylphenol	0-100	%
Corn Oil, Alkylbenzene, and Sulfolane	0-15	%
Infineum C9302	0-15	%
Benzyl alcohol	0-15	%
Dissolvine	0-100	%
Ethylene glycol	0-15	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

None

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS Sheets for 1. O-Phenylenediamine; 2. Triethylphosphate; Levagard TEP; 3. Pivalic Acid; 4. Pluradyne CI 1010; 5. Benzyl Alcohol; 6. Infineum

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Strong Oxidizers, Strong Acids, Strong Bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : All wastes are unsed products. TCLP not required.

TCLP Volatiles : MSDS attached

TCLP Semi-Volatiles : MSDS attached

Reactivity : MSDS attached

Corrosivity : MSDS attached

Ignitability : MSDS attached

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____ Date : 7/18/2005

Printed Name / Title : Juan Almaguer, Juan Almaguer, Facility Manager

EPAHO082000480

CES Environmental Services, Inc
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

November 11, 2005

CES Environmental Services, Inc.
4904 Griggs Rd
Houston, TX 77021
Phone: (713)676-1460
Fax: (713)676-1676

To Whom It May Concern:

This letter is regarding the profile number 1047 for Stolt-Nielsen. We would like to amend one of the constituents, Fatty Alcohol, Phenylenediamine, Triethylphosphate, Pivalic Acid, and Pluradyne to 0% - 15% on this profile. If you have any question please feel free to contact me at 832-473-3285.

Sincerely,

Juan Almaguer
Tank Cleaning Manager

June 20, 2006

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

To Whom It May Concern:

This letter is regarding the profile number 1047 for Stolt-Nielsen. We would like to amend the constituents to add, Benzaldehyde 0%-15% and Coco amine 0-15% on this profile. If you have any questions please feel free to contact me at 832-473-3285.

Sincerely,

Juan Almaguer
Tank Cleaning Manager

April 18, 2007

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

To Whom It May Concern:

This letter is regarding the profile number 1047 for Stolt-Nielsen. We would like to amend the constituents to include, 2-ethylhexyl nitrate 0-100% and Tedol 0-100% on this profile. MSDS for both constituents is attached. If you have any questions please feel free to contact me at 832-473-3285.

Sincerely,

Juan Almaguer
Tank Cleaning Manager

DC

January 8, 2007

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

To Whom It May Concern:

This letter is regarding the profile number 1047 for Stolt-Nielsen. We would like to amend the constituents to include, Tretolite RBW505 Water Clarifier, 0-100%, on this profile. A MSDS on Tretolite RBW505 Water Clarifier is attached. If you have any questions please feel free to contact me at 832-473-3285.

Sincerely,

Juan Almaguer

Juan Almaguer
Tank Cleaning Manager

EPAHO082000485

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/16/2006**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 1348

Generator: Stolt-Nielsen Transportation
Address: 16300 Dezavala
Houston, TX 77530

Waste Information

Name of Waste: Used Tires
TCEQ Waste Code #: Recycle
Container Type: Other
Detailed Description of Process Generating Waste:
Tires were used on fork lifts and other various vehicles at the Stolt-Nielson location.
Color: black **Odor:** none **pH:** na
Physical State: Solid
Incompatibilities: none
Safety Related Data/Special Handling:
Standard PPE.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company : Stolt-Nielsen Transportation
Address : 16300 Dezavala
City, State, Zip : Houston TX 77530
Contact : Juan Almaguer **Title :**
Phone No : (281) 452-2155 **Fax :** (281) 860-6307
24 / HR Phone :
U.S EPA I.D No :
State I.D : **SIC Code**

SECTION 2: Billing Information

Company : Stolt-Nielsen Transportation
Address : 16300 Dezavala
City, State, Zip : Houston TX 77530
Contact : Juan Almaguer **Title :**
Phone No : (281) 452-2155 **Fax :** (281) 860-6307

SECTION 3: General Description of the Waste

Name of Waste : Used Tires

Detailed Description of Process Generating Waste:

Tires were used on fork lifts and other various vehicles at the Stolt-Nielson location.

Physical State : ☐ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : black **Odor :** none

Specific Gravity (Water=1) : 1.5 **Density :** 12 lbs / gal

Layers : ☐ Single-Phas ☐ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size :

Number Of Units : 30

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : Non-RCRA/Non-DOT Regulated Material

Class : na **UN/NA :** na **PG :** na **RQ :** na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	na	na mg/l	na mg/l	100 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
na mg/l	na mg/l	na mg/l	na mg/l	na mg/l

EPAHO082000487

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used tires	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

.aboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : x
TCLP Volatilies : x
TCLP Semi-Volatiles : x
Reactivity : x
Corrosivity : x
Ignitability : x

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____ **Date :** 1/25/2006

Printed Name / Title : John Almaguer / Tankwash Mgr

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Prabhakar Thangudu

Date : 1/26/2006 **Status :** Approved Rejected

Approval Number : 1348

Additional Information

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☑ NO

f 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO082000489

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO082000490

August 16, 2006

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

To Whom It May Concern:

This letter is regarding the profile number 1047 for Stolt-Nielsen. We would like to amend one of the constituents, Sodium Bisulfite 0-50%, on this profile. If you have any questions please feel free to contact me at 832-473-3285.

Sincerely,

Juan Almaguer
Tank Cleaning Manager

EPAHO082000492

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **1/5/2007**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 1987

Generator: Stolt-Nielsen Transportation
Address: 16300 Dezavala
Houston, TX 77530

Waste Information

Name of Waste: Nonhazardous, unused product heels (glyoxal)
TCEQ Waste Code #: 00746061
Container Type:
Detailed Description of Process Generating Waste:
Removal of unused product heels prior to cleaning
Color: clear, yellow **Odor:** mild, sour **pH:** 2.1-3.5
Physical State:
Incompatibilities: reacts weakly to acids, incompatible with strong oxidizing agents, strong bases, silver, copper, and iron salts
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DC

1987

SECTION 1: Generator Information

Company:	Stolt-Nielsen Inc		
Address:	16300 De Zavalla Road, Bldg 4		
City, State, Zip:	Channelview, TX 77530		
Contact:	Juan Almaguer	**Title:**	Tank Cleaning Manager
Phone No:	832-473-3285	**Fax No:**	281-860-6307
24/hr Phone:	832-473-3285		
U.S. EPA I.D. No:	TXD000326819		
State I.D.	83712	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Non Hazardous, Unused Product Heels
Detailed Description of Process Generating Waste: Removal of unused product heels prior to cleaning

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear, yellow **Odor:** mild, sour

Specific Gravity (water=1): 1.27 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 gal	____	____	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 4 **Other:** ____
Texas State Waste Code No: 00746061
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT regulated material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	~~2.35~~ 2.1-3.5	NAmg/l	NAmg/l	0-2%

Oil&Grease	TOC	Zinc	Copper	Nickel
71500 mg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

EPAHO082000494

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Glyoxal	0-40	%
Water	0-60	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
reacts weakly to acids, incompatible with strong oxidizing agents, strong bases, silver, copper, and iron salts

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 11-27-06

Printed Name/Title: Juan Almaguer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____ Date: 1-3-07 Approved Rejected Approval Number: 1987	**Process Facility Information:** SPECIAL HANDLING - ~~Stabalize with fly ash~~ test pH prior to Shipment OL

11/27/2006 14:12 2818606307 SNTG TANKWASH PAGE 01/02

EPAHO082000495

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO082000496

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO082000497

Safety data sheet
Glyoxal 40%

1. Substance/preparation and company identification

Company
BASF Corporation
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Molecular weight:	58.00 g/mol
Chemical family:	aldehydes, in water
Synonyms:	Ethanedial

2. Composition/information on ingredients

CAS Number	Content (W/W)	Chemical name
107-22-2	>= 39.5 - <= 40.5 %	glyoxal
7732-18-5	60.0 %	water
50-00-0	<= 100.0 PPM	Formaldehyde
107-21-1	<= 1.5 %	ethylene glycol

3. Hazard identification

Emergency overview

WARNING: CONTAINS MATERIAL WHICH CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.
CONTAINS MATERIAL WHICH CAN CAUSE KIDNEY DAMAGE.
CAUSES RESPIRATORY TRACT IRRITATION.
MAY ADVERSELY EFFECT THE DEVELOPING FETUS BASED ON ANIMAL DATA.
Use with local exhaust ventilation.
Wear NIOSH-certified chemical goggles.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.
Wear full face shield if splashing hazard exists.
Wear a NIOSH-certified (or equivalent) organic vapour respirator.

Potential health effects

Primary routes of exposure
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Medical conditions aggravated by overexposure:
Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.
See MSDS section 11 - Toxicological information.

Potential environmental effects

Aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

4. First-aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Wash soiled clothing immediately. If irritation develops, seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

If swallowed:
Rinse mouth and then drink plenty of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. Fire-fighting measures

Flash point:		Not inflammable.
Autoignition:	approx. 285 °C	(DIN 51794)

Suitable extinguishing media:
water, foam, dry extinguishing media, carbon dioxide

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

NFPA Hazard codes:
Health : 2 Fire: 0 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:
Avoid contact with the skin, eyes and clothing.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.

Substance/product is RCRA hazardous due to its properties.

Cleanup:

For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Handling

General advice:
Ensure thorough ventilation of stores and work areas.

Storage

General advice:
Protect from air.
Keep container tightly closed.

Storage stability:
Storage duration: 6 Months
May yellow after lengthy storage.

8. Exposure controls and personal protection

Components with workplace control parameters

glyoxal		
	ACGIH	TWA value 0.1 mg/m3 Vapor and aerosol, inhalable fraction ;
Formaldehyde	OSHA	TWA value 0.75 ppm ; STEL value 2 ppm ; OSHA_ACT 0.5 ppm ;
	ACGIH	CLV 0.3 ppm ;
ethylene glycol		
	ACGIH	CLV 100 mg/m3 aerosol ;

Advice on system design:
Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:
Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions. Wear a NIOSH-certified (or equivalent) organic vapour respirator.

Hand protection:
chloroprene rubber (Neoprene), nitrile rubber (Buna N), polyvinylchloride (Pylox)

Eye protection:
Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

General safety and hygiene measures:
Work place should be equipped with a shower and an eye wash. Wear protective clothing as necessary to prevent contact.

9. Physical and chemical properties

Form:	liquid	
Odour:	faint odour	
Colour:	colourless to yellow	
pH value:	2 - 3.5	(400 g/l)
Melting point:	-14.00 °C	
melting range:	-50 - -15 °C	(OECD Guideline 102)
Boiling point:	103.6 °C	(1,013 hPa) (Directive 92/69/EEC, A.2)
Vapour pressure:	20.2 hPa	(20 °C) (Directive 92/69/EEC, A.4)
	106.7 hPa	(50 °C) (Directive 92/69/EEC, A.4)
Density:	approx. 1.27 g/cm3	(20 °C) (Directive 92/69/EEC, A.3)
Partitioning coefficient n-octanol/water (log Pow):	-1.15	(approx. 23 °C) (OECD Guideline 107)
Viscosity, dynamic:	8 mPa.s	(20 °C)
Solubility in water:		(approx. 20 °C) miscible

10. Stability and reactivity

Substances to avoid:
No data available.

Hazardous reactions:
The product is chemically stable.

Corrosion to metals:
No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Oral:
LD50/rat: 2,000 - 5,000 mg/kg
Moderately toxic.

Inhalation:
LC50/rat: 2.44 mg/l / 4 h
An aerosol was tested.

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Dermal:
LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)
The European Union (EU) has classified this substance with 'Irritating to skin' (R38).

Eye irritation :
rabbit: Nonirritating. (OECD Guideline 405)

Sensitization:
Guinea pig maximization test/: Caused sensitization in animal studies.

Chronic toxicity

Genetic toxicity:
The substance was mutagenic in various test systems with microorganisms, mammalian cell culture and mammals.

12. Ecological information

Environmental fate and transport

Biodegradation:

Test method:	OECD 303A; ISO 11733; 92/69 EEC,V, C.10
Method of analysis:	DOC reduction
Degree of elimination:	> 70 %
Test method:	OECD 301 A (new version) (aerobic), activated sludge, domestic
Method of analysis:	DOC reduction
Degree of elimination:	90 - 100 % (28 d)
Evaluation:	Easily eliminated from water. Readily biodegradable (according to OECD criteria).

Chemical oxygen demand (COD):
350 mg/g

Biochemical oxygen demand (BOD):
Incubation period 5.0 d: 175 mg/g

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Environmental toxicity

Acute and prolonged toxicity to fish:
DIN 38412 Part 15 golden orfe/LC50 (96 h): > 460 - < 680 mg/l
Nominal concentration.

Acute toxicity to aquatic invertebrates:
Directive 79/831/EEC Daphnia magna/EC50 (48 h): 404 mg/l
Nominal concentration.

Toxicity to aquatic plants:
OECD Guideline 201 green algae/EC50 (72 h): > 100 mg/l
Nominal concentration.

Toxicity to microorganisms:
DIN 38412 Part 8 bacterium/EC50 (16 h): 102 mg/l

Other ecotoxicological advice:
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

13. Disposal considerations

Waste disposal of substance:
Do not discharge into waterways or sewer systems without proper authorization.
Dispose of in a RCRA-licensed facility.

Contaminated packaging:
Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. RCRA empty containers may be landfilled at a licensed facility; other containers must be disposed of in a RCRA licensed facility. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:
TSCA, US released / listed

OSHA hazard category: ACGIH TLV established, Sensitizer, Chronic target organ effects reported, Acute target organ effects reported

CERCLA RQ: 5,000 lb

SARA hazard categories (EPCRA 311/312): Acute, Chronic

SARA 313:

CAS Number	Chemical name
107-21-1	ethylene glycol

State regulations

State RTK

CAS Number	Chemical name	State RTK
50-00-0	Formaldehyde	MA, NJ, PA
107-21-1	ethylene glycol	MA, NJ, PA

16. Other information

HMIS III rating
Health: 2 Flammability: 0 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information
PROD_STEW_CA_CP_CZ@BASF.COM
+1 973 426 4670

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.
END OF DATA SHEET

EPAHO082000505

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2007**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2173

Generator: Stolt-Nielson Inc
Address: 16300 De Zavalla Road, Bldg. 4
Channelview, TX 77530

Waste Information

Name of Waste: MEA and TDI waste
TCEQ Waste Code #: 00746061
Container Type:
Detailed Description of Process Generating Waste:
Removal of unused product heels prior to cleaning
Color: amber **Odor:** slight **pH:** 10.4
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Stolt-Nielsen Inc		
Address:	16300 De Zavalla Road, Bldg 4		
City, State, Zip:	Channelview, TX 77530		
Contact:	Juan Almaguer	**Title:**	Tank Cleaning Manager
Phone No:	(832)473-3285	**Fax No:**	(281) 860-6307
24/hr Phone:	(832) 473-3285		
U.S. EPA I.D. No:	TXD000326819		
State I.D.	83712	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: MEA and TDI waste
Detailed Description of Process Generating Waste: Removal of unused product heels prior to cleaning

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: amber **Odor:** slight

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒	**Drum**	☐	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		55					

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 10 **Other:**
Texas State Waste Code No: 0071600161
Proper U.S. DOT Shipping Name: Non RCRA Non DOT regulated material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** 10.4	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** BRLmg/l	**Solids** 0%
Oil&Grease 0mg/l	**TOC** NAmg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO082000507

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
MEA	90	%
TDI	5	%
MDI	5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical #7040309

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
____ NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: J. Almaguer Date: 4-17-07

Printed Name/Title: Juan Almaguer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Flanagan Additional Information: $85/drum

Date: 4-23-07 (Approved) Rejected DL

Approval Number: 2173

EPAHO082000508

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO082000509

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO082000510

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **11/7/2008**

Dear **Juan Almaguer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3037

Expiration Date 10/22/2010

Generator: Stolt-Nielson Inc
Address: 16300 De Zavalla Road, Bldg. 4
Channelview, TX 77530

Waste Information

Name of Waste: MEA and MDI waste from cleaning RCRA empty trailers
TCEQ Waste Code #: 00746061
Container Type:
Detailed Description of Process Generating Waste:
MDI residues from RCRA empty containers cleaned with MEA. Spent material pH is <12.5. The MDI in solution is no longer water reactive.
Color: amber **Odor:** slight **pH:** 9-12
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4 16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(281) 860-6309	**Fax :**	(281) 860-6314
24 / HR Phone :			
U.S EPA I.D No :	TXD000326819		
State I.D :	83712	**SIC Code**	

SECTION 2: Billing Information

Company :	Stolt-Nielson Inc		
Address :	16300 De Zavalla Road, Bldg. 4 16300 De Zavalla Road, Bldg. 4		
City, State, Zip :	Channelview TX 77530		
Contact :	Juan Almaguer	**Title :**	
Phone No :	(281) 860-6309	**Fax :**	(281) 860-6314

SECTION 3: General Description of the Waste

N of Waste : MEA and MDI waste from cleaning RCRA empty trailers

Detailed Description of the Process Generating Waste:

MDI residues from RCRA empty containers cleaned with MEA. Spent material pH is <12.5. The MDI in solution is no longer water reactive.

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : amber **Odor :** slight

Specific Gravity (Water=1) : 1 **Density :** 8.34 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☑ Single-Phas ☐ Multi-Phase

Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 10

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☑ No

"Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

I. s", is it: ☐ D001 ☐ D002 ☐ D003

EPAHO082000512

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : 00746061

Proper U.S. State Waste Code No : Non-RCRA/Non-DOT Regulated Material

Class : na UN/NA : na PG : na RQ : na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	9-12	na mg/l	na mg/l	0 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
0 mg/l	na mg/l	na mg/l	na mg/l	na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
MEA	90	%
MDI	10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
nsds

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
na

ECTION 8: Generator's Knowledge Documentation

aboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the ollowing generators knowledge

CLP Metals : x
(Volatilies : x
CL Semi-Volatiles : x

EPAHO082000513

Reactivity : x
Corrosivity : x
Ignitability : x

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is material a wastewater or wastewater sludge ? ☐ YES ☑ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation

☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____ **Date :** 4/17/2007

Printed Name / Title : J. Almaguer /

CES USE ONLY (DO NOT WRITE IN THIS SPACE) **Process Facility Information :**

Compliance Officer : Prabhakar Thangudu

Date : 10/22/2008 **Status :** Approved Rejected

Approval Number : HOU-3037

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI
Pollution Control Industries

10/14/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	335987 ACETIC ACID
Billing Code:	VA
D. O. T. Shipping desc:	WASTE ACETIC ACID, GLACIAL
N. O. S. Description:	ACETIC ACID
Hazard Class /Packing Group:	8 PG:II
RCRA Codes:	D001,D002
UN or NA #:	UN2789
EPA Management Method Code:	H061

Pricing: $105.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: 10-14-08

Revised 10/2008

PCI

GENERATOR'S WASTE PROFILE SHEET

COMPLETE - PRINT - SIGN - FAX (219) 397-5411

A. GENERATOR INFORMATION

Generator Name Stolt Nielson Inc

Facility Address 16300 DeZavalla Road Bldg 4 City Channelview State TX Zip 77530

Customer Name Juan Almaguer

Customer Phone (281) 860-6309 Customer FAX (281) 860-6307

Generator USEPA/Federal ID# T X D 0 0 0 3 2 6 8 1 9

Is the Generator a "Conditionally Exempt Small Quantity Generator"? ○ Yes ◉ No

Generator's S.I.C. Code (4 Digit) NA

BILLING INFORMATION (Check HERE if billing information is the same as above information) ☐

Billing Name CES Environmental Services Inc

Billing Address 4904 Griggs Road City Houston State TX Zip 77021

Billing Contact Name Juanita Thomas

Billing Phone (713) 676-1460 Billing FAX (713) 676-1676

PCI Sales Rep. Jamie Stieffel

B. WASTE STREAM INFORMATION

Name of the Waste Acetic Acid

Original Process Generating Waste removal of unused product heel prior to cleaning RCRA empty containters

Is a representative sample provided? ☐ Yes ☑ No Is a MSDS attached? ☑ Yes ☐ No

Is there any analytical attached? ☐ Yes ☑ No

C. GENERAL CHARACTERISTICS

Color Select Odor Strong

Physical State @ 70 F 100% %Liquid Select %Sludge Select %Solid Select %Powder

Select %Gas (Aerosol) Select %Gas (Other) Select %Other

Phases Single Layer ◉ Multi Layer ○ How Many

Btu/lb <3,000 ○ 3,000-5,000 ○ 5,000-10,000 ○ >10,000 ○

PH <2.0 ◉ 2.0 to 4.0 ○ 4.0 to 10.0 ○ 10.0 to 12.5 ○ >12.5 ○

Liquid Flash Point <73 F ○ 73 to 99 F ○ 100 to 139 F ◉ 140 to 200 F ○ >200 F ○ None ○

Specific Gravity 1.0492 % Total Halogens Select

D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
Acetic Acid	Select	100%		Select	Select
	Select	Select		Select	Select
	Select	Select		Select	Select

E. OTHER WASTE STREAM INFORMATION

Is this waste a "USED OIL" per 40CFR PART 279? Yes ○ No ◉

If "Yes", does the total halogen content exceed 1,000 ppm? Yes ○ No ○

If "Yes", can you identify the "Chlorinated Constituent" present in the oil? Yes ○ No ○

If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? Yes ○ No ○

Does the Waste have any of the following characteristics? (Please select all that apply)

○ Oxidizer ○ Organic Peroxide ○ Water Reactive ○ Air Reactive ○ Pyrophoric ○ Dioxin
○ Radioactive ○ Infectious ○ Pathogen ○ Carcinogen ○ Etiological ○ Aerosols
○ Explosive ○ Shock Sensitive ○ Undergo Hazardous Polymerization ○ Cylinder

Does the Waste contain any of the following?

	None	or	LESS THAN	or	ACTUAL		None	or	LESS THAN	or	ACTUAL
PCB'S	◉		<50ppm ○		ppm	Sulfides	◉		<50ppm ○		ppm
Cyanides	◉		<50ppm ○		ppm	Phenolics	◉		<50ppm ○		ppm

Does the waste represented by this profile contain benzene? Yes ○ No ◉

If "Yes", please list concentration in _ppm.

Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) Yes ○ No ◉

Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC) Yes ○ No ◉

If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7) Yes ○ No ◉

If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC) Yes ◉ No ○

Does the Waste contain any Class I or Class II ozone-depleting substances? Yes ○ No ◉

If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761? Yes ○ No ◉

F. SHIPPING INFORMATION

Method of Shipment

Bulk Liquid(> 500 Gallons) ☐ Bulk Solids(roll-off box, vacuum box, etc) ☐ Lab Pack ☐

Cubic Yard Boxes ☐ Totes ☐ (Please specify size)

Drums (Select size) 55 Other (Please specify)

Shipping Frequency

Number of Units Month Quarter 2-5 Year Other

G. R.C.R.A. CHARACTERIZATION

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes ◉ No ○ If "No", Please skip to section H.

Is this a "Universal Waste" per 40CFR part 273? Yes ○ No ◉

Is this a "Characteristic Waste"? Yes ◉ No ○

If "Yes", is it: ☑ D001 Ignitable ☑ D002 Corrosive ☐ D003 Reactive

Characteristic for Toxic Metals:

○ D004 ○ D005 ○ D006 ○ D007 ○ D008 ○ D009 ○ D010 ○ D011

Characteristic for Toxic Organics: D012 thru D043 (List all that apply)

G. R.C.R.A. CHARACTERIZATION: (Cont.)

Is this an "F" or "K" Listed waste or mixed with one? Yes ○ No ◉

If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:

Is this a commercial chemical product or spill cleanup that would carry a "U" or "P" waste code under 40CFR 261.33 (e) or (f) Yes ○ No ◉

If "Yes", Please list all applicable waste code(s)

Is this a state regulated waste? Yes ◉ No ○

If "Yes", Please list all codes. 0217219H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material? Yes ◉ No ○

Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Waste, Acetic Acid

"Reportable Quantity" (If any) NA lbs

Hazard Class or Division No. 8 UN/NA # UN2789 Packing Group ☐ I ☑ II ☐ III

Is this a "Poison Inhalation Hazard"? Yes ○ No ◉

If "Yes", Please indicate Hazard Zone ☐ Zone A ☐ Zone B ☐ Zone C ☐ Zone D ☐ Other

List two primary hazardous constituents: 1 acetic acid 2

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name [signature] Title Facility Manager

Signature [signature] Date 10/06/08

Submit Clear New

THIS SPACE IS FOR PCI APPROVALS DEPARTMENT USE

Date Received APPROVER'S INITIALS _____ PROFILE NUMBER 1

PROCESS CODE PRICE TRANS

PROPER WASTE CODES

PROPER D.O.T. SHIPPING NAME

HAZARD CLASS UN NA PACKING GROUP I II III

N.O.S DESCRIPTIONS

YARD INSTRUCTIONS

NO LANDFILL CUSTOMER RUN SALES ANALYTICAL MSDS ATTACHED

NO SAMPLE APPROVAL N/H FOR METALS PER GEN. SEE ATTACHED ANALYTICAL

RUN OX. SCREEN ON INCOMING RUN COMP. ON INCOMING

FORM CODE W SYSTEM CODE H

Celanese

Product name:	Acetic acid
MSDS number:	2
Material number:	80002
Published date:	06/28/2004

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product: Acetic acid, glacial
MSDS number: 2
Material number: 80002

Manufacturer name and address:

Celanese Ltd.
1601 W. LBJ Freeway
P.O. Box 819005
Dallas, TX 75381-9005
United States
Phone: 972 443 4000
Internet: www.celanesechemicals.us

Celanese Canada, Inc.
P.O. Box 99 Station Main
Edmonton, Alberta,
Canada T5J 2H7

Synonyms: Ethanoic acid; Methanecarboxylic acid.

Transportation emergency phone numbers:
In USA, call 800 424 9300
Outside USA, call 703 527 3887, collect calls accepted

2. Composition / Information on Ingredients

Component	CAS Number	Percent %	OSHA hazard category:
ACETIC ACID	64-19-7	99.85	Hazardous

3. Hazards Identification

Emergency Overview:

DANGER!
•Causes skin, eye and digestive tract burns.
•Flammable liquid and vapor.
•Causes respiratory tract irritation.

Product Description

Appearance: Clear, colorless mobile liquid.
Odor: Strong, acrid, vinegar-like odor.

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Potential health effects

Routes of exposure: Skin, eyes, inhalation, ingestion.

Immediate effects:

Skin: Causes skin burns. May be harmful if absorbed through skin. Symptoms of exposure may include: Redness or discoloration, swelling, itching, burning or blistering of skin.

Eyes: Exposure to liquid Causes severe eye burns, damage irreversible. Exposure to vapors Causes eye irritation. Symptoms of exposure may include: Eye irritation, burning sensation, pain, watering, and/or change of vision.

Inhalation: Causes respiratory tract irritation. Harmful if inhaled. Symptoms of exposure may include: Nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Accumulation of fluid in the lungs (pulmonary edema); symptoms can be delayed for several hours.

Ingestion: Causes digestive tract burns. Symptoms of exposure may include: Nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhea. Inflammation of mouth, throat, esophagus and/or stomach.

Reproductive: No evidence of reproductive effects.

Carcinogenic: No evidence of carcinogenicity.

Mutagenic: Shows mixed results for mutagenic potential in vitro.

Target organ effects:
- Overexposure (prolonged or repeated exposure) may cause:
  Injury to the eyes
  Digestive tract damage
  Respiratory tract damage
  Skin damage.

Medical conditions which may be aggravated by exposure: Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:
Respiratory Tract
Skin
Eyes

For further information, see:
Section 4 - First Aid Measures
Section 5 - Fire Fighting Measures
Section 6 - Accidental Release Measures
Section 8 - Exposure Controls/Personal Protection
Section 9 - Physical and Chemical Properties
Section 10 - Stability and Reactivity

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

4. First Aid Measures

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Note to physician: Observe for latent pulmonary edema.

5. Fire Fighting Measures

NFPA: Health: 3 Flammability: 2 Reactivity: 0

Flammable properties

Flash point (test method): 39 C (103 F) (Closed Cup)

Flammable limits in air, % by volume:

Upper: 19.9%

Lower: 4%

Autoignition temperature: 516 C (961 F)

Products of combustion: Carbon Monoxide.

Extinguishing Media: Use alcohol type aqueous film forming foam for large fires. Use CO_2 or dry chemical for small fires.

Fire Fighting Instructions: Water spray should be used to cool fire-exposed structures and vessels. Water spray can be used to reduce the intensity of flames and to dilute spills to a non-flammable mixture. Keep personnel removed from and upwind of fire. If potential for exposure to vapors or products of combustion exists, wear full fire fighting turnout gear and NIOSH approved self-contained breathing apparatus. Oxidizing chemicals may accelerate the burning rate in a fire situation.

Fire Fighting Environmental Concerns: Water run-off and vapor cloud may be corrosive. Dike and collect water used to fight fire for neutralization before release. Water streams should not be directed to the liquid, as this will cause the liquid to boil and generate more vapor. Thoroughly decontaminate bunker gear and other fire-fighting equipment before re-use.

6. Accidental Release Measures

Spill or Leak Instructions Eliminate ignition sources. See Section 8 for appropriate personal protective equipment. Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. If fire potential exists, blanket spill with alcohol type aqueous film-forming foam or use water fog stream to disperse vapors. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Neutralize with lime or sodium bicarbonate. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Within the United States, call the National Response Center (800-424-8802) and appropriate state and local authorities if the quantity released over 24 hours is equal to or greater than the reportable quantity listed below:
5,000 lbs. of the material as is, based on a Reportable Quantity of 5,000 lbs. of acetic acid.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck in involved in fire. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapors or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases.

7. Handling and Storage

Handling: Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling must conform to requirements of National Electric Code (Article 500 and 501) for hazardous location.

Storage: Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor.
Do not store with incompatible materials. See Section 10. Stability and Reactivity.

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

8. Exposure Controls / Personal Protection

Engineering Controls: General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred.

Protective Equipment A safety shower and eyebath should be readily available.

Skin protection: Wear impervious clothing and gloves to prevent contact. Neoprene is recommended. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Eye/face protection: Wear chemical goggles when there is a reasonable chance of eye contact. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Respiratory protection: Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH. The following is the minimum recommended equipment for an occupational exposure level. To estimate an occupational exposure level see Section 3, Section 8 and Section 11.

For concentrations > 1 and < 10 times the occupational exposure level: Use air-purifying respirator with full facepiece and organic vapor cartridge(s) or air-purifying full facepiece respirator with an organic vapor canister or a full facepiece powered air-purifying respirator fitted with organic vapor cartridge(s). The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. Otherwise, use supplied air.

For concentrations more than 10 times the occupational exposure level and less than the lower of either 100 times the occupational exposure level or the IDLH: Use Type C full facepiece supplied-air respirator operated in positive-pressure or continuous-flow mode.

For concentrations > 100 times the occupational exposure level or greater than the IDLH level or unknown concentrations (such as in emergencies): Use self-contained breathing apparatus with full facepiece in positive-pressure mode or Type C positive-pressure full facepiece supplied-air respirator with an auxiliary positive-pressure self-contained breathing apparatus escape system.

For escape: Use self-contained breathing apparatus with full facepiece or any respirator specifically approved for escape.

Exposure guidelines

Product name:	Acetic acid
MSDS number:	2
Material number:	80002
Published date:	06/28/2004

Component	CAS Number	Percent %	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA TWA	OSHA STEL	OSHA CEILING	Celanese WEL *	Mexico TWA	Mexico STEL	Mexico CEILING
ACETIC ACID	64-19-7	99.85	10 ppm	15 ppm	-	10 ppm	-	-	-	10 ppm	15 ppm	-

Component	CAS Number	Percent %	1990 NIOSH IDLH (Recognized by OSHA)	1994 NIOSH IDLH
ACETIC ACID	64-19-7	99.85	1,000 PPM	50 ppm

Comments: Celanese has adopted the ACGIH TLVs

9. Physical and Chemical Properties

Appearance: Clear, colorless mobile liquid.

Odor: Strong, acrid, vinegar-like odor.

Vapor Pressure: 15.7 mm Hg @ 25 deg C

Vapor Density (Air=1 @ 20°C): 2.07

Boiling Point (760 mmHgA): 118 C (244 F)

Freezing Point: 16.6 C (61.9 F)

Solubility in Water @ 20°C: 100 %

Specific Gravity: 1.0492 at 20 deg C

Molecular Weight: 60.05

Evaporation Rate (n-Butyl acetate = 1): 0.97

10. Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Avoid exposure to heat; may cause containers to rupture or explode.

Incompatibility: Keep away from caustic soda, lime and strong alkalis, oxidizing agents such as nitric acid, peroxides, amines, sulfuric acid, perchloric acid or chromium trioxide.

Hazardous Combustion or Decomposition Products: Thermal decomposition products may include oxides of carbon.

Hazardous Polymerization: Hazardous polymerization will not occur.

Transportation emergency: 800 424 9300 CHEMTREC, 24 hrs/day
703 527 3887 Outside USA, collect calls accepted, 24 hrs/day

Product emergency: 800 835 5235 Celanese, 24 hrs/day

11. Toxicological Information

Component Toxicological Information

Component	ACETIC ACID

Acute Exposure:

Oral LD50: 3.2-5.6 g/kg (rats); slightly toxic to animals.

Inhalation LC50: > 16000 ppm (rats, 4 hours); practically nontoxic to animals.

Skin: Corrosive to rabbit skin. Moderately toxic to animals (LD50, rabbits: 1.1 g/kg).

Eyes: Corrosive to rabbit eyes.

Mutagenicity: Mixed results *in vitro* (negative in the Ames and Chinese hamster ovary assay; positive in human lymphocytes for SCEs and in some DNA damage assays). The positive results are thought to be due to artifacts caused by acidification of the culture media.

Carcinogenicity: No studies conducted according to accepted scientific principles.

Reproductive/Developmental Effects: No reproductive effects were found after oral administration of 1.6 g apple cider vinegar per day (5% acetic acid) to pregnant rabbits, rats or mice.

Repeated Exposure: Acetic acid was administered to rats in the drinking water at concentrations up to 0.5% (up to 390 mg/kg) for 2 to 4 months. Reduced food intake and growth were noted in the 390 mg/kg group but no effects were noted in concentrations of 8 to 195 mg/kg. Administration of 0.5 ml of 3% acetic acid to rats (approx. 60 mg/kg/treatment) in water by stomach tube 3 times/week for 8 months induced cell proliferation of the gullet and forestomach.

12. Ecological Information

Component Ecological Information

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Ecotoxicity: The aquatic toxicity and biodegradation of acetic acid are expected to be influenced by its potential to lower pH.

Acetic acid exhibits slight acute toxicity to aquatic species. The 24-, 48- and 96-hour LC50 values for the fathead minnow are 106-122, 92-106 and 79-88 ppm, respectively. The 48-hour LC50 values for rainbow trout and carp are 105 and 49 ppm, respectively. The 96-hour LC50 for mosquitofish is 251 ppm. The 24-hour EC50 for the water flea (daphnid) is 6000 ppm. Toxicity thresholds for green algae (Scenedesmus quadricauda), blue-green algae (Anacystis aeruginosa), and euglenoid (Entosiphon sulcatum) are 4000, 90 and 78 ppm, respectively.

Environmental Fate:

Degradation: Acetic acid will biodegrade readily if released to water (e.g., 5-Day BOD's 63-81%) or soil. The atmospheric photochemical degradation half-life is estimated to be 26.7 days.

Bioaccumulation: The log n-octanol water partition coefficient for acetic acid is -0.17. This suggests that acetic acid has low potential to bioaccumulate.

13. Disposal Considerations

Dispose of spilled material in accordance with state and local regulations for hazardous waste. Recommended methods are incineration or biological treatment at a federally or state-permitted disposal facility. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

EPA Hazardous Waste Code(s): D001, D002

14. Transport Information

US Department of Transportation:

UN/NA Number:	UN 2789
Shipping name:	ACETIC ACID, GLACIAL
Hazard class:	8

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Acetic acid
MSDS number:	2
Material number:	80002
Published date:	06/28/2004

Subsidiary hazard: (3)
Packing Group: II
DOT Reportable Quantity (RQ): 5000 lbs./ 2270 kg
Emergency Response Guide: 132

ICAO/IATA:

IATA UN Number: UN 2789
Proper Shipping Name: ACETIC ACID, GLACIAL
Hazard Classification: 8
Subsidiary Hazard: 3 (Flammable Liquid)
Packing group: II
Label: Corrosive (Flammable Liquid)

IMDG:

International Marine UN Number: UN 2789
Proper Shipping Name: ACETIC ACID, GLACIAL
Hazard Class: 8
Subsidiary Hazard: 3 (Flammable Liquid)
Packing Group: II
Flash point (test method): 39 C (103 F) (Closed Cup)

Transport Canada

Proper Shipping Name: Acetic acid, glacial
Class: Corrosive 8
Subsidiary Risk: (3)
Packing Group: II

Trade Information

Schedule B Code (export): 2915.21.0000
Harmonization Code (import): 29152100

15. Regulatory Information

U.S. STATE REGULATIONS

Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):

ACETIC ACID 64-19-7

Pennsylvania Listed
New York Listed
New Jersey Listed
Illinois Listed

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Acetic acid
MSDS number:	2
Material number:	80002
Published date:	06/28/2004

Massachusetts	Listed
Rhode Island	Listed

U.S. FEDERAL REGULATIONS

TSCA Inventory: We certify that all components are either on the TSCA inventory or qualify for an exemption.

Environmental Regulations:

ACETIC ACID 64-19-7
CERCLA Hazardous Substance Listed

SARA 311:

Acute health:	Yes
Chronic health:	No
Fire:	Yes
Sudden release of pressure:	No
Reactive:	No

INTERNATIONAL REGULATIONS

International Chemical Inventory
Listed on the chemical inventories of the following countries or qualifies for an exemption:

AUSTRALIA,CHINA,CANADA,EUROPE,KOREA,PHILIPPINES, JAPAN

CANADIAN REGULATIONS

WHMIS Classification: Class B, Division 3. Class E. Class D, Division 2, Subdivision B.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. Other Information

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Celanese

Product name:	Acetic acid
MSDS number:	2
Material number:	80002
Published date:	06/28/2004

Prepared by: Product Stewardship Department
Celanese Ltd.

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Health: 3 Flammability: 2 Reactivity: 0

HMIS: Health: 3 Flammability: 2 Reactivity: 0

Revisions: The following sections have been revised since the last issue of this MSDS.

1. Product and Company Identification (for Asia Pacific MSDSs only)

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Celanese makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Material safety data sheets are provided on the Internet by Celanese as a service to its customers. Possession of an Internet MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.

Pricing

Waste Stream Approval Letter

3/25/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257600	FLAMMALE DRUMS
Billing Code:	LF	
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, N.O.S.	
N. O. S. Description:	ETHANOL, TRIMETHYL BENZENE PG:II	
Hazard Class:	3	
RCRA Codes:	D001,U213,U162	
UN or NA #	UN1993	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $40.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 3/30/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX:(219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI

Pollution Control Industries

12/1/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288043 WASTE HYDROGEN PEROXIDE
Billing Code:	LP5
D. O. T. Shipping desc:	WASTE Hydrogen peroxide, aqueous solutions
N. O. S. Description:	(HYDROGEN PEROXIDE)
Hazard Class /Packing Group:	5.1 PG:II
RCRA Codes:	D001,D002
UN or NA #:	UN2014
EPA Management Method Code:	H141

Pricing: $2.80 per lb, $840.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: _____

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
www.pollutioncontrol.com

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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

8/19/2005

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	296285	ANILINE
Billing Code:	LF	
D. O. T. Shipping desc:	WASTE ANILINE	
N. O. S. Description:	ANILINE PG:II	
Hazard Class:	6.1	
RCRA Codes:	D001	
UN or NA #	UN1547	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: _____

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI
Pollution Control Industries

12/1/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288038 WASTE PHENYLALDOL
Billing Code:	LP7
D. O. T. Shipping desc:	WASTE Solids containing flammable liquid, n.o.s.
N. O. S. Description:	(PHENYLALDOL)
Hazard Class /Packing Group:	4.1 PG:II
RCRA Codes:	D001,D003
UN or NA #:	UN3175
EPA Management Method Code:	H141

Pricing: $4.60 per lb, $1640.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: _____

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
www.pollutioncontrol.com

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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

1/3/2006

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288037	O-TOLUIDINE
Billing Code:	LI	
D. O. T. Shipping desc:	WASTE Toluidines liquid	
N. O. S. Description:	O-TOLUIDINE PG:II	
Hazard Class:	6.1	
RCRA Codes:	U328	
UN or NA #	UN1708	
EPA Management Method Code:	H141(PCI H Code)	H040(Final Destination)

Pricing $395.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 1-4-06

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219) 397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

3/3/2005

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288001	ACETONITRILE
Billing Code:	LF	
D. O. T. Shipping desc:	WASTE ACETONITRILE	
N. O. S. Description:	ACETONITRILE PG:II	
Hazard Class:	3	
RCRA Codes:	U003,D001	
UN or NA #	UN1648	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 3/3/05

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING
A commitment to our generators, our employees, and our community.

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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

1/4/2006

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288042	ACID
Billing Code:	LA	
D. O. T. Shipping desc:	WASTE Corrosive liquid, acidic, inorganic, n.o.s.	
N. O. S. Description:	HYDROCHLORIC ACID PG:I	
Hazard Class:	8	
RCRA Codes:	D002	
UN or NA #	UN3264	
EPA Management Method Code:	H141(PCI H Code)	H111(Final Destination)

Pricing $230.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: Erica M Boyd DATE: 1-4-06

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING
A commitment to our Generators, our employees, and our Community.

8

Waste Stream Approval Letter

6/28/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257621	WASTE TDI
Billing Code:	SF	
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, N.O.S.	
N. O. S. Description:	TDI, NAPTHALENE PG:II	
Hazard Class:	3	
RCRA Codes:	D001,U223	
UN or NA #	UN1993	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $75.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 6/28/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING
A commitment to our generators, our employees, and our community.

G

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

8/2/2005

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	296307	BASONAT HI 100, WASTE TOLUENE DIISOCYANAT
Billing Code:	LY	
D. O. T. Shipping desc:	RQ, WASTE TOLUENE DIISOCYANATE	
N. O. S. Description:	TOLUENE DIISOCYANATE, 1,6-HEXAMETHYLENE DIISOCYANATE PG:	
Hazard Class:	6.1	
RCRA Codes:	D003,U223	
UN or NA #	UN2078	
EPA Management Method Code:	H141(PCI H Code)	H040(Final Destination)

Pricing $0.65 per lb, $50.00 minimum per 55 Gallon Drum $.5/lb $10
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

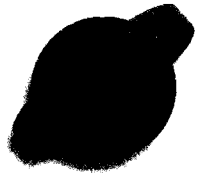
BY: Teresa Tello DATE: 8/2/05

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING
A commitment to our generators, our employees, and our community.

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461



PCI

Pollution Control Industries

12/1/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257554 WASTE SODIUM METHYLATE
Billing Code:	LP7
D. O. T. Shipping desc:	WASTE SODIUM METHYLATE
N. O. S. Description:	(SODIUM METHYLATE)
Hazard Class /Packing Group:	4.2 PG:II
RCRA Codes:	D001,D002,D003
UN or NA #:	UN1431
EPA Management Method Code:	H141

Pricing: $4.60 per lb, $1640.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: _____

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠
RECYCLING
A commitment to our generators, our employees, and our community.

11

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

2/14/2006

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288044	WASTE DODECYLBENZENE SULFONIC ACID
Billing Code:	VA	
D. O. T. Shipping desc:	WASTE Alkyl sulfonic acids, liquid	
N. O. S. Description:	DODECYL BENZENE SULFONIC ACID PG:III	
Hazard Class:	8	
RCRA Codes:	D002	
UN or NA #	UN2584	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $100.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: Paul A Reply DATE: 02/17/06

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING
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12

Waste Stream Approval Letter

5/4/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257606	BIPHENYL 95%
Billing Code:	SF	
D. O. T. Shipping desc:	HAZARDOUS WASTE, SOLID, N.O.S.	
N. O. S. Description:	BIPHENYL, BENZENE PG:III	
Hazard Class:	9	
RCRA Codes:	D018	
UN or NA #	NA3077	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $75.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 5/4/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

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13

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

3/25/2004

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257599	DIETHYL SULFATE
Billing Code:	VA	
D. O. T. Shipping desc:	WASTE CORROSIVE LIQUIDS, N.O.S.	
N. O. S. Description:	DIETHYL SULFATE, WATER PG:II	
Hazard Class:	8	
RCRA Codes:	D002	
UN or NA #	UN1760	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $100.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 3/30/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

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Waste Stream Approval Letter

6/23/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257620	WASTE P-CRESOL
Billing Code:	LF	
D. O. T. Shipping desc:	WASTE CRESOLS	
N. O. S. Description:	P-CRESOL, WATER PG:II	
Hazard Class:	6.1	
RCRA Codes:	D025	
UN or NA #	UN2076	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $40.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 6/24/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

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15

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

5/4/2004

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257605	2,4-D 2-ETHYLHEXYL ESTER TECHNICAL
Billing Code:	LI	
D. O. T. Shipping desc:	HAZARDOUS WASTE, LIQUID, N.O.S.	
N. O. S. Description:	2,4-D 2-ETHYLHEXYL ESTER PG:III	
Hazard Class:	9	
RCRA Codes:	D016	
UN or NA #	NA3082	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $395.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 5/4/04

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

3/30/2007

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257598 P-LISTED PESTICIDES
Billing Code:	LPR
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, N.O.S.
N. O. S. Description:	OXAMYL, DIESEL
Hazard Class /Packing Group:	3 PG:II
RCRA Codes:	D001,P194
UN or NA #:	UN1993
EPA Management Method Code:	H141

Pricing:	$1.60 per lb, $520.00 minimum per 55 Gallon Drum Minimum charges and other analytical charges may apply.
Transportation:	$35.00 per piece $350.00 minimum stop charge
Fuel Surcharge:	A fuel surcharge will be added to transportation line items per agreement.
Energy Assessment:	A 5% energy assessment will be added to all non-transportation invoice line items.
Rejection Charge:	Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.
Terms:	Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing th waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and wil accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or th State's regulatory equivilant. If at any time the waste is found not representative of the information supplied by the Generator/Broker. title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appea on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system

BY: Duane Carter DATE: 4/24/07

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Waste Stream Approval Letter

6/23/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257619	WATER MALEIC ANHYDRIDE
Billing Code:	LF	
D. O. T. Shipping desc:	WASTE MALEIC ANHYDRIDE	
N. O. S. Description:	MALEIC ANHYDRIDE, WATER	PG:III
Hazard Class:	8	
RCRA Codes:	U147	
UN or NA #	UN2215	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $40.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 6/23/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

3/30/2007

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288040 WASTE HYDRAZINE HYDRATE
Billing Code:	LP
D. O. T. Shipping desc:	WASTE Hydrazine aqueous solutions
N. O. S. Description:	HYDRAZINE HYDRATE
Hazard Class /Packing Group:	8 PG:II
RCRA Codes:	D001,D002,U133
UN or NA #:	UN2030
EPA Management Method Code:	H141

Pricing:	$3.50 per lb, $1105.00 minimum per 55 Gallon Drum Minimum charges and other analytical charges may apply.
Transportation:	$35.00 per piece $350.00 minimum stop charge
Fuel Surcharge:	A fuel surcharge will be added to transportation line items per agreement.
Energy Assessment:	A 5% energy assessment will be added to all non-transportation invoice line items.
Rejection Charge:	Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.
Terms:	Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing th waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and wil accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or th State's regulatory equivilant. If at any time the waste is found not representative of the information supplied by the Generator/Broker title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appea on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system

BY: Donald Cutter DATE: 4/24/07

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI

Pollution Control Industries

12/1/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288032 WASTE CORROSIVE LIQUID TOXIC
Billing Code:	LP7
D. O. T. Shipping desc:	Waste Environmentally hazardous substances, liquid, n.o.s.
N. O. S. Description:	(SODIUM SULFIDE, AMMONIUM POLYSULFIDE)
Hazard Class /Packing Group:	9 PG:III
RCRA Codes:	D002,D003
UN or NA #:	UN3082
EPA Management Method Code:	H141

Pricing: $4.60 per lb, $1640.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: _____

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
www.pollutioncontrol.com

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RECYCLING
A commitment to our generators, our employees, and our community.

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

7/3/2006
MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG 4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288184	MOLTEN PHENOL
Billing Code:	LP	
D. O. T. Shipping desc:	WASTE Phenol, molten	
N. O. S. Description:	LEWATIT/ PHENOL-MISCHUNG PG:II	
Hazard Class:	6.1	
RCRA Codes:	U188	
UN or NA #	UN2312	
EPA Management Method Code:	H141(PCI H Code)	H040(Final Destination)

Pricing $1.40 per lb. $225.00 minimum per 55 Gallon Drum 1.40 PER DRUM
Minimum charges and other analytical charges may apply

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted.

BY: _____ DATE: _____

Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

7/3/2006

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG 4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	288052	WASTE TOXIC SOLID INORGANICS
Billing Code:	ND	
D. O. T. Shipping desc:	Nitrophenols	
N. O. S. Description:		
Hazard Class:		
RCRA Codes:	NONE	
UN or NA #	UN1663	
EPA Management Method Code:	H141(PCI H Code)	H040(Final Destination)

Pricing $0.65 per lb, $50.00 minimum per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: _____

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Waste Stream Approval Letter

5/7/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257612	NON-HAZ LIQUIDS
Billing Code:	LS	
D. O. T. Shipping desc:	TOXIC LIQUID, INORGANIC, N.O.S.	
N. O. S. Description:		
Hazard Class:		
RCRA Codes:	NONE	
UN or NA #	UN3287	
EPA Management Method Code:	na(PCI H Code)	na(Final Destination)

Pricing $45.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: [signature] DATE: 5/7/04

Pollution Control Industries
4345 Kennedy Avenue, East Chicago, IN 46312
(219) 397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

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Waste Stream Approval Letter

8/26/2004

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	257646	WASTE AMINES
Billing Code:	VC	
D. O. T. Shipping desc:	WASTE FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	
N. O. S. Description:	N-OCTEL AMINE, METHANOL AMINE PG:II	
Hazard Class:	3	
RCRA Codes:	D001,D002	
UN or NA #	UN2924	
EPA Management Method Code:	H061(PCI H Code)	H050(Final Destination)

Pricing $100.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Transportation

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their States regulatory equivalent. If at any time the waste is found not representative of the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of the non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream # appear on each shipping document (Section J of manifest), and container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted:

BY: _____ DATE: 8/26/04

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX: (219)397-6411
www.pollutioncontrol.com

RESPONSIBLE℠ RECYCLING
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Waste Stream Approval Letter

CES ENVIRONMENTAL SERVICE
4904 GRIGGS ROAD
HOUSTON,TX 77021
TXD008950461

PCI
Pollution Control Industries

10/14/2008

MATT BOWMAN
STOLT-NIELSON
16300 DE ZEVALLA RD. BLDG.4
CHANNELVIEW,TX 77530
TXD000326819

Dear MATT BOWMAN

Pollution Control Industries wishes to inform you that the waste stream below has been approved for shipment into PCI:

Regulatory Information

Waste Stream #:	335987 ACETIC ACID
Billing Code:	VA
D. O. T. Shipping desc:	WASTE ACETIC ACID, GLACIAL
N. O. S. Description:	ACETIC ACID
Hazard Class /Packing Group:	8 PG:II
RCRA Codes:	D001,D002
UN or NA #:	UN2789
EPA Management Method Code:	H061

Pricing: $105.00 per 55 Gallon Drum
Minimum charges and other analytical charges may apply.

Energy Assessment: A 7% energy assessment will be added to all non-transportation invoice line items.

Rejection Charge: Waste that does not conform to the approved profile or PCI's other acceptance requirements shall be subject to an additional charge of $300 per drum, or if shipped in bulk, per manifest, and such non-conforming waste will be processed or returned to you at PCI's sole option.

Terms: Net 30 days. Pricing and approval parameters subject to change.

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivilant regulations, Pollution Control Industries is informing the waste Generator that Pollution Control Industries' companies have the appropriate permit(s) for the above listed waste stream and will accept the waste stream as described by the Generator/Broker, including but not limited to the certification in the Generator's Waste Profile Submittal Report. This waste stream approval was founded on the information that the Generator/Broker provided pursuant to the Generator's compliance with 40 CFR 262.11 "Hazardous Waste Determination" and/or their State's regulatory equivilant. If at any time the waste is found to contain constituents, properties, or concentrations inconsistent with the information supplied by the Generator/Broker, title to such waste shall not pass to PCI, and, in addition to the Rejection Charge described above, you shall be liable for all direct, indirect, and consequential damages incurred by PCI as a result of non-conforming waste. PCI reserves the right, in its sole discretion, to utilize processes within RCRA environmental standards alternate to the billing code stated above to process the waste listed on this approval letter. No Purchase Order shall abrogate the terms of this Waste Stream Approval Letter.

To facilitate the expedited receipt and processing of the above waste, PCI requires that the above listed Waste Stream Number appear on each shipping document (Block 14 of the UHW manifest), and on each container (top and side).

As a final condition of PCI's acceptance, this approval letter must be signed and returned to PCI. This waste stream will not be valid for scheduling or acceptance at any PCI facility until a signed form is on file.

I agree with the terms as stated above and I certify that the information contained herein is accurate and in accordance with a system designed to assure that qualified personnel have properly gathered and evaluated the information submitted and that I am an authorized agent of the Generator:

BY: _____ DATE: 10-14-08

Pollution Control Industries
4343 Kennedy Avenue, East Chicago, IN 46312
(219)397-3951 FAX (219)397-6411
www.pollutioncontrol.com

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33

Houston Chronicle Newspaper Article of
July 9, 2009 – Thursday (Re: CES Incident)
(Misleading Statements and CES Response)

Timeline
CES Environmental Services has had numerous run-ins with local, state and federal authorities over its business practices:

1. **Misleading Statement**
   2005 – 2008 CES is investigated by City of Houston Bureau of Air Quality Control 196 citations or notices of violations for nuisance odor.

   CES Response:
   The city issued 52 violations over a four year period for extremely subjective odor violations. The City of Houston does not use objective criteria to determine odor violations. CES has requested from the City of Houston on numerous occasions, clear fence-line standards and criteria as to what would constitute an odor violation (*e.g.*, location, odor threshold, intensity, duration, *etc.*).

2. **Misleading Statement**
   October 2, 2008: Tanker truck catches fire at CES' Houston facility at 4904 Griggs.

   CES Response:
   A small, contained fire occurred that lasted seconds. No one was hurt and no damage resulted.

3. **Misleading Statement**
   December 6, 2008: Major explosion shakes ground and sends debris through residential neighborhood that surrounds the Houston facility.

   CES Response:
   CES purchased and operated a regenerative thermal oxidizer to address neighbor's odor concerns. A small, limited duration over-pressurization caused a piece of ductwork to fly into a neighbor's backyard. The event did not hurt anyone on or off-site and only damaged one piece of equipment that was used exclusively for odor control. This device is no longer in use.

4. **Misleading Statement**
   December 16, 2008: Second explosion takes place at the Houston facility.

   CES Response:
   CES purchased and operated a carbon-bed scrubber to address neighbor's odor concerns. A small, limited duration pressure release occurred that resulted in some carbon dust being released into the air during an equipment repair. This did not hurt anyone or damage any equipment on or off-site other than the odor-control scrubber. This device is no longer in use.

5. **Misleading Statement**
December 18, 2008: Joey W. Sutter dies from asphyxiation and poisoning because of hydrogen sulfide inhalation at CES facilities in Port Arthur.

CES Response:
This incident occurred at a separate company in Port Arthur, Port Arthur Chemical and Environmental Services, LLC (PACES, LLC), and this is not a CES Environmental site.

Original reporting by the Beaumont Enterprise was based on a quote from a Port Arthur Justice of the Peace who told the newspaper that Mr. Sutter died from "HS2 poisoning" before any autopsy report was released. PACES, LLC is in the process of challenging the original autopsy findings. Additional and new evidence indicates that the first conclusion was incorrect and Joey Sutter's cause of death was not of H2S exposure or work-related causes. Mr. Sutter had health issues (e.g. high blood pressure).

6. **Misleading Statement**
December 31, 2008: City Council OKs plans to sue CES under public nuisance laws for odors emanating from its facility that were the cause of numerous daily complaints from neighboring residents.

CES Response:
Citizens used the city to create a political situation that would attempt to force CES out of Houston. In the last eight months CES has only had two odor violations from the City of Houston.

7. **Misleading Statement**
January 8, 2009: Texas Commission on Environmental Quality alleges violations dealing with record-keeping about the chemicals at Houston plant and lack of permits for some of its operations.

CES Response:
These alleged violations were the result of an 8-day, unannounced multi-media audit by the TCEQ. CES has submitted evidence that half of the record-keeping issues raised were incorrect, and has requested a review of all of the alleged violations (i.e. boiler fuel consumption records).

8. **Misleading Statement**
January 16, 2009: TCEQ investigation of December 6, explosion alleges two violations of state regulations that resulted in an explosion that released 239 pounds of methyl ethyl ketone into the atmosphere for 13 minutes.

CES Response:
This is incorrect. CES provided worst-case estimates of MEK release that demonstrated the maximum possible MEK released could be only 239 pounds (actual release was much lower), well below the 5,000 pound threshold for official incidence reports to TCEQ.

9. **Misleading Statement**
February 4, 2009: CES settles with city of Houston over alleged nuisance odors, pays $102,000 and agrees to move certain operations away from Houston facility.

CES Response:
The cost of on-going legal involvement with the City of Houston exceeded $100,000 monthly. To stop a costly long court action CES agrees to a settlement including paying $102,000 over a time period and moving and/or discontinuing some on-site operations. CES has complied with this agreement.

10. **Misleading Statement**
April 14, 2009: Charles B. Sittig dies at CES' Port Arthur facility; OSHA isinvestigating the fatality.

CES Response:
This incident occurred at a separate company in Port Arthur, PACES, LLC, and this is not a CES Environmental site.

On April 14, 2009, Mr. Sittig, while not working, at rest in a chair and complaining of chest pains, experienced health problems and passed later at a hospital because of non-work related causes.

11. **Misleading Statement**
June 11, 2009: TCEQ recommends $19,500 penalty be assessed against CES from numerous violations of Texas Health and Safety Code.

CES Response:
This is a restatement of misleading statement 7.

This was the result of issues raised by TCEQ on record keeping that CES has formally challenged with data that shows that CES did keep the records.

12. **Misleading Statement**
June 17, 2009: OSHA issues two citations and levies $16,600 in fines after Sutter death.

CES Response:
This incident occurred at a separate company in Port Arthur, PACES, LLC, and this is not a CES Environmental site.

These alleged violations were the result of full audit by OSHA. PACES, LLC is disputing the validity of these allegations with data and is engaged in the formal process of review.

13. **Misleading Statement**
July 7, 2009: A man dies at CES' Houston location.

CES Response:
While this was a work-related accident, initial investigations indicate that this accident was the result of gross negligence and disregard of existing CES safety procedures on the part of the deceased employee.

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CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Telephone: (713)-676-1460
Fax: (713)-676-1676
www.cesenvironmental.com

July 7, 2009

Ms. Jo Ann Huffman
Environmental Investigator
Bureau of Air Quality Control
City of Houston
7411 Park Place Blvd.
Houston, TX 77087-4441

RE: NOV – June 24, 2009 @ 10:25 am

Dear Ms. Huffman:

This correspondence is submitted in response to the NOV of June 24, 2009 at 10:25 am issued by you to CES Environmental Services, Inc., at 4904 Griggs Road, Houston, Texas.

The NOV Form requires a response within ten (10) days from the date of notice, including the submittal of relevant information demonstrating compliance with Section 10-451(b)(1). The applicable section of the City Code of Ordinances prohibits the alleged escape of any gases to such an extent that anyone of them shall become or likely to become a source of discomfort to persons living or passing in the vicinity, or the same shall by reason of offensive odor become a source of discomfort to persons passing or living in the vicinity thereof.

On June 24, 2009, City inspectors visited CES at least one hour after the recorded citation time of 10:25 am. When asked for the purpose of the visit, the City inspectors explained that an unidentified resident on Grace Lane complained of an odor at 9:30 am of the same morning, and the odor was allegedly continuous for days since June 22, 2009. You elaborated that you had visited the resident's home and conducted an off-site odor investigation, thereby verifying the odor. The odor was explained by you to be like that of a "rendering plant or animal tanning plant." We are not aware of any activity conducted at CES what would produce odors of similar intensity or such a highly distinctive nature. The NOV was issued before an onsite odor investigation was conducted.

After determining that an NOV would be issued, the City inspectors and CES employees conducted a joint onsite investigation, which included a tour of the Main Processing Facility, the Hydrocarbon Processing Facility, the east side of CES operations, and the west side of CES operations. The City inspection team also evaluated the dual drum carbon units in use to eliminate VOC emissions. All units were in proper operation. No odor was detected from CES that was a source of discomfort to a person passing in the

EPAHO082000562

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Telephone: (713)-676-1460
Fax: (713)-676-1676
www.cesenvironmental.com

vicinity or an offensive odor. The wind direction was noted to be from the west heading east.

While no person from CES or the City inspection team could identify a distinct odor in the vicinity during the onsite inspection, we understand perceptions may differ. In the future, it would be greatly appreciated if the City would provide us, and the area residents for that matter, with greater assistance in promptly alerting CES of concerns and responding onsite in a more timely manner. In addition, as we have requested in past communications, CES needs clear fence-line standards and criteria as to what would constitute an odor violation (*e.g.*, location, odor threshold, intensity, duration, *etc.*).

CES has been the target of false odor complaints in the past and has serious and reasonable concerns about complaints that appear prompted not by actual odor issues, but rather in an effort by certain litigants who are adverse to CES to improve their litigation position in a pending lawsuit. CES operates its facility in a manner conforming to pertinent environmental laws.

We do not believe that CES was the source of any alleged odor cited in the June 24 NOV. CES seeks to cooperate with the City and its neighbors, but it must refute any NOVs that are without merit. That situation applies here. Unfortunately, the highly subjective and unverifiable nature of the City odor ordinance can be applied in an uneven manner by outside parties that denies CES the fair opportunity to refute groundless accusations. Without verifiable and objective standards, the ordinance and the manner of its enforcement has the potential to damage CES and undermine our serious efforts to work with the City.

In summary, on June 24, 2009, the CES facility was engaged in normal operations with the tank wash process, wastewater process, and hydrocarbon recovery process, and no odor was detected during your on-site tour of our facility. These joint, on-site observations demonstrate compliance. We respectfully request that the June 24 NOV be rescinded.

Very truly yours

Matt Bowman, President
CES Environmental Services, Inc.

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CES Environmental Services, Inc.

INCIDENT REPORT

Near Miss XXX **Accident**

Date of Incident 10/02/08 **Time 2:50 p. m.**

Result of Incident: **Employment Endangerment & Property Damage**

1) XXFire 2) ☐ Explosion 3) Equipment Damage 4) Property Damage

5) ☐ Product Loss 6) Production Loss 7) Employee Endangerment

8) ☐ Other _____

Person(s) Directly Involved Name: Juan Morales, Matt Taylor, James Pharms, Glen Olson, Jorge Martinez, Matt Moser

Exact Location Where Incident Occurred: Hydrocarbon Processing Facility

Describe Fully How Incident Occurred: CES Environmental Services, Inc. Driver Matt Taylor was operating Truck # 280 pulling rental trailer LT – 423 bearing license plate R08783. Matt Taylor parked the loaded trailer which was carrying Refinery Feedstock (light ends) (MSDS attached to hard copy of this report) on the east side of the Hydrocarbon Processing Tanks (containment area). Juan Morales, CES Environmental Services, Inc. Waste Oil Technician set up to pull a sample from the trailer. Static electricity appears to have ignited fumes from the trailer. James Pharms, CES Environmental Services, Inc. Tankwash Manager, Jorge Martinez and others reacted quickly to extinguish the flame and close the trailer dome lid. The entire incident was contained in a matter of minutes. 911 Emergency Services were notified as a safety precaution

What Conditions Lead to Incident: Failure to adequately ground the equipment in use.

Recommendations to Prevent Reoccurrence: Immediate training and counseling of Tankwash and Hydrocarbon Processing employees in proper ground techniques and practices. Proper grounding techniques and practices for all CES Environmental Services, Inc. employees has been schedule for October 8, 2008 in conjunction with the scheduled safety training.

Witnesses: Name: Matt Taylor Name: James Pharms

Name: Jorge Martinez Name: Juan Morales

Prepared by: Karl A. Guidry Title: CES Environmental EHS Manager Initials KAG

Approved by: Matt Moser Title: Initials MM

Evaluation of Emissions from a
Tank Trailer Fire Incident on October 2, 2008
to Confirm that a Reportable Emissions Event Did Not Occur
at 4904 Griggs Road, Houston, Texas

As outlined in the attached calculations, the October 2 trailer fire incident did not result in emissions of any constituent equal to or in excess of a reportable quantity as outlined in 30 TAC Chapter 101.1(88).

The product involved was a Refinery Feedstock received from
The feedstock consisted of petroleum hydrocarbons including gasoline, diesel and kerosene. The percentage of each of these fuels is not known; therefore the calculations are conservatively based on a worst case assumption that the product was 100% gasoline. Emissions were calculated for each of the constituents of gasoline listed in the Refinery Feedstock Material Safety Data Sheet (MSDS) provided by Kinder Morgan. The product was assumed to consist of the maximum concentrations of benzene, toluene and xylene. The calculations conservatively assume that the vapor space was saturated and the entire vapor space was released during the event.

Emissions were calculated using the Ideal Gas Law with an additional conservative factor of not accounting for the fact that some of the volatile organic constituents would have been consumed in the fire. From the MSDS, the partial pressure for each constituent was calculated. The volume of liquid in the tank and size of the tank were provided by CES. This information was used to determine the resulting vapor space. Calculated emissions were compared to reportable quantities (RQ) for each constituent. Because the RQ was not exceed for any constituent, the event was not a reportable emission event as defined by 30 TAC Chapter 101.1(87).

CES Environmental Services, Inc.
Emission Event - October 2, 2008
Product Constituents[1]

Constituents	MW (lb/lb mole)	Antoine Constants A	B	C	Density (lb/gal)	Conc. wt %	Liquid moles	Liquid mole frac	ANNUAL Avg. Part. press.	Min. Part. press.	Max. A Part. press.	vapor wt.	vapor wt. frac.	MAXIMUM HOURLY[2] Max. A Part. press.	vapor wt.	vapor wt. frac.	Density (lb/gal)
Bezene	78.1	6.9056	1211.033	220.79	7.365	5.00%	0.0006	0.057	0.095	0.078	0.115	1.515	0.023	0.119	1.605	0.0243	0.368
Toulene	92.142	6.9546	1344.8	219.48	7.27	25.00%	0.0027	0.240	0.119	0.095	0.148	2.238	0.034	0.153	2.438	0.0369	1.818
Xylene	106.168	6.99	1453.43	215.31	7.223	25.00%	0.0024	0.208	0.031	0.024	0.040	0.679	0.010	0.042	0.763	0.0115	1.806
Ethylbenzene	106.169	6.9572	1424.255	213.21	7.2648	3.72%	0.0004	0.031	0.005	0.004	0.006	0.110	0.002	0.007	0.123	0.0019	0.270
n-Hexane	86.17	6.8702	1168.72	224.21	5.5244	2.23%	0.0003	0.023	0.061	0.051	0.074	1.082	0.016	0.076	1.131	0.0171	0.123
Hexane (other isomers)	86.17	6.8702	1168.72	224.21	5.5244	6.32%	0.0007	0.065	0.174	0.144	0.209	3.067	0.047	0.216	3.204	0.0484	0.349
Pseudocumene	120.195	7.0438	1573.27	208.56	7.45	3.72%	0.0003	0.027	0.001	0.001	0.001	0.023	0.000	0.001	0.027	0.0004	0.277
Butane	58.124	6.809	935.86	238.73	4.869	6.70%	0.0012	0.102	3.373	2.949	3.840	40.098	0.609	3.931	39.407	0.5957	0.326
Pentane	72.1498	6.8763	1075.78	233.21	5.2454	3.72%	0.0005	0.046	0.419	0.357	0.490	6.188	0.094	0.504	6.270	0.0948	0.195
t-butyl Alcohol	74.123	9.658	2396.49	273.15	6.564	7.44%	0.0010	0.089	0.063	0.048	0.082	0.956	0.015	0.086	1.096	0.0166	0.488
MTBE	88.1492	5.896	708.69	179.9	6.209	11.16%	0.0013	0.112	0.548	0.462	0.644	9.872	0.150	0.664	10.087	0.1525	0.693
																	6.714
					6.714	100.0%	0.0113	1.000	4.889	4.213	5.649	65.830	1.000	5.798	66.152	1.0000	
					Product Density	Total	Total	Total	Pva (psia)	Pvn (psia)	Pvx (psia)	Mv (lb/lb-mol)	Total	Pvx (psia)	Mv (lb/lb-mol)	Total	

[1] Product constituents based on Refinery Feedstck MSDS provided by Kinder Morgan. Mixture is based on gasoline. Weight fractions are conservatively based on maximum concentrations for benzene, toluene and xylene.

[2] Maximum partial pressures based on maximum temperature on the day of the event (Source: National Weather Service).

EPAHO0820000568

CES Environmental Services, Inc.
Emission Event - October 2, 2008

Gallons of Product (based on shipping records provided by facility)

Product + Water	39,020	pounds (as received)
- Water	1,620	gallons water - removed
	13,608	pounds water (based on 8.4 lb/gal)
	25,412	**pounds of product**

(Product Density 6.714 lb/gal)
Therefore, gallons of product = 3,785 gallons

Tank capacity 6,766 gallons
Volume of vapor space **2,981 gallons** (Tank capacity - gallons of product after removal of water)

Emissions Calculations

Product (Total Emissions)

Molecular Weight (2) (lb/lb-mole)	**Vapor Pressure (2)** (psia)	**Equivalent Volume** (gallons)	**Emissions (lb)** (1)
66.152	5.798	2,981	26.14

(1) Emissions are calculated based as follows:

$E = Vv \times ((Mw \times Pv) / (R \times T))$

where:

E = Emissions (pounds)
Vv = Vapor space volume, ft^3
Mw = Molecular weight (lb/lbmole)
Vp = Vapor pressure (psia)
R = Gas constant (10.73 psia ft^/lbmole R)
T = Temperature - 548°R (based on maximum temperature day of the event)

(2) Source: calculated value from "Constituents" spreadsheet

Emissions per constituent

Constituent	**Vapor Weight Fraction** (2)	**Emissions (lb)** (3)	**Reportable Quantity (lb)** (4)
Benzene	0.0243	0.64	10
Toluene	0.0369	0.96	100
Xylene	0.0115	0.30	1000
Ethylbenzene	0.0019	0.05	1000
n-Hexane	0.0171	0.45	5000
Hexane (other isomers)	0.0484	1.27	5000
Pseudocumene	0.0004	0.01	100
Butane	0.5957	15.57	5000
Pentane	0.0948	2.48	5000
t-butyl Alcohol	0.0166	0.43	5000
MTBE	0.1525	3.99	1000

(2) Source: calculated value from "Constituents" spreadsheet

(3) Emissions are calculated based as follows:

E (pounds) = (Total emissions) x vapor weight fraction

(4) Reportable emissions event is any emissions event that in any 24-hour period, results in an unauthorized emission in excess of the reportable quantity (RQ) is as defined in 30 TAC Chapter 101.1(88).

CES LT-423

TO: CENTRAL TRANSPORT

BRENNER SERIAL #A2913-A2922

TANK THEORETICAL CALIBRATION

Radius = 32.4 in Length = 473.7 in
Diameter = 64.8 in Capacity = 6766 gal

INCH	- 0 -	1/4	1/2	3/4	INCH	- 0 -	1/4	1/2	3/4
0	0	3	8	14	33	3462	3495	3528	3561
1	22	31	40	51	34	3594	3628	3661	3694
2	62	74	86	99	35	3727	3760	3793	3826
3	113	127	142	157	36	3859	3892	3925	3958
4	173	189	206	223	37	3991	4024	4057	4090
5	241	258	277	295	38	4123	4155	4188	4220
6	315	334	354	374	39	4253	4286	4318	4350
7	394	415	436	458	40	4383	4415	4447	4479
8	479	501	524	546	41	4511	4543	4575	4607
9	569	592	616	639	42	4639	4671	4702	4734
0	663	687	712	736	43	4765	4797	4828	4859
11	761	786	811	837	44	4890	4921	4952	4983
12	863	888	915	941	45	5013	5044	5074	5105
13	967	994	1021	1048	46	5135	5165	5195	5225
14	1075	1103	1130	1158	47	5255	5284	5314	5343
15	1186	1214	1242	1271	48	5372	5401	5430	5459
16	1299	1328	1357	1386	49	5488	5516	5544	5573
17	1415	1444	1474	1504	50	5601	5628	5656	5684
18	1533	1563	1593	1623	51	5711	5738	5765	5792
19	1653	1684	1714	1744	52	5818	5845	5871	5897
20	1775	1806	1837	1868	53	5923	5948	5973	5999
21	1899	1930	1961	1992	54	6023	6048	6073	6097
22	2024	2055	2087	2119	55	6121	6144	6168	6191
23	2150	2182	2214	2246	56	6214	6237	6259	6281
24	2278	2310	2343	2375	57	6303	6324	6345	6366
25	2407	2439	2472	2504	58	6387	6407	6427	6447
26	2537	2570	2602	2635	59	6466	6485	6503	6521
27	2668	2700	2733	2766	60	6539	6556	6573	6589
28	2799	2832	2865	2898	61	6605	6620	6635	6650
29	2931	2964	2997	3030	62	6663	6677	6689	6701
30	3063	3096	3130	3163	63	6713	6723	6733	6742
31	3196	3229	3262	3296	64	6750	6757	6762	6766
32	3329	3362	3395	3428	0	0	0	0	0

THEORETICAL CALIBRATION IS NOT INTENDED FOR LEGAL MEASUREMENT OF PRODUCT VOLUMES!

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THERM~A~COR
CONSULTING, INC

04 February 2009

Mr. Clark Hickman
CES Environmental Services Inc.
4904 Griggs Road
Houston, TX 77021

REF: RTO Evaluation
06 December 2008

Dear Mr. Hickman;

Attached please find my opinion as to the cause of the detonation within the RTO and the adjacent piping.

Please contact me if you have any questions.

Sincerely,
Therm-A-Cor Consulting

Donald L Corwin PE
Principal

418 Pawlings Road
Phoenixville, PA 19460

(V) 610-935-8493
(F) 610-935-5467
(C) 610-517-8373

EPAHO082000572

RTO Detonation Evaluation
CES Environmental Houston Facility

Summary
The regenerative thermal oxidizer (RTO) and a portion of fume collection piping at the CES Environmental facility 4904 Griggs Road, Houston, Texas experienced an over pressure event on 06 December 2008. A site visit was performed on 07 December 2008, to define the root causes of the detonation. Recommendations on the path forward to prevent future events were to be developed as part of the review.

Fumes were collected from centrifuge room and a tank farm. These fumes were then processed in an RTO prior to discharge to the atmosphere. On 06 December 2008, organic materials entered the fume collection system from a tank at a high rate. The RTO high temperature switch shut down the system. During the restart procedure the fumes mixed with ambient air at and in the RTO. The resulting fume laden air stream mixture exceeded the LEL. The RTO became the ignition source for the fumes. A detonation occurred in the RTO and adjacent fume piping.

With the oxidizer in a shut down state, a no flow condition existed in the fume collection system. The organic fumes continued to build in the vent piping during this no flow period. At restart, the introduction of these fumes into the RTO without a controlled purge of the fume line resulted in a fuel rich mixture. The detonation resulted when the RTO ignited the fumes in the fume line.

The design of the RTO control system and the fume collection system are to be modified to eliminate this condition. Operator training will be expanded to incorporate all potential methods of generating high LEL conditions in the fume collection system. All design and modifications will be under the direction of a Texas PE.

System Review
The fume abatement system at the CES Environmental Houston plant consisted of a fume vent collection system and an RTO. The fume vent system collected fumes from the centrifuge room and a tank farm. All fumes were then processed in the RTO to destroy the organic material collected from the various sources.

The fume piping system started in the centrifuge room. The piping was maintained at a negative pressure to capture fumes. Air laden with organic fumes was collected at several locations in the centrifuge room to control odors. The centrifuge room air contained very low concentrations of organic compounds that were emitted from the centrifuge system. Some dust was also collected.

The fume piping then winds through the tank farm before terminating at the RTO induced draft (ID) fan. The tanks within the tank farm were vented into the fume line. The fume line then passed through the water and carbon scrubber canisters. A scrubber ID fan was located at the end of the canister system provided additional suction fume collection system. The outlet of

EPAHO082000573

the scrubber ID fan was directed to the inlet of the RTO ID fan. The fumes were then forced through the RTO by the RTO ID fan.

At the inlet to the RTO ID fan were a fume block valve and an atmospheric intake damper. The atmospheric intake damper is open to supply ambient air to purge the RTO, to start up the RTO and to provide air to heat the RTO beds during the ceramic bed warm up period. It was not a tight shut off damper. Air was allowed to enter the system through this damper when closed. When the RTO ceramic bed reaches the appropriate temperature, the atmospheric intake valve closes and the fume block valve opens. At this stage of the sequence, fumes are allowed to be fed to the RTO.

RTO Operation

The RTO is a high energy efficient device to handle large volumes of air contaminated with some organic material. The RTO consists of two ceramic filled beds and a burner. The fume enters one of the beds and is heated by the bed. The fumes pass by a burner that raises the gas to the desired temperature for destruction of the organic material. The gas then passes through the second ceramic bed to cool the gas stream. The beds cycle between heating and cooling the air by changing the direction of the air flow. Inlet and outlet duct work, with control valves direct the air through the appropriate bed on a timed cycle. RTOs are reliable stable oxidizers.

Because the RTO has a high energy efficiency, the amount of organic material entering the RTO must be limited to approximately 12 to 15% of the lower explosive limit (LEL). The LEL is a measure of the amount of energy in the fume stream. All burners, furnaces, wood fires and other combustion system operated at organic levels at a condition greater than 100% of the LEL. Items cannot continue to burn if the organic content is below 100% of the LEL.

When the organic concentration exceeds this LEL range, the energy recovered by the RTO when added to the new energy of the fume stream, will raise the RTO temperature above the desired level. All RTOs have a high temperature safety shut down switch to shut down RTO operation if the RTO temperature is too high. The actual LEL value at which a high temperature event may occur is a function of the packing structure, the organic material being processed, the local temperatures and humidity and other parameters.

The CES environmental RTO had an additional temperature switch set at a temperature below the safety switch temperature. At this slightly lower temperature, the RTO enters a "self sustain" mode where the burner firing is terminated. No natural gas is added to the system to maintain the temperature in the RTO. This allows the RTO to continue operating under a safe condition without the added energy of the natural gas burner. This self sustain mode temperature is well above the auto ignition temperature of all materials. Thus a stable condition exists within the RTO.

Event Sequence

EPAHO082000574

RTO Detonation Evaluation
CES Environmental Houston Facility

The RTO experienced a high temperature safety switch shut down on Saturday 06 December 2008. This shutdown terminated the RTO burner, ID fan and the scrubber fan. This condition, as stated above, is indicative of high organic concentrations in the fume line. The site investigation found that a tank containing some organic material in water was being heated. This heated tank forced organic material into the fume collection system when there was no flow. The organic material mixed with air at the inlet to the RTO and was processed by the RTO. The increased quantity of organic fumes caused the high temperature switch to shut down the RTO.

The operator restarted the RTO after clearing the safety switch. The RTO then went through the pre-programmed purge cycle. After the purge sequence, the RTO was restarted. It automatically increased the bed temperature to the operational set point temperature. At this temperature, the RTO PLC program allowed fume admission. The operator then restarted the scrubber fan. The RTO ID fan closed the atmospheric valve and opened the fume vent valve. All flow is now through the fume collection system. Some air inleakage is through the atmospheric damper. This is a typical design for many RTO systems.

The operator increased the scrubber fan to the high flow condition. This provided additional suction to the vent line and moved more of the organic fumes quickly into the RTO. Shortly after setting the scrubber ID fan to the high flow condition, the detonation occurred in the RTO, RTO ID fan, the ducting between the RTO and the scrubber fan and the scrubber fan. There was no evidence of overpressure in the empty scrubber knockout chamber. This chamber is located on the scrubber fan inlet.

The fume line contained high concentrations of organic material when the RTO shut down. The organic material continued to enter the fume line while the fume line was not being evacuated by the RTO. The operator was not aware that the tank was being heated and therefore was putting organic fumes into the vent line. When the RTO was restarted, the air from the ambient air valve mixed with the high organic concentrations in the fume line. The local organic concentration in the fume line at the ID fan and in the RTO exceeded the LEL. The RTO was the source of ignition that started the reaction resulting in the detonation of the line between the RTO and the scrubber fan.

Recommendations

The following recommendations are made to minimize the potential of a deflagration in the RTO or the attendant fume piping. Prior to the restart of the fume collection system and the RTO, a Texas PE will certify that all applicable sections of NFPA Code 86 (2007) and the International Fire Code (2000) will be met. The Texas PE will supervise the checkout of the system prior to start up and then restart the unit verifying that all of the applicable requirements if the NFPA code are fully met. Documentation will be supplied as requested by the Houston Fire Department with a Texas PE stamp. Detailed discussions will be held with the Houston City Fire Department on any subject relevant to the safe operation of the vent collection line and the RTO.

EPAHO082000575

RTO Detonation Evaluation

CES Environmental Houston Facility

1. The RTO and fume collection systems controls will be revised to perform appropriate control actions prior to reaching an unsafe condition. The design and operation will be in accordance to the applicable NFPA standards.

2. If a safety shutdown of the system occurs, the operator with supervisor overview, will be required to find the safety shut down and apply the appropriate corrective actions before restarting the system. Each safety shut down will be documented by the supervisor.

3. Operator training on all aspects of the fume collection and RTO operations will be undertaken prior to the restart of the unit.

4. The tank farm vent line will have an automatic isolation valve and a flame arrester. Controls in the PLC will automatically modulate the vent flow rate to assure the safe purging and operation of the system under all potential operational conditions.

5. All design and operational parameters will be fully documented. This information will be maintained in the Engineering Managers office.

6. The materials handled in the tank farm, the venting of the tanks and the purging of the tanks will be reviewed. The tank farm fume generation characteristics will be incorporated into the tank farm vent collection system design.

7. A restart plan will be provided to the Houston Fire Marshall prior to the restarting of the fume collection system. All safeties and other operational controls of the oxidizer will be validated and certified operational by a Texas PE before the restart. No fumes will be processed by the fume treatment system prior to authorization to proceed based on the restart plan. This plan will be provided to the Fire Marshall prior to restart.

Donald L Corwin 04-Feb-09
65796

EPAHO082000576

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CES Environmental Services, Inc.

INCIDENT REPORT

Near Miss XXX **Accident**

Date of Incident 12-16-08 Time ~ 1:28 p. m.

Result of Incident: Equipment/Property Damage

1) ☐ Fire 2) ☐ Explosion 3) Equipment Damage XXX 4) Property Damage
5) ☐ Product Loss 6) Production Loss 7) XXX Employee Endangerment
8) ☐ Other _____

Person(s) Directly Involved

Name: Scott Shimer, Jorge Martinez

Exact Location Where Incident Occurred: Hydrocarbon Processing

Describe Fully How Incident Occurred:

Our preliminary investigation at this point, leads us to believe there was a pressure release from the middle compartment of the scrubber. The VaporTech scrubber is designed with two chemical scrubbing chambers for chemical odor removal and a carbon box as a final polisher.

The unit scrubs vapor chemically (not through combustion). Apparently, there was a flash in the 4' X 3' middle chemical scrubbing chamber which caused a rapid expansion of air which exited out the side of the scrubber chamber and blew some activated carbon dust into the air. CES Environmental Services, Inc. has operated these scrubbers for ~ 18 months and we never had any issues with their operation. There were no injuries associated with this incident and equipment damage will not exceed $100,000.

We have not yet determined what caused the flash in the second chamber. We are investigating several possible causes. Investigative steps include but are not limited to;

- Understanding what actually flashed since the centrifuge is down and there were no active processes working at the time of the event. The unit was properly locked-out.
- Whether or not this was a chemical reaction and
- We have confirmed the unit was grounded properly and
- We do not believe static electricity was a contributing cause.
- It may be possible an ember from welding/cutting work in the area have been a contributing factor.
- Whether the event was an internal or externally generated source of a spark.

Activity in the Process Area

A CES maintenance crew was performing repair/maintenance on the Thermal Oxidizer. This repair work involved some cutting/welding on the thermal oxidizer for straightening of the wall plates.

What Unsafe Acts/Conditions Lead to Incident:

Understanding what caused the event is CES's top priority. Since we cannot be 100% sure what chemical exactly that had been in the middle scrubber chamber, we can only assume that it was latent MEK vapor from the wastewater incident with the RTO. This incident report documents the incident and will serve as record that since this vessel was only 200 gallons in size and that the previous incident with the RTO involved a much larger vessel and quantity (for which we have already run the calculations and determined it not to be a reportable quantity release) then this incident cannot represent a reportable quantity.

Recommendations to Prevent Reoccurrence: The incident remains under investigation at this time. We are having a forensics person out to investigate the scrubber incident.

- Damage estimates: <~$10,000 for VaporTech Scrubber repair and additional associated piping and instrument costs.

Prepared by: Karl A. Guidry Title: CES Environmental EHS Manager

Approved by: Matt Bowman Title: CES Environmental Services, President

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STEVENS
BALDO
FREEMAN
LIGHTY
A LIMITED LIABILITY PARTNERSHIP
ATTORNEYS AT LAW

DONALD FRANCIS LIGHTY
PARTNER
Board Certified Personal Injury Trial Law
and Workers' Compensation Law
Texas Board Of Legal Specialization
Board Certified Civil Trial Advocacy
National Board Of Trial Advocacy
550 Fannin Street, Suite 700
Beaumont, Texas 77701
(409) 835-5200
fax (409) 838-5638
lighty@sbf-law.com

June 12, 2009

RE: Port Arthur Chemical and Environmental Services, Inc. LLC ("PACES")
and autopsy of (b) (6) - DOD: 12-18-08 and (b) (6) - DOD: 4-19-09
SBF&L File No.: 111723

Honorable Tom Gillam , III
Justice of the Peace, Precinct 8, Place 1
Jefferson County
525 Lakeshore Drive
Port Arthur, TX 77640

VIA HAND-DELIVERY

Dear Judge Gillam:

By way of introduction I am an attorney retained to by Port Arthur Chemical and Environmental Services, Inc. LLC because of their concerns with Dr. Brown's autopsy report of April 17, 2009 concerning his investigation of the (b) (6) death as well as the pending autopsy of (b) (6).

My client feels that there are numerous mistakes in the autopsy report, both in the background facts as well as the interpretation of laboratory results. Obviously, such mistakes can greatly affect the final analysis and opinions of an autopsy and would ask that you view the attached information, provide it to Dr. Brown and determine whether he will change his opinions in this matter.

Attached to these documents are two incident reports concerning the events surrounding the deaths of (b) (6) The information in these documents is detailed and provides facts that contradict many of the assertions relied upon by Dr. Brown. It is unknown where Dr. Brown obtained his information, but the inaccuracies may have affected his final opinion.

The (b) (6) Autopsy Report indicates that he was knocked down and lost his life due to hydrogen sulfide poisoning. Accepted technical standards state that the hydrogen sulfide concentrations required to knockdown a person must be in the range of 700 to 1000 ppm. As the

investigation materials contained in this letter indicate, (b) (6) was not alone on the trailer, and his fellow co-worker's personal hydrogen sulfide alarm, which was set to signal at 10 ppm, never activated. The results of the (b) (6) autopsy findings do not explain how a co-worker, within two feet of (b) (6), felt no ill effects from hydrogen sulfide.

Both the April 17, 2009 autopsy report and March 25, 2009 NMS Labs Report indicate that the site operator was boiling wastewater in a sealed tank (trailer). This information is wholly inaccurate. There was no steam heat available at the site, and no other source of heat was being used. In addition, the material in the truck was oil, not wastewater. Both reports omitted OSHA and PAFD testing that showed that there was no hydrogen sulfide in (b) (6) clothes. Additionally, both reports omitted OSHA data showing analysis of the gas head space over the oil sample from the trailer which reported no hydrogen sulfide. This information is contained in the documents provided. Further, both reports erroneously state that the dome lid was opened by (b) (6). Investigation has indicated that he had only just begun this process, and that the dome lid was not opened.

It is my understanding that Ms. Susan Jones, with the Southeast Texas Forensic Center, had previously stated that the sulfhemoglobin in the blood test identified on the NMS Labs Report issued January 20, 2009 had results below the testing limits and that the Toxicology Report can be revised to clarify this fact. This biological marker used to indicate hydrogen sulfide exposure reflected no exposure with the low results below testing limits.

In addition the (b) (6) Autopsy Report failed to acknowledge that the January 20, 2009 NMS Labs Report showed that the thiosulfate levels in (b) (6) urine were normal. This is another biological marker for hydrogen sulfide exposure, and it is also reflected no excessive exposure.

The NMS Labs Report of March 25, 2009 did not acknowledge the results of the sulfhemoglobin blood test or thiosulfate level in the urine report of January 20, 2009. The March 25, 2009 NMS Labs Report based its findings of hydrogen sulfide poisoning on one thiosulfate test in a blood sample that was 2.5 months old, or 1.5 months beyond the NMS Labs sample stability limit. The NMS Labs published stability limit is one month. There has been no explanation of why NMS Labs did not follow their own testing protocol.

We ask that Dr. Brown review the two biological markers (negative sulfhemoglobin levels in the blood and normal thiosulfate in the urine), the nearby hydrogen sulfide monitor alarm information, the investigation materials that a worker in close proximity was not harmed by hydrogen sulfide, and review the facts surrounding the accident to determine whether he would change his opinions. We further ask that Dr. Brown determine whether the one data point of thiosulfate in the blood was based on a test that violated the laboratory's own testing protocols. We feel that this information, if provided to Dr. Brown, would alter his opinions as to the cause of (b) (6) death.

Additionally, we have attached information regarding (b) (6) death, which shows no exposure to hydrogen sulfide, and the fact that (b) (6) was not performing any work-related activity at the time he died. Although (b) (6) autopsy results are still pending, we feel that Dr. Brown, or whomever performs the autopsy, would appreciate this information.

If you have any questions concerning this letter, please do not hesitate to call.

Sincerely,

DONALD FRANCIS LIGHTY

DFL/rlw
Enclosures

bcc: Mr. Matt Bowman, President
CES Environmental Services, Inc.
4904 Griggs Road
Houston, Texas 77021
(w/out enclosures)

Via Email: mbowman@cesenvironmental.com

Mr. Clark Hickman
CES Environmental Services, Inc.
4904 Griggs Road
Houston, Texas 77021
(w/out enclosures)

Via Email: chickman@cesenvironmental.com

Incident Report

of

(b) (6) [redacted]

December 18, 2008

Port Arthur Chemical and Environmental Services, LLC ("PACES")
2420 South Gulfway
Port Arthur, TX 77640
713-676-1460

Incident Report of (b) (6) [redacted]
December 18, 2008

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[redacted] Incident Report
December 18, 2008

Pre- Incident

Several days before December 17, 2008 Trailer 267 was loaded with oil from an emulsion breaking process at the PACES site 2420 South Gulfway, Port Arthur, TX.

On December 17, 2008, Brian Weathers sampled Trailer 267, removing a sample of the oil from inside the trailer (See Attachment 1).

Incident

On December 18, 2008, at 2:00 p.m., Suzi Mock and [redacted] went to Trailer 267 to resample the oil in the trailer. Ms. Mock climbed to the top of Trailer 267 first. Mr. [redacted] started up the ladder after and behind Ms. Mock. As Mr. [redacted] reached the top of the latter he collapsed. Ms. Mock grabbed Mr. [redacted] so he would not fall from the Trailer 267. Ms. Mock pulled Mr. [redacted] to the top of the Trailer 267. Mr. [redacted] and Ms. Mock did not open the dome lid nor did she or Mr. [redacted] obtain a sample at this time. This was at 2:00 p.m., Thursday, December 18, 2008. According to Mr. Wood, Mr. [redacted] collapsed on top of the dome lid before it was open. In addition, Mr. Wood did not suffer from hydrogen sulfide (H2S) exposure (See Attachment 13).

Ms. Mock called for help and at 2:10 p.m. (12/18/08) the Port Arthur Fire Department was notified (See Attachment 2). Within a few minutes of 2:00pm (12/18/08) Mr. Wood went to Ms. Mock to assist her with Mr. [redacted]. Mr. Wood also assisted Ms. Mock to turn Mr. [redacted] over, still on top of the Trailer 267.

At 2:20 p.m. (12/18/08) the Port Arthur Fire Department arrived and by 2:35 p.m., Mr. [redacted] was removed from the top of the Trailer 267 by the Port Arthur Fire Department (See Attachment 2).

Ms. Mock did not experience any illness from any hydrogen sulfide release when she was with Mr. [redacted] on top of the Trailer 267. Ms. Mock's personal hydrogen sulfide monitor did not trigger when she was on top of the Trailer 267. Ms. Mock's monitor was set to alarm at 10 ppm hydrogen sulfide. Mr. Wood did not experience any illness from hydrogen sulfide while assisting Mr. [redacted]

The Port Arthur Fire Department placed Mr. [redacted] clothes and the Port Arthur Fire Department hydrogen sulfide meter in a bag. The Port Arthur Fire Department measured a reading of -0- hydrogen sulfide. The Port Arthur Fire Department returned to the top of Trailer 267 two hours after Mr. [redacted] was removed and measured only 1 ppm hydrogen sulfide (See Attachment 2).

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Post Incident

OSHA tested Mr. (b) (6) clothes for hydrogen sulfide and did not find any hydrogen sulfide (See Attachment 3). OSHA tested the head space over an oil sample from Trailer 267 and did not find any hydrogen sulfide (See Attachment 4).

Hydrogen sulfide technical information sources state that it takes 700 to 1000 ppm of hydrogen sulfide to knockdown an individual with hydrogen sulfide. In addition, when a group of people are together near a hydrogen sulfide release all persons suffer health problems (See Attachment 5).

OSHA measured organic sulfur compounds in the oil which exhibits a smell similar to hydrogen sulfide, but the organic sulfur compounds are liquid at ambient temperatures and not a toxic gas.

In addition, the oil in Trailer 267 was not heated prior to the December 18, 2008 incident, since no steam was available and the trailer had been loaded prior to December 17, 2008 without any modifications of the oil for two days (See Attachment 6).

In summary, pre-incident information and post incident information does not support the concept that hydrogen sulfide was released from a trailer during a short time of a few minutes at such level of 700 to 1000 ppm to cause one of two people side-by-side to collapse and die in minutes while the second person is holding on to the dying person without having her personal hydrogen sulfide alarm activate (See Attachment 7).

In addition, a third person climbed to the top of Trailer 267 to assist the two already on trailer without getting sick from hydrogen sulfide. Also, the Port Arthur Fire Department representative did not note any problems with anyone other than Mr. (b) (6) Remember, Trailer 267 was sampled the day before with out any problems.

(b) (6) Autopsy Comments

The autopsy based its conclusions on a lab report from NMS Labs dated March 25, 2009. This NMS Labs Report based its conclusion on one test of one blood sample which was received on March 5, 2009 by NMS Labs, when the death occurred on December 18, 2008. This delay in testing appears to have violated acceptable protocols. NMS Labs states in their on-line test catalog information that the blood sample is only stable for one month. Lab Corp states in their thiosulfates in blood testing instructions that sample stability is for one month, if frozen and only 9 days refrigerated (See Attachment 8).

The NMS Labs Report did not state that Mr. (b) (6) died from hydrogen sulfide poisoning. The report stated that the measured value of thiosulfate in the blood sample was similar to values found in four other situations where people were believed to have died from hydrogen sulfide. However, the thiosulfate value of 43% of the cases were above 11 mcg/ml (value measured in Mr. (b) (6) blood) and 43% were below the 11

EPAHO082000588

mcg/ml value. The NMS Labs Report did not speak to another NMS Labs analysis report on urine from Mr. (b) (6) received January 15, 2009 (See Attachment 8). This report stated that thiosulfate in urine was normal. Technical information states that thiosulfate in urine is just as valid as thiosulfate in blood for measuring hydrogen sulfide exposure.

Both the NMS Labs Report of March 25, 2009 and the T. Brown Autopsy Report of April 17, 2009 omitted the sulfhemoglobin in blood data identified in the NMS Labs Report of January 20, 2009. Susan Jones at Southeast Texas Forensic Center (Jefferson County Morgue) stated that the sulfhemoglobin measured levels were below testing limits. As a biological marker the test data reflects no exposure to hydrogen sulfide.

Both the NMS Labs Report of March 25, 2009 and the Mr. (b) (6) Autopsy had many facts wrong. For example, both stated that the site operator (PACES) was boiling water in a closed dome tank (trailer) to drive off hydrogen sulfide. Remember, this material is oil in a tanker which is not heated, since no steam was available. Also, the thiosulfate analysis of the blood did not follow correct procedures, where the thiosulfate test in the urine did follow correct lab procedures.

The (b) (6) Autopsy Report did show that Mr. (b) (6) was over weight to the point of being obese and a smoker. Mr. (b) (6) blood pressure values of August 2008 were 136/90 (See Attachment 11). These numbers reach the level of Stage 1 Hypertension. Technical data states that hypertension can result in hardening of the arteries, enlarged heart, and other health issues. The T. Brown Autopsy Report (04/17/09), states that Mr. (b) (6) had cardiomegaly (an enlarged heart), and hardening of the arteries. The risk and complications from an enlarged heart are heart failure, blood clots, cardiac arrest, and sudden death. Earlier on December 18, 2009, there had been discussions by Mr. (b) (6) with others that he was feeling ill.

Summary

Hydrogen sulfide poisoning could have not been the mechanism that caused the death of (b) (6), since the exposure level (700 to 1000 ppm) required to knockdown and kill quickly would have affected companions, triggered alarms, showed up in clothes, and introduced odors over a wide area, since the odor threshold of hydrogen sulfide is 0.005 ppm. The autopsy conclusion is based on one lab result that uses one blood sample that is beyond sample stability limits. The other lab results that do not indicate hydrogen sulfide poisoning are ignored by the autopsy writer.

In addition, low levels of hydrogen sulfide over long periods of time would not have been a factor in the death since recent and past results show no adverse impacts from low levels of hydrogen sulfide. Most recent data shows that low levels of hydrogen sulfide lowers blood pressure (See Attachment 10).

However, Mr. (b) (6) had weight and blood pressure issues that were significant and indicators of personal health issues.

Attachment

1

General Affidavit

STATE OF TEXAS

COUNTY OF Jefferson

BEFORE ME, the undersigned Notary, Patricia Grace Kruger, on this 3 day of March, 2009, personally appeared Brian Weathers known to me to be a credible person and of lawful age, who being by me duly sworn, on his oath, deposes and says:

My name is Brian Weathers. I am over 21 years of age. I was the Supervisor on December 17, 2008 and on December 18, 2008 at the Port Arthur Chemical and Environmental Services, LLC ("PACES") plant site at the time Joey Sutter passed away. I have personal knowledge and experience with the PACES' personal H_2S Monitoring Equipment and Sampling of Trailers. During of December 17, 2008 my H_2S alarm at PACES did not sound an alarm warning when I obtained a sample from Trailer 267. H_2S Monitor was set at 10 ppm H_2S to alarm on December 17, 2008 when I sampled the Trailer 267.

Brian Weathers
(Signature of Affiant)

Brian Weathers
(Printed Name of Affiant)

7803 Twelfth Fairway Humble TX 77346
(Address of Affiant, Line 1)

(Address of Affiant, Line 2)

STATE OF TEXAS

COUNTY OF Jefferson

Sworn to and subscribed before me on this 3 day of March, 2009, by _____.

SEAL

Patricia Grace Kruger
Notary Public
State of Texas
My Commission Expires
May 29, 2010

Patricia Grace Kruger
(Notary Public Signature)

Attachment

2

A | FDID * NH715 | State * TX | Incident Date * MM 12 DD 18 YYYY 2008 | Station 2 | Incident Number * 08-0012882 | Exposure * 000 | ☐ Delete ☐ Change ☐ No Activity | NFIRS -1 Basic

B Location*

☐ Check this box to Indicate that the address for this incident is provided on the Wildland Fire Module In Section B "Alternative Location Specification". Use only for Wildland fires.

Census Tract ____ - ____

☒ Street address
☐ Intersection
☐ In front of
☐ Rear of
☐ Adjacent to
☐ Directions

Number/Milepost: 2420 | Prefix: S | Street or Highway: Gulfway | Street Type: DR | Suffix: ____

Apt./Suite/Room: ____ | City: PORT ARTHUR | State: TX | Zip Code: 77640 - ____

Cross street or directions, as applicable: ____

C Incident Type *

321 | EMS call, excluding vehicle

Incident Type

D Aid Given or Received*

1 ☐ Mutual aid received
2 ☐ Automatic aid recv.
3 ☐ Mutual aid given
4 ☐ Automatic aid given
5 ☐ Other aid given
N ☒ None

Their FDID: ____ | Their State: ____

Their Incident Number: ____

E1 Date & Times

Midnight is 0000

Check boxes if dates are the same as Alarm Date.

	Month	Day	Year	Hr Min Sec
ALARM always required: Alarm *	12	18	2008	14:10:33
ARRIVAL required, unless canceled or did not arrive: ☒ Arrival *	12	18	2008	14:19:20
CONTROLLED Optional, Except for wildland fires: ☐ Controlled				
LAST UNIT CLEARED, required except for wildland fires: ☒ Last Unit Cleared	12	18	2008	16:45:03

E2 Shift & Alarms

Local Option

Shift or Platoon: B | Alarms: 01 | District: 2

E3 Special Studies

Local Option

Special Study ID#: ____ | Special Study Value: ____

F Actions Taken *

Primary Action Taken (1): 23 Extricate, disentangle

Additional Action Taken (2): 33 Provide advanced life

Additional Action Taken (3): ____

G1 Resources *

☒ Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	0002	0006
EMS	0001	
Other		

☐ Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

		None
Property $ ____ , 000 , 000		☐
Contents $ ____ , 000 , 000		☐

PRE-INCIDENT VALUE: Optional

Property $ ____ , 000 , 000	☐
Contents $ ____ , 000 , 000	☐

Completed Modules

☐ Fire-2
☐ Structure-3
☐ Civil Fire Cas.-4
☐ Fire Serv. Cas.-5
☐ EMS-6
☐ HazMat-7
☐ Wildland Fire-8
☒ Apparatus-9
☒ Personnel-10
☐ Arson-11

H1 * Casualties ☐ None

	Deaths	Injuries
Fire Service		
Civilian		

H2 Detector

Required for Confined Fires.

1 ☐ Detector alerted occupants
2 ☐ Detector did not alert them
U ☐ Unknown

H3 Hazardous Materials Release

N ☐ None
1 ☐ Natural Gas: slow leak, no evacuation or HazMat actions
2 ☐ Propane gas: <21 lb. tank (as in home BBQ grill)
3 ☐ Gasoline: vehicle fuel tank or portable container
4 ☐ Kerosene: fuel burning equipment or portable storage
5 ☐ Diesel fuel/fuel oil: vehicle fuel tank or portable
6 ☐ Household solvents: home/office spill, cleanup only
7 ☐ Motor oil: from engine or portable container
8 ☐ Paint: from paint cans totaling < 55 gallons
0 ☐ Other: Special HazMat actions required or spill > 55gal.. Please complete the HazMat form

I Mixed Use Property

NN ☐ Not Mixed
10 ☐ Assembly use
20 ☐ Education use
33 ☐ Medical use
40 ☐ Residential use
51 ☐ Row of stores
53 ☐ Enclosed mall
58 ☐ Bus. & Residential
59 ☐ Office use
60 ☐ Industrial use
63 ☐ Military use
65 ☐ Farm use
00 ☐ Other mixed use

J Property Use* Structures

131 ☐ Church, place of worship
161 ☐ Restaurant or cafeteria
162 ☐ Bar/Tavern or nightclub
213 ☐ Elementary school or kindergarten
215 ☐ High school or junior high
241 ☐ College, adult education
311 ☐ Care facility for the aged
331 ☐ Hospital
341 ☐ Clinic,clinic type infirmary
342 ☐ Doctor/dentist office
361 ☐ Prison or jail, not juvenile
419 ☐ 1-or 2-family dwelling
429 ☐ Multi-family dwelling
439 ☐ Rooming/boarding house
449 ☐ Commercial hotel or motel
459 ☐ Residential, board and care
464 ☐ Dormitory/barracks
519 ☐ Food and beverage sales
539 ☐ Household goods,sales,repairs
579 ☐ Motor vehicle/boat sales/repair
571 ☐ Gas or service station
599 ☐ Business office
615 ☐ Electric generating plant
629 ☐ Laboratory/science lab
700 ☐ Manufacturing plant
819 ☐ Livestock/poultry storage(barn)
882 ☐ Non-residential parking garage
891 ☒ Warehouse

Outside

124 ☐ Playground or park
655 ☐ Crops or orchard
669 ☐ Forest (timberland)
807 ☐ Outdoor storage area
91 ☐ Dump or sanitary landfill
93 ☐ Open land or field
936 ☐ Vacant lot
938 ☐ Graded/care for plot of land
946 ☐ Lake, river, stream
951 ☐ Railroad right of way
960 ☐ Other street
961 ☐ Highway/divided highway
962 ☐ Residential street/driveway
981 ☐ Construction site
984 ☐ Industrial plant yard

Lookup and enter a Property Use code only if you have NOT checked a Property Use box:

Property Use: 891

Warehouse

NFIRS-1 Revision 03/11/99

EPAHO082000593

K1 Person/Entity Involved (Local Option)

Business name (if applicable): ECA Environmental Services
Area Code: 409 Phone Number: 293-6854

[X] Check This Box if same address as incident location. Then skip the three duplicate address lines.

Mr.,Ms., Mrs. First Name: (b) (6) MI: Last Name: Suffix:
Number: 2420 Prefix: S Street or Highway: Gulfway Street Type: DR Suffix:
Post Office Box: Apt./Suite/Room: City: PORT ARTHUR
State: TX Zip Code: 77640-

[ ] More people involved? Check this box and attach Supplemental Forms (NFIRS-1S) as necessary

K2 Owner (Local Option)

[ ] Same as person involved? Then check this box and skip The rest of this section.

Business name (if Applicable): Area Code: Phone Number:

[ ] Check this box if same address as incident location. Then skip the three duplicate address lines.

Mr.,Ms., Mrs. First Name: MI: Last Name: Suffix:
Number: Prefix: Street or Highway: Street Type: Suffix:
Post Office Box: Apt./Suite/Room: City:
State: Zip Code:

L Remarks (Local Option)

<<Logs>> 14:11:03 00005150 : sc enrte ; 14:14:36 00005062 : PER 5014 CALL BACK ADVISED FULL ARREST/E2 EMS ADVISED ; 14:19:30 00005062 : E2 1410 1419 ; 14:19:54 00005062 : RETONE ; 14:20:17 00005062 : W2 REQUEST R1 ASSIST ; 14:21:44 00005062 : TURN AT TALON'S/ENVIRONMENTAL//RD BEFORE IC BRIDGE ST COM ON RIGHT DOWN DIRT RD ; 14:28:08 00005145 : **e2-heavy set man ontop of the tanker** ; 14:30:06 00005145 : **bringing him down now** ; 14:33:23 00005145 : hr1 has a firefighter riding with ems to hospital enroute to pick him up / st mary ; 14:45:56 00005145 : e2 to st marys to give information ; 14:56:51 00005145 : e2 st mary ; 15:03:45 00005145 : told unit 3 to call the chief the hospital is treating this as a hazmat incident ; 15:19:40 00005145 : e2 leaving st mary going back to scene ; 15:31:04 00005145 : hr1 toned out of service ; 15:32:18 00005145 : e2 back on the csene ; 16:04:51 00005145 : msds is non toxic ; 16:07:20 00005145 : e2 back in service going to station ; 16:14:27 00005145 : ernout to st mary hospital ; 16:23:31 00005145 : at st mary again ; 16:45:03 00005145 : Incident Closed ;

On 12/18/2008 at 14:10:33 dispatched To 2420 S Gulfway DR /PORT ARTHUR, TX 77640. The location is a Warehouse. The incident was determined to be a(n) EMS call, excluding vehicle accident with injury.

14:19:20 arrived on scene.
The following actions were performed on scene:
Extricate, disentangle
Provide advanced life support (ALS)

Units responding were:
Unit E2 responded.

Authorization

Officer in Charge ID	Signature	Position or rank	Assignment	Month	Day	Year
29450	PEAKE, THOMAS W	CA		12	18	2008

Check if [X] same as Officer in Charge

Member making report ID	Signature	Position or rank	Assignment	Month	Day	Year
29450	PEAKE, THOMAS W	CA		12	18	2008

EPAHO082000594

FDID *	State *	MM Incident Date *	DD Incident Date *	YYYY Incident Date *	Station	Incident Number *	Exposure *	Complete Narrative
NH715	TX	12	18	2008	2	08-0012882	000	

Narrative:

<<Logs>> 14:11:03 00005150 : sc enrte ; 14:14:36 00005062 : PER 5014 CALL BACK ADVISED FULI ARREST/E2 EMS ADVISED ; 14:19:30 00005062 : E2 1410 1419 ; 14:19:54 00005062 : RETONE ; 14:20:17 00005062 : W2 REQUEST R1 ASSIST ; 14:21:44 00005062 : TURN AT TALON'S/ENVIRONMENTAL//RD BEFORE IC BRIDGE ST COM ON RIGHT DOWN DIRT RD ; 14:28:08 00005145 : e2-heavy set man ontop of the tanker ; 14:30:06 00005145 : bringing him down now ; 14:33:23 00005145 : hr1 has a firefighter riding with ems to hospital enroute to pick him up ////st mary ; 14:45:56 00005145 : e2 to st marys to give information ; 14:56:51 00005145 : e2 at st mary ; 15:03:45 00005145 : told unit 3 to call the chief the hospital is treating this as a hazmat incident ; 15:19:40 00005145 : e2 leaving st mary going back to scene ; 15:31:04 00005145 : hr1 toned out of service ; 15:32:18 00005145 : e2 back on the csene ; 16:04:51 00005145 : msds is non toxic ; 16:07:20 00005145 : e2 back in service going to station ; 16:14:27 00005145 : ernout to st mary hospital ; 16:23:31 00005145 : at st mary again ; 16:45:03 00005145 : Incident Closed ;

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14:19:20 arrived on scene.
The following actions were performed on scene:
Extricate, disentangle
Provide advanced life support (ALS)

Units responding were:
Unit E2 responded.
Unit HR1 responded.
Unit SC63 responded.

16:45:03 all units back in service.

Dispatched to difficulty breathing. While enroute the call was upgraded to a full arrest. AOSTF patient on top of a tanker. Company emloyees had begun cpr. Fire engineer Barideaux and fire fighter Delacerda climbed on top of tanker and took over cpr. Captain Peake directed resources needed for the retrieval of patient from atop the tanker. Company employee made mention that the patient may have been exposed to toxic fumes. FD backboarded the patient and lowered the patient to the ground and onto waiting Stat Care ems stretcher. Fire fighter Thibedeaux rode with patient to SMH to assist ems.
HR1 went to SMH while E2 gathered patient info. E2 went to SMH and found hospital doing a hazmat wash on patient. E2 returned to scene to take drager readings from top of tanker. Drager read 1 ppm of H2S. Obtained msds sheet on tanker contents. Msds showed chemical to be sulfurized isobutylene. Toxicological Data showed all areas to be: Practically non-toxic. E2 returned to SMH msds sheet for distribution to the hospital and JP. E2 returned to service.

HR-1 Supplement:

HR-1 responded to assist. FF Thibodeaux rode in with EMS to St. Mary. Upon arrival the EMS staff complained of a strong odor from the pt. and his clothing. Hospital staff removed clothing and placed into a biohazard bag. FD placed a meter in the bag. The meter detected no lel, no H2S, no CO, and indicated an O2 % of 20.9. The deceased was placed in a secure room ouitside of the ER. FF Thibodeaux was provided with scrubs from the hospital and was

EPAHO082000595

FDID *	State *	MM Incident Date *	DD Incident Date *	YYYY Incident Date *	Station	Incident Number *	Exposure *	Complete Narrative
NH715	TX	12	18	2008	2	08-0012882	000	

Narrative:

able to remove her clothing and shower. Capt. Achord and FE Richard donned class B suits and airpacks and assisted in placing the deceased into two body bags for transfer to the morgue. Both the class B suits and the pt.'s clothing went with the decedant to the morgue.

EPAHO082000596

A. NFIRS - 10 Personnel

FDID *	State *	Incident Date * (MM)	(DD)	(YYYY)	Station	Incident Number *	Exposure *	Delete	Change
NH715	TX	12	18	2008	2	08-0012882	000	☐	☐

B Apparatus or Resource * (use codes listed below)	Date and Times (Check if same as alarm date)	Month	Day	Year	Hours/mins	Sent [X]	Number of People *	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID E2 Type 11	Dispatch	[X] 12	18	2008	14:10	Sent [X]	3	[X] Suppression ☐ EMS ☐ Other	
	Arrival	[X] 12	18	2008	14:19				
	Clear	[X] 12	18	2008	16:45				

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
29450	PEAKE, THOMAS	CA	X				
49817	DELACERDA, TRAVIS	FF	X				
70785	BARIDEAUX, THADDEUS	FF	X				

2 ID HR1 Type 70	Dispatch	[X] 12	18	2008	14:10	Sent [X]	3	[X] Suppression ☐ EMS ☐ Other	
	Arrival	[X] 12	18	2008	14:30				
	Clear	[X] 12	18	2008	16:45				

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
25[illegible]	ACHORD, JON	CA	X				
30003	RICHARD, BRANDAN	FE	X				
30725	THIBODEAUX. ANGELL	FF	X				

3 ID SC63 Type 76	Dispatch	[X] 12	18	2008	14:10	Sent [X]	0	☐ Suppression [X] EMS ☐ Other	
	Arrival	[X] 12	18	2008	14:22				
	Clear	[X] 12	18	2008	16:45				

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

Port Arthur Fire Department Haz-Mat Sampling Tanker Unit 267 (Close-up)

See Port Arthur Fire Department Incident Report # 08-0012882 Page 3 HR-1 Supplement

Indicating Draeger Read of 1 ppm of H2S (Incident Report Attached)

Attachment

3

Air Sampling Report U.S. Department of Labor Occupational Safety and Health Administration.

1. Reporting ID	2. Inspection Number	3. Sampling Number
626700	311960975	401326608

4. Establishment Name

PORT ARTHUR CHEMICAL & ENVIRONMENTAL SERVICES

5. CSHO ID	6. Sampling Date	7. Shipping Date	8. Date Result Received
V9900	18 DEC 2008	07 JAN 2009	

9. Job Title	10. Occupational Code	11. Number Exposed
Not applicable		

12. Frequency of Exposure

Exposure Summary

14. Substance Code	15. Rqstd	16. Smpl Type	17. Exp Type	18. Exp Level	19. Units	20. PEL	21. Adj	22. Severity	23. Citation information: No Cit	PTA	Over Exp	Eng	PPE	Trng	Med	OTH

TWA calculated on actual time sampled
The I. H. is free to make changes on the Form 91B and submit them directly to IMIS

26. Analyst's Comments (Analytical Method) GC/MS ANALYSIS

Air from the closed bag was drawn through a Carbotrap 300 tube for volatiles analysis. Swatches of cloth were cut from sweat pants (2), shirt (3), and jeans (2) and extracted in carbon disulfide for GC/MS analysis. Draeger tube analysis for hydrogen sulfide and mercaptans was conducted. Swatches from shirt and jeans were extracted in water, which was tested with pH strips.

D-55438: HazMat suit was not analyzed.

D-55439: Carbotrap tube: Numerous disulfide compounds including CS2, dimethyl disulfide, diethyl disulfide, dimethyl trisulfide, diethyl trisulfide, and others. Also, acetone, isopropanol, ethyl benzene, xylene, and 2-ethyl hexanol. Sweat pants: Dimethyl disulfide, fatty acids, glycerin, and long-chain alcohols and amines. Shirt: Elemental sulfur, phthalate and adipate esters, phenol and alkyl phenols, nonyl phenol isomers, alkyl cyclopentadienes, fatty acids, alcohols and amines, dimethyl disulfide, benzyl alcohol, and detergent compounds. Jeans: Elemental sulfur, phenol and alkyl phenols, alkyl cyclopentadienes, disulfide compounds, phthalate and adipate esters, and detergent compounds. Draeger tubes produced no evidence of hydrogen sulfide or mercaptans. pH on cloth swatches tested was not elevated, indicating absence of caustics such as NaOH.

27. Chain of Custody a. Seals Intact	Init.	Date Y
b. Rec'd In Lab	DJX	14 JAN 2009
c. Rec'd by Anal.	PH	14 JAN 2009
d. Anal. Completed	PH	21 JAN 2009
e. Calc. Checked	MEE	31 JAN 2009
f. Supr. OK'd	WP	22 JAN 2009

28 Submission number	1975-1	1975-2
29 Lab Sample No. (Minutes/Type)	D55438 B	D55439 B

30. Analyte	31. Analysis Results/ 32. Sample included in calculations of	
M125 Qualitative Mass-Spec Analysis	NA	BULK

EPAHO082000600

Attachment

4

Air Sampling Report U.S. Department of Labor Occupational Safety and Health Administration.

1. Reporting ID	2. Inspection Number	3. Sampling Number
626700	311960975	401326616

4. Establishment Name
PORT ARTHUR CHEMICAL & ENVIRONMENTAL SERVICES

5. CSHO ID	6. Sampling Date	7. Shipping Date	8. Date Result Received
V9900	18 DEC 2008	07 JAN 2009	

9. Job Title	10. Occupational Code	11. Number Exposed
Not applicable		

12. Frequency of Exposure

Exposure Summary

14. Substance Code	15. Rqstd	16. Smpl Type	17. Exp Type	18. Exp Level	19. Units	20. PEL	21. Adj	22. Severity	23. Citation information: No Cit	FTA	Over Exp	Eng	PPE	Trng	Med	OTH

TWA calculated on actual time sampled
The I. H. is free to make changes on the Form 91B and submit them directly to IMIS

26. Analyst's Comments (Analytical Method) HISTORICAL GC/MS

A portion of bulk oil was placed in carbon disulfide for analysis by GC/mass spectrometry. Testing for pH was done by placing a portion of oil in water, then testing the water with pH indicator strips. Testing for H2S and SO2 in bottle headspace was done using detector tubes.

D-55599: Most abundant organic analytes were phenol, cresols and other alkyl phenols. Also found were numerous sulfides, disulfides, trisulfides, and tetrasulfides, as well as toluene, xylene, and elemental sulfur. Indicator strips gave an approximate pH of 6. H2S and SO2 were not detected in headspace over the oil.

27. Chain of Custody a. Seals Intact	Init.	Date Y
b. Rec'd In Lab	DJK	21 JAN 2009
c. Rec'd by Anal.	PH	22 JAN 2009
d. Anal. Completed	PH	23 JAN 2009
e. Calc. Checked	MZE	23 JAN 2009
f. Supr. OK'd	WP	26 JAN 2009

28 Submission number 1975-3

29 Lab Sample No. (Minutes/Type) D55599 B

30. Analyte	31. Analysis Results/ 32. Sample included in calculations of
M125 Qualitative Mass-Spec Analysis	BULK

Because the results for air samples are used in further calculations, the number of figures reported in section 31 may not reflect the actual precision of the analysis. Calculated confidence limits (UCL & LCL) should be rounded to no more than three significant figures.
The precision of analysis for wipe samples and for bulk material samples justify rounding results to no more than two significant figures.

The Sampling and Analytical Error (SAE) is the current value for the specific chemical(s) and should be used for the calculations.
Blank values are reported for reference only. Appropriate blank corrections have been applied to the samples by the Salt Lake Technical Center. Blank results are less than the reporting limit(s) unless otherwise noted.

33. Analyte Code	SAE Value
M125	

L	MILLIGRAMS PER LITER (URINE)	D	MICROGRAMS PER DECILITER (BLOOD)
C	PICO CURIES PER LITER (RADON GAS)	P	PARTS PER MILLION
F	FIBERS PER CUBIC CENTIMETER	X	MICROGRAMS
M	MILLIGRAMS PER CUBIC METER	%	PERCENT

EPAHO082000602

Attachment

5

AMERICAN JOURNAL OF INDUSTRIAL MEDICINE 35:192–195 (1999)

Hydrogen Sulfide Poisoning: Clarification of Some Controversial Issues

Thomas H. Milby, MD,* and Randall C. Baselt, PhD[1]

Background *Hydrogen sulfide is a toxic gas about which much has been written. We discuss here several issues we believe would benefit from further clarification.*

Conclusions *We conclude that: 1) Certain neurotoxic effects of exposure are probably due to a direct toxic effect on the brain, while others are almost certainly a result of hypoxia secondary to H_2S-induced respiratory insufficiency; 2) pulmonary edema is a common consequence of poisoning and there is suggestive evidence of hyperactive airway responses in some individuals following brief H_2S-induced unconsciousness (knockdown); 3) criteria for acceptable community levels are very different than those governing occupational standards; 4) urinary thiosulfate determinations can be useful for monitoring occupational exposure; and 5) determination of sulfide ion concentrations in blood or major organs can be useful in corroborating a diagnosis of fatal H_2S toxicity, but there are many pitfalls in collecting, storing, and analyzing tissue and fluid samples.* Am. J. Ind. Med. 35:192–195, 1999. © *1999 Wiley-Liss, Inc.*

KEY WORDS: hydrogen sulfide; neurotoxic effects; pulmonary edema; urinary thiosulfate; blood sulfide.

INTRODUCTION

There have been several reviews of the toxicity of hydrogen sulfide to humans published in the last several decades [Milby, 1962; NRC, 1979; Beauchamp et al., 1984; Reiffenstein et al., 1992; EPA, 1993]. In the view of the authors, the majority of the data presented in these reviews continues to be valid, but some issues deserve further clarification. In this short communication, we consider the neurotoxic effects of acute exposure, effects on the lungs, community exposure issues, and diagnosis of poisoning utilizing urine, blood, and tissue analyses.

NEUROTOXIC EFFECTS

The above-cited reviews are generally consistent in the view that the most dramatic potential consequences of hydrogen sulfide exposure occur at high concentrations. At 750–1,000 ppm, inhalation of hydrogen sulfide causes abrupt physical collapse. If exposure is promptly terminated, many cases of collapse are followed by rapid and complete recovery. However, in some instances, presumably where exposure is more pronounced or prolonged, sudden collapse may give way to rapidly fatal respiratory paralysis [Milby, 1962; EPA, 1993; Guidotti, 1994].

Certain transitory neurotoxic effects associated with exposure to hydrogen sulfide such as dizziness, incoordination, and headache are probably due to the direct toxic effect of hydrogen sulfide on the brain: these effects appear far too quickly to be attributed to hypoxia. A phenomenon referred to as "knockdown" has been reported in oil field workers and others to describe sudden, brief loss of consciousness followed by immediate full recovery after short-lived exposure to very high concentrations of hydrogen sulfide (e.g., 750–1,000 ppm) [Guidotti, 1994; Aves, 1929; Smith and Gosselin, 1979]. Knockdown is likely a consequence of a direct toxic effect of hydrogen sulfide on the brain. This direct effect is believed to be due to the intracellular inhibition of cytochrome oxidase by sulfide ion, preventing utilization of oxygen [Nicholls, 1975].

Most victims of acute hydrogen sulfide poisoning who recover do so promptly and completely [Milby, 1962; NRC,

[1]Chemical Toxicology Institute, Foster City, California
*Correspondence to: Thomas H. Milby, M.D., 1399 Ygnacio Valley Rd., Suite 25, Walnut Creek, CA 94598. E-mail: tmilby@aol.com
Accepted 11 September 1998

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EPAHO082000604

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Legal Medicine 10 (2008) 148–152

LEGAL MEDICINE

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Case Report

Two fatalities by hydrogen sulfide poisoning: Variation of pathological and toxicological findings

Mihoko Ago *, Kazutoshi Ago, Mamoru Ogata

Department of Legal Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima 890-8544, Japan

Received 28 July 2007; received in revised form 26 November 2007; accepted 29 November 2007
Available online 8 February 2008

Abstract

We report the simultaneous deaths of two individuals by inhalation of hydrogen sulfide (H_2S), produced either by the putrefaction of a large quantity of sweet corn or by heavy oil that flowed out of the fuel tank of a large stranded cargo vessel. Ten workers went into a water ballast tank of the vessel to remove remaining heavy oil and suddenly felt unwell. Two of the ten workers (patient A, a male in his early thirties, and patient B, a male in his early sixties) died. Autopsies of the two patients revealed a partial green discoloration of the skin and pulmonary edema. Toxicological analysis revealed high levels of thiosulfate in the blood (0.089 mmol/L in patient A and 0.142 mmol/L in patient B). From these findings, we concluded that the cause of death in both patients was H_2S poisoning. In addition, the autopsy of patient A revealed petechiae of the palpebral conjunctiva and the mucous membrane of the mouth and erosion of the respiratory tract. The autopsy of patient B failed to reveal these observations. We presumed that patient B may have been exposed to higher H_2S levels, and that the circulation and respiration of patient B may have arrested faster than patient A. Thiosulfate levels in the blood may reflect the levels of H_2S exposure. This case suggests that the pathological and toxicological findings of H_2S poisoning vary from case to case.
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Keywords: Hydrogen sulfide poisoning; Thiosulfate; Pulmonary edema; Autopsy

1. Introduction

Hydrogen sulfide (H_2S) is a colorless irritant gas that is inflammable and water-soluble. H_2S has a specific gravity of 1.19 (air = 1.00) and the characteristic odor of rotten eggs [1]. H_2S is poisonous, and accidents may occur on exposure to natural gas, volcanic gas, and industrial waste. Accidents have been reported in sewage disposal facilities [2–5] and chemical processing plants [6–8], and with the ingestion of sulfur products [9,10]. H_2S is also produced naturally by the putrefaction of organic compounds. The gas produced by this process is unstable and is rapidly metabolized as thiosulfate and sulfate by hepatic oxidation, therefore, quantifying the original substances is difficult [11,12]. Fatalities by H_2S poisoning are encountered frequently in the forensic practices. There is a large amount of sulfate in the blood and urine of healthy people, whereas the thiosulfate content is very low [11,13]. In addition, thiosulfate is a major metabolite of H_2S [11]. For these reasons, thiosulfate has been reported to be a useful indicator for H_2S exposure [2–4,11,14–17]. Here, we report a case of two patients who died almost simultaneously due to H_2S poisoning. In this case, the pathological and toxicological findings were different between the two patients. We compare the findings and discuss the variable biomechanisms of H_2S poisoning.

2. Case report

A large-sized cargo vessel, approximately 36,000 tons, which was in transit with a large quantity of sweet corn, was destroyed by breaking in two due to stranding in a gulf under a heavy typhoon. The stranded cargo vessel was covered widely with a large amount of heavy oil that issued from

* Corresponding author. Tel.: +81 99 275 5313; fax: +81 99 275 5315.
E-mail address: agomiho@m.kufm.koagoshima-u.ac.jp (M. Ago).

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doi:10.1016/j.legalmed.2007.11.005

EPAHO082000605

the fuel tank. Accordingly, an operation was performed to eliminate the heavy oil inside and around the cargo vessel. At approximately one month after the accident, ten workers, including our two patients entered a water ballast tank to recover the remaining heavy oil. At 11:15 a.m., all of the workers suddenly felt unwell. Eight workers escaped by themselves from the tank with clouded consciousness. At 11:58 a.m., rescue personnel equipped with gas masks found collapsed patient A (male in his early thirties) sitting on a sloped floor and leaning on a wall. At 11:59 a.m., they found collapsed patient B (male in his early sixties) lying prone on a sloped floor. His head was located on the upper side of the sloped floor. Although a small amount of black sludge had collected on the bottom of the sloped floor, the nose and mouth of both patients were not submerged in the sludge. Rescue personnel retrieved patient A from the tank at 0:04 p.m. and patient B at 0:16 p.m. The patients arrived at a hospital at 0:59 p.m. in a state of cardiopulmonary arrest. They were pronounced dead at 1:03 p.m. (patient A) and 1:04 p.m. (patient B), respectively. After using an electric fan to remove the harmful gas from the tank and about 4 h after the accident, the air concentration of H_2S, oxygen (O_2), and carbon monoxide (CO) at the scene were estimated to be 30 ppm, 20.8% and 355 ppm, respectively. Autopsies on patient A and B were performed at 20 and 24 h after death, respectively.

3. Autopsy findings

3.1. Patient A

Patient A was a male in his early thirties. He was 169 cm in height and 68 kg in weight. A slight greenish discoloration presented on his anterior cervical region and precordia. A few black subcutaneous bleedings were observed on regions of back and upper and lower limbs. The palpebral conjunctiva and the mucous membrane of the mouth revealed marked hyperemia and a few petechiae. The ocular conjunctiva revealed marked hyperemia, but was free of petechiae. The heart weighed 330 g, and a large amount of black dark-red fluid blood was retained in the heart. The left and right lungs weighed 830 and 925 g, respectively, with marked swelling and congestion. There was a little dark brown-red mucous fluid mixed with the micro foam in the trachea and bronchia. The mucous membrane of the glottis, trachea and bronchia revealed extensive erosion and submucosal hemorrhage (Fig. 1A). Extensive erosion and submucous hemorrhages were seen in the entire inner membrane of the esophagus. Erosion was found in the posterior wall of the fundus ventriculi and the cardia of the lesser curvature of the stomach. The lumen of the small intestine revealed congestion and localized erosion. The liver and the spleen weighed 1800 and 120 g, respectively, and both organs revealed no remarkable changes except for congestion. The brain weighed 1480 g, and slight cerebral edema was noted. There were no remarkable findings in other organs except for congestion.

Histological examination revealed marked congestion and edema in both lungs. Marked congestion, erosion and submucosal hemorrhage, as well as edema of the tunica propria and tela submucosa were observed in the epiglottis, glottis vocalis (Fig. 2A), trachea and bronchia. Similar findings were observed in the esophagus and stomach. Severe necroses were noted in the tracheal and bronchial glands. No remarkable changes, except for congestion, were found in other organs including the liver.

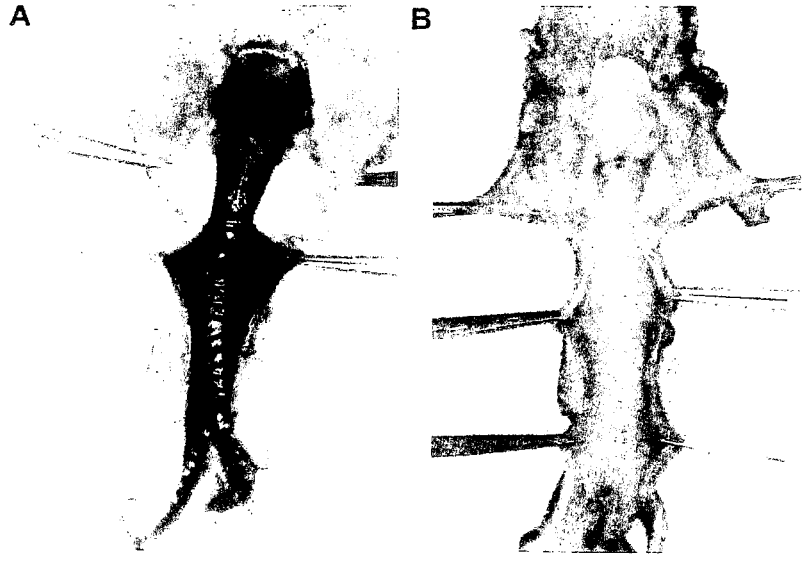

Fig. 1. The trachea of patient A (A) and B (B). The mucous of patient A reveals extensive erosion and the submucous bleeding, whereas the mucous of patient B reveals hyperemia, but is free of erosion.

EPAHO082000606

Attachment

6

General Affidavit

STATE OF TEXAS

COUNTY OF Harris

BEFORE ME, the undersigned Notary, Juanita Thomas, on this 22 day of May, 2009, personally appeared **Matt Bowman** known to me to be a credible person and of lawful age, who being by me duly sworn, on his oath, deposes and says:

"My name is Matt Bowman. I am over 21 years of age. I was the President on December 18, 2008, at the Port Arthur Chemical and Environmental Services, LLC ("PACES") plant site at the time Joey Sutter passed away. I have personal knowledge of the PACES operations. During the morning and afternoon of December 18, 2008, Trailer 267 was not heated with steam or any other source of heat. Steam was not available."

Matt Bowman
(Signature of Affiant)

Matt Bowman
(Printed Name of Affiant)

14115 Northill Pointe
(Home Address)

Houston, TX 77044
(City, State & Zip)

STATE OF TEXAS

COUNTY OF Harris

Sworn to and subscribed before me on this 22 day of May, 2009, by MATT BOWMAN.

JUANITA THOMAS
Notary Public, State of Texas
My Commission Expires
May 24, 2009

Juanita Thomas
(Notary Public Signature)

Attachment

7

General Affidavit

STATE OF TEXAS

COUNTY OF Jefferson

BEFORE ME, the undersigned Notary, Patricia Grace Krueger, on this 3 day of March, 2009, personally appeared Suzie Mock known to me to be a credible person and of lawful age, who being by me duly sworn, on her oath, deposes and says:

My name is Suzie Mock. I am over 21 years of age. I was an employee on December 18, 2008 at the Port Arthur Chemical and Environmental Services, LLC ("PACES") plant site at the time Joey Sutter passed away. I have personal knowledge and experience with the situation during the incident involving Joey Sutter. During the morning and afternoon of December 18, 2008 my personal monitor for the H_2S did not sound an alarm warning. My personal H_2S Monitor Alarm was set at 10 ppm for H_2S on December 18, 2008.

Suzie Mock
(Signature of Affiant)

Suzie Mock
(Printed Name of Affiant)

2121 Norma St Port Arthur, TX, 77640
(Address of Affiant, Line 1)

(Address of Affiant, Line 2)

STATE OF TEXAS

COUNTY OF Jefferson

Sworn to and subscribed before me on this 3rd day of March, 2009, by _____.

SEAL

Patricia Grace Krueger
Notary Public
State of Texas
My Commission Expires
May 29, 2010

Patricia Grace Krueger
(Notary Public Signature)

Attachment

8

NMS LABS

NMS Labs
3701 Welsh Road, PO Box 433A, Willow Grove, PA 19090-0437
Phone: (215) 657-4900 Fax: (215) 657-2972
e-mail: nms@nmslabs.com
Robert A. Middleberg, PhD, DABFT, DABCC-TC, Laboratory Director

CONFIDENTIAL

Toxicology Report

Report Issued 01/20/2009 17:00

To: **10240**
Southeast Texas Forensic Ctr.-Beaumont
Attn: Dr. Tommy Brown
5030 Highway 69 South, Ste.700
Beaumont, TX 77705

Patient Name	SUTTER, JOEY
Patient ID	08-1253
Chain	10973749
Age	Not Given
Gender	Male
Workorder	09009238

FILED
APR 2 2 2009
Justice Court, Pct. 8

Positive Findings:

Compound	Result	Units	Matrix Source
Creatinine	**1959**	**mg/L**	**Urine**
Thiosulfate	**3.4**	**mcg/mL**	**Urine**
Thiosulfate (Creatinine corrected)	**1.7**	**mcg/g Creat**	**Urine**

See Detailed Findings section for additional information

Specimens Received:

ID	Tube/Container	Volume/ Mass	Collection Date/Time	Matrix Source	Miscellaneous Information
001	Gray Top Tube	10.75 mL	Not Given	Blood	
002	Red Top Tube	9.75 mL	Not Given	Urine	

All sample volumes/weights are approximations.

Specimens received on 01/15/2009.

Testing Requested:

Analysis Code	Description
4235B	Sulfhemoglobin, Blood
4472U	Thiosulfate, Urine

Detailed Findings:

Analysis and Comments	Result	Units	Rpt. Limit	Specimen Source	Analysis By
Creatinine	1959	mg/L	5.0	002 - Urine	Colorimetry
Thiosulfate	3.4	mcg/mL	1.0	002 - Urine	IC
Thiosulfate (Creatinine corrected)	1.7	mcg/g Creat	0.51	002 - Urine	IC

Other than the above findings, examination of the specimen(s) submitted did not reveal any positive findings of toxicological significance by procedures outlined in the accompanying Analysis Summary.

Reference Comments:

1. Creatinine - Urine:

   ACGIH Normal range in adults:
   300 - 3400 mg/L (mean: 1000 mg/L)
   [0.3 - 3.4 g/L (mean: 1 g/L)]
   1000 - 1600 mg/day (1.0 - 1.6 g/day).

2. Thiosulfate - Urine:

   Thiosulfate is a byproduct of the metabolic degradation of cysteine and methionine. As a result, normal endogenous levels of thiosulfate can be found in urine. However, whether normal levels of thiosulfate can be found in serum, plasma or whole blood is debatable. **Certain environmental exposures, dietary conditions and pathological states can give rise to increased urinary levels of thiosulfate as well as significant concentrations in serum, plasma and/or whole blood.** Hydrogen sulfide exposure is a common source of increased urinary and serum levels of thiosulfate.

   Reported endogenous thiosulfate levels in urine range from 1 - 5 mcg/mL.

3. Thiosulfate (Creatinine corrected) - Urine:

   Normal: Up to 8 mcg/g Creatinine.
   15 hours after a 60 minute exposure to air concentrations of 60 micromoles/L Hydrogen Sulfide resulted in urine concentrations up to 60 mcg/g Creatinine.

This analysis was performed under chain of custody after receipt at NMS Labs. The chain of custody documentation is on file at NMS Labs.

Unless alternate arrangements are made by you, the remainder of the submitted specimens will be discarded six (6) weeks from the date of this report; and generated data will be discarded five (5) years from the date of this report.

Analysis Summary:

Acode 4235B - Sulfhemoglobin, Blood

- Analysis by Spectrophotometry (SP) for: Sulfhemoglobin

Acode 4472U - Thiosulfate, Urine

- Analysis by Colorimetry (C) for: Creatinine
- Analysis by Ion Chromatography (IC) for: Thiosulfate, Thiosulfate (Creatinine corrected)

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1: Ig Sanita Pubbl. 2004 Jul-Aug;60(4):201-17.

Links

[Measurement of sulfhemoglobin (S-Hb) blood levels to determine individual hydrogen sulfide exposure in thermal baths in Italy]

[Article in Italian]

Ensabella F, Spirito A, Duprè S, Leoni V, Schininà ME, Strinati F, Amiconi G.

Dipartimento di Scienze di Sanità Pubblica, Università di Roma La Sapienza.

Significant exposure to hydrogen sulfide may occur in workers at sulphureous thermal baths. Work-related exposure to hydrogen sulfide may be shown by measuring sulfhemoglobin (S-Hb) blood levels. In this study we measured S-Hb blood levels in two groups of workers at two different thermal baths and compared these with hydrogen sulfide concentrations in the air of the two work environments. **Our results show that blood S-Hb levels can be considered a reliable measure of individual exposure to hydrogen sulfide.**

PMID: 15583709 [PubMed - indexed for MEDLINE]

Related articles

Review Hydrogen sulfide (H2S) and sour gas effects on the eye. A historical perspective. [Can J Ophthalmol. 2006]

[Effect of sulfide-hydrogen sulfide baths on sulfhydryl groups (SH) in the serum of patients] [Pol Tyg Lek. 1958]

[Mechanisms of sulfhemoglobinemia] [Folia Med Cracov. 1974]

Monitoring risks in association with exposure levels among wastewater treatment plant ... [Ann Ist Super Sanita. 2007]

Review Twenty-foot fall averts fatality from massive hydrogen sulfide exposure. [Med Law. 2001]

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EPAHO082000614

Analysis Code	42358
Test Name	Sulfhemoglobin, Blood
Test Includes	Sulfhemoglobin [SP]
Compound Synonym(s)	SHb
Purpose	Diagnostic Monitoring
Category	Biological Marker (Exposure)
Method(s)	Spectrophotometry (SP)
Specimen Requirements	1 mL EDTA Blood (lavender top tube)
Special Handling	Collect Blood during or at end of shift. Chill and ship with cold pack. DO NOT FREEZE!
Day(s) Test Set-up	[SP] Tuesday Thursday 1 day
Suggested CPT Code	[SP] 83060

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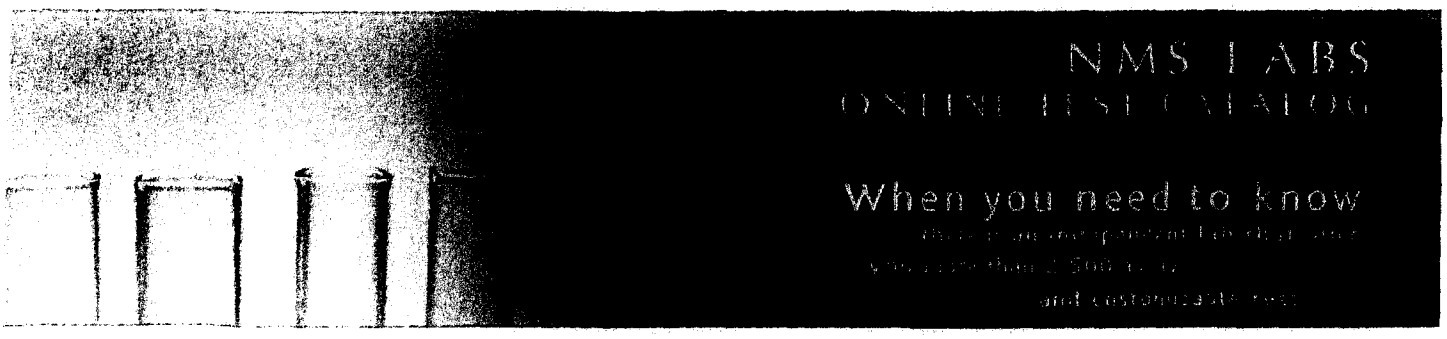

Catalog Home

New Tests

Test Updates

Analysis Code	4472SP
Test Name	**Thiosulfate, Serum/Plasma**
Test Includes	Thiosulfate [IC]
Purpose	Exposure Monitoring
Category	Environmental/Occupation Toxin
Method(s)	Ion Chromatography (IC)
Specimen Requirements	3 mL Serum or Plasma
Transport Temperature	Refrigerated
Specimen Container	Lavender top tube (EDTA)
Special Handling	Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.
Light Protection	Not Required
Stability	Room Temperature: 3 day(s) Refrigerated: 9 day(s) Frozen (-20 °C): 1 month(s)
Rejection Criteria	Received Room Temperature. Polymer gel separation tube (SST or PST).
Day(s) Test Set-up	[IC] Monday-Sunday 7 days
Suggested CPT Code	[IC] 82491

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Archive Report
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CUSTOMER REQUEST | LOGS | CALL DOCTOR | LOGOUT

Test Ranges | Test Info

Test List | Test Cost | Test Drug Info | Test Requirements | CPT Code

Test Number Inquiry
Test No. 846063 Search

Account No.

Lab Code Search

Test Name Inquiry
Test Name THIOSU Search

Referral Inquiry
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HLICTS-AL	NAME	DESCRIPTION LABCORP#:	
	Thiosulfate	846063	

SPECIAL INSTRUCT.	Testing referred to National Medical Services NM#4472SF
SPECIMEN TYPE....	Serum or plasma
SPECIMEN VOLUME..	3.0 mL
MINIMUM VOLUME...	1.4 mL
SPEC CONTAINER....	Red-top tube or lavender-top (EDTA) tube
SPECIMEN COLLECT.	Serum/plasma should be separated from cells within 2 hours of venipuncture. Send serum/plasma in a plastic transport tube.
SPECIMEN STORAGE.	Refrigerate Stability: Refrigerate up to 9 days Frozen up to 1 month
CAUSE FOR REJECT.	Gel-barrier tube or samples received rom temperature
PRIMARY KEY(S)...	01202 01 Refrigerated Serum Transfer Tube

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TEXAS HEART® INSTITUTE
at St. Luke's Episcopal Hospital

Heart Conditions

High Blood Pressure (Hypertension)

Hypertension, the medical term for high blood pressure, is known as "the silent killer." At least 73 million Americans have high blood pressure, and as many as 20 million of them do not even know they have the condition. If left untreated, high blood pressure greatly increases your risk for heart attack and stroke.

Be heart-smart about high blood pressure.

- How does high blood pressure affect health?
- What are the causes?
- How is it diagnosed?
- How high is high?
- How is it treated?

Your Guide to Lowering High Blood Pressure

Your **heart** pumps blood through a network of arteries, veins, and capillaries. The moving blood pushes against the arterial walls, and this force is measured as blood pressure.

High blood pressure results from the tightening of very small arteries called arterioles. Arterioles regulate the blood flow through your body. As these arterioles tighten (or constrict), your heart has to work harder to pump blood through the smaller space, and the pressure inside the vessels grows.

High blood pressure can affect your health in four main ways:

- **Hardening of the arteries.** Pressure inside your arteries can cause the muscles that line the walls of the arteries to thicken. Thickening causes the arteries to narrow. A **heart attack** or **stroke** can occur if a blood clot blocks blood flow to your heart or brain.
- **Enlarged heart.** High blood pressure increases the amount of work for your heart. Like any heavily exercised muscle in your body, your heart grows bigger. The bigger your heart is, the less able it is to maintain proper blood flow. As a result, you feel weak and tired and are not able to exercise or perform physical activities. Your heart has begun to fail. Without treatment, your **heart failure** will only get worse.
- **Kidney damage.** Prolonged high blood pressure can damage your kidneys if the arteries supplying your kidneys with blood are affected.
- **Eye damage.** If you have diabetes, high blood pressure can cause the tiny capillaries in the retina of your eye to bleed. This condition, called retinopathy, can lead to blindness.

What causes high blood pressure?

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About 90% to 95% of all high blood pressure cases are what is called **primary**, or **essential hypertension**. That means the real cause of the high blood pressure is not known, but a number of factors are associated with the condition. You are at an increased risk of high blood pressure if you

- Have a family history of high blood pressure.
- Are African American. African Americans develop high blood pressure more often than whites, and it tends to happen earlier in life and be more severe.
- Are male. Women are at an increased risk after age 55.
- Are older than 60. Blood vessels become more brittle with age and are not as flexible.
- Face high levels of stress. In some studies, stress, anger, hostility, and other personality traits have been shown to lead to high blood pressure, but the findings have not always been consistent. Emotional factors most likely add to the risk of high blood pressure for people who also have other risk factors.
- Are overweight or obese.
- Use tobacco products. Smoking damages your blood vessels.
- Use oral contraceptives. Women who smoke and use oral contraceptives greatly increase their risk.
- Eat a diet high in saturated fat.
- Eat a diet high in salt (sodium).
- Drink more than a moderate amount of alcohol. Experts say that moderate intake is an average of one to two drinks per day for men and one drink per day for women. One drink is defined as 1½ fluid ounces (fl oz) of 80-proof spirits (such as bourbon, Scotch, vodka, gin, etc.), 1 fl oz of 100-proof spirits, 4 fl oz of wine, or 12 fl oz of beer.
- Are physically inactive.
- Have diabetes.

Researchers have also found a gene that appears to be linked to high blood pressure. If you have the gene, it does not mean that you or your children will develop high blood pressure. But it does mean that you are more likely to develop high blood pressure, so your blood pressure should be closely watched.

The remaining patients with high blood pressure have what is called **secondary hypertension**. Secondary hypertension means that the high blood pressure is the result of another condition or illness. Many cases of secondary hypertension are caused by kidney disorders. Other conditions that can cause secondary hypertension are

- Problems with the parathyroid gland.
- Acromegaly, which is a condition where the pituitary gland makes too much growth hormone.
- Tumors in the adrenal or pituitary glands.
- Reactions to medicines for other medical problems.
- Pregnancy.

What are the symptoms of high blood pressure?

Most people who have high blood pressure usually do not have symptoms. In some cases, people with high blood pressure may have a pounding feeling in their head or chest, a feeling of lightheadedness or dizziness, or other signs. If

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there are no warning signs, people with high blood pressure may go years without knowing they have the condition.

How is high blood pressure diagnosed?

A visit to your doctor is the only way to find out if you have high blood pressure. You should have a general medical check-up that includes a review of your family's medical history. Your doctor will take several blood pressure readings using a device called a sphygmomanometer and run a few routine tests.

Your doctor may also use a device called an ophthalmoscope to look at the blood vessels in your eyes. Doctors can see if these vessels have thickened, narrowed, or burst, which may be a sign of high blood pressure. Your doctor will also use a stethoscope to listen to your heart and the sound of blood flowing through your arteries. In some cases, a chest x-ray and **electrocardiogram** may be needed.

Blood pressure readings

Blood pressure readings measure the two parts of blood pressure: **systolic and diastolic** pressures. Systolic pressure is the force of blood flow through an artery when the heart beats. Diastolic pressure is the force of blood flow within blood vessels when the heart rests between beats.

A blood pressure reading measures both the systolic and diastolic forces, with the systolic pressure listed first. The numbers show your pressure in units of millimeters of mercury (mm Hg)—how high the pressure inside your arteries would be able to raise a column of mercury. For example, a reading of 120/80 mm Hg means a systolic pressure of 120 mm Hg and diastolic pressure of 80 mm Hg.

Most doctors do not make a final diagnosis of high blood pressure until they measure your blood pressure several times (at least 2 blood pressure readings on 3 different days). Some doctors ask their patients to wear a portable machine that measures their blood pressure over the course of several days. This machine may help the doctor find out whether a patient has true high blood pressure or what is known as "white-coat hypertension." White-coat hypertension is a condition in which a patient's blood pressure rises during a visit to a doctor, but not at other times. Although doctors are not sure what causes white-coat hypertension, anxiety and stress probably play a role.

How often should blood pressure be checked?

Adults should have their blood pressure checked at least once a year. Many grocery or drug stores have blood pressure machines that you can use for free any time you visit the stores. Keep in mind, though, that these machines may not give you a correct reading.

Blood pressure monitors for use at home can be bought at drug stores, department stores, and other places. Again, these monitors may not always give you a correct reading. You should always compare your machine's reading

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with a reading from your doctor's machine to make sure they are the same. Remember that any measurement above normal should prompt a visit to the doctor, who can then talk with you about the best course of action.

How high is high?

According to new guidelines released by the National Heart, Lung, and Blood Institute (NHLBI) in 2003, a reading below 120/80 mm Hg is now classified as normal blood pressure. Those with a blood pressure reading anywhere from 120/80 up to 139/89 (once thought to be normal) are now classified within a category called "prehypertension." The NHLBI says that about 45 million Americans fall within the prehypertension category, which puts them at twice the risk of developing high blood pressure later in life.

Blood Pressure Classification Chart

Category	Systolic (mm Hg)	Diastolic (mm Hg)
Normal	Lower than 120	Lower than 80
Prehypertension	120 - 139	80 - 89
Hypertension		
Stage 1	140-159	90-99
Stage 2	160 or higher	100 or higher

Adapted from The Seventh Report on the joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC 7), NIH Publication No. 03-5233, May 2003

The classification chart is based on adults, aged 18 and older, who are not taking high blood pressure medicines and who are not acutely ill. If systolic and diastolic measurements fall into different categories, the higher category should be used to classify the person's blood pressure status.

How is high blood pressure treated?

The first course of action usually involves lifestyle changes, especially for people with prehypertension.

- Start eating a low-fat and low-salt **diet.**
- Lose weight, if you need to.
- Begin a regular **exercise** program.
- Learn to manage stress.
- If you smoke, quit.
- Drink alcohol in moderation, if at all. Remember that moderate intake is an average of one or two drinks per day for men and one drink per day for women.

Medicines are available if these changes do not help control your blood pressure within 3 to 6 months. **Diuretics** help rid your body of water and sodium. **ACE inhibitors** block the enzyme that raises your blood pressure. Other types of medicines— **beta blockers, calcium channel blockers,** and other **vasodilators**— work in different ways, but their overall effect is to help relax and widen your

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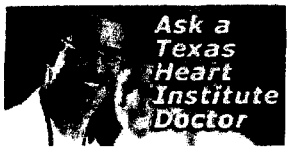
blood vessels and reduce the pressure inside the vessel.

See also on this site:

- **Congestive Heart Failure**
- **Heart Attack Warning Signs**
- **Stroke**
- **"Recognizing Hypertension and its Symptoms in Children"** (presentation available in the **Project Heart** subsite)



Does managing blood pressure have to be this hard?

See on other sites:

Visit the National Heart, Lung, and Blood Institute:
Your Guide to Lowering High Blood Pressure.

Download an **HBP Wallet Card.**

Browse the NHLBI's **Keep the Beat: Heart-Healthy Recipe Book.**

MedlinePlus
www.nlm.nih.gov/medlineplus/highbloodpressure.html
High Blood Pressure

Updated Feburary 2009

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If you need information about keeping your heart healthy, e-mail the **Heart Information Center** or call 1-800-292-2221.
(Outside the U.S., call 1-832-355-6536.)

Texas Heart Institute Heart Information Center
Through this community outreach program, staff members of the Texas Heart Institute (THI) provide educational information related to the prevention, diagnosis, and treatment of cardiovascular disease. It is not the intention of THI to provide specific medical advice, but rather to provide users with information to better understand their health and their diagnosed disorders. Specific medical advice will not be provided and THI urges you to visit a qualified physician for diagnosis and for answers to your questions.

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Enlarged heart

By Mayo Clinic staff

Original Article:http://www.mayoclinic.com/health/enlarged-heart/DS01129/DSECTION=causes

Definition

Enlarged heart (cardiomegaly) isn't a disease, but rather a symptom of another condition.

The term "cardiomegaly" most commonly refers to an enlarged heart seen on chest X-ray before other tests are performed to diagnose the specific condition causing your enlarged heart. You may develop an enlarged heart temporarily because of a stress on your body, such as pregnancy, or because of a medical condition, such as the weakening of the heart muscle, coronary artery disease, heart valve problems or abnormal heart rhythms.

While having an enlarged heart may not always be preventable, it's usually treatable. Treatment for enlarged heart is aimed at correcting the underlying cause. Treatment for an enlarged heart can include medications, medical procedures or surgery.

Symptoms

In some people, an enlarged heart causes no signs or symptoms. Others may have these enlarged heart symptoms:

- Breathing difficulties
- Shortness of breath
- Dizziness
- Abnormal heart rhythm (arrhythmia)
- Swelling (edema)
- Cough

When to see a doctor
Enlarged heart is easier to treat when it's detected early, so talk to your doctor about any concerns you have about your heart health. If you don't have an enlarged heart, but are concerned about developing the condition, talk to your doctor about steps you can take to reduce your risk.

If you think you may have a problem with your heart based on new signs or symptoms you've been having, make an appointment to see your doctor.

Seek emergency medical care if you have any of these signs and symptoms, which may mean you're having a heart attack:

- Chest pain
- Shortness of breath
- Fainting

Causes

Sometimes, an enlarged heart develops for no apparent reason (idiopathic) but it can also be caused by a condition that can cause your heart to pump harder than usual. These conditions can include:

- **High blood pressure.** Having high blood pressure can make it so that your heart has to pump harder to deliver blood to the rest of your body, enlarging the muscle.
- **Heart valve disease.** Four valves within your heart keep blood flowing in the right direction. If the valves are damaged by such conditions as

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rheumatic fever, a heart defect, infections (infectious endocarditis), connective tissue disorders, certain medications or radiation treatments for cancer, your heart may enlarge.

- **Weakness of the heart muscle (cardiomyopathy).** Cardiomyopathy is the thickening and stiffening of heart muscle. In early stages of cardiomyopathy, you may have no symptoms. As the condition worsens, your heart may enlarge to try to pump more blood to your body.
- **A heart condition you're born with (congenital heart defect).** Many types of congenital heart defects may lead to an enlarged heart, as defects can affect blood flow through the heart, forcing it to pump harder.
- **Abnormal heartbeat (arrhythmia).** If you have an arrhythmia, your heart may not pump blood as effectively as it would if your heart rhythm were normal. The extra work your heart has to do to pump blood to your body may cause it to enlarge.
- **High blood pressure in the artery connecting your heart and lungs (pulmonary hypertension).** If you have pulmonary hypertension, your heart may need to pump harder to move blood between your lungs and your heart. As a result, the right side of your heart may enlarge.
- **Low red blood cell count (anemia).** Anemia is a condition in which there aren't enough healthy red blood cells to carry adequate oxygen to your tissues. Left untreated, chronic anemia can lead to a rapid or irregular heartbeat. Your heart must pump more blood to make up for the lack of oxygen in the blood when you're anemic. Rarely, your heart can enlarge if you have anemia for a long time and you don't seek treatment.
- **Thyroid disorders.** Both an underactive thyroid gland (hypothyroidism) and an overactive thyroid gland (hyperthyroidism) can lead to heart problems, including an enlarged heart.
- **Excessive iron in the body (hemochromatosis).** Hemochromatosis is a disorder in which your body doesn't properly use iron, causing it to build up in various organs, including your heart muscle. This can cause an enlarged left ventricle due to weakening of the heart muscle.
- **Protein buildup in your heart (amyloidosis).** Amyloidosis is a condition in which abnormal proteins circulate in the blood and may be deposited in the heart, interfering with your heart's function. If amyloid builds up in your heart, it can cause it to enlarge.

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Risk factors

You may have a greater risk of developing an enlarged heart if you have any of the following risk factors:

- **High blood pressure.** Having a blood pressure measurement higher than 140/90 millimeters of mercury puts you at an increased risk of developing an enlarged heart.
- **A family history of enlarged heart or cardiomyopathy.** If an immediate family member, such as a parent or sibling, has had an enlarged heart, you may be more susceptible to developing an enlarged heart.
- **Blocked arteries in your heart (coronary artery disease).** If you have coronary artery disease, fatty plaques in the arteries of your heart make it so blood can't easily flow through the vessels of your heart. Your heart has to pump harder to get an adequate amount of blood to the rest of your body, causing it to enlarge.
- **Congenital heart disease.** If you're born with a condition that affects the structure of your heart, you may be at risk for developing an enlarged heart, especially if your condition isn't treated.
- **Valvular heart disease.** The heart has four valves — the aortic, mitral, pulmonary and tricuspid valves — that open and close to direct blood flow through your heart. Valves may be damaged by a variety of conditions leading to narrowing (stenosis), leaking (regurgitation or insufficiency) or improper closing (prolapse). Any of these conditions may cause the heart to enlarge.

Complications

The risk of complications from an enlarged heart depends on the part of the heart that is enlarged and the underlying cause. One of most serious types of enlarged heart is an enlarged left ventricle leading to the possibility of heart failure.

- **Heart failure.** Heart failure occurs when your heart can't pump enough blood to meet your body's needs. Over time, the heart can no longer keep up with the normal demands placed on it. The heart muscle will weaken, and the ventricles stretch (dilate) to the point that the heart can't pump blood efficiently throughout your body.

Other complications of enlarged heart can include:

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- **Blood clots.** Having an enlarged heart may make you more susceptible to forming small blood clots in the lining of your heart. If clots are pumped out of the heart and enter your circulatory system, they can block the blood flow to vital organs, including your heart and brain causing a heart attack or stroke. If clots develop on the right side of your heart, they may travel to your lungs, a dangerous condition called pulmonary embolism.

- **Heart murmur.** For people who have an enlarged heart, two of the heart's four valves — the mitral and tricuspid valves — may not close properly because they become dilated, leading to a backflow of blood. This flow creates sounds called heart murmurs. Heart murmurs are not necessarily harmful, but they should be monitored by your doctor.

- **Cardiac arrest and sudden death.** Some forms of enlarged heart can lead to disruptions in your heart's beating rhythm. Some of these heart rhythms are too slow to move your blood, and some are too fast to allow the heart to beat properly. In either case, these abnormal heart rhythms can result in fainting or, in some cases, cardiac arrest or sudden death.

Preparing for your appointment

If you think you may have an enlarged heart, or are worried about your heart disease risk because of a strong family history, make an appointment with your family doctor. If heart disease is found early, your treatment may be easier and more effective. Eventually, however, you may be referred to a heart specialist (cardiologist).

Because appointments can be brief, and because there's often a lot of ground to cover, it's a good idea to be prepared for your appointment. Here's some information to help you get ready for your appointment, and what to expect from your doctor.

What you can do

- **Be aware of any pre-appointment restrictions.** At the time you make the appointment, be sure to ask if there's anything you need to do in advance, such as restrict your diet. For a cholesterol test, for example, you may need to fast for a period of time beforehand.

- **Write down any symptoms you're experiencing,** including any that may seem unrelated to coronary artery disease.

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- **Write down key personal information,** including a family history of heart disease, stroke, high blood pressure or diabetes, and any major stresses or recent life changes.
- **Make a list of all medications,** as well as any vitamins or supplements that you're taking.
- **Take a family member or friend along,** if possible. Sometimes it can be difficult to soak up all the information provided to you during an appointment. Someone who accompanies you may remember something that you missed or forgot.
- **Be prepared to discuss** your diet and exercise habits. If you don't already follow a diet or exercise routine, be ready to talk to your doctor about any challenges you might face in getting started.
- **Write down questions to ask** your doctor.

Your time with your doctor is limited, so preparing a list of questions will help you make the most of your time together. List your questions from most important to least important in case time runs out. For enlarged heart, some basic questions to ask your doctor include:

- What is likely causing my symptoms or condition?
- What are other possible causes for my symptoms or condition?
- What kinds of tests will I need?
- What is the best course of action?
- What foods should I eat or avoid?
- What's an appropriate level of physical activity?
- How often should I be screened for heart disease? For example, how often do I need a cholesterol test?
- What are the alternatives to the primary approach that you're suggesting?
- I have other health conditions. How can I best manage them together?
- Are there any restrictions that I need to follow?

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- Should I see a specialist?
- Should my children be screened for this condition?
- Is there a generic alternative to the medicine you're prescribing me?
- Are there any brochures or other printed material that I can take home with me? What Web sites do you recommend visiting?

In addition to the questions that you've prepared to ask your doctor, don't hesitate to ask questions during your appointment at any time that you don't understand something.

What to expect from your doctor

Your doctor is likely to ask you a number of questions. Being ready to answer them may reserve time to go over any points you want to spend more time on. Your doctor may ask:

- When did you first begin experiencing symptoms?
- Have your symptoms been continuous, or occasional?
- How severe are your symptoms?
- What, if anything, seems to improve your symptoms?
- What, if anything, appears to worsen your symptoms?

Tests and diagnosis

If you have symptoms of a heart problem, your doctor will perform tests to determine if your heart is enlarged and to find out the underlying cause of your condition. In addition to a physical exam, these tests may include:

- **Chest X-ray.** X-ray images help your doctor see the condition of your lungs and heart. If your heart is enlarged it might first be detected by a chest X-ray, but other tests will usually be needed to find out the specific cause. Your doctor can also use an X-ray to diagnose conditions other than enlarged heart that may explain your signs and symptoms.
- **Electrocardiogram.** This test records the electrical activity of your heart through electrodes attached to your skin. Impulses are recorded as waves

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and displayed on a monitor or printed on paper. This test helps your doctor diagnose heart rhythm problems and damage to your heart from a heart attack as well as give clues to other types of heart disease.

- **Echocardiogram.** An important test for diagnosing and monitoring an enlarged heart is the echocardiogram. An echocardiogram uses sound waves to produce a video image of your heart. In this test all of the chambers of the heart can be evaluated to determine if you do have an enlarged heart and to try and determine the cause. This test determines how efficiently your heart is pumping, assesses your heart valves, can look for evidence of previous heart attacks and can determine if you have congenital heart disease.

- **Cardiac computerized tomography (CT) or magnetic resonance imaging (MRI).** Although more commonly used to check for heart failure, more doctors are using these tests to diagnose heart problems. In a cardiac CT scan, you lie on a table inside a doughnut-shaped machine called a gantry. An X-ray tube inside the machine rotates around your body and collects images of your heart and chest.

  In a cardiac MRI, you lie on a table inside a long tube-like machine that produces a magnetic field. The magnetic field aligns atomic particles in some of your cells. When radio waves are broadcast toward these aligned particles, they produce signals that vary according to the type of tissue they are. Images of your heart are created from these signals, which your doctor will look at to determine the cause of your enlarged heart.

- **Blood tests.** Your doctor may order blood tests to check the levels of certain substances in your blood that may signal that you have an enlarged heart. Blood tests can also help your doctor rule out other conditions that may cause your symptoms.

- **Cardiac catheterization and biopsy.** In this procedure, a thin tube (catheter) is inserted in your groin and threaded through your blood vessels to your heart, where a small sample (biopsy) of your heart can be extracted for analysis in the laboratory. Pressure within the chambers of your heart can be measured to see how forcefully blood pumps through your heart. Pictures of the arteries of the heart can be taken during the procedure (coronary angiogram) to ensure that you do not have any blockage.

Treatments and drugs

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Enlarged heart treatment focuses on correcting the underlying condition.

Medications

If cardiomyopathy or another cause of a weak heart muscle is to blame for your enlarged heart, your doctor may recommend medications to treat heart failure symptoms. These include:

- **Diuretics** to lower the amount of sodium and water in your body, which can help lower the pressure in your arteries and heart, such as furosemide (Lasix), or other diuretics, such as spironolactone (Aldactone), which can help prevent further scarring of your heart tissue
- **Angiotensin-converting enzyme (ACE) inhibitors** to lower your blood pressure and improve your heart's pumping capability, such as enalapril (Vasotec), lisinopril (Zestril, Prinivil), ramipril (Altace) or captopril (Capoten)
- **Angiotensin receptor blockers (ARBs)**, such as losartan (Cozaar) and valsartan (Diovan), for those who can't take ACE inhibitors
- **Beta blockers** to lower blood pressure and improve heart function, such as carvedilol (Coreg) and metoprolol (Lopressor, Toprol-XL)
- **Digoxin**, which can help improve the pumping function of your heart and lessen the need for hospitalization for heart failure

Medical procedures and surgeries

If medications aren't enough to treat your enlarged heart, medical procedures or surgery may be necessary.

- **Medical devices to regulate your heartbeat.** For people who have a certain type of enlarged heart (dilated cardiomyopathy), a special pacemaker that coordinates the contractions between the left and right ventricle (biventricular pacing) may be necessary. In people who may be at risk of serious arrhythmias, drug therapy or an implantable cardioverter-defibrillator (ICD) may be options. ICDs are small devices — about the size of a box of matches — implanted in your chest to continuously monitor your heart rhythm and deliver electrical shocks when needed to control abnormal, rapid heartbeats. The devices can also work as pacemakers. If the main cause of your enlarged heart is due to atrial fibrillation, then you may need procedures to return your heart to regular rhythm or to keep your heart from beating too quickly.

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- **Heart valve surgery.** If your enlarged heart is caused by a problem with one of your heart valves, you may have surgery to remove the narrow valve and replace it with either an artificial valve or a tissue valve from a pig, cow or human-cadaver donor. If you have valve regurgitation, in which blood leaks backward through your valve, the leaky valve may be surgically repaired or replaced.

- **Heart transplant.** If medications can't control your symptoms, a heart transplant may be a final option. Because of the shortage of donor hearts, even people who are critically ill may have a long wait before having a heart transplant.

Lifestyle and home remedies

While you can't cure your enlarged heart with home remedies, there are some things you can do to improve your condition. Your doctor may recommend adopting the following lifestyle changes:

- Quit smoking.
- Lose excess weight.
- Eat a low-salt diet.
- Control diabetes.
- Monitor your own blood pressure.
- Get modest exercise, after discussing with your doctor the most appropriate program of physical activity.
- Eliminate or minimize the amount of alcohol you drink.
- Try to sleep eight hours each night.

Prevention

In most cases you can't prevent your heart from enlarging. Let your doctor know if you have a family history of conditions that can cause an enlarged heart, such as cardiomyopathy. If cardiomyopathy or other heart conditions are diagnosed early, treatments may prevent the disease from worsening.

You can help reduce your chance of developing heart failure by avoiding some of

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the conditions that can contribute to a weak heart, including the abuse of alcohol or cocaine, or not getting enough vitamins and minerals. Controlling high blood pressure with diet, exercise, and possibly medications also prevents many people who have an enlarged heart from developing heart failure later in life. Controlling risk factors for coronary artery disease — tobacco use, high blood pressure, high cholesterol and diabetes — helps to reduce your risk of an enlarged heart and heart failure by reducing your risk of heart attack.

References

May 6, 2009 DS01129

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Attachment

10

EMORY
HEALTHCARE

Advancing the Possibilities

Hydrogen Sulfide Gas Shows Promise for Treating Heart Failure

November 11, 2008

At low concentrations, the toxic gas hydrogen sulfide protects the hearts of mice from heart failure, scientists at Emory University School of Medicine have found.

Their findings, presented Nov. 11 at the American Heart Association (AHA) Scientific Sessions conference in New Orleans, suggest that doctors could use hydrogen sulfide to treat humans with heart failure.

American Heart Association

Best known for its rotten-egg smell, hydrogen sulfide can pose a deadly threat to miners or sewer workers. However, scientists have recently found that enzymes within the body produce the gas in small, physiological amounts, with multiple beneficial effects such as regulating blood pressure and attenuating inflammation.

David Lefer, PhD, professor of surgery at Emory University School of Medicine, and his team created a model of heart failure in mice by blocking their left coronary arteries either temporarily for an hour or permanently, causing part of their heart muscles to die. Hydrogen sulfide was administered intravenously once a day for a week.

John Calvert, PhD, assistant professor of surgery working with Lefer, will present the findings at the AHA Meeting. "Our results show that hydrogen sulfide can blunt the impact of heart failure on heart function and mortality in a mouse model of heart failure," Calvert says.

Four weeks after artery blockage, mice treated with hydrogen sulfide had an ejection fraction, a measure of heart function, about a third larger than controls (36 compared to 27 percent). He and his colleagues also found similar effects in mice engineered to make more of an enzyme that generates hydrogen sulfide.

Heart failure, a leading cause of hospitalization for the elderly, describes a situation when the heart muscle cannot pump enough blood to meet the body's needs. Previous injury to the heart muscle from a heart attack, obesity, diabetes or high blood pressure all are contributing factors.

In a separate presentation, Calvert presented experimental data on how hydrogen sulfide works in the heart. The gas appears to stimulate heart muscle cells to produce their own antioxidants and molecules that stave off programmed cell death, a response to the loss of blood flow.

Both Calvert and Lefer are based at Carlyle Fraser Heart Center at Emory Crawford Long Hospital in Atlanta. Some of the research was performed at Albert Einstein College of Medicine in New York, with Susheel Gundewar, Saurabh Jha and John Elrod.

The research was funded by the National Institutes of Health, the American Diabetes Association and by a research grant from the biotechnology firm Ikaria Holdings. Lefer is a paid consultant for Ikaria, which is developing technology for hydrogen sulfide delivery.

About Emory Heart & Vascular Center

Emory Heart & Vascular Center doctors are committed to providing clinically excellent cardiovascular patient care, pioneering innovative clinical research and training the best heart specialists in the world. A component of Emory Healthcare, the Center is consistently recognized by U.S. News & World Report as one of the top heart centers in the country. Emory Healthcare is the clinical arm of Emory University's Woodruff Health Sciences Center and is the largest, most comprehensive health care system in Georgia.

EPAHO082000636

Attachment

11

Concentra Medical Centers
10909 East Frwy Houston, TX 77029
Phone: (713) 973-7943 Fax: (713) 973-7947

Service Date: 08/20/2008

Physical Exam

Name: (b) (6) [redacted] **SSN:** (b) (6) [redacted] **Date:** 08/20/2008

PHYSICAL EXAM

Weight: 266 Temperature: _____

B/P Resting 136/90 Pulse 80 Repeat B/P _____ , _____

2 min of ex) ____ Pulse ____

Respirations/min 16

Hearing to forced whisper @ 5 feet Rt NL Lt NL

Vision: Uncorrected / Corrected

Near Rt 20/30 Near Rt ____

Lt 20/30 Lt ____

Distant Rt 20/30 Distant Rt ____

Lt 20/15 Lt ____

Visual Fields

Rt 80 o

Lt 90 o

Color NL AB

Depth Perception NL AB

HEENT

Eyes

Globe	NL	AB
Pupils	NL	AB
EOM's	NL	AB
Funduscopic	NL	AB
Ocular Pressure:		
Rt	NL	AB
Lt	NL	AB

Ears

Canal Clear	Y	N
TM Visualized	Y	N
Scarring of TM	N	Y
Drainage	N	Y
Nose	NL	AB
[illegible]	NL	AB
Throat	NL	AB
Skin	NL	AB
Neck	NL	AB
Thyroid	NL	AB
Chest Wall	NL	AB
Lungs	NL	AB

Heart

Rhythm	NL	AB
Auscultation	NL	AB
Abdomen	NL	AB
Abd. surg. scar	N	Y
Hernia		
Umbilical	N	Y
Inguinal	N	Y
Femoral	N	Y
Varicocele	N	Y
Upper Extremity	NL	AB
Hands/Fingers	NL	AB
Legs	NL	AB
Knees	NL	AB
Knee surg. scar	N	Y
Feet/ankles	NL	AB
Varicosities	NL	AB
Up. ext. strength	NL	AB
Up. ext. ROM	NL	AB
Low. ext. strength	NL	AB
Low. ext. ROM	NL	AB
Back/spine ROM	NL	AB
Back surg. scar	N	Y
Neurological Exam:		
Cran. nerves 2-12:	NL	AB

Reflexes

Babinski		~~NL~~ AB
Romberg		NEG POS
Pupillary	Rt	NL AB
	Lt	NL AB
Accom.	Rt	NL AB
	Lt	NL AB
Biceps	Rt	NL AB
	Lt	NL AB
Knee	Rt	NL AB
	Lt	NL AB
Ankle	Rt	NL AB
	Lt	NL AB

Proprioception

Up. Ext.	Rt	NL AB
	Lt	NL AB
Low. Ext.	Rt	NL AB
	Lt	NL AB

Sensory Examination:

Up. Ext.	Rt	NL AB
	Lt	NL AB
Low. Ext.	Rt	NL AB
	Lt	NL AB

OPTIONAL:

Genitalia		NL AB
Breast		NL AB
Rectal		NL AB

Comments: _____

ANCILLARY STUDIES

Urinalysis Spec. Gravity: 1.020 Albumin NEG Sugar NEG Blood NEG

ECG	N/A	NL	AB	See Results
Comments:				
Lumbar X-Ray	N/A	NL	AB	See Results
Comments:				
Chest X-Ray	N/A	NL	AB	See Results
Comments:				
Blood Analysis	N/A	NL	AB	See Results
Comments:				
[illegible]	N/A	NL	AB	See Results
Comments:				

HPE NL AB

Comments: _____

Pulmonary Function Test:
FEV1 ___ FVC ____ FEV1/FVC ___
Respirator Qualified? Y N
Comments: _____

Impairment Rating:
Comments: _____

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EPAHO082000638

NMS Labs
3701 Welsh Road, PO Box 433A, Willow Grove, PA 19090-0437
Phone: (215) 657-4900 Fax: (215) 657-2972
e-mail: nms@nmslabs.com
Robert A. Middleberg, PhD, DABFT, DABCC-TC, Laboratory Director

CONFIDENTIAL

Toxicology Report

Report Issued 01/03/2009 11:00

To: **10240**
Southeast Texas Forensic Ctr.-Beaumont
Attn: Dr. Tommy Brown
5030 Highway 69 South, Ste.700
Beaumont, TX 77705

Patient Name	(b) (6)
Patient ID	08-1253
Chain	10973687
Age	36 Y
Gender	Male
Workorder	08361311

FILED
APR 27 2009
Justice Court, Pct. 8

Positive Findings:

Compound	Result	Units	Matrix Source
Caffeine	Positive	mcg/mL	Blood
Cotinine	Positive	ng/mL	Blood
Nicotine	Positive	ng/mL	Blood
Theobromine	Positive	mcg/mL	Blood
Acetaminophen	4.6	mcg/mL	Blood

See Detailed Findings section for additional information

Specimens Received:

ID	Tube/Container	Volume/ Mass	Collection Date/Time	Matrix Source	Miscellaneous Information
001	Gray Top Tube	10.75 mL	12/19/2008	Blood	

All sample volumes/weights are approximations.

Specimens received on 12/30/2008.

Testing Requested:

Analysis Code	Description
8052B	Postmortem Toxicology - Expanded, Blood

v.3

POSTMORTEM EXAMINATION ON THE BODY OF

(b) (6) [redacted]

HISTORY: This 36 year old Caucasian male was found dead at 3:00 p. m. on December 18, 2008, at Christus Hospital - St. Mary in Port Arthur, Texas.

AUTOPSY: The autopsy was performed by Dr. Tommy J. Brown at the request and upon the written authorization of The Honorable Tom Gillam, III, Justice of the Peace, Precinct 8, Jefferson County, Texas, beginning at 6:45 a.m. on December 19, 2008, in the Southeast Texas Forensic Center, Inc., DBA: Jefferson County Morgue.

CLOTHING: The decedent was nude. The body was enclosed within two body bags. A strong chemical odor exuded from the body through both sealed body bags. A third body bag accompanied the body and held two plastic bags that contained clothing that had been cut away from the decedent's body. It also had a strong chemical odor. One of the plastic bags contained a pair of blue undershorts, a pair of blue gym shorts, a green shirt with "CES Environmental Services" written on the left upper chest, a pair of blue denim trousers, a black weave belt and a pair of white socks. In the other red plastic bag was a red medical blanket. All the clothing had a strong chemical odor. All were placed in a biohazard bag and submitted to OSHA at their request for testing.

PERSONAL PROPERTY: Within the right front trousers pocket was a blue and silver colored pocket knife. Accompanying the body was a Samsung cell phone. There was no other personal property on or accompanying the body.

EVIDENCE OF MEDICAL INTERVENTION: An oral airway was present within the mouth. Adhesive defibrillator/ ECG/ pacing electrodes were present over the right upper and left lower lateral chest. ECG electrode discs were present on the lateral right and left shoulders.

EXTERNAL APPEARANCE: The body was that of a white male that measured 74 inches in length, weighed 255 pounds and appeared the stated age of 36 years. There was full rigor mortis. The hair was brown mixed with some blonde streaks and measured $1^{5}/_{8}$ inches in length. There was congestion of the head and neck with distention of the neck veins. There was a purple coloration that extended from the top of the head to the nipple line across the chest. The eyes were closed; the conjunctivae were mildly congested; the corneae were clear; the irides were hazel to green. There were small areas of coalescent hemorrhage of the conjunctivae of the eyes. Several small petechiae were present over the forehead and upper face. There was a small amount of bloody like fluid that exuded from the nostrils along with foamy fluid. The nose and ears were otherwise unremarkable. Vomitus was present along the lower left side of the mouth and the lower left jaw area. The teeth were natural. There were no abrasions, contusions or lacerations of the inner mucosa of the lips. The neck was symmetrical and without scars or evidence of trauma. The chest was symmetrical and without scars or evidence of trauma. The abdomen was mildly protuberant and without palpable masses. There was a 1¼ inch abrasion to the left of the umbilicus. There were no identifiable scars of the abdomen. The pubic hair was small in quantity. The penis appeared circumcised. Both testicles were palpable within the scrotal sac. There were small scars of the knees and anterior lower legs. There was a tattoo of the name "Amber" and what looked like "Sam" on the proximal left lower leg. Other tattoos were present on the back of the left lower leg. There was a scabbed abrasion that measured $^{5}/_{8}$ of an inch on the proximal medial left lower leg. There was a tattoo of a head of a large cat on the lateral left upper arm and a tattoo that appeared to be a dragon. There was a tattoo of dice on the back of the left hand. Several transverse scars were present on the mid left forearm that extended down to on top of the lateral left wrist area. There were transverse scars on the anterior left wrist that appeared to be three in number. The lateral right shoulder had tattooed initials that were indiscernible. On the back of the right wrist was a tattoo of the name "Ashley". There was an orange-like coloration of the right hand. There was a tattoo of an indiscernible word in the web space of the right hand. The back had dependent posterior fixed lividity with blanching over the pressure areas. The back had a large tattoo on the left upper and mid back of various figures. There was a 2¾ by 1¼ inch scabbed abrasion on the back of the right forearm. The body had a strong chemical odor.

INTERNAL EXAMINATION: The body was opened with a Y-shaped thoracoabdominal incision to reveal fat and red-brown muscles of the upper anterior thorax. The abdominal panniculus at the level of the umbilicus measured 2 inches. The organs were in their usual locations and had normal anatomic relationships to one another. There was no fluid within the peritoneal or the pleural cavities. A small amount of serous fluid was present in the pericardial sac. Mucus was present within the nostrils and the upper airway.

CARDIOVASCULAR SYSTEM: The heart weighed 470 grams. It had a smooth and glistening epicardial surface with a moderate amount of fat. The coronary arteries followed a normal distribution. There was concentric moderate atherosclerosis of the left anterior descending coronary artery. The right coronary artery and circumflex had mild to moderate atherosclerosis. On sectioning, the myocardium was red-brown. There was no fibrosis. The walls of the right and left ventricles were of normal thickness. The cardiac valves were of normal size and had thin pliable cusps. The aorta had mild proximal atherosclerosis that became mild to moderate in the more distal portion.

RESPIRATORY SYSTEM: The right lung weighed 820 grams and the left weighed 730 grams. The upper pleural surfaces were dark gray and became darker in the more dependent portions. On sectioning, hemorrhagic and foamy fluid exuded from the cut surfaces along with a variegated appearance. There was no tumor or pulmonary emboli.

HEPATOBILIARY SYSTEM: The liver weighed 2,500 grams. It had a dark brown external and cut surface. There was no tumor, infectious process or hemorrhage. The gallbladder contained less than 5 milliliters of a viscid green bile. There were no stones. The hepatobiliary ducts were patent.

SPLEEN: The spleen weighed 430 grams. It had a purple-gray intact capsule. On sectioning, the parenchyma was red-brown. The Malpighian corpuscles were prominent.

ADRENALS: Both adrenal glands were surrounded by a moderate amount of fat. On sectioning, the cortices were yellow and of normal thickness. The medullae were gray-tan and unremarkable.

EPAHO082000642

DEPARTMENT OF HEALTH AND HUMAN SERVICES • NATIONAL [illegible]

Calculate Your Body Mass Index

National Heart Lung and Blood Institute • [illegible]

Body mass index (BMI) is a measure of body fat based on height and weight that applies to both **adult** men and women.

- Enter your weight and height using Standard or Metric measures.
- Click on "Compute BMI" and your BMI will appear in the heart of the figure.

Español

STANDARD METRIC

Your Height: 6 (feet) 2 (inches)

Your Weight: 255 (pounds)

Compute BMI

Your BMI: 32.7

BMI Categories:

- Underweight = <18.5
- Normal weight = 18.5-24.9
- Overweight = 25-29.9
- Obesity = BMI of 30 or greater

The BMI Tables

Aim for a Healthy Weight:

- **Assessing Your Risk**
- **Limitations of the BMI**
- **Controlling Your Weight**
- **Recipes**

Note: If this does not work with your browser or for a text alternative to this page, go to our CGI based BMI Calculator

EPAHO082000643

Attachment

13

General Affidavit

STATE OF New Mexico
COUNTY OF Eddy

BEFORE ME, the undersigned Notary, Becky Neel, on this 8th day of June, 2009, personally appeared William B. Wood known to me to be a credible person and of lawful age, who being by me duly sworn, on his oath, deposes and says:

"My name is William Brad Wood. I am over 21 years of age. I was an employee on December 18, 2008, at the Port Arthur Chemical and Environmental Services, LLC ("PACES") plant site at the time Joey Sutter passed away. I have personal knowledge of the PACES operations.

At approximately 14:00 hours. I climbed on top of Trailer 267, Suzi Mock had informed me that she and Joey Sutter were to take a sample of the product from Trailer 267. Joey was instructing Suzi on how to open the dome lid and retrieve a sample.

Joey had just began loosening one of the dome lid fasteners when he began bleeding from his nose and collapsed on top of the dome lid. Joey was face-down with his upper torso inside the crash box, face lying on the dome lid, and his legs dangling off the side of the trailer. Suzi Mock was with Joey Sutter. The dome lid was not opened.

I instructed Suzi that we needed to roll Joey over in order to begin reviving him. I was afraid Joey had suffered a heart attack and that emergency response crews would not get there in time to properly help Joey and get him off the top of the trailer.

After Joey had been taken to the hospital emergency responders arrived back at PACES and were talking with Brian Weathers. Brian, after talking with emergency responders told me that the emergency response crew believed that Joey had suffered from a pulmonary embolism because Joey's chest was blue and this was classic sign of Pulmonary Embolism.

William B. Wood
(Signature of Affiant)

William B. Wood
(Printed Name of Affiant)

4015 E. Lindbergh Ct. Baytown, TX. 77521
(Home Address, City & State, Zip)

STATE OF New Mexico
COUNTY OF Eddy

Sworn to and subscribed before me on this 8th day of June, 2009,
by William B Wood

BECKY NEEL
NOTARY PUBLIC
STATE OF NEW MEXICO

Becky Neel
(Notary Public Signature)
1-25-11

EPAHO082000645

General Affidavit

STATE OF TEXAS

COUNTY OF Jefferson

BEFORE ME, the undersigned Notary, Patricia Grace Kruger, on this 11 day of June, 2009, personally appeared Suzi Mock known to me to be a credible person and of lawful age, who being by me duly sworn, on her oath, deposes and says:

My name is Suzi Mock. I am over 21 years of age. I was an employee on December 18, 2008 at the Port Arthur Chemical and Environmental Services, LLC ("PACES") plant site at the time Joey Sutter passed away. I have personal knowledge and experience with the situation during the incident involving Joey Sutter. During the morning and afternoon of December 18, 2008 my personal monitor for the hydrogen sulfide did not sound an alarm warning. My personal hydrogen sulfide monitor alarm was set at 10 ppm for hydrogen sulfide on December 18, 2008. I was with Joey Sutter when we were on top of Trailer 267. When Joey collapsed on top of the trailer, I held his body so he would not fall from the trailer. During the time I was on top of Trailer 267 with Joey I did not personally become ill from any hydrogen sulfide gas. Joey did not open the dome lid on top of Trailer 267. He started to untwist one of the many hold down clamps of the dome lid when he collapsed."

Suzi Mock
(Signature of Affiant)

Suzi Mock
(Printed Name of Affiant)

2121 Norma St
(Street Address of Affiant, Line 1)

Port Arthur TX 77640
(City, State, Zip of Affiant, Line 2)

STATE OF TEXAS

COUNTY OF Jefferson

Sworn to and subscribed before me on this 11 day of June, 2009, by Patricia Grace Kruger.

SEAL

Patricia Grace Kruger
Notary Public
State of Texas
My Commission Expires
May 29, 2010

Patricia Grace Kruger
(Notary Public Signature)

6

COPY

FILED
LOREN JACKSON
DISTRICT CLERK
HARRIS COUNTY, TEXAS
2009 FEB -4 AM 9:03
BY DEPUTY

CAUSE NO. 2009-07076

THE CITY OF HOUSTON, TEXAS, **Plaintiff,**	§	**IN THE DISTRICT COURT**
v.	§	**HARRIS COUNTY, TEXAS**
CES ENVIRONMENTAL SERVICES, INC., **Defendant.**	§	281 **JUDICIAL DISTRICT**

PLAINTIFF'S ORIGINAL PETITION

The City of Houston, Texas ("the City"), files this Plaintiff's Original Petition against Defendant CES Environmental Services, Inc. ("CES") and would respectfully show as follows:

INTRODUCTION

This lawsuit is a civil proceeding in which the City seeks to remedy an on-going pattern of common law and statutory violations on the part of CES that have continuously threatened and adversely affected the public health, safety, and welfare.

DISCOVERY

1. Pursuant to Texas Rule Civil Procedure 190.3, the City intends to conduct discovery under Level 2.

PARTIES

2. Plaintiff City is a home-rule municipal corporation of the State of Texas located principally in Harris County. TEX. LOC. GOV'T. CODE § 5.004.

3. Defendant CES is a corporation organized under the laws of the State of Texas with its principal place of business at 4904 Griggs Road in Houston. CES may be served with process by serving its registered agent, Matt Bowman, at 4904 Griggs Road, Houston, Texas 77021, or wherever he may be found.

JURISDICTION AND VENUE

4. This Court has jurisdiction of this cause pursuant to TEX. CIV. PRAC. & REM. CODE § 65.021(a).

5. Venue is proper in this Court pursuant to TEX. CIV. PRAC. & REM. CODE § 65.023(a) because Defendant CES is domiciled within the jurisdiction of this Court.

6. Jurisdiction and venue are also proper since the City may enforce its own ordinances in the district court in which it is located, i.e. Harris County, Texas. TEX. LOCAL GOV'T CODE §§ 54.012 and 54.013. The remedies provided under the Nuisance Ordinance are cumulative of all other remedies available to the City. *Id.*

FACTUAL BACKGROUND

7. CES is a "person" as that term is defined in HOUSTON, TEX., CODE OF ORDINANCES § 1-2.

8. Since June 2002, CES has operated a multi-purpose industrial facility property at or in the immediate vicinity of 4904 Griggs Road in Houston (the "Facility").

9. The Facility is less than one-half mile from several residential neighborhoods, including Grand Park, Riverside Terrace, and MacGregor Terrace, as well as numerous schools, churches, and retail establishments. The property line of the Facility abuts the property lines of homes and one school, and industrial equipment is maintained within a yard of the property lines.

10. Between October 3, 2005 and December 16, 2008, the City received over 200 complaints of strong and noxious odors from residents living in the surrounding neighborhoods. The investigated each complaint, and verified that strong and noxious odors that injure or endanger the public welfare were present. Based on these findings, the City issued 51 Notices of Violation ("NOVs") to CES for emitting "strong, off-site odors" in violation of the City's Nuisance Ordinance, HOUSTON, TEX., CODE OF ORDINANCES at ch. 10, art. XI, § 10-451.

11. On October 6, 2008, a tanker truck caught on fire at the Facility. On December 6, 2008, a thermal oxidizer exploded, shaking houses, breaking windows and cracking walls in several houses and sending large, jagged pieces of metal flying several hundred feet into the surrounding neighborhood. Just ten days later, on December 16, 2008, another explosion occurred, again shaking houses in the surrounding neighborhood.

CAUSES OF ACTION

12. The City re-alleges and incorporates by reference the preceding paragraphs.

COUNT I: COMMON LAW PUBLIC NUISANCE AND NUISANCE PER SE

13. CES has a legal duty to prevent noxious emissions and explosions from its Facility that constitute a public nuisance. CES's conduct interferes with a public right because it adversely affects a considerable part of the community. CES's repeated and on-going failures are unreasonable and continue to endanger the health, safety, and welfare of the public and constitute a public nuisance under Texas common law.

14. In addition, CES's conduct constitutes a statutory nuisance based on its violations of HOUSTON, TEX., CODE OF ORDINANCES at ch. 10, art. XI, § 10-451.

15. Further, based on the violations of the above statutes, CES's conduct constitutes nuisance per se because CES's activities constitute a nuisance at all times, under any circumstances.

COUNT II: VIOLATIONS OF CITY NUISANCE ORDINANCE

16. CES allowed the escape of gases, dusts, fumes, mists and sprays to such an extent that the same, or any of them, were or were likely to become hazardous to health or a source of discomfort to persons living or passing in the vicinity of the Facility. Such actions and inactions by CES have repeatedly violated the City's Nuisance Ordinance, HOUSTON, TEX., CODE OF ORDINANCES § 21-164(a)(1).

17. City seeks the maximum fine of $2,000 for each NOV issued. HOUSTON, TEX., CODE OF ORDINANCES at ch. 10, art. XI, § 10-451(d); see also, TEX. LOCAL GOV'T CODE § 54.017 (authority to seek civil penalties for enforcement of city ordinances).

PRAYER FOR RELIEF

19 Plaintiff City of Houston respectfully requests the Court to levy a fine no less than $102,000 for violations of the City's ordinance against neighborhood nuisances.

13. Plaintiff City of Houston respectfully requests that CES reimburse the City for its costs and expenses, including its administrative and legal expenses, attorneys' fees and court costs.

14. Plaintiff City respectfully requests any other relief this Court deems appropriate.

WHEREFORE, PREMISES CONSIDERED, the City of Houston requests that Defendant, CES Environmental Services, Inc., be cited to appear herein; that the City obtain relief against Defendant in keeping with the allegations set out above, together with all costs of court, and that the Court grant such other relief, temporary and permanent, in equity and in law, to which the City is entitled.

Respectfully Submitted,

BERG & ANDROPHY

David H. Berg
State Bar No. 02187000
Christopher L. Gadoury
State Bar No. 24034448
3704 Travis Street
Houston, Texas 77002
Telephone: 713.529.5622
Facsimile: 713.529.3785

ATTORNEYS FOR PLAINTIFF

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of **PLAINTIFF'S ORIGINAL PETITION** has been forwarded via certified mail delivery and electronic mail on this the 4th day of February, 2009, to the following counsel of record:

Robert M. Howard
LATHAM & WATKINS LLP
600 West Broadway, Suite 1800
San Diego, CA 92101-3375

Peter Thompson
THOMPSON & REILLEY, P.C.
600 Travis Street, Suite 7350
Houston, Texas 77002

ATTORNEYS FOR DEFENDANT,
CES ENVIRONMENTAL SERVICES, INC.

FILED
LOREN JACKSON
DISTRICT CLERK
HARRIS COUNTY, TEXAS
2009 FEB -4 AM 9:03
BY _____ DEPUTY

7

Texas Commission on Environmental Quality
Investigation Report
CES ENVIRONMENTAL SERVICES INC
CN600618946

CES ENVIRONMENTAL SERVICES
RN100693282

Investigation # 727090 **Incident #**

Investigator: GARY FOGARTY

Site Classification
INDUSTRIAL USER-APPROVED PT PROGRAM

Conducted: 11/05/2008 -- 11/05/2008

SIC Code: 4212
NAIC Code: 562219

Program(s): PRETREATMENT

Investigation Type : Compliance Investigation

Location : 4904 GRIGGS RD

Additional ID(s) :

Address: 4904 GRIGGS RD; HOUSTON, TX 77021

Activity Type : REGION 12 - HOUSTON
PTRCAPPIU - PT IU Recon - Approved Programs

Principal(s) :

Role	Name
RESPONDENT	CES ENVIRONMENTAL SERVICES INC

Contact(s) :

Role	Title	Name	Phone	
Regulated Entity Contact	HSE MANAGER	MR KARL GUIDRY	Work	(713) 676-1460
Regulated Entity Contact	HSE MANAGER	PRABHAKAR THANGUDU	Work	(713) 676-1460
Regulated Entity Contact	PRESIDENT	MR MATT BOWMAN	Work	(713) 826-1329

Other Staff Member(s) :

Role	Name
Investigator	ARON ATHAVALEY
QA Reviewer	BARBARA SULLIVAN
Supervisor	BARBARA SULLIVAN
Investigator	BARBARA JOHNSTON
Investigator	SHARAREH RAFATI

Associated Check List

Checklist Name	Unit Name
PRETREATMENT IU IN APPROVED PROGRAM RECONNAISSANCE	CES Environmental 727090

Investigation Comments :

INTRODUCTION
An investigation of CES Environmental Services, which is an industrial user (IU) of the City of Houston Pretreatment Program, was conducted on November 5, 2008 to assist other TCEQ Houston Region investigators and determine compliance with applicable pretreatment regulations. This investigation was part of a multimedia investigation carried out by the TCEQ Houston Region Air and Waste Sections. The facility was not notified of the investigation due to this being a complaint

investigation. Sharareh Rafati, was the TCEQ Houston Region Air Section Environmental Investigator, Aron Athavaley and Barbara Johnston, Environmental Investigators from the TCEQ Houston Region Office Waste Section were present during the investigation. An exit interview, explaining the results of the investigation, was conducted on November 5, 2008 with Matt Bowman, President, Prabhakar Thangudu, Health Safety and Environment Manager, and Karl Guidry, Health, Safety and Environment Manager. No exit interview form was issued concerning pretreatment regulations as this investigation was performed in support for the Air and Waste Sections. Mr. Bowman, Mr. Thangudu, and Mr. Guidry were notified that findings concerning pretreatment issues would be forwarded to the City of Houston as the City is the designated Control Authority and as such has jurisdiction. A copy of the TCEQ Exit Interview Form was received by Mr. Thangudu from the Air and Waste Sections. Mr. Clyde Smith, Environmental Investigator IV, Industrial Wastewater Service, Department of Public Works and Engineering of the City of Houston was notified of the investigation's findings relating to pretreatment issues.

GENERAL FACILITY AND CURRENT PROGRAM INFORMATION
CES Environmental Services discharges treated process wastewater to the City of Houston Sims Bayou Wastewater Treatment Facilities (WWTF). The Sims Bayou WWTF has a Texas Pollutant Discharge Elimination System (TPDES) Permit, Number (No.) WQ0010495-002; EPA ID. No. TX0062201. The Sims Bayou WWTP has had past incidences of interference attributed to industrial users including CES Environmental Services.

BACKGROUND INFORMATION
The most recent Pretreatment Audit of the City of Houston pretreatment program was conducted on January 8, 2007. The audit included a site investigation of CES Environmental Service by Rebecca Villalba, TCEQ Central Office Pretreatment Auditor. The findings of the Audit included failure to require an adequate sample point at the end of pipe for CES Environmental Services, Inc. for monitoring local limits without entering enclosed CES Environmental Services' property. The City has had a new sample point installed for monitoring wastewater to determine compliance with the City's local limits. The last TCEQ pretreatment comprehensive compliance investigation (pCCI) was conducted on April 28, 2008. An additional issue related to the pCCI was resolved and did not involve CES Environmental Services. The last EPA pretreatment compliance investigation (PCI) was performed June 30, 2003. No violations were found. A review of the self-reported effluent quality data indicated numerous violations at the Sims Bayou WWTF during 2006. These violations were attributed to industrial users. The latest effluent violation at Sims Bayou WWTP was for total suspended solids (TSS) during the month of January 2008 with a reported concentration of 33 mg/L which exceeded the maximum permitted concentration of 25 mg/L. The POTW has experienced plant upsets, interference, or pass through of pollutants to the receiving water attributable to industrial users (IUs) since the last pCCI. The City conducted investigations and found the responsible parties and followed the enforcement response plan (ERP) to deal with them.

ADDITIONAL INFORMATION:
As mentioned above, CES Environmental Services is an industrial user of the City of Houston pretreatment program. The facility is permitted by the City of Houston Department of Public Works and Engineering Wastewater Operations Industrial Wastewater Service to clean the interiors of truck tanker trailers, drums, and to receive and treat metal bearing wastes, oily wastes, and organic chemical wastes. CES Environmental Services is subject to applicable pretreatment standards contained in 40 CFR §§437.16, .26, .36 and 442.16(b). 40 CFR Part 437-Centralized Waste Treatment Point Source Category (CWT) pertains to the process wastewater generated from the metal wastes treatment, oily wastes treatment, and organic chemicals waste treatment. 40 CFR Part 442 - Transportation Equipment Cleaning Point Source Category (TEC) applies to the process wastewater generated from the cleaning of interiors of truck tanker trailers. Neither regulation is applicable to the process wastewater generated from the cleaning of drums. However, the regulations and EPA policy do allow this wastestream to be treated as if were subject to either regulations. Therefore, the drum cleaning wastestream is not considered to be diluting either of the other regulated wastestreams.

CES ENVIRONMENTAL SERVICES SITE INVESTIGATION:

CES Environmental Services has about 150 employees. The hours of operation are 6:00 am to 6:00 pm Monday through Friday, 6:00 am through 12:00 pm Saturday. During the week the oil receiving area shuts down at 5:00 pm. The primary SIC Code is 1542.
The site has two Industrial Waste Permits issued by the City of Houston. The permits pertain primarily to the TEC facility and the CWT facility. The TEC facility is located towards the back of the site while the CWT facility is located in a building located at the front of the site. Adjacent to the TEC cleaning facility is the drum cleaning building. Located between the drum cleaning building and the CWT building is the old TEC building. The site currently obtains approximately 20% of its business from the TEC facility. The CWT facility is about 80% of the operation.

There are several sample points used at the site to determine compliance with applicable pretreatment standards. Sample Point #1 is located next to Griggs Road next to the Centralized Waste Treatment building. Sample Point #1 is used for determining compliance with the City of Houston local limits. The City has 24 hour access to this sample point which meets the requirement of the last Pretreatment Audit. There are three additional sample points for the three CWT wastestreams. The Category A sample point is for the wastewater generated from the treatment of metal bearing wastes. The Category B sample point is for wastewater generated from the treatment of oily wastes. The Category C sample point is for monitoring wastewater generated from the treatment of organic wastes. Under the CWT regulation, oils in the oily wastes and organic wastes wastestreams must have been derived from petroleum. These wastestreams must not contain wastes from food processors or food service establishments.

The current truck wash cleaning facility cleans the interiors of truck tanker trailers. The facility implements a pollution management plan instead of monitoring for applicable categorical pretreatment standards. Under the pretreatment regulations the pollution management at CES Environmental Services is in itself an applicable pretreatment standard. Any deviation from the pollution management plan as stated in the City of Houston Industrial Waste permit constitutes a violation of the applicable pretreatment standard.

The facility tests each heel from a trailer to determine compatibility of the waste before it is sent to the heel storage tank. Tanker trailers with large heels or incompatible heels are sent back to the customer so that the residue can be removed before the trailer is accepted for cleaning. The first flush or rinse is also sent to the heel storage tank. Once the heel tank is full, it is profiled and either sent to the CWT facility for treatment as an oily waste or organic chemical waste or discharged directly to Sample Point #1. Most loads from the heel storage tank are treated as organic chemical wastes.

The drum cleaning wastes are also treated the same as the truck cleaning facility. Residues are sent to the heel storage tank along with first rinses.

The facility also handles used motor oil. If any wastewater is generated, it is sent to the oily wastes section of the CWT facility. Best management practices were in place to reduce spills in the oil off-loading area. The waste oil storage area included a fume scrubber. Wastewater from the scrubber is sent to the CWT facility.

The facility has also expanded to include what was once a machine shop. Metal fabrication and repairs are still being done. No solvents are used in the metal fabrication area although some painting occurs. The facility was observed cleaning a large diameter pipe or conduit between the drum cleaning building and the old TEC shed. When asked about the metal cleaning process the facility representatives explained that the metal is carbon steel. The steel under goes a caustic wash and rinse, then a citric acid rinse, then a light passivation rinse which uses sodium nitrite. The facility representatives were told that the passivation rinse is a conversion coating process which makes the entire metal cleaning operation subject to applicable pretreatment standards in 40 CFR Part 433 - Metal Finishing point Source Category. The wastewater from the metal cleaning process flows to the CWT metals treatment wastestream for treatment. It was explained that the addition of the metal finishing process should require an additional sample point and specific reporting requirements. It is unclear if the City was aware of the new process. The facility was told that the

City of Houston would be notified of the findings.

The City of Houston was contacted December 8, 2008 via e-mail concerning the findings at CES Environmental Services.

CONCLUSION: The findings of this investigation concerned the addition of an industrial process subject to metal finishing regulations. The findings were forwarded to the City of Houston. The City of Houston notified the TCEQ that CES Environmental Services had removed the metal finishing process. Therefore, a new sample point to determine compliance with applicable pretreatment standards in 40 CFR Part 433 will not be needed.

No Violations Associated to this Investigation

Description	Additional Comments
Item #1	The facility had initiated an industrial process subject to applicable pretreatment standards in 40 CFR Part 433 without proper notification to the City of Houston. This issue has been referred to the City of Houston, which is the designated control authority

Signed _____ Date 2/13/2009
Environmental Investigator

Signed _____ Date 2/13/09
Supervisor

Attachments: (in order of final report submittal)

___Enforcement Action Request (EAR)
___Letter to Facility (specify type) : _____
Investigation Report
___Sample Analysis Results
___Manifests
___NOR
___Maps, Plans, Sketches
___Photographs
___Correspondence from the facility
_1_Other (specify) :
e-mail between TCEQ, EPA, City of Houston, and CES
Checklist

EXIT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name	CES Environmental Services, Inc.				**TCEQ Add. ID No.** **RN No (optional)**	HG-1270-B RN 100-693-282	
Investigation Type	ARSV	**Contact Made In-House (Y/N)**	Y	**Purpose of Investigation**	Compliance with Air Quality Regulations		
Regulated Entity Contact	Prabhakar Thangudu			**Telephone No.**	713-676-1460	**Date Contacted**	11/21/2008
Title	HSE Manager			**E-mail:**	Pthangudu@cesenvironental.com	**Date E-mailed:**	11/21/2008

NOTICE: The information provided in this Note is intended to provide clarity to issues that have arisen to the date of this Note during the investigation process between the agency and the company and *does not represent agency findings related to violations*. Any potential or alleged violations discovered after the date of this Note will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in this investigation's final report.

Issue		**For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe.**	
No.	**Type[1]**	**Rule Citation (if known)**	**Description of Issue**
1	AV	116.116(a)(1)	Failure to maintain monitoring records for carbon adsorber units which are represented in PBR 83191
2	AV	116.116(a)(1)	Failure to maintain scrubber maintenance/monitoring records for PBR 83191
3	AV	116.116(a)(1)	Failure to provide sufficient vapor pressure records to demonstrate compliance with PBR 83798
4	AV	116.110(a)(4)	Failure to obtain proper authorization for processing Sulfurized Isobutylene (registered under PBR 84713)
5	AV	116.115(b)(2)(E)	Failure to maintain a copy of Truck Washing permit exemption application (X-15890) on site
6	RR	117.2045(a)	Provide records for each of the three boilers, including annual fuel usage and records of test results per 117.2035(e).

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	☒ Yes ☐ No
Did the investigator advise the regulated entity representative that continued operation is not authorized?	☒ Yes ☐ No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

Sharareh Rafati	11/21/2008	Prabhakar Thangudu	11/21/2008
Investigator Name (Signed &Printed)	**Date**	**Regulated Entity Representative Name (Signed & Printed)**	**Date**

If you have questions about any information on this form, please contact your local TCEQ Regional Office.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

EPAHO08200658

EXIT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name	CES Environmental Services, Inc.				**TCEQ Add. ID No.** **RN No (optional)**	HG-1270-B RN 100-693-282	
Investigation Type	ARSV	**Contact Made In-House (Y/N)**	Y	**Purpose of Investigation**	Compliance with Air Quality Regulations		
Regulated Entity Contact	Prabhakar Thangudu			**Telephone No.**	713-676-1460	**Date Contacted**	11/21/2008
Title	HSE Manager			**E-mail:**	Pthangudu@cesenvironental.com	**Date E-mailed:**	11/21/2008

NOTICE: The information provided in this Note is intended to provide clarity to issues that have arisen to the date of this Note during the investigation process between the agency and the company and *does not represent agency findings related to violations.* Any potential or alleged violations discovered after the date of this Note will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in this investigation's final report.

Issue		**For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe.**	
No.	**Type**[1]	**Rule Citation (if known)**	**Description of Issue**
6	RR		Provide a copy of all applicable SOPs including but not limited to Wastewater Treatment and Truck Washing
7	RR		Provide a copy of the application for Truck Washing exemption X -15980.
8	RR		Provide the list of trucks allowed to be washed from CES Access Database.
9 V	RR		Provide the list of trucks cleaned from 1/1/08 to present cross referenced to their contents.
10	RR		Provide emissions data for Truck Washing activities from 1/1/08 to present.
11	RR		Provide copies of manifests for wastewater shipped off-site for treatment from 1/1/08 to present.
12	RR		Provide the diagram for the centrifuge.

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	☒ Yes ☐ No
Did the investigator advise the regulated entity representative that continued operation is not authorized?	☒ Yes ☐ No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

Sharareh Rafati	11/21/2008	Prabhakar Thangudu	11/21/2008
Investigator Name (Signed &Printed)	**Date**	**Regulated Entity Representative Name (Signed & Printed)**	**Date**

If you have questions about any information on this form, please contact your local TCEQ Regional Office.

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EPAHO082000659

Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 08, 2009

CERTIFIED MAIL 7001 2510 0000 7360 9180
RETURN RECEIPT REQUESTED

Mr. Matt Bowman, President
CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021

Re: Notice of Enforcement for Compliance Investigation at:
CES Environmental Services
4904 Griggs Road, Houston, TX 77021
RN-100-693-282; HG-1270-B; Investigation 720985

Dear Mr. Bowman:

In November and December 2008, Sharareh Rafati of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for air quality. During this investigation, certain outstanding alleged violations were documented. Enclosed is a summary which lists the investigation findings.

In the listing of alleged violations, the applicable requirements have been cited, including TCEQ rules. If you would like to obtain a copy of the applicable TCEQ rules, you may contact any of the sources listed in the enclosed brochure entitled *Obtaining TCEQ Rules*.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violations.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable. But where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

Re: Notice of Enforcement for Compliance Investigation at:
CES Environmental Services
4904 Griggs Road, Houston, TX 77021
RN-100-693-282; HG-1270-B; Investigation 720985

Also, if you believe the violations documented in this notice have been cited in error, and you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request meeting, send a letter describing the additional information to the address shown below.

Manager, Air Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Ms. Rafati in the Houston Region Office at 713-767-3604.

Sincerely,

Billie C. Zaporteza
Air Section Team Leader
Houston Region Office

VBZ/SGR/ug

cc: Mr. Arturo Blanco, Bureau Chief, Bureau of Air Quality Control, Houston Department of Health & Human Services, 7411 Park Place, Houston, TX 77087

Mr. Badruddin Z. Karachiwala, Division Director, Environmental Public Health, Harris County Public Health and Environmental Services, Post Office Box 6031, Pasadena, TX 77056

Mr. Prabhakar Thangugu, HSE Manager, CES Environmental Services, Inc., 4904 Griggs Rd., Houston, TX 77021

Enclosures: Summary of Investigation Findings
Obtaining TCEQ Rules

[redacted]

CES ENVIRONMENTAL SERVICES **Investigation # 720985**

4904 GRIGGS RD **Investigation Date: 11/05/2008**

HOUSTON, HARRIS COUNTY, TX 77021

Additional ID(s): 86272
84713
86772
83798
83191
75375
HG1270B
15980
44513

[redacted]

Track No: 352895 **Compliance Due Date: To Be Determined**

30 TAC Chapter 106.8(c)(2)(A)
30 TAC Chapter 106.8(c)(2)(B)
5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 720985 Comment Date: 12/23/2008

As a result of investigation No. 720985 conducted in November and December 2008, the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office determined that CES Environmental Services, Inc. (CES) failed to maintain monitoring records for carbon adsorber units represented in the Methylene Chloride PBR 83191, failed to maintain scrubber maintenance/monitoring records for the Methylene Chloride scrubber represented in PBR 83191, and failed to demonstrate compliance with certified emission limitations for processing of Methylene Chloride represented in PBR 83191. This is a violation of 30 TAC 106.8(c)(2), which states "Owners or operators of all other facilities authorized to be constructed and operate under a PBR must retain records as follows: (1) maintain a copy of each PBR and the applicable general conditions of §106.4 of this title or the general requirements, if any, in effect at the time of the claim under which the facility is operating. The PBR and general requirements claimed should be the version in effect at the time of construction or installation or changes to an existing facility, whichever is most recent. The PBR holder may elect to comply with a more recent version of the applicable PBR and general requirements; (2) maintain records containing sufficient information to demonstrate compliance with the following: (A) all applicable general requirements of §106.4 of this title or the general requirements, if any, in effect at the time of the claim; and (B) all applicable PBR conditions."

This further constitutes a violation of Texas Health and Safety Code 382.085(b) which states that a person may not cause, suffer, allow, or permit the emission of any air contaminant or the performance of any activity in violation of any commission rule or order.

Track No: 352897 **Compliance Due Date: To Be Determined**

30 TAC Chapter 106.8(c)(2)(A)
30 TAC Chapter 106.8(c)(2)(B)
5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 720985 Comment Date: 12/23/2008

EPAHO082000662

As a result of investigation No. 720985 conducted in November and December 2008, the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office determined that CES Environmental Services, Inc. (CES) failed to provide sufficient vapor pressure records to demonstrate compliance with the Oil Recovery processing PBR 83798. The emission data were provided from January 1, 2007 through November 14, 2008. The actual vapor pressures of the various treated oil stocks were not used to calculate the actual emissions from the operations. Therefore, it is unknown whether or not the emission limitations certified in the PBR were actually met. In the absence of vapor pressure data the actual emissions cannot be calculated. This is a violation of 30 TAC This is a violation of 30 TAC 106.8(c)(2), which states "Owners or operators of all other facilities authorized to be constructed and operate under a PBR must retain records as follows: (1) maintain a copy of each PBR and the applicable general conditions of §106.4 of this title or the general requirements, if any, in effect at the time of the claim under which the facility is operating. The PBR and general requirements claimed should be the version in effect at the time of construction or installation or changes to an existing facility, whichever is most recent. The PBR holder may elect to comply with a more recent version of the applicable PBR and general requirements; (2) maintain records containing sufficient information to demonstrate compliance with the following: (A) all applicable general requirements of §106.4 of this title or the general requirements, if any, in effect at the time of the claim; and (B) all applicable PBR conditions."

This further constitutes a violation of Texas Health and Safety Code 382.085(b) which states that a person may not cause, suffer, allow, or permit the emission of any air contaminant or the performance of any activity in violation of any commission rule or order.

Track No: 352898 **Compliance Due Date: To Be Determined**
30 TAC Chapter 117.2035(e)

Alleged Violation:
Investigation: 720985 Comment Date: 12/19/2008

As a result of investigation No. 720985 conducted in November and December 2008, the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office determined that CES Environmental Services, Inc. (CES) failed to meet testing requirements for three boilers by March 31, 2005. This is a violation of 30 TAC 117.2035(e), which states "(e) Testing requirements. The owner or operator of any unit subject to §117.2010 of this title shall comply with the following testing requirements.
(1) Each unit must be tested for NOX , carbon monoxide (CO), and O2 emissions."

This further constitutes a violation of Texas Health and Safety Code 382.085(b) which states that a person may not cause, suffer, allow, or permit the emission of any air contaminant or the performance of any activity in violation of any commission rule or order.

Track No: 352899 **Compliance Due Date: To Be Determined**
30 TAC Chapter 117.2045(a)(1)
5C THSC Chapter 382.085(b)

Alleged Violation:
Investigation: 720985 Comment Date: 12/19/2008

As a result of investigation No. 720985 conducted in November and December 2008, the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office determined that CES Environmental Services, Inc. (CES) failed to meet recordkeeping requirements for three boilers by March 31, 2005. This is a violation of 30 TAC 117.2045(e), which states "(a) Recordkeeping. The owner or operator of a unit subject to §117.2010 of this title (relating to Emission Specifications) or claimed exempt under §117.2003(b) of this title (relating to Exemptions) shall maintain written or electronic records of the data specified in this subsection. Such records must be kept for a period of at least five years and must be made

available upon request by authorized representatives of the executive director, the United States Environmental Protection Agency, or local air pollution control agencies having jurisdiction. The records must include: (1) records of annual fuel usage;..."

This further constitutes a violation of Texas Health and Safety Code 382.085(b) which states that a person may not cause, suffer, allow, or permit the emission of any air contaminant or the performance of any activity in violation of any commission rule or order.

[redacted]

Track No: 352894
30 TAC Chapter 106.262(3)
5C THSC Chapter 382.085(b)

Alleged Violation:
Investigation: 720985 Comment Date: 12/23/2008

As a result of investigation No. 720985 conducted in November and December 2008, the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office determined that CES Environmental Services, Inc. (CES) failed to obtain timely authorization for the Methylene Chloride processing operations. The records provided by CES show that the Methylene Chloride processing operations were conducted as early as June 29, 2007 while the application for the operations was submitted on October 19, 2007. Therefore, the Methylene Chloride processing operations were conducted without authorization at least for 112 days from June 29, 2007 through October 19, 2007. This is a violation of 30 TAC 106.262(3), which states "Notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, D values, and a description of pollution control equipment, if any."

This further constitutes a violation of Texas Health and Safety Code 382.085(b) which states that a person may not cause, suffer, allow, or permit the emission of any air contaminant or the performance of any activity in violation of any commission rule or order.

Recommended Corrective Action: No further action is required to resolve this

Resolution: The required notification was submitted by CES on October 19, 2007.

Track No: 352896
30 TAC Chapter 106.262(3)
5C THSC Chapter 382.085(b)

Alleged Violation:
Investigation: 720985 Comment Date: 12/23/2008

As a result of investigation No. 720985 conducted in November and December 2008, the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office determined that CES Environmental Services, Inc. (CES) failed to obtain timely authorization for the Oil Recovery processing activities. The records provided by CES show that the Oil Recovery operations were conducted as early as January 2, 2007 while the application for the operations was submitted on January 2, 2008. Therefore, the Oil Recovery operations were conducted without authorization at least for 365 days from January 2, 2007 through January 2, 2008. This is a violation of 30 TAC 106.262(3), which states "Notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, D values, and a description of pollution control equipment, if any."

EPAHO082000664

This further constitutes a violation of Texas Health and Safety Code 382.085(b) which states that a person may not cause, suffer, allow, or permit the emission of any air contaminant or the performance of any activity in violation of any commission rule or order.

Recommended Corrective Action: No further action is required to resolve this violation.

Resolution: The required notification was submitted on January 2, 2008.

[redacted]

Description
Item #7

Additional Comments

CES is located in a residential community surrounded by residences and at least four sensitive receptors, including three schools and a church, which exist within an 800-ft radius; one school is adjacent to the site and abuts its western perimeter. This site does not operate under a permit that requires Best Available Control Technology (BACT) and is not required to have an operating permit; therefore, it is not regularly investigated by the TCEQ.

During the last 3 years, CES was investigated by the City of Houston Bureau of Air Quality Control (COH-BAQC) 196 times and was issued 96 citations or notices of violations for nuisance odor. Fines and correctional directives have been initiated by the COH-BAQC. In addition, the site has experienced a fire and two explosions within the last 2 months; the explosions were investigated on December 8 and 17, 2008 and will be included in a separate report.

EPAHO082000665

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
713-676-1460 Tel
713-676-1676 Fax

February 10, 2009

Manager, Air Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P. O. Box 13087
Austin, Texas 78711-3087

RE: Notice of Enforcement for Emission Event Investigation at:
CES Environmental Services
4904 Griggs Road, Houston, TX 77021
RN 100-693-282; HG-1270-B; Investigation 720985

Dear Sir/Madam:

CES Environmental Services, Inc. (CES) is hereby responding to the alleged violations referenced in the Notice of Enforcement (NOE) dated January 08, 2009 to describe the corrective actions that have been taken and to request an enforcement meeting to present additional information that may be serve to eliminate or resolve some of the violations cited. Each alleged violation is addressed below in the order it appeared in the NOE.

1. Alleged violation
30 TAC 106.8(c)(2)(A) and (B) – Failed to maintain monitoring records for carbon adsorber units for the Methylene Chloride PBR 83191; failed to maintain scrubber maintenance/monitoring records for the Methylene Chloride scrubber represented in PBR 83191; and failed to demonstrate compliance with certified emission limitations for processing of Methylene Chloride represented in PBR 83191.

Response
As described in the November 26, 2008 written response by CES to the TCEQ Exit Interview issued on November 21, 2008, a formal inspection and record keeping log was implemented for both the scrubber and carbon beds on November 24, 2008. The corrective action was therefore completed on November 24, 2008.

2. Alleged Violation
30 TAC 106.8(c)(2)(A) and (B) – Failure to provide sufficient vapor pressure records to demonstrate compliance with the Oil Improvement Processing PBR 83798.

Response
It appears from the description provided for this alleged violation that TCEQ does not accept the vapor pressure data from the MSDS provided during the November 19, 2008 inspection and used in the 2007 and 2008 estimate of actual emissions. In response, CES has undertaken sampling of the various oil stocks processed to analyze for vapor pressure. The results will be used to estimate actual emissions for PBR compliance determination. CES is prepared to present sampling data to address this matter at the requested enforcement meeting.

3. Alleged Violation
30 TAC 2035(e) – Failed to meet testing requirements for three boilers by March 31, 2005.

Response
One of the three boilers referenced is a small natural gas fired unit with a design maximum fuel firing capacity of less than 2.0 MMBtu/hr. According to 30 TAC 117.2003(a)(1) boilers with a maximum rated capacity of 2.0 MMBtu/hr or less are exempt from the requirements of 30 TAC Chapter 117, Subchapter D, Division 1 and therefore do not require testing. CES is prepared to provide information regarding the maximum firing capacity of this boiler at the requested meeting.

Regarding the corrective action for the remaining two boilers, please be aware that stack testing has been scheduled to validate compliance with the NOx and CO emission standards of 30 TAC 117.2010(c) and (i). A stack test report summarizing the test results and describing the test methods used will be submitted to TCEQ within 60 days following completion of testing.

4. Alleged Violation
30 TAC 117.2045(a)(1) – Failed to meet recordkeeping requirements for three boilers by March 31, 2005.

Response
As discussed above, one of the three boilers referenced has a design maximum fuel firing capacity of less than 2.0 MMBtu/hr. According to 30 TAC 117.2003(a)(1), boilers with a maximum rated capacity of 2.0 MMBtu/hr or less are exempt from the requirements of 30 TAC Chapter 117, Subchapter D, Division 1. CES is prepared to provide information regarding the maximum firing capacity of this boiler at the requested enforcement meeting.

Regarding the remaining two boilers, CES has prepared records of 2008 fuel usage to comply with 30 TAC 117.2045(a)(1). Please be aware that while the two boilers are subject to the requirements of 30 TAC Chapter 117, Subchapter D, Division 1, they are not subject to the requirements of 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade). That is, the design NOx emission potential from these two units is less than 10TPY

applicability threshold in 30 TAC 101.351(a). As such, the boilers are not required to install, calibrate, and maintain totalizing fuel flow meters (see 30 TAC 117.2035(a)) unless claiming exemption from the requirements of this Division (including testing) under 30 TAC 117.2003(b). Since TCEQ has alleged a violation for not conducting stack testing (above), then part of the basis for that violation is that CES cannot claim exemption from testing under 30 TAC 117.2003(b). If exemption under 30 TAC 117.2003 is not applicable, then records of fuel usage need not be derived from totalizing fuel flow meters. The records generated for the 2008 operating period were developed from gas supply bills by subtracting fuel usage by the thermal oxidizer and distributed based on estimated hours of operation for each boiler. CES believes these fuel use records are sufficient to demonstrate compliance with the rule cited and the alleged violation should be dismissed.

5. Alleged Violation
30 TAC 106.262(3) – Failed to obtain timely authorization for Methylene Chloride processing operations.

Response
CES understands that no further action is required by TCEQ to resolve this alleged violation.

6. Alleged Violation
30 TAC 106.262(3) – Failed to obtain timely authorization for Oil Recovery processing activities.

Response
The Oil Improvement Process PBR (registration 83798) addresses several process streams including wet base oil stock, oily water, and mixed molecular weight solvents in water. Emissions associated with the wet base oil and oily water streams were authorized under 30 TAC 106.261. Emissions associated with the mixed molecular weight solvents handling were authorized under 30 TAC 106.261 and 106.262 for the chemicals involved. CES has information regarding the processing of the mixed solvents stream that may reduce the period of non-compliance alleged in the NOE.

We look forward to meeting with you and/or your staff to discuss the alleged violations, the status of corrective actions, and the additional information prepared to address those violations we believe have been cited in error.

CES has already requested a meeting with TCEQ in connection with Investigation No. 722419. CES further pleads for a single meeting to address these two investigations (Investigation No. 722419 and Investigation No.720985).

Yours truly,

Prabhakar R. Thangudu
HSE Manager

cc: Mr. Arturo J. Blanco, Bureau Chief, Bureau of Air Quality Control, Houston Department of Health & Human Services, 7411 Park Place Blvd., Houston, Texas 77087

Mr. Badruddin Karachiwala, Division Director, Environmental Public Health, Harris County Public Health & Environmental Services, P.O. Box 6031, Pasadena, Texas 77506

Mr. Billie C. Zaporteza, Air Section Team Leader, TCEQ/Houston Region Office, Region 12, 5425 Polk St., Ste. H, Houston, Texas 77023-1452

Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 16, 2009

CERTIFIED MAIL 7007 0710 0000 5338 9772
RETURN RECEIPT REQUESTED

Matt Bowman
Registered Agent for CES Environmental Services, Inc.
4904 Griggs Road
Houston, Texas 77021

Re: Notice of Enforcement for Emission Event Investigation at:
CES Environmental Services, Inc.
4904 Griggs Road, Houston (Harris County), Texas
Incident Nos. 117520 & 117522; Initial Investigation No. 722419
Regulated Entity No.: RN 100-693-282; TCEQ Additional ID No.: HG-1270-B

Dear Sir/Madam:

On December 8, 2008, Mr. Robert Aguilar of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for air quality. During this investigation, certain outstanding alleged violations were documented. Enclosed is a summary which lists the investigation findings.

In the listing of alleged violations, the applicable requirements have been cited, including TCEQ rules. If you would like to obtain a copy of the applicable TCEQ rules, you may contact any of the sources listed in the enclosed brochure entitled *Obtaining TCEQ Rules*.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violations.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable. But where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

Also, if you believe the violations documented in this notice have been cited in error, **and** you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

EPAHO082000670

Re: Notice of Enforcement for Emission Event Investigation at:
CES Environmental Services, Inc.
4904 Griggs Road, Houston (Harris County), Texas
Incident Nos. 117520 & 117522; Initial Investigation No. 722419
Regulated Entity No.: RN 100-693-282; TCEQ Additional ID No.: HG-1270-B

Manager, Air Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Mr. Aguilar in the Houston Region Office at 713.767.3747.

Sincerely,

Laura L. Burnett
Emissions Event Team Leader, Air Section
TCEQ / Houston Region Office

LLB/RA/kro

cc: Mr. Badruddin Karachiwala, Division Director, Environmental Public Health, Harris County Public Health & Environmental Services, P.O. Box 6031, Pasadena, Texas 77506

Mr. Arturo J. Blanco, Bureau Chief, Bureau of Air Quality Control, Houston Department of Health & Human Services, 7411 Park Place Blvd, Houston, Texas 77087

Mr. Prabhakar Thangudu, HSE Manager, CES Environmental Services, Inc., 4904 Griggs Road, Houston, Texas 77021

Enclosures: Summary of Investigation Findings
Obtaining TCEQ Rules

Summary of Investigation Findings

CES ENVIRONMENTAL SERVICES **Investigation # 722419**
4904 GRIGGS RD **Investigation Date: 12/08/2008**
HOUSTON, HARRIS COUNTY, TX 77021

Additional ID(s): 83798
HG1270B

Track No: 353328 **Compliance Due Date: To Be Determined**
30 TAC Chapter 106.262(a)(2)
5C THSC Chapter 382.085(b)

Alleged Violation:
Investigation: 722419 Comment Date: 01/14/2009

As a result of the emissions event investigation (Investigation #722419), conducted on December 8, 2008, the Texas Commission on Environmental Quality Houston Region Office (TCEQ) determined that the emissions event that occurred on December 6, 2008 at CES Environmental Services, Inc. (CES) did not meet the demonstration criteria necessary for an affirmative defense. CES failed to prevent an over-pressure from an MEK-rich vapor stream which caused the blower and thermal oxidizer to rupture and resulted in an explosion that released 239 pounds of methyl ethyl ketone (MEK) to the atmosphere for 13 minutes. Therefore, this constitutes a violation of 30 TAC 106.262(a)(2), which states "New or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation E=L/K." It was determined that the E value for MEK was 1.8 pounds per hour.

Additionally, this constitutes a violation of the Texas Health and Safety Code 382.085(b), which states that a person may not cause, suffer, all or, or permit the emission of any air contaminant or the performance of any activity in violation of this chapter or of any commission rule or order.

Recommended Corrective Action: The regulated entity should develop and implement procedures to ensure that the MEK distillation unit is properly operated and maintained.

Track No: 353329 **Compliance Due Date: To Be Determined**
30 TAC Chapter 106.262(a)(3)
5C THSC Chapter 382.085(b)

Alleged Violation:
Investigation: 722419 Comment Date: 01/14/2009

As a result of the emissions event investigation (Investigation #722419), conducted on December 8, 2008, the Texas Commission on Environmental Quality Houston Region Office (TCEQ) determined that CES Environmental Services, Inc., (CES) failed to submit a PI-7 form to the TCEQ for authorization to use methyl ethyl ketone (MEK) in the Oil Recovery process. This constitutes a violation of 30 TAC 106.262(a)(3) which states, "Notification must be provided using Form PI-7 within 10 days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, and data identifying specific chemicals names, L values, D values, and a description of pollution control equipment, if any."

Additionally, this constitutes a violation of the Texas Health and Safety Code 382.085(b), which states that a person may not cause, suffer, all or, or permit the emission of any air contaminant or the performance of any activity in violation of this chapter or of any commission rule or order.

Recommended Corrective Action: The regulated entity should develop and implement procedures to ensure that all chemicals used at the facility are properly represented and authorized by submitting the necessary documentation.

EPAHO082000672

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
713-676-1460 Tel
713-676-1676 Fax

January 26, 2009

Manager, Air Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P. O. Box 13087
Austin, Texas 78711-3087

RE: Notice of Enforcement for Emission Event Investigation at:
CES Environmental Services, Inc.
4904 Griggs Road, Houston (Harris County), Texas
Incident Nos. 117520 & 117522; Investigation No. 722419
Regulatory Entity No.: RN 100-693-282; TCEQ Additional ID No.: HG-1270-B

Dear Sir/Madam:

I would like to request a meeting to discuss the referenced enforcement matter. Additional information is provided below for your consideration.

Alleged Violation 30 TAC Chapter 106.262(a)(2)
TCEQ alleges that the thermal oxidizer event did not meet all the criteria for a claim of affirmative defense against enforcement action resulting from the event. The affirmative defense criteria are specified in 30 TAC 101.222(b) [see attached]. If the affirmative defense criteria are not met, then any emissions resulting from the event that exceed an emission limit in a permit, PBR, or other agency rule may be subject to enforcement. The TCEQ alleges that since the affirmative defense criteria were not met (?) and the amount of the uncontrolled MEK released exceeded the limit in PBR 106.262(a)(2) [i.e. 1.8 lb/hr] then a violation of this PBR limit exists.

Resoponse
First, the emission estimate used to determine emission event reporting applicability under 30 TAC 101.201 was derived from the conservative assumption that the entire vapor volume of the vent header system was saturated with MEK vapor and that all the vapor was released to the atmosphere. The reality may be that the actual amount released

was less, but without quantifiable measurements, the conservative estimate was made. The actual amount released may not be far off from the estimated amount given the circumstances, but it was likely greater than 1.8 lbs. Review the attached affirmative defense criteria and see if you can make a case that the TCEQ's characterization in this regard is wrong. If so, it would eliminate this alleged violation all together. It would be interesting to know which criteria TCEQ thinks CES did not meet.

The PBR documentation for the MEK process includes the controlled emissions from the oil process storage tanks under PBR 106.261, not 106.262. The PBR limit under 106.261 is 1.0 lb/hr (less than the 1.8 lb/hr limit in the NOE). While this seems inconsequential, it is important to address this correction to the rule cited as it affects the second alleged violation below.

Recommendations to Prevent Recurrence:
CES has hired Donald L. Corwin, PE, of Therma-A-Cor Consulting, Inc., 418 Rawlings Rd., Phoenixville, PA 19460 to perform a "root cause analysis" to determine the probable cause of the incident and to make recommendation to prevent future occurrences of such an event. CES will submit a copy of the recommendations to TCEQ once it is available.

Alleged Violation 30 TAC Chapter 106.262(a)(3)
TECQ alleges that CES did not submit a Pl-7 for to register the MEK process PBR within 10 days of handling the stream as required by 30 TAC 106.262(a)(3)..

Response:
Please refer to the attached "Permit-by-Rule Authorization for Recycle Distillation Processing System Methanol and MEK" due to be submitted before March 31, 2009. The process and associated emissions details can be found in this attachment. The process and emissions are authorized under 30 TAC 106.261 and not 106.262. As such, 30 TAC 106.261(a)(7)(B) requires registration of the Pl-7 form and supporting data no later than March 31, 2009 as the process commenced operation in 2008 (see attached rule). This should eliminate the second alleged violation.

In view of these facts, CES believes that the violations documented in this notice have been cited in error and requests a meeting, if necessary, to discuss this enforcement matter.

Yours truly,

Prabhakar R. Thangudu
HSE Manager

cc: Mr. Badruddin Karachiwala, Division Director, Environmental Public Health, Harris County Public Health & Environmental Services, P.O. Box 6031, Pasadena, Texas 77506

Mr. Arturo J. Blanco, Bureau Chief, Bureau of Air Quality Control, Houston Department of Health & Human Services, 7411 Park Place Blvd., Houston, Texas 77087

Ms. Laura L. Burnett, Emissions Event Team Leader, Air Section, TCEQ/Houston Region Office, Region 12, 5425 Polk St., Ste. H, Houston, Texas 77023-1452

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TITLE 30	ENVIRONMENTAL QUALITY
PART 1	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CHAPTER 101	GENERAL AIR QUALITY RULES
SUBCHAPTER F	EMISSIONS EVENTS AND SCHEDULED MAINTENANCE, STARTUP, AND SHUTDOWN ACTIVITIES
DIVISION 3	**OPERATIONAL REQUIREMENTS, DEMONSTRATIONS, AND ACTIONS TO REDUCE EXCESSIVE EMISSIONS**
RULE §101.222	**Demonstrations**

(a) Excessive emissions event determinations. The executive director shall determine when emissions events are excessive. To determine whether an emissions event or emissions events are excessive, the executive director will evaluate emissions events using the following criteria:

(1) the frequency of the facility's emissions events;

(2) the cause of the emissions event;

(3) the quantity and impact on human health or the environment of the emissions event;

(4) the duration of the emissions event;

(5) the percentage of a facility's total annual operating hours during which emissions events occur; and

(6) the need for startup, shutdown, and maintenance activities.

(b) Non-excessive upset events. Upset events that are determined not to be excessive emissions events are subject to an affirmative defense to all claims in enforcement actions brought for these events, other than claims for administrative technical orders and actions for injunctive relief, for which the owner or operator proves all of the following:

(1) the owner or operator complies with the requirements of §101.201 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements). In the event the owner or operator fails to report as required by §101.201(a)(2) or (3), (b), or (e) of this title, the commission will initiate enforcement for such failure to report and for the underlying emissions event itself. This subsection does not apply when there are minor omissions or inaccuracies that do not impair the commission's ability to review the event according to this rule, unless the owner or operator knowingly or intentionally falsified the information in the report;

CES complied with 101.201 because the emissions did not exceed the RQ for NEK.

(2) the unauthorized emissions were caused by a sudden, unavoidable breakdown of equipment or process, beyond the control of the owner or operator;

(3) the unauthorized emissions did not stem from any activity or event that could have been foreseen and avoided or planned for, and could not have been avoided by better operation and maintenance practices or technically feasible design consistent with good engineering practice;

(4) the air pollution control equipment or processes were maintained and operated in a manner consistent with good practice for minimizing emissions and reducing the number of emissions events; N/A. The event was the result of the failure of the pollution control equipment.

(5) prompt action was taken to achieve compliance once the operator knew or should have known that

applicable emission limitations were being exceeded, and any necessary repairs were made as expeditiously as practicable;

(6) the amount and duration of the unauthorized emissions and any bypass of pollution control equipment were minimized and all possible steps were taken to minimize the impact of the unauthorized emissions on ambient air quality;

(7) all emission monitoring systems were kept in operation if possible; N/A. No emission monitoring systems were required by rule or regulation.

(8) the owner or operator actions in response to the unauthorized emissions were documented by contemporaneous operation logs or other relevant evidence;

(9) the unauthorized emissions were not part of a frequent or recurring pattern indicative of inadequate design, operation, or maintenance;

(10) the percentage of a facility's total annual operating hours during which unauthorized emissions occurred was not unreasonably high; and

(11) the unauthorized emissions did not cause or contribute to an exceedance of the national ambient air quality standards (NAAQS), prevention of significant deterioration (PSD) increments, or to a condition of air pollution.

(c) Unplanned maintenance, startup, or shutdown activity. Emissions from an unplanned maintenance, startup, or shutdown activity that are determined not to be excessive are subject to an affirmative defense to all claims in enforcement actions brought for these activities, other than claims for administrative technical orders and actions for injunctive relief, for which the owner or operator proves the emissions were from an unplanned maintenance, startup, or shutdown activity, as defined in §101.1 of this title (relating to Definitions), and all of the following:

(1) for a scheduled maintenance, startup, or shutdown activity, the owner or operator complies with the requirements of §101.211 of this title (relating to Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements). For an unscheduled maintenance, startup, and shutdown activity, the owner or operator complies with the requirements of §101.201 of this title and demonstrates that reporting under §101.211(a) of this title was not reasonably possible. Failure to report information that does not impair the commission's ability to review the activity, such as minor omissions or inaccuracies, will not result in enforcement action and loss of opportunity to claim the affirmative defense, unless the owner or operator knowingly or intentionally falsified the information in the report;

(2) the periods of unauthorized emissions from any unplanned maintenance, startup, or shutdown activity could not have been prevented through planning and design;

(3) the unauthorized emissions from any unplanned maintenance, startup, or shutdown activity were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

(4) if the unauthorized emissions from any unplanned maintenance, startup, or shutdown activity were caused by a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(5) the facility and air pollution control equipment were operated in a manner consistent with good practices for minimizing emissions;

(6) the frequency and duration of operation in an unplanned maintenance, startup, or shutdown mode

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resulting in unauthorized emissions were minimized and all possible steps were taken to minimize the impact of the unauthorized emissions on ambient air quality;

(7) all emissions monitoring systems were kept in operation if possible;

(8) the owner or operator actions during the period of unauthorized emissions from any unplanned maintenance, startup, or shutdown activity were documented by contemporaneous operating logs or other relevant evidence; and

(9) unauthorized emissions did not cause or contribute to an exceedance of the NAAQS, PSD increments, or a condition of air pollution.

(d) Excess opacity events. Excess opacity events due to an upset that are subject to §101.201(e) of this title, or for other opacity events where there was no emissions event, are subject to an affirmative defense to all claims in enforcement actions for these events, other than claims for administrative technical orders and actions for injunctive relief, for which the owner or operator proves all of the following:

(1) the owner or operator complies with the requirements of §101.201 of this title. Failure to report information that does not impair the commission's ability to review the event, such as minor omissions or inaccuracies, will not result in enforcement action and loss of opportunity to claim the affirmative defense, unless the owner or operator knowingly or intentionally falsified the information in the report;

(2) the opacity was caused by a sudden, unavoidable breakdown of equipment or process beyond the control of the owner or operator;

(3) the opacity did not stem from any activity or event that could have been foreseen and avoided or planned for, and could not have been avoided by better operation and maintenance practices or by technically feasible design consistent with good engineering practice;

(4) the air pollution control equipment or processes were maintained and operated in a manner consistent with good practice for minimizing opacity;

(5) prompt action was taken to achieve compliance once the operator knew or should have known that applicable opacity limitations were being exceeded and any necessary repairs were made as expeditiously as practicable;

(6) the amount and duration of the opacity event and any bypass of pollution control equipment were minimized and all possible steps were taken to minimize the impact of the opacity on ambient air quality;

(7) all emission monitoring systems were kept in operation if possible;

(8) the owner or operator actions in response to the opacity event were documented by contemporaneous operation logs or other relevant evidence;

(9) the opacity event was not part of a frequent or recurring pattern indicative of inadequate design, operation, or maintenance; and

(10) the opacity event did not cause or contribute to a condition of air pollution.

(e) Opacity events resulting from unplanned maintenance, startup, or shutdown activity. Excess opacity events, or other opacity events where there was no emissions event, that result from an unplanned maintenance, startup, or shutdown activity that are determined not to be excessive are subject to an affirmative defense to all

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claims in enforcement actions brought for these activities, other than claims for administrative technical orders and actions for injunctive relief, for which the owner or operator proves the opacity resulted from an unplanned maintenance, startup, or shutdown activity, as defined in §101.1 of this title, and all of the following:

(1) for excess opacity events that result from a scheduled maintenance, startup, or shutdown activity, the owner or operator complies with the requirements of §101.211 of this title. For excess opacity events that result from an unscheduled maintenance, startup, and shutdown activity, the owner or operator complies with the requirements of §101.201 of this title and demonstrates that reporting pursuant to §101.211(a) of this title was not reasonably possible. Failure to report information that does not impair the commission's ability to review the event, such as minor omissions or inaccuracies, will not result in enforcement action and loss of opportunity to claim the affirmative defense, unless the owner or operator knowingly or intentionally falsified the information in the report;

(2) the opacity was caused by a sudden, unavoidable breakdown of equipment or process beyond the control of the owner or operator;

(3) the periods of opacity could not have been prevented through planning and design;

(4) the opacity was not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

(5) if the opacity event was caused by a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(6) the facility and air pollution control equipment were operated in a manner consistent with good practices for minimizing opacity;

(7) the frequency and duration of operation in a startup or shutdown mode resulting in opacity were minimized;

(8) all emissions monitoring systems were kept in operation if possible;

(9) the owner or operator actions during the opacity event were documented by contemporaneous operating logs or other relevant evidence; and

(10) the opacity event did not cause or contribute to a condition of air pollution.

(f) Obligations. Subsections (b) - (e) and (h) of this section do not remove any obligations to comply with any other existing permit, rule, or order provisions that are applicable to an emissions event or a maintenance, startup, or shutdown activity. Any affirmative defense provided by subsections (b) - (e) and (h) applies only to violations of state implementation plan requirements. An affirmative defense cannot apply to violations of federally promulgated performance or technology based standards, such as those found in 40 Code of Federal Regulations Parts 60, 61, and 63. The affirmative defense is available only for emissions that have been reported or recorded.

(g) Frequent or recurring pattern. Evidence of any past event subject to subsections (b) - (e) of this section is admissible and relevant to demonstrate a frequent or recurring pattern of events, even if all of the criteria in that subsection are proven.

(h) Planned maintenance, startup, or shutdown activity. Unauthorized emissions or opacity events from a maintenance, startup, or shutdown activity that are not unplanned that have been reported or recorded in compliance with §101.211 of this title are subject to an affirmative defense to all claims in enforcement actions brought for these activities, other than claims for administrative technical orders and actions for injunctive

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relief, for which the owner or operator proves all of the criteria listed in subsection (c)(1) - (9) of this section for emissions, or subsection (e)(1) - (9) of this section for opacity events and the following:

(1) the owner or operator has filed an application to authorize the emissions or opacity by the following dates:

(A) for facilities in Standard Industrial Classification (SIC) code 2911 (Petroleum Refining), one year after the effective date of this section;

(B) for facilities in major group SIC code 28 (Chemicals and Allied Products), except SIC code 2895, two years after the effective date of this section;

(C) for facilities in SIC code 2895 (Carbon Black), four years after the effective date of this section;

(D) for facilities in SIC code 4911 (Electric Services), five years after the effective date of this section;

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TITLE 30	ENVIRONMENTAL QUALITY
PART 1	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CHAPTER 106	PERMITS BY RULE
SUBCHAPTER K	GENERAL
RULE §106.261	**Facilities (Emission Limitations)**

(a) Except as specified under subsection (b) of this section, facilities, or physical or operational changes to a facility, are permitted by rule provided that all of the following conditions of this section are satisfied.

(1) The facilities or changes shall be located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located.

(2) Total new or increased emissions, including fugitives, shall not exceed 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials: acetylene, argon, butane, crude oil, refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene, carbon monoxide, cyclohexane, cyclohexene, cyclopentane, ethyl acetate, ethanol, ethyl ether, ethylene, fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116, helium, isohexane, isopropyl alcohol, methyl acetylene, methyl chloroform, methyl cyclohexane, neon, nonane, oxides of nitrogen, propane, propyl alcohol, propylene, propyl ether, sulfur dioxide, alumina, calcium carbonate, calcium silicate, cellulose fiber, cement dust, emery dust, glycerin mist, gypsum, iron oxide dust, kaolin, limestone, magnesite, marble, pentaerythritol, plaster of paris, silicon, silicon carbide, starch, sucrose, zinc stearate, or zinc oxide.

(3) Total new or increased emissions, including fugitives, shall not exceed 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of §106.262 of this title (relating to Facilities (Emission and Distance Limitations)) or of any other chemical not listed or referenced in Table 262. Emissions of a chemical with a limit value of less than 200 mg/m^3 are not allowed under this section.

(4) For physical changes or modifications to existing facilities, there shall be no changes to or additions of any air pollution abatement equipment.

(5) Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.

(6) For emission increases of five tons per year or greater, notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any.

(7) For emission increases of less than five tons per year, notification must be provided using either:

(A) Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any; or

(B) Form PI-7 by March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year. This annual notification shall include a description of the project, calculations, data identifying

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specific chemical names, limit values, and a description of pollution control equipment, if any.

(b) The following are not authorized under this section:

(1) construction of a facility authorized in another section of this chapter or for which a standard permit is in effect; and

(2) any change to any facility authorized under another section of this chapter or authorized under a standard permit.

Source Note: The provisions of this §106.261 adopted to be effective March 14, 1997, 22 TexReg 2439; amended to be effective December 24, 1998, 23 TexReg 12925; amended to be effective September 4, 2000, 25 TexReg 8653; amended to be effective November 1, 2003, 28 TexReg 9279

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PERMIT-BY-RULE AUTHORIZATION FOR

RECYCLE DISTILLATION PROCESSING SYSTEM

METHANOL AND MEK

Prepared for
CES ENVIRONMENTAL SERVICES, INC.
Houston, Harris County, Texas

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TCEQ §106.261 CHECKLIST

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2 - FACILITY PLOT PLAN

3 - PROCESS FLOW DIAGRAM

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INTRODUCTION

CES Environmental Services, Inc. (CES) operates a tank container cleaning facility at 4904 Griggs Road in Houston, Harris County, Texas (CN600618946, RN100693282) under Texas Commission on Environmental Quality (TCEQ) Permit Exemption No. 15980 and subsequent Permit-By-Rule (PBR) Registration No. 75375. Additional process operations are authorized under PBR Registration Nos. 83798, 84713, 86772. Standard Permit No. 86272 was issued authorizing installation and operation of a thermal oxidizer for vapor control. CES is submitting the enclosed documentation to demonstrate PBR authorization for the operation of a recycling process to produce Methanol or Methyl Ethyl Ketone (MEK) from aqueous feed streams.

The feed streams consist of either a mixture of Methanol, non-volatile polymers and water or a mixture of MEK and water. The streams enter the facility in a truck tank and are pumped into the recycle distillation processing system. The process separates Methanol or MEK from the feed stream by distillation and recovery of the overhead vapor. The residual water remaining from the recycle distillation process is sent to the existing on-site wastewater treatment facility. Further details on these operations can be found in the Process Description section of this registration.

CES is located in the Houston/Galveston ozone nonattainment area and is classified as a minor source for Volatile Organic Compound (VOC) emissions. The emissions increase associated with this project is approximately 1.2 tons per year (tpy) of VOC. As a result, the project does not trigger nonattainment netting.

A PI-7-CERT form, as well as TCEQ §106.4, and §106.261 Checklists, are provided in the Forms section of this report. Emission calculations are provided in Attachment A. A Site Location Map, Facility Plot Plan, and Process Flow Diagram are included in the Figures section.

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1.0 PROCESS DESCRIPTION

A mixture of Methanol, non-volatile polymer solids (primarily Ethylene Vinyl Acetate-Ethylene Vinyl Alcohol Copolymer with small amounts of Ethylene Vinyl Acetate Polymer and Ethylene Vinyl Alcohol Polymer), and water enters the facility through tank truck or other transport vessel. Alternatively, a mixture of MEK and water is received from a tank truck or other transport vessel.

The Methanol mixture may be pumped through a filter to remove the solids if needed and then into the recycle distillation system for processing. When processing the MEK mixture, the feed stream is pumped directly into the recycle distillation system, as filtration is not required.

The recycle distillation system is heated to approximately 120° to 180° F to separate Methanol or MEK from the water. The Methanol or MEK vapor from the recycle distillation process passes through a condenser where it is cooled to approximately 70°F and condensed to liquid form. Emissions of any uncondensed vapor from the distillation system are routed to a diesel scrubber and then to activated carbon drums before being vented to the atmosphere. The condensed material is accumulated in the product tank trailer. The product trailer is also vented to the scrubber/carbon system.

The water remaining from the distillation process is then sent to the existing on-site wastewater treatment facility. The recovered water from the MEK process may be stored in Tanks OT-11 or OT-14 prior to transfer to the wastewater treatment facility. Tanks OT-11 and OT-14 maintain an elevated temperature of approximately 170° when storing the MEK process water. The tanks vent to the existing thermal oxidizer (EPN TO-01) authorized by Standard Permit No. 86272.

EPAHO082000686

2.0 EMISSIONS SUMMARY

Emissions from the Methanol or MEK recovery operation are calculated based on several process steps. Exhaust exiting the carbon units is monitored daily to ensure VOC emitted to the atmosphere remains below 100 ppmv. This limit includes both Methanol and MEK vapors. The emission calculations for all emissions venting through controls are, therefore, conservatively calculated based on the volume displaced and a 100 ppmv concentration of VOC in the carbon bed exhaust. The carbon bed is replaced with fresh carbon when its exhaust concentration reaches 100 ppmv VOC.

Loading and unloading of material to and from the transport vessels is vapor balanced back to the trailer or tank. As a result, there are no emissions from transfer activities except from the disconnecting of transfer lines. Emissions from disconnecting of hoses are calculated assuming the vapor volume inside the hose is saturated with the last material to pass through the hose. It also assumes that all of the liquid residue in the line evaporates and this is calculated using the liquid clingage factor from AP-42 Chapter 7.

Wastewater from the MEK process may contain residual MEK. MEK emissions from storage of the wastewater in tanks OT-11 or OT-14 are calculated using methods specified in AP-42. The tanks vent to the thermal oxidizer (EPN TO-01).

Fugitive emissions from potential leaks at valves, pumps, and connections associated with this project are calculated using the methods and emission factors specified in the TCEQ document "Air Permit Technical Guidance for Chemical Sources: Equipment Leak Fugitives". No credit is taken for fugitive inspections or monitoring.

The emission calculations for the scrubber/carbon system vent conservatively assume a 100 ppmv concentration for both Methanol and MEK for PBR compliance evaluation purposes. The emission total is based on both Methanol and MEK at full production rates. The total project increase is 1.2 tpy, which is well below the level requiring nonattainment or PSD review.

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ATTACHMENT A

EMISSION CALCULATIONS

PBR EVALUATION SUMMARY

Total Emissions

Chemical	CAS	TLV	PBR	Limit		Actual		PBR Compliance	
				lb/hr	tpy	lb/hr	tpy	lb/hr	TPY
Ethylene Vinyl Acetate	24937-78-8	10	N/A	N/A	N/A	0	0	YES	YES
Ethylene Vinyl Alcohol		10	N/A	N/A	N/A	0	0	YES	YES
Ethylene Vinyl Acetate-Ethylene Vinyl Alcohol Copolymer	26221-27-2	10	N/A	N/A	N/A	0	0	YES	YES
Water	7732-18-5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methanol	67-56-1	262	106.261	1.0	4.38	0.283	1.175	YES	YES
Methyl Ethyl Ketone (MEK)	78-93-3	560	106.261	1.0	4.38	0.919	1.198	YES	YES
Diesel	68334-30-5	N/A	106.261	6.0	10.0	0.048	0.003	YES	YES
Total VOC	**N/A**	**N/A**	**N/A**	**N/A**	**25**	**0.981**	**1.202**	**N/A**	**N/A**

Diesel is evaluated as a refinery petroleum faction containing < 10% benzene [106.261(a)(2)]

Notes:
For evaluation purposes, it is conservatively assumed that all process steps can occur in the same hour.
The TLV for Inhalable Particulate Not Otherwise Classified is used for all solid materials.
Total VOC is the sum of emissions for each VOC except that fugitives are counted only once since they were conservatvley estimated for each chemical at 8760 hrs of service.

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CES Environmental Services
Houston, TX
Estimated Tank Emissions - MEK Process Water

DATA ENTRY			
Tank Identification			OT-11 or OT-14
EPN			TO-01
Material Stored			Separated WW
Tank Capacity	Vol., gallons		16,800
Throughput	gallons		200,000
Tank Controlled	Yes/No		Yes
Control Efficiency	e, %		95.00
Shell Height	Hs, ft		20.0
Shell Length	Ls, ft		12.0
Orientation	Vert=1/Horiz=2		1
Fill Rate	gallons/hr		5,000
Molecular Weight, lb/lb-mole			27.162
Vapor Pressure @ Tln, psia	625	R	6.875857
Vapor Pressure @ Tla, psia	630	R	7.649371
Vapor Pressure @ Tlx, psia	635	R	8.487594
Max. Vapor Pressure @ Tlx, psia	635	R	8.487594
ESTIMATED EMISSIONS			
Maximum Hourly Losses	**Lm, lb/hr**		**27.445**
Standing Losses	**Ls, lb/yr**		**718.51**
Working Losses	**Lw, lb/yr**		**1,286.20**
Uncontrolled Total Losses	**Lt, lb/yr**		**2,004.71**
	Lt, ton/yr		**1.0024**
Controlled Total Losses	**Lmc, lb/hr**		**1.3723**
	Ltc, ton/yr		**0.0501**
PHYSICAL PARAMETER CALCULATIONS			
Diameter, D Effective diameter, De			12.0
Avg. Liquid Height	Hl, ft		10.0
Max. Liquid Height	Hlx, ft		19.9
Cone Roof Outage	Hro, ft		0.125
Vapor Space Outage	Hvo, ft		10.125
Vapor space volume	Vv, ft^3		1144.53
Breather vent pressure setting	Pbp, psig		0.03
Breather vent vacuum setting	Pbv, psig		-0.03
Gas Constant	R, psia-ft^3/lb mole-R		10.732
Vapor Density	Wv, lb/ft^3		0.0307
Daily vapor pressure range	^Pv, psia		1.6117
Vapor space expansion factor	Ke		0.286
Vented vapor saturation factor	Ks		0.196
Working Loss Product Factor	Kp		1.00
Net Annual Throughput	Q, bbl/yr		6,190.5
Turnovers	N		15.5
Turnover factor	Kn		1.00

MAX. HRLY LOSSES: Lm = (Lwmax x FR) / (N x Vol)
STANDING LOSSES: Ls = 365 x Vv x Wv x Ke x Ks

WORKING LOSSES: Lw = 0.0010 x Mv x Pva x Q x Kn. x Kp
Lwmax = 0.0010 x Mv x Pvx x Q x Kn. x Kp

UNCONTROLLED
TOTAL HOURLY LOSSES: Lt = (Ls + Lw)
TOTAL ANNUAL LOSSES: Lt = (Ls + Lw) / 2000 lb/ton

CONTROLLED
TOTAL HOURLY LOSSES: Lt = (Ls + Lw) x (1-e/100)
TOTAL ANNUAL LOSSES: Lt = (Ls + Lw) / 2000 lb/ton x (1-e/100)

METEROLOGICAL CALCULATIONS:

Data Location	Houston, TX	ANNUAL	MAX HRLY
Daily avg. liquid surface temp, R	Tla	630.00	630.00
Daily avg. ambient temp, R	Taa	528.25	543.05
Liquid bulk temp, R	Tb	531.33	546.13
Daily solar insulation factor, Btu/ft^2 day	I	1351	1898
Atmospheric pressure, psia	Pa	14.7	14.7
Daily max. ambient temp, R	Tax	539.1	553.6
Daily min. ambient temp, R	Tan	517.4	532.5
Daily vapor temp. range, R	^Tv	41.35	51.33
Daily max. liquid surface temp., R	Tlx	635.00	635.00
Daily min. liquid surface temp., R	Tln	625.00	625.00
Solar absorbance factor	a	0.68	0.68

Tla, Tln, Tlx values based on temperature control

Speciation

Component	vapor wt frac.	Emissions lb/hr	Emissions TPY
Water	0.551	0.7562	0.0276
MEK	0.449	0.6160	0.0225
Total	1.000	1.372	0.050

5330022.calc.xls

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CES Environmental Services
Displacement Calculations
Emissions are routed through carbon adsorption beds with a maximum exhaust concentration of 100 ppmv VOC

PV = nRT
n = PV/RT
n(VOC) = n * C/1,000,000
lb = n*MW = MW(PV/RT)

MW =	32.04	lb/lbmole	Methanol
MW =	72.11	lb/lbmole	MEK
MW =	130	lb/lbmole	Diesel
P =	14.7	psia	
V=	changes with each transfer		
R =	10.73	(psi*ft3)/(lbmole*R)	
T =	80	F =	540 R
C =	100	ppmv VOC	

Emissions from unloading into distillation tank.
The Methanol or MEK mixture is pumped from the incoming tank truck trailer into the recycle distillation tank.

V (hourly) =	5000	gal/hr =	668.45 ft3/hr
V (annual) =	520,000	gal/yr =	69518.72 ft3/yr

	moles/hr	moles/yr
n =	1.70	176.37
n (VOC) =	1.70E-04	1.76E-02

Emissions		
Chemical	**lb/hr**	**tpy**
Methanol	0.00543	0.00028
MEK	0.01223	0.00064
Diesel	0.02205	0.00115

Emissions from distillation tank.
The distillation tank is heated to remove the Methanol or MEK from the water. The overhead vapors are cooled to 80F.
Flow rate is conservatively based on maximum vapor displacement.

V (hourly) =	5000	gal/hr =	668.45 ft3/hr
V (annual) =	520,000	gal/yr =	69518.72 ft3/yr

	moles/hr	moles VOC/hr
n =	1.70	176.37
n (VOC) =	1.70E-04	1.76E-02

Emissions		
Chemical	**lb/hr**	**tpy**
Methanol	0.0054	0.0003
MEK	0.0122	0.0006
Diesel	0.0220	0.0011

Emissions from transfer of recovered material to tank truck (loading)
Methanol or MEK recovered from the distillation process is routed into the product truck tank.

V (hourly) =	800	gal/hr =	106.95 ft3/hr
V (annual) =	260,000	gal/yr =	34759.36 ft3/yr

	moles/hr	moles/yr
n =	0.27	88.19
n (VOC) =	2.71E-05	8.82E-03

Emissions		
Chemical	**lb/hr**	**tpy**
Methanol	0.0009	0.0001
MEK	0.0020	0.0003
Diesel	0.0035	0.0006

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CES Environmental Services
Hose Clearing/Disconnecting Emissions

Hose Length:	30	feet		
Hose Diameter:	3	inch =	0.25	ft
Hose Volume:	0.0491	ft3		
Events Per Year:	104			

Product Loading Hoses:
The liquid hose between the distillation tank and the product tank trailer is blown with air into the tank trailer.
The displaced vapors are included in the loading emissions. The hose is then disconnected.
The remaining saturated vapor volume in the hose is released to the atmosphere.

lb = MW*n = MW(PV/RT)
Vpa = 2.6412 psia

Material	lb/hr	tpy
Methanol	7.17E-04	3.73E-05
MEK	0.00E+00	0.00E+00

Distillation Tank Transfer Hose:
The same calculation can also represent the disconnecting the hose from the inbound truck to the distillation tank.
It is assumed the vapor reminaing in the hose is staurated.
lb = MW*n = MW(PV/RT)

MATERIAL	Liquid Composition (%)	MW (lb/lb-mole)	Mole Fraction	Temperature (F)	VPa (psia)	Emissions	
						(lb/hr)	(tpy)
Methanol	100.00	32.0	3.0169	80	7.968	2.16E-03	1.12E-04
MEK	100.00	72.1	6.7900	80	13.429	8.20E-03	4.26E-04

The non-volatile solids are excluded from the composition to conservatively calculate and evaluate the methanol emissions.

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CES Environmental Services
Fugitive Emissions

Distillation Tank

Component Type	Service	Quantity	Emission Factor	Operating Schedule	Emissions	
					lb/hr	tpy
Valves	Light Liquid	20	0.0035	8760	0.0700	0.3066
Valves	Gas/Vapor	6	0.0089	8760	0.0534	0.2339
Flanges	Light Liquid	42	0.0005	8760	0.0210	0.0920
Flanges	Gas/Vapor	16	0.0029	8760	0.0464	0.2032
Pumps	Light Liquid	2	0.0386	8760	0.0772	0.3381
note: no control efficiency taken.					0.2680	1.1738

Speciation		Emissions	
Material	Wt %	lb/hr	tpy
Methanol	100	0.2680	1.1738
MEK	100	0.2680	1.1738
VOC Max		0.2680	1.1738

Emissions for Methanol and MEK conservatively assume 8760 hours of service each, at 100% concentration. This is conserative because both process streams do not occupy the same equipment at the same time.

EPAHO082000693

FORMS

Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

I. REGISTRANT INFORMATION			
A. TCEQ Customer Reference Number:	CN-600618946	TCEQ Regulated Entity Number:	RN-100693282
Note: If "NO," CN or RN number was entered above; please fill out the required Core Data Form, which will be available in Step II of the submittal process.			
B. Company or Other Legal Customer Name: CES Environmental Services, Inc.			
Company Official Contact Name: Matt Bowman		Title: President	
Mailing Address: 4904 Griggs Road			
City: Houston		State: Texas	Zip Code:77021
Phone No.: 713-676-1460	Fax No.: 713-676-1676	E-mail Address: mbowman@cesenviormental.com	
C. Technical Contact Name: Philip Evans		Title: Director, Technical Services	
Company: The WCM Group, Inc.			
Mailing Address: P.O. Box 3247			
City: Humble		State: Texas	77347
Phone No.: 281-446-7070	Fax No.: 281-446-3348	E-mail Address: pevans@wcmgroup.com	
D. Facility Location Information - Street Address: 4904 Griggs Road			
If "NO," street address, provide written driving directions to the site: (attach description if additional space is needed)			
City: Houston	County: Harris	Zip Code: 77021	
II. FACILITY AND SITE INFORMATION			
A. Name and Type of Facility: CES Environmental Services, Inc.		☒ Permanent ☐ Portable	
B. PBR claimed under **30 TAC § 106** *(List all)*:			
§ 106. 261	§ 106.		
§ 106.	§ 106.		
§ 106.	§ 106.		
Are you claiming a **historical standard exemption or PBR?**		☐ YES ☒ NO	
If "YES," enter effective date and Rule Number:			

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Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

II. FACILITY AND SITE INFORMATION *(continued)*			
C. Is there a previous Standard Exemption or PBR for the facility in this registration? (Attach details regarding changes.)			☐ YES ☒ NO
If "YES," enter Registration Number and Rule Number:			
D. Are there any **other facilities** at this site which are **authorized by an Air Standard Exemption or PBR**?			☒ YES ☐ NO
If "YES," enter Registration Number and Rule Number:	75375, 83798, 84713, 86772	261, 262, 472, 532	
E. Are there any **other air preconstruction permits** at this site?			☐ YES ☒ NO
If "YES," enter Permit Numbers:	X-15980	86272	
Are there any other air preconstruction permits at this site that would be directly associated with this project?			☐ YES ☒ NO
If "YES," enter Permit Numbers:	86272		
F. Is this facility located at a site which is required to obtain a federal operating permit pursuant to 30 TAC Chapter 122?			☐ YES ☒ NO ☐ To be determined
If the site currently has an existing federal operating permit, enter the permit number:			
Identify the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted.			
☐ Initial Application for an FOP	☐ Significant Revision for an SOP	☐ Minor Revision for an SOP	
☐ Operational Flexibility/off Permit Notification for an SOP	☐ Revision for GOP	☐ To be Determined	☒ None
Identify the type(s) issued and/or FOP application(s) submitted/pending for the site. *(Check all that apply)*			
☐ SOP	☐ GOP	☐ GOP application/revision application: Submitted or under APD review.	
☐ SOP application/revision application: submitted or under APD review.		☐ N/A	
G. TCEQ Account Identification Number *(if known)*:	HG 1270 B		
III. FEE INFORMATION			
To determine if a fee is required answer the following question. If "YES," to question III. A., a fee is not required, skip to Section IV. If "NO," to answer II. A., then go to Section III. B. See Section VI. for address to send fee or go to www.2.tceq.state.tx.us/epay to pay online.			
A. Is this registration an update to a previously registered facility and accompanied by a Certification Form solely to establish a federally enforceable emission limit?			☐ YES ☒ NO
B. What is the fee amount?			

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Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

III. FEE INFORMATION *(continued)*			
*If "YES," to any of the following three questions, a **$100** fee is require. Otherwise, a **$450** fee is required.*			
Does this business have less than 100 employees?			☐ YES ☒ NO
Does this business have less than 6 million dollars in annual gross receipts?			☐ YES ☒ NO
Is this registration submitted by a governmental entity with a population of less than 10,000?			☐ YES ☒ NO
C. Check/Money Order or Transaction Number *(Payable to TCEQ)*:	☐ YES ☒ NO	*Was fee **Paid** online?*	☐ YES ☒ NO
Company name of check: The WCM Group Inc.		Fee amount:	$ 450
IV. SELECTED FACILITY REVIEWS <u>ONLY</u>—TECHNICAL INFORMATION			
Note: If claiming one of the following PBRs, complete this section, then skip to Section VI., "Submitting your registration" below:			
Animal Feeding Operations § 106.161, Livestock Auction Facilities § 106.162, Saw Mills § 106.223, Grain Handling, Storage and Drying § 106.283, Auto Body Refinishing Facilities §106.436, and Air Curtain Incinerator § 106.496			
A. Is the applicable PBR checklist attached which shows the facility meets all general and specific requirements of the PBR(s) being claimed? *(If submitting electronically, click "YES.")*			☐ YES ☐ NO
B. Distance from this facility's emission release point to the nearest property line:			feet
Distance from this facility's emission release point to the nearest off-property structure:			feet
V. TECHNICAL INFORMATION INCLUDING STATE AND FEDERAL REGULATORY REQUIREMENTS ***Registrants must be in compliance with all applicable state and federal regulations and standards to claim a PBR.***			
A. Is confidential information submitted and properly marked "**CONFIDENTIAL**" with this registration?			☐ YES ☒ NO
B. Is a process flow diagram or a process description attached?			☒ YES ☐ NO
C. Are emissions data and calculations for this claim attached?			☒ YES ☐ NO
D. Is information attached showing how the **general** requirements (**30 TAC § 106.4**) of the PBR is met for this Registration? (**PBR checklists** may be used, but are optional)			☒ YES ☐ NO
*Note: Please be reminded that if the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under **30 TAC Chapter 101, Subchapter H, Division 3**, the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x emissions from these facilities.*			
E. Is information attached showing how the **specific PBR** requirements are met for this registration? (***PBR checklist** may be used, but are optional*)			☒ YES ☐ NO
F. Distance from this facility's emission release point to the nearest property line:			100 feet
Distance from this facility's emission release point to the nearest off-property structure:			125 feet
Note: In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or at the request of the TCEQ Regional Office or local air pollution control program during an investigation.			

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Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

VI. SIGNATURE FOR CERTIFICATION AND REGISTRATION

The signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. By this signature, the maximum emission rates listed on this certification reflect the maximum anticipated emissions due to the operation of this facility and all representations in this certification of emissions are conditions upon which the facilities and sources will operate. It is understood that it is unlawful to vary from these representations unless the certification is first revised. The signature certifies that to the best of the Responsible Official's knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption or permit by rule and the facility will operated in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. The signature below certifies that, based on information and belief formed after reasonable inquiry, the statements and information above and contained in the attached document(s) are true, accurate, and complete. **If you questions on how to fill out this form or about air quality permits. Please call 512/239-1250.** *Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.*

SIGNATURE: _____ ***(ORIGINAL SIGNATURE REQUIRED)***	DATE:

VII. SUBMITTING COPIES OF THE CERTIFICATION AND REGISTRATION

Copies must be sent as listed below:
Processing delays may occur if copies are not sent as noted.

Who	*Where*	*What*
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753 Fax No.: (512) 239-2123 *(do not follow fax with paper copies)*	Originals Form PI-7, Core Data Form. and all attachments
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check Copy of Form PI-7 and Core Data Form
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ Web site at www.tceq.state.tx.us, or call (512) 239-1250.	Copy of Form PI-7, Core Data Form, and all attachments.
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD Website at www.tceq.state.tx.us/nav/permits/air_permits.html or call (512) 239-1250	Copy of Form PI-7, Core Data Form, and all attachments.

EPAHO082000698

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR PERMITS DIVISION

TITLE 30 TAC § 106.4 "QUICK-CHECK" APPLICABILITY CHECKLIST

Company Name: CES Environmental Services, Inc.
Checklist completed by: The WCM Group, Inc. Date:
Facility Type: Product recovery
Permit(s) by rule claimed: 30 TAC Chapter §106: 261
Project Description (including equipment, materials, and brief process description):

A recovery distillation processing system will produce Methanol or MEK from organic polymer water mixtures.

CO	0.00	NO_X	0.00	VOC	1.20
PM	0.00	SO_2	0.00	Other	0.00

The following questions require a "Yes" or "No" answer to be indicated for this permit by rule claim:

A. Title 30 TAC § 106.4(a)(5): Current Permit by Rule Requirements

Yes X No☐ Have you checked to determine if this exempt project is being claimed under the current version of 30 TAC 106? *If "Yes ", continue to next question If "No ", please contact the Air Permits Division for a copy of the current permit by rule to be claimed.*

B. Title 30 TAC § 106.4(a)(7): Permit by rule prohibition check

Yes☐ No X Are there any air permits under the same account containing permit conditions which prohibit or restrict the use of permits by rule?
If "No ", continue to next question
If "Yes ", permits by rule may not be used or their use must meet the restrictions of the permit.
A new permit or permit amendment may be required.
List permit number(s): _____

C. Title 30 TAC § 106.4(b): Circumvention check

Title 30TAC§ 106.4(b) states "No person shall circumvent by artificial limitations the requirements of§l 16.110 of this title (covering permitting)." Circumvention by artificial limitations may include but is not limited to:
A. dividing a complete project into separate segments to circumvent §106.4(a)(l) limits;
B. claiming feed or production rates below the physical capacity of the project's equipment in order to begin constructing facilities before a permit or permit amendment is approved for full scale operations, particularly when the unit will not be economically viable at less than permitted capacity;
C. claiming a limited chemical list in order to begin constructing facilities before a permit or permit amendment is approved for additional chemicals, particularly when the unit will not be economically viable until the additional chemicals are authorized.

Yes☐ No X Does your project meet any of the criteria listed above?
If "No ", continue to next rule question If "Yes ", a permit y rule may not be claimed.

D. Title 30 TAC § 106.4(c) and (d): Compliance with all Rules

Yes X No☐ Will the facility comply with all rules and regulations of the TCEQ, the intent of the Texas Clean Air Act, and any local permitting or registration requirements? *If "Yes ", continue to next rule question If "No ", a permit by rule may not be claimed.*

E. Title 30 TAC § 106.4(a)(I): Emission limits check

Yes X No☐ The maximum emissions from all facilities at the site, including this permit by rule claim, are less than 25 tpy of any contaminant.
If the answer to this questions is "Yes ", no further review is needed to complete this checklist. Forward all information needed to verify your permit by rule claim to the . If "No ", this checklist cannot be used. Please complete the standard 30 TAC § 106.4 Applicability Checklist.

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Title 30 Texas Administrative Code § 106.261
Permit By Rule (PBR) Checklist
Facilities (Emission Limitations)

Electronic Submittal - Only enter the PI-7 confirmation number here [ ] if submitting electronically.
Hard-Copy Submittal - Print and complete the following checklist.

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.261 (30 TAC § 106.261) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at, www.tceq.state.tx.us/nav/permits/air_permits.html.

CHECK THE MOST APPROPRIATE ANSWER		
	Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached?	X YES ☐ NO ☐N/A
b1	Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect? *If "YES," this PBR cannot be used to authorize emissions from the project*	☐ YES X NO ☐N/A
b2	Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard permit? *If "YES," this PBR cannot be used to authorize emissions from the project*	☐ YES X NO ☐N/A
a1	Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located?	X YES ☐ NO ☐N/A
a2	Are total new or increased emissions, including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials (check all that apply):	☐ YES X NO ☐ N/A

☐ acetylene	☐ helium	☐ propyl ether	☐ limestone
☐ argon	☐ isohexane	☐ sulfur dioxide	☐ magnesite
☐ butane	☐ isopropyl alcohol	☐ alumina	☐ marble
☐ crude oil	☐ methyl acetylene	☐ calcium carbonate	☐ pentaerythritol
☐ carbon monoxide	☐ methyl chloroform	☐ calcium silicate	☐ plaster of paris
☐ cyclohexane	☐ methyl cyclohexane	☐ cellulose fiber	☐ silicon
☐ cyclohexene	☐ neon	☐ cement dust	☐ silicon carbide
☐ cyclopentan	☐ nonan	☐ emery dust	☐ starch
☐ ethyl acetate	☐ oxides of nitrogen	☐ glycerin mist	☐ sucrose
☐ ethanol	☐ propane	☐ gypsum	☐ zinc stearate
☐ ethyl ether	☐ propyl alcohol	☐ iron oxide dust	☐ zinc oxide
☐ ethylene	☐ propylene	☐ kaolin	

☐ refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene
☐ fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116

a3	Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of 30 TAC § 106.262 of this title (relating to Facilities (Emission and Distance Limitations)? List chemical: Methanol / MEK L value: 262 / 590	X YES ☐ NO ☐ N/A
	Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262? List chemical: _____	☐ YES ☐ NO XN/A

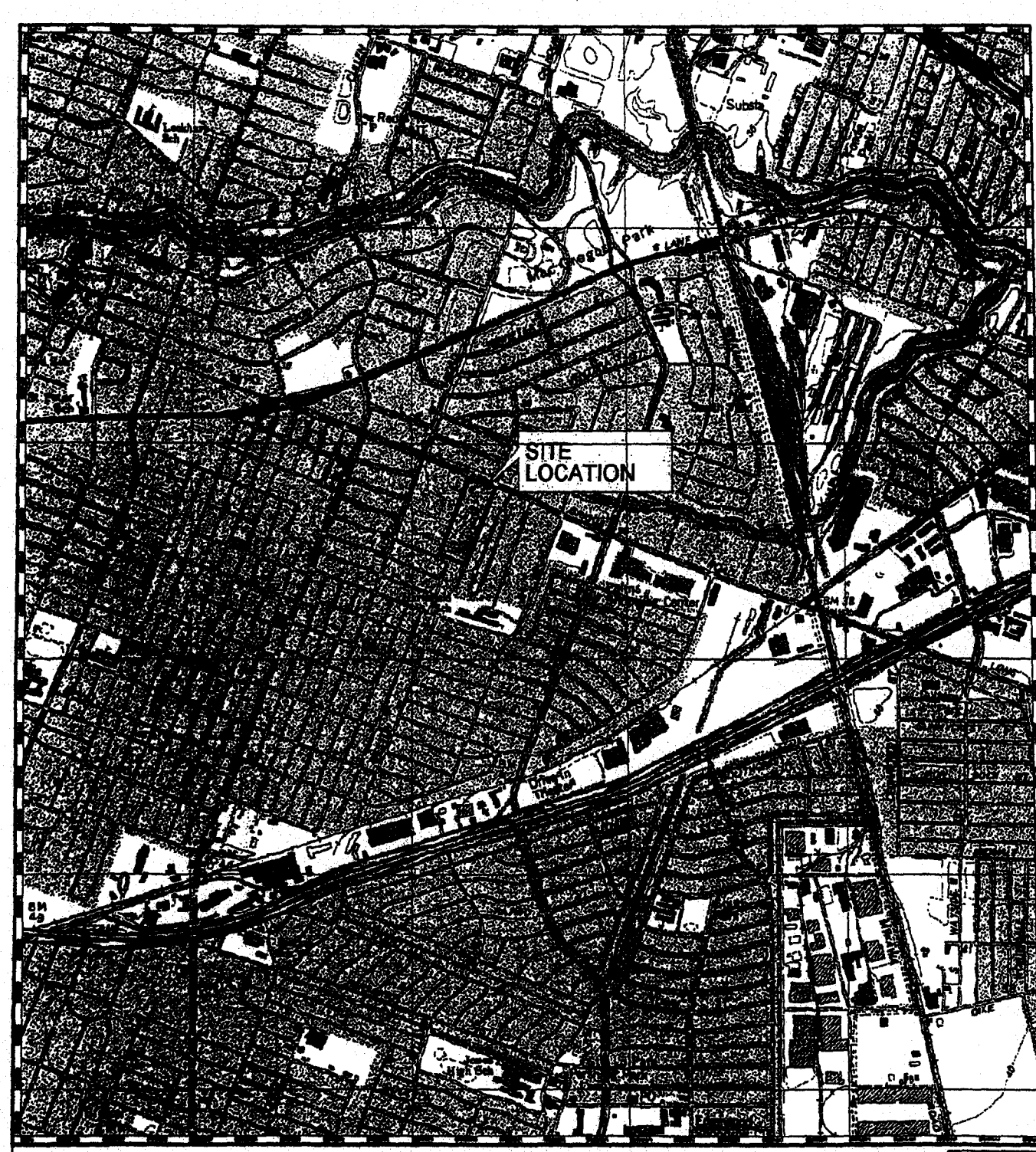
EPAHO082000700

	Are total new or increased emissions, including fugitives,of a chemical with a limit value of less than 200 mg/m^3? *If "Yes" the authorization of the chemical is not allowed under this section. We suggest you use 30 TAC §106.262 to authorize the emissions, if applicable.*	☐ YES ☐ NO XN/A
a4	Are there any changes to or additions of any existing air pollution abatement equipment?	☐ YES X NO ☐N/A
a5	Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period?	☐ YES X NO ☐N/A
a6	Are emission increases five tons per year or greater? If "YES," this checklist must be attached to a Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any.	☐ YES X NO ☐N/A
a7	Are emission increases less than five tons per year? If "YES," this checklist must be attached to a Form PI-7 and include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any. (pick one): X Within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any; or ☐ By March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year.	X YES ☐ NO ☐N/A

EPAHO082000701

FIGURE 1

SITE LOCATION MAP



TOPOGRAPHIC MAP

CES ENVIRONMENTAL SERVICES, INC.

4904 GRIGGS ROAD

HOUSTON, HARRIS COUNTY, TEXAS

North

FIGURE 1

Reproduced from U.S. Topographic Quadrangle: Park Place Texas; Zone 15

DRAWN BY: LLS DATE: 04-10-2008

FILE: H:-client-CES-Houston site.geo

EPAHO082000703

FIGURE 2

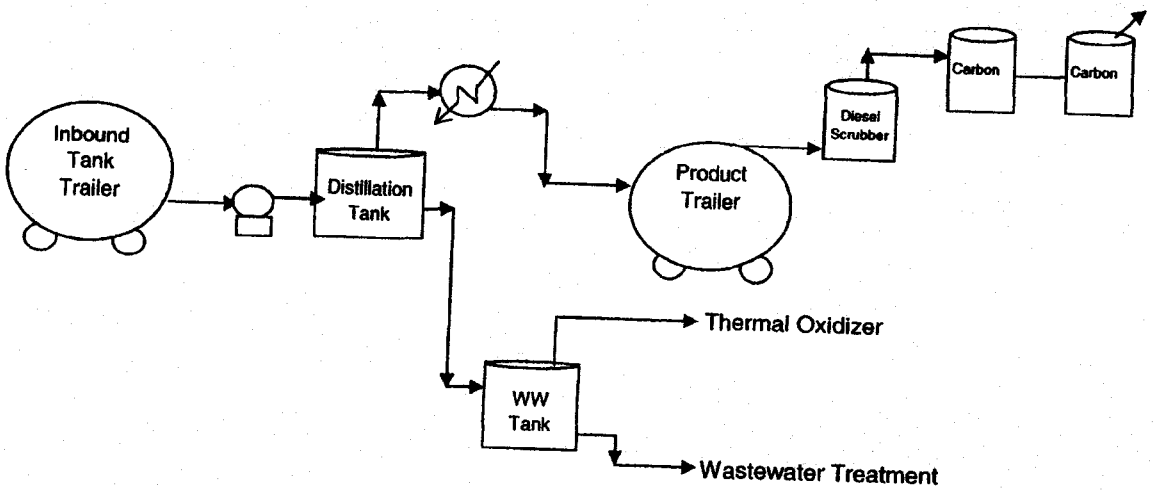
FACILITY PLOT PLAN

EPAHO082000705

FIGURE 3

PROCESS FLOW DIAGRAM

CES ENVIRONMENTAL SERVICES, INC
METHANOL OR MEK RECOVERY PROCESS



H:\CLIENT\CES\2008 PBR\Meth-MEK\PFD

EPAHO082000707

EXIT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name	CES Environmental Services, Inc.			**TCEQ Add. ID No.** **RN No (optional)**	RN100693282 TCEQ SWR No. 30900 ISW Permit No. 39048		
Investigation Type	CEI	**Contact Made In-House (Y/N)**	Y	**Purpose of Investigation**	ISW/IHW CEI		
Regulated Entity Contact	Prabhakar Thangudu			**Telephone No.**	713-675-1460	**Date Contacted**	11/05-07/08 12/9/08
Title	HSE Manager			**E-mail:**	pthangudu@cesenvironmental.com	**Date E-mailed:**	12/12/08

NOTICE: The information provided in this Note is intended to provide clarity to issues that have arisen to the date of this Note during the investigation process between the agency and the company and *does not represent agency findings related to violations*. Any potential or alleged violations discovered after the date of this Note will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in this investigation's final report.

Issue		**For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe.**	
No.	**Type[1]**	**Rule Citation (if known)**	**Description of Issue**
	AV	30 TAC 335.6	Failure to notify: Correct waste stream information to indicate which waste streams are currently active and inactive. Ensure that waste streams include the correct EPA HW Numbers and indicated whether wastes are managed on site, off site, or both. Update waste management unit information to specify inactive units, and include all waste management units including tanks, sumps and containers. In addition, correct the regulatory status column of the units, and specify all wastes managed in each unit.
	AV	30 TAC 335.(a)(3)/40 CFR 262.34 (a)(2)&(3)	Failure to mark and label containers. The containers in NOR #105, a "less than 90-day" storage area for hazardous wastes, were not labeled with the words "Hazardous Waste" or marked with an accumulation start date.
	RR	40 CFR 264.1(g)(6)/PP IV.B.2	Provide an explanation of how the "frac tanks" are used for wastewater destined for on-site treatment and discharge to the City of Houston POTW.

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	☐ Yes X☐ No
Did the investigator advise the regulated entity representative that continued operation is not authorized?	☐ Yes X☐ No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

Barbara E. Johnston	12/11/08	Prabhakar R. Thangudu / Prabhakar R. Thangudu	12/5/08
Investigator Name (Signed &Printed)	**Date**	**Regulated Entity Representative Name (Signed & Printed)**	**Date**

If you have questions about any information on this form, please contact your local TCEQ Regional Office. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

EPAHO082000708

EXIT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name	CES Environmental Services, Inc.			**TCEQ Add. ID No. RN No (optional)**	RN100693282 TCEQ SWR No. 30900 ISW Permit No. 39048		
Investigation Type	CEI	**Contact Made In-House (Y/N)**	Y	**Purpose of Investigation**	ISW/IHW CEI		
Regulated Entity Contact	Prabhakar Thangudu			**Telephone No.**	713-675-1460	**Date Contacted**	11/05-07/08 12/9/08
Title	HSE Manager			**E-mail:**	pthangudu@cesenvironmental.com	**Date E-mailed:**	12/12/08

NOTICE: The information provided in this Note is intended to provide clarity to issues that have arisen to the date of this Note during the investigation process between the agency and the company and *does not represent agency findings related to violations.* Any potential or alleged violations discovered after the date of this Note will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in this investigation's final report.

Issue		**For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe.**	
No.	**Type[1]**	**Rule Citation (if known)**	**Description of Issue**
	RR	Permit Provision IV.B.2	Provide clarification of which tank(s) discharge to the City of Houston POTW, and how CES is in compliance with this permit provision.
	RR	40 CFR 261.7(a) (1)	Submit standard operating procedures used to determining whether incoming tankers/containers destined for cleaning are empty, and the steps that follow if it is determined that the container does not meet the regulatory definition of empty. Also, provide information regarding waste determinations for the materials removed from the containers.
	RR	30 TAC 335.24	Provide detailed information regarding the glycol, methylene chloride, and mixed alcohols recycling processes, including information concerning the final use of the recycled materials.
	RR		Provide a list of all materials that CES claims to be recycling, and provide a detailed explanation of how CES has determined that these materials are not solid wastes.

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	☐ Yes X☐ No
Did the investigator advise the regulated entity representative that continued operation is not authorized?	☐ Yes X☐ No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

Barbara E. Johnston	12/11/08	Prabhakar R. Thangudu /Prabhakar R. Thangudu	12/15/08
Investigator Name (Signed &Printed)	**Date**	**Regulated Entity Representative Name (Signed & Printed)**	**Date**

If you have questions about any information on this form, please contact your local TCEQ Regional Office. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

EPAHO08200709

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
713-676-1460 Tel
713-676-1676 Fax

January 19, 2009

Mrs. Barbara E. Johnston
Investigator
Texas Commission on Environmental Quality
Region 12
5425 Polk Avenue, Suite H
Houston, TX 77023-1423

RE: 12-12-2008 Exit Interview Form: Potential Violations and/or Records Request
CES Environmental Services, Inc
TCEQ ID No: RN100693282, TCEQ SWR No. 30900, ISW Permit No. 39048

Barbara:

CES Environmental Services, Inc. (CES) is hereby responding to the records request referred in the Exit Interview Form dated 12/12/2008.

Provide an explanation of how the "frac tanks" are used for wastewater destined for on-site treatment and discharge to the city of Houston POTW.

Per Waste Receipt Classification under 40 CFR 437, the incoming wastewater is classified under one of the three subcategories (Metals Subcategory: Subpart A; Oils Subcategory: Subpart B; Organics Subcategory: Subpart C).

Please refer to Attachment 1.

Provide clarification of which tank(s) discharge to the City of Houston POTW, and how CES is in compliance with this permit provision.

Tanks 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122 and 129 discharge to the City of Houston POTW. CES has submitted Class 1 Permit Modification to TCEQ. A copy of approval letter dated April 28, 2008 is attached. Copies of Industrial Waste Permits 6806 and 9558 issued by City of Houston to CES are also attached.

Please refer to attachment 2.

Submit standard operating procedures used to determining whether incoming tankers/containers destined for cleaning are empty, and the steps that follow if it is determined that the container does not meet the regulatory definition of empty. Also, provide information regarding waste determinations for the materials removed from the containers.

Please refer to the attached document that details procedures followed for Tankwash.

Please refer to Attachment 3.

Provide detailed information regarding the glycol, methylene chloride, and mixed alcohols recycling processes, including information concerning the final use of the recycled materials.

Glycols, which are typically ethylene glycol, are tested for % purity and resold "as is" without further processing. Glycols are sold to Sabre Processing, Hutchinson & Hayes, KMCO, Skyhauk Chemicals and Gulf Stream Tanker.

Methylene chloride typically is received as a mixture with methanol. These two are distilled and recovered to be sold as products. Please refer to the attached document for details on process description. Methylene chloride is sold to PAR Technology, Anchor Color, Chem-Orph, SoChem and Hydrocarbon Resources.

Mixed alcohol streams are not processed but rather segregated and sold "as is". Mixed alcohol is sold to Chem-Orph.

Please refer to Attachment 4.

Provide a list of all materials that CES claims to be recycling, and provide a detailed explanation of how CES has determined that these materials are not solid waste.

CES follows TCEQ Regulatory Guidance (RG-240). According to RCRA regulations, a material must be defined as a solid waste before it can be considered a hazardous waste. The regulatory definition of solid waste, found in 261.2(a), encompasses the following materials: (1) materials that are abandoned; (2) materials that are recycled; (3) materials that are inherently waste-like; and (4) waste military munitions.

Materials that are recycled are a special subset of the solid waste universe. When recycled, some materials may qualify for an exclusion from the definition of solid waste and fall out of RCRA regulation or be subject to less-stringent regulatory controls.

A material is recycled if it is used, reused, or reclaimed ((261.1(c)(7)). A material is reclaimed if it is processed to recover a usable product or if it is generated. A material is

used or reused if it is either employed as an ingredient in an industrial process to make a product or if it is employed as an effective substitute for a commercial product.

CES follows TCEQ notification requirements by submitting the Form TCEQ-0524 (Notification Form for Receiving and Recycling Hazardous or Industrial Waste). Copies of such notifications are attached.

Please refer to Attachment 5.

I want to apologize for the delay in responding to your records request. We have been extremely busy with the year end closing of books and records. Please let me know if you need additional information.

Warms regards,

Sincerely,

Prabhakar R. Thangudu

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RECORD OF UPSET OR EMISSION EVENT §101.201

Identification Information

Owner/Operator Name:	CES Environmental Services, Inc.
Customer (CN) No.	600618946
Regulated Entity Name:	CES Environmental Services, Inc.
Regulated Entity (RN) No.	100693282
TCEQ Air Account No.	HG1270B

Event Information

Release Location Name: (physical location where emissions to atmosphere occurred)	Thermal Oxidizer inlet duct
Facility Identification (FIN): (common name and agency established number if applicable)	Thermal Oxidizer (TO-01)
Emission Point No. (EPN): (common name and agency established emission point number if applicable)	Damaged open inlet duct to thermal oxidizer
Process Unit or Area:	MEK Distillation unit
Cause of Upset:	Under investigation
Time/Date Upset Discovered:	1:30 PM Saturday; 12/06/08
Duration of Event: (the estimated duration of the emissions in hours/minutes)	13 minutes
Corrective Actions to End or Minimize Emissions	Thermal oxidizer shut down. MEK process shutdown.

Reporting

Reporting Requirement	None, the amount emitted was below the RQ specified in 101.1.			
Initial Report[1]	**Time/Date**	N/A	**Submitted by**	N/A
	Agencies Notified	N/A		
Final Report[2]	**Time/Date**	N/A	**Submitted by**	N/A
	Agencies Notified	N/A		

1) If emissions are greater than the reportable quantity (RQ), an initial report must be submitted to the TCEQ Regional office and any local air pollution control agencies with jurisdiction within 24 hours of discovery of the event. A copy of the initial report should be attached to this document.
2) If information in the initial report differs from the information in this document, an updated final report must be submitted within two weeks of the end of the event. A copy of the final report can be maintained in place of this document.

C:\Documents and Settings\pthangadu\My Documents\Thermal Oxidizer Accident 12-06-2008\Emission Event Documentation 12-06-08 (2).doc

Emission Information

Chemical	Reportable Quantity	Estimated Emissions	Authorized Emissions	Authorization (Permit No, PBR, etc)
Methyl Ethyl Ketone (MEK)	5,000 lb	239 lb	N/A	PBR 106.261
Method of Quantification[3]	See attached calculations and assumptions.			

3) Attach a copy of the emission calculations to this document.

Comments

Inlet duct to thermal oxidizer (TO) was blown open by combustion over pressure. Vapors in the collection header vented to atmosphere from open duct upstream of the TO. Exact cause is under investigation. Culpability of equipment, design, and operational aspects to be determined (TBD). Results of the investigation and any corrections to the above representations will be provided as an addendum to this record.

EPAHO082000716

CITY OF HOUSTON

Department of Public Works and Engineering

Bill White
Mayor

Michael S. Marcotte, P.E., DEE
Director
Industrial Wastewater Service
10500 Bellaire Blvd.
Houston, Texas 77072

T. 281.575.2800
F. 281.983-6704
www.houstontx.gov

January 28, 2009

Greg Bowman
Vice President Finance and Administration
CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021

RE: CES Environmental Services, Inc. status with regard to sanitary (wastewater service). Industrial Waste Permit number 6806 and 9558.

Dear Mr. Bowman:

In accordance with your request regarding written confirmation of issues with the City on CES's discharge to the City's sanitary sewer system, the following statements represents CES's status with us as of January 28, 2009:

1. The City has not fined CES for any discharge to the City's sanitary sewer system.

2. At the present time, CES does not have any delinquent outstanding enforcement issues with their industrial waste discharge permit for the sanitary sewer system.

Sincerely;

Bob Hunt

Bob Hunt
Deputy Assistant Director
Industrial Wastewater Service
Wastewater Operations
Public Utilities Division
Department of Public Works and Engineering

cc: Industrial Waste Permit File # 6806, 9558

Council Members: Toni Lawrence Jarvis Johnson Anne Clutterbuck Wanda Adams Mike Sullivan M.J. Khan, P.E. Pam Holm Adrian Garcia James G. Rodriguez Peter Brown Sue Lovell Ronald C. Green Jolanda "Jo" Jones Melissa Noriega Controller: Annise D. Parker

COPY

CAUSE NO. 2009-07076

THE CITY OF HOUSTON, TEXAS, Plaintiff,	§	IN THE DISTRICT COURT
v.	§	HARRIS COUNTY, TEXAS
CES ENVIRONMENTAL SERVICES, INC., Defendant.	§	281 JUDICIAL DISTRICT

JOINT MOTION FOR ENTRY OF AGREED FINAL JUDGMENT

The City of Houston ("City"), Plaintiff, and CES Environmental Services, Inc. ("CES"), Defendant, expressly waive any and all notice periods and request that the Court enter the AGREED FINAL JUDGMENT ("FINAL JUDGMENT") submitted with this Motion on an expedited basis, for the following reason:

The FINAL JUDGMENT was negotiated by and between the City, CES and their counsel prior to the filing of Plaintiff's Original Petition. Each party has had the opportunity to discuss the FINAL JUDGMENT with counsel and each party agrees and moves for its entry.

WHEREFORE, PREMISES CONSIDERED, the Parties move this Court to enter the FINAL JUDGMENT in this matter.

Respectfully Submitted,

BERG & ANDROPHY

David H. Berg
State Bar No. 02187000
Christopher L. Gadoury
State Bar No. 24034448
3704 Travis Street
Houston, Texas 77002
Telephone: 713.529.5622

FILED
LOREN JACKSON
DISTRICT CLERK
HARRIS COUNTY, TEXAS
2009 FEB -4 AM 9:03
BY
DEPUTY

Facsimile: 713.529.3785

ATTORNEYS FOR PLAINTIFF,
CITY OF HOUSTON

2/3/09
Date

Robert M. Howard
LATHAM & WATKINS LLP
600 West Broadway, Suite 1800
San Diego, CA 92101-3375

2/3/09
Date

Peter Thompson
THOMPSON & RESLEY, P.C.
600 Travis Street, Suite 7350
Houston, Texas 77002

ATTORNEYS FOR DEFENDANT,
CES ENVIRONMENTAL SERVICES, INC.

FILED
LOREN JACKSON
DISTRICT CLERK
HARRIS COUNTY, TEXAS
2009 FEB -5 AM 9:03
DEPUTY

ORIGINAL

CAUSE NO. 2009-07076

THE CITY OF HOUSTON, TEXAS, **Plaintiff,**	§	**IN THE DISTRICT COURT**
v.	§	**HARRIS COUNTY, TEXAS**
CES ENVIRONMENTAL SERVICES, INC., **Defendant.**	§	281 **JUDICIAL DISTRICT**

P5
6

AGREED FINAL JUDGMENT

ON THIS DAY came on for consideration the captioned cause, in which the City of Houston ("the City"), Plaintiff, and CES Environmental Services, Inc. ("CES"), Defendant. The City contends that CES has failed to comply with air emission, odor and nuisance laws. Although CES denies that its operations violate any laws, CES believes that it is in the company's best interest to relocate certain operations to a location other than its Houston Facility[1] rather than meet the City's demands. To avoid the expense and inconvenience of litigation, the parties announced to the Court that all matters in this cause involving air emissions and public nuisances have been resolved, and that they request that the Court enter this Agreed Final Judgment. The Court, having reviewed the pleadings and the other papers on file in this cause, is of the opinion that this Agreed Final Judgment should be entered as requested. Accordingly, it is:

[1] CES's only operations in Houston are located at 4904 Griggs Road and include adjacent 4900 Griggs Road and 5910 Wayland Street ("Houston Facility").

EPAHO082000720

ORDERED, ADJUDGED, and DECREED that:

1. CES is ORDERED to pay to the City $102,000 ("Settlement Amount") as settlement for, and to resolve and compromise, all outstanding air emission and nuisance notices of violation issued by the City to CES through the date of this Order to be paid in six $17,000 monthly installments commencing thirty days from the date of this Order.

2. CES, and its officers, members, directors, agents and employees, are ENJOINED and ORDERED to:

A. Permanently terminate operation of its Centrifuge[2] at its Houston Facility no later than ninety days from the date of this Order; and

B. Immediately terminate construction of its Oil Plant,[3] and remove from its Houston Facility the associated Oil Plant equipment (it is understood that certain permanent fixtures, e.g. cement foundation and related utilities, shall remain in place) within ninety days from the date of this Order.

3. CES, and its officers, members, directors, agents and employees, are immediately ENJOINED and ORDERED to monitor and maintain pollution control equipment required by law for its truck wash and remaining recycling and waste operations at its Houston Facility,

[2] The Centrifuge (a Flotwig, three-phase, horizontal model) separates oil from water, solids, and other impurities. The Centrifuge extracts useful material (black oil) from waste streams through heat and acidification to achieve partial separation of the oil. The Centrifuge spins at very high speed causing the heated oil material to separate based upon density.

[3] The Oil Plant is also known as the Used Motor Oil Multiple Distillation Stages Re-refining Recovery Plant. The Oil Plant includes three stages of distillation. The process has a foot-print area of approximately 30 ft. x 38 ft. and extents 65 feet into the air using an open structure of steel framing arrangement illustrated by Exhibit No. 1 attached. The three-level open steel support structure is identified by project no. 08020913 City of Houston Department of Public Works and Engineering Code Enforcement.

EPAHO082000721

including monitoring the saturation of the carbon for the carbon scrubber and the date and time when fresh carbon is added, and to provide documentation of its efforts to the City on a monthly basis for the first eight months after the date of this Order, or as thereafter requested by the City.

4. CES is ORDERED to produce to the City, no later than 120 days from the date of this Order, an emissions inventory and provide emissions-related data for all criteria pollutants, hazardous air pollutants, and any other regulated air contaminants being released or emitted from its Houston Facility in accordance with 30 Texas Administrative Code §101.10.

5. CES, and its officers, members, directors, agents and employees, are ENJOINED and ORDERED to desist and refrain from any release or emission of any regulated air contaminant, except as otherwise permitted by law, whether intentional or unintentional, that causes a nuisance (as that term is defined by applicable law) or that violates any law, regulation, standard or ordinance of the City, the State of Texas, the U.S. Government or any applicable regulatory entity.

6. CES, and its officers, members, directors, agents and employees, are ENJOINED and ORDERED to either obtain occupancy permits for each and every structure at their Houston Facilities or remove unpermitted structures no later than March 1, 2009. The City shall cooperate reasonably with CES in obtaining necessary permits by this deadline.

7. This AGREED FINAL JUDGMENT shall be binding and enforceable against CES, its officers and employees, successors and assigns.

8. This AGREED FINAL JUDGMENT EXCLUDES resolution and settlement of all other compliance issues, does not prohibit or limit the City's rights to continue to investigate and enforce any applicable laws, regulations and ordinances, and explicitly **excludes** resolution and

EPAHO082000722

settlement of:

A. Compliance with the Houston Fire Department's investigation of CES's Houston Facility operations and enforcement of the Houston Fire Code pursuant to a Notice of Violation dated December 18, 2008; and

B. Compliance with Administrative Order dated November 3, 2008, the implementation of CES's December 5, 2008 Corrective Action Plan, and enforcement and compliance with their Industrial Wastewater Permit 9558.

9. Except as otherwise set forth herein, this Agreed Order shall terminate five (5) years from the date of entry of this Order, or upon compliance with all the terms and conditions set forth in this Agreed Order, whichever is later.

ORDERED that the Clerk of this Court shall issue a writ of injunction in conformity with the law and the terms of this Judgment.

SIGNED this 4th day of February, 2009.

JUDGE PRESIDING

EPAHO082000723

APPROVED AS TO FORM AND ENTRY REQUESTED:

ARTURO MICHEL
City Attorney
City of Houston
State Bar No. 14009440

JAMES P. CARGAS
Senior Assistant City Attorney
State Bar No. 24035952

By: _____
David H. Berg
State Bar No. 02187000
Berg & Androphy
3704 Travis St
Houston, TX, 77002-9550
Tel: (713) 529-5622
Fax: (713) 529-3785

ATTORNEYS FOR PLAINTIFF,
CITY OF HOUSTON

CES ENVIRONMENTAL SERVICES, INC.

By: _____
Matthew L. Bowman
Its President

By: _____
Robert M. Howard
LATHAM & WATKINS LLP
600 West Broadway, Suite 1800
San Diego, CA 92101-3375
Tell: (619) 236-1234
Fax: (619) 696-7419

ATTORNEYS FOR DEFENDANT,
CES ENVIRONMENTAL
SERVICES, INC.

EPAHO082000725

Two Incident Reports
Joey Sutter and Charles Sittig

Joey Sutter

Pre- Incident

Several days before December 17, 2008 Trailer 267 was loaded with oil from an emulsion breaking process at the PACES site 2420 South Gulfway, Port Arthur, TX.

On December 17, 2008, Brian Weathers sampled Trailer 267, removing a sample of the oil from inside the trailer (See Attachment 1).

Incident

On December 18, 2008, at 2:00 p.m., Suzi Mock and Joey Sutter went to Trailer 267 to resample the oil in the trailer. Ms. Mock climbed to the top of Trailer 267 first. Mr. Sutter started up the ladder after and behind Ms. Mock. As Mr. Sutter reached the top of the latter he collapsed. Ms. Mock grabbed Mr. Sutter so he would not fall from the Trailer 267. Ms. Mock pulled Mr. Sutter to the top of the Trailer 267. Mr. Sutter and Ms. Mock did not open the dome lid nor did she or Mr. Sutter obtain a sample at this time. This was at 2:00 p.m., Thursday, December 18, 2008. According to Mr. Wood, Mr. Sutter collapsed on top of the dome lid before it was open. In addition, Mr. Wood did not suffer from hydrogen sulfide (H2S) exposure (See Attachment 13).

Ms. Mock called for help and at 2:10 p.m. (12/18/08) the Port Arthur Fire Department was notified (See Attachment 2). Within a few minutes of 2:00pm (12/18/08) Mr. Wood went to Ms. Mock to assist her with Mr. Sutter. Mr. Wood also assisted Ms. Mock to turn Mr. Sutter over, still on top of the Trailer 267.

At 2:20 p.m. (12/18/08) the Port Arthur Fire Department arrived and by 2:35 p.m., Mr. Sutter was removed from the top of the Trailer 267 by the Port Arthur Fire Department (See Attachment 2).

Ms. Mock did not experience any illness from any hydrogen sulfide release when she was with Mr. Sutter on top of the Trailer 267. Ms. Mock's personal hydrogen sulfide monitor did not trigger when she was on top of the Trailer 267. Ms. Mock's monitor was set to alarm at 10 ppm hydrogen sulfide. Mr. Wood did not experience any illness from hydrogen sulfide while assisting Mr. Sutter.

The Port Arthur Fire Department placed Mr. Sutter's clothes and the Port Arthur Fire Department hydrogen sulfide meter in a bag. The Port Arthur Fire Department measured a reading of -0- hydrogen sulfide. The Port Arthur Fire Department returned

EPAHO082000726

to the top of Trailer 267 two hours after Mr. Sutter was removed and measured only 1 ppm hydrogen sulfide (See Attachment 2).

Post Incident

OSHA tested Mr. Sutter's clothes for hydrogen sulfide and did not find any hydrogen sulfide (See Attachment 3). OSHA tested the head space over an oil sample from Trailer 267 and did not find any hydrogen sulfide (See Attachment 4).

Hydrogen sulfide technical information sources state that it takes 700 to 1000 ppm of hydrogen sulfide to knockdown an individual with hydrogen sulfide. In addition, when a group of people are together near a hydrogen sulfide release all persons suffer health problems (See Attachment 5).

OSHA measured organic sulfur compounds in the oil which exhibits a smell similar to hydrogen sulfide, but the organic sulfur compounds are liquid at ambient temperatures and not a toxic gas.

In addition, the oil in Trailer 267 was not heated prior to the December 18, 2008 incident, since no steam was available and the trailer had been loaded prior to December 17, 2008 without any modifications of the oil for two days (See Attachment 6).

In summary, pre-incident information and post incident information does not support the concept that hydrogen sulfide was released from a trailer during a short time of a few minutes at such level of 700 to 1000 ppm to cause one of two people side-by-side to collapse and die in minutes while the second person is holding on to the dying person without having her personal hydrogen sulfide alarm activate (See Attachment 7).

In addition, a third person climbed to the top of Trailer 267 to assist the two already on trailer without getting sick from hydrogen sulfide. Also, the Port Arthur Fire Department representative did not note any problems with anyone other than Mr. Sutter. Remember, Trailer 267 was sampled the day before with out any problems.

Joey Sutter Autopsy Comments

The autopsy based its conclusions on a lab report from NMS Labs dated March 25, 2009. This NMS Labs Report based its conclusion on one test of one blood sample which was received on March 5, 2009 by NMS Labs, when the death occurred on December 18, 2008. This delay in testing appears to have violated acceptable protocols. NMS Labs states in their on-line test catalog information that the blood sample is only stable for one month. Lab Corp states in their thiosulfates in blood testing instructions that sample stability is for one month, if frozen and only 9 days refrigerated (See Attachment 8).

EPAHO082000727

The NMS Labs Report did not state that Mr. Sutter died from hydrogen sulfide poisoning. The report stated that the measured value of thiosulfate in the blood sample was similar to values found in four other situations where people were believed to have died from hydrogen sulfide. However, the thiosulfate value of 43% of the cases were above 11 mcg/ml (value measured in Mr. Sutter's blood) and 43% were below the 11 mcg/ml value. The NMS Labs Report did not speak to another NMS Labs analysis report on urine from Mr. Sutter received January 15, 2009 (See Attachment 8).
This report stated that thiosulfate in urine was normal. Technical information states that thiosulfate in urine is just as valid as thiosulfate in blood for measuring hydrogen sulfide exposure.

Both the NMS Labs Report of March 25, 2009 and the T. Brown Autopsy Report of April 17, 2009 omitted the sulfhemoglobin in blood data identified in the NMS Labs Report of January 20, 2009. Susan Jones at Southeast Texas Forensic Center (Jefferson County Morgue) stated that the sulfhemoglobin measured levels were below testing limits. As a biological marker the test data reflects no exposure to hydrogen sulfide.

Both the NMS Labs (3/25/09) report and the Mr. Sutter Autopsy had many facts wrong. For example, both stated that the site operator (PACES) was boiling water in a closed dome tank (trailer) to drive off hydrogen sulfide. Remember, this material is oil in a tanker which is not heated, since no steam was available. Also, the thiosulfate analysis of the blood did not follow correct procedures, where the thiosulfate test in the urine did follow correct lab procedures.

The Sutter Autopsy Report did show that Mr. Sutter was over weight to the point of being obese and a smoker. Mr. Sutter's blood pressure values of August 2008 were 136/90 (See Attachment 11). These numbers reach the level of Stage 1 Hypertension. Technical data states that hypertension can result in hardening of the arteries, enlarged heart, and other health issues. The T. Brown Autopsy Report (04/17/09), states that Mr. Sutter had cardiomegaly (an enlarged heart), and hardening of the arteries. The risk and complications from an enlarged heart are heart failure, blood clots, cardiac arrest, and sudden death. Earlier on December 18, 2009, there had been discussions by Mr. Sutter with others that he was feeling ill.

Charles Brent Sittig

Incident

On April 14, 2009, Charles Brent Sittig (truck driver for PACES) returned to the site with a load of weak caustic solution that was not loaded by him. Mr. Sittig parked the tractor and trailer to be unloaded by another person and moved away from the trailer into the maintenance office area of the plant site.

EPAHO082000728

Mr. Sittig sat in a chair and collapsed while making a telephone call. Mr. Sittig was a few feet away from the maintenance person who went to him after he collapsed. The maintenance person did not have any affects from hydrogen sulfide and there was not any hydrogen sulfide release or triggered any alarms.

Post Incident

The material from Mr. Sittig's truck was placed in NV1 Tank and tested for sulfides. The measured sulfide in the material was less than 1 ppm sulfide (See Attachment 9).

Data from Mr. Sittig's file shows that he was overweight. In the past his blood pressure was close to values that would disqualify him as a driver (See Attachment 12).

In summary, Mr. Sittig was not engaged in activity at the time of death. There was no hydrogen sulfide released at the time of his death. Mr. Sittig was near others that did not experience any hydrogen sulfide problems and his trailer contained material that was below 1 ppm sulfide which he did not load or unload (See Attachment 14).

Summary of Both Incident Reports (Mr. Sutter and Mr. Sittig)

Hydrogen sulfide poisoning could have not been the mechanism that caused the two deaths, since the exposure level (700 to 1000 ppm) required to knockdown and kill quickly would have affected companions, triggered alarms, showed up in clothes, and introduced odors over a wide area since the odor threshold of hydrogen sulfide is 0.005 ppm. The autopsy conclusion is based on one lab result that uses one blood sample that is beyond sample stability limits. Other lab results that do not indicate hydrogen sulfide poisoning are ignored by the autopsy writer.

In addition, low levels of hydrogen sulfide over long periods of time would not have been a factor in the deaths since recent and past results show no adverse impacts from low levels of hydrogen sulfide. Most recent data shows that low levels of hydrogen sulfide lowers blood pressure (See Attachment 10).

However, both Mr. Sutter and Mr. Sittig had weight and blood pressure issues that were significant and indicators of personal health issues.

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
713-676-1460 Main
713-676-1676 Fax

June 26, 2009

Ms. LaDonna Castanuela
Chief Clerk
Texas Commission on Environmental Quality
P.O. Box 13087, MC 105
Austin, TX 78711-3087

RE: Executive Director's Preliminary Report and Petition
CES Environmental Services, Inc.
RN100693282
TCEQ Docket No. 2009-0141-AIR-E

Dear Ms. Castanuela,

This letter is in response to the letter, dated June 11, 2009, from Ms. Anna Treadwell, Attorney, Office of Legal Services, Litigation Division, transmitting a copy of the "Executive Director's Preliminary Report and Petition Recommending that the Texas Commission on Environmental Quality Enter an Enforcement Order Assessing an Administrative Penalty Against and Requiring Certain Actions of CES Environmental Services, Inc." ("Petition"). Please accept for filing on behalf of CES Environmental Services, Inc. ("CES") this letter as an answer to the Petition and a request for a hearing.

CES was provided a Proposed Agreed Order, dated February 23, 2009. In response CES provided the Executive Director's staff information regarding the factual, legal and regulatory basis of the Proposed Agreed Order. As shown in the chart below, the Petition carries forward the same provisions included in the Proposed Agreed Order with no consideration of the information previously submitted to the staff by CES. The attached document provides a summary of the information previously submitted to the Executive Director. CES submits that this information challenges the factual and regulatory basis of the Petition and supports the substantial modification of the proposed enforcement order contained in the Petition.

Proposed Agreed Order (2/23/2009)	**Preliminary Report and Petition (6/11/2009)**
I. Findings of Fact, 3.	Facts Supporting Violations, 5.a.
I. Findings of Fact, 4.	Facts Supporting Violations, 5.b.
I. Findings of Fact, 5.	Facts Supporting Violations, 5.c.
I. Findings of Fact, 6.	Facts Supporting Violations, 5.d.
I. Findings of Fact, 7.	Facts Supporting Violations, 5.e.
I. Findings of Fact, 9.	Facts Supporting Violations, 6.a.
I. Findings of Fact, 10.	Facts Supporting Violations, 6.b.
III. Ordering Provisions, 2.a.i.	Corrective Action Ordering Provisions, 14.a.i.
III. Ordering Provisions, 2.a.ii.	Corrective Action Ordering Provisions, 14.a.ii.
III. Ordering Provisions, 2.a.ii.	Corrective Action Ordering Provisions, 14.a.iii.
III. Ordering Provisions, 2.c.i.	Corrective Action Ordering Provisions, 14.c.i.
III. Ordering Provisions, 2.c.ii.	Corrective Action Ordering Provisions, 14.c.ii.
III. Ordering Provisions, 2.c.iii.	Corrective Action Ordering Provisions, 14.c.iii.

EPAHO082000731

CES requests the opportunity to meet with the Executive Director in an effort to resolve the issues raised in the Petition and to reach a mutually acceptable agreement regarding any proposed enforcement order.

Please let me know if you have any questions. I may be reached by telephoning [713-419-6076] or e-mailing [gbowman@cesenvironmental.com].

Sincerely,

Greg Bowman, V.P.

cc: Ms. Anna M. Treadwell, Staff Attorney, Texas Commission on Environmental Quality, P.O. Box 13087, MC 175, Austin, TX. 78711-3087

EPAHO082000732

COMMENTS ON PROPOSED AGREED ORDER
DOCKET No. 2009-0141-MLM-E

The following is a summary of the comments and information provided to the TCEQ Region 12 office regarding the referenced proposed agreed order dated February 23, 2009. These comments were provided in e-mail correspondence dated April 15, 2009 and April 21, 2009. Copies of the referenced correspondence were also recently forwarded to Ms. Anna Treadwell, TCEQ Staff Attorney on June 23, 2009.

PROPOSED AGREED ORDER DISCUSSION ITEMS FROM APRIL 15, 2009 CORRESPONDENCE TO N. HAMEED, TCEQ REGION 12

Section I - Findings of Fact:
Item 3 – CES requests clarification of the wording in the second sentence of this finding. The draft order states the following:

"During an investigation on November 5, 2008 through December 9, 2008, staff documented that the Respondent failed to maintain monitoring records for operations at the Plant under Methylene Chloride Permit-By-Rule ("PBR") 83191. Specifically, monitoring records for carbon adsorber units, maintenance/monitoring records for the methylene chloride scrubber and demonstration of compliance with certified limits for processing methylene chloride represented in PBR 83191 were not being maintained."

All information requested by the investigator regarding the methylene chloride process was provided to the TCEQ investigator except for records of the carbon unit exhaust monitoring results and records of the scrubber maintenance. CES requests clarification of what is meant by "demonstration of compliance with certified limits for processing methylene chloride represented in PBR 83191" since it is also referenced as a requirement in Section III - Ordering Provision 2(a)(i) of the draft order.

Item 4 – This finding of Fact states that the Respondent did not provide sufficient vapor pressure records to demonstrate compliance with the Oil Recovery Processing PBR 83798 in the calculated emissions data provided for the period January 1, 2007 through November 14, 2008. CES furnished records to TCEQ. CES has furnished a sample analysis for the largest volume oil stock handled at the site. The analytical results show the oil sample was too thick to measure vapor pressure using ASTM method D-5191 (documentation provided as attachment to April 15, 2009 e-mail to N. Hameed, TCEQ Region 12). CES believes this result is indicative that the vapor pressure values used in the 2007 and 2008 emission calculations were valid if not conservative. CES believes this finding should be removed from the draft Order and the penalty computation adjusted accordingly. This change will affect item 3 in the Conclusions of Law. Please be aware that beginning in November 2008, CES implemented voluntary emission controls on the oil process tanks by connecting them to a thermal oxidizer. A carbon adsorption system functions as backup vapor control during thermal oxidizer down time. Actual emissions from the process are therefore far less than the uncontrolled losses represented in PBR 83191.

Item 5 – This finding of fact states that the Respondent failed to meet testing requirements for three (3) boilers. CES tested two of the three boilers. CES is providing the attached documentation to demonstrate that one of the referenced boilers (Williams & Davis unit) has a firing capacity less than 2.0 MMBtu/hr and is therefore exempt from testing under 30 TAC 117.2003(a)(1). According to 30 TAC 117.2003(a)(1) boilers with a maximum rated capacity of 2.0 MMBtu/hr or less are exempt from the requirements of 30 TAC Chapter 117, Subchapter D, Division 1 and therefore do not require testing. The wording of this item should be revised from "three" to "two" boilers. This change will also affect the wording of item 4 in the Conclusions of Law and in Ordering Provision 2(c)(i). In addition, the penalty computation will need to be adjusted as it appears to be based on three boilers instead of two. Documentation demonstrating the firing capacity of the Williams & Davis boiler provided as attachment to the April 15, 2009 e-mail to N. Hameed, TCEQ Region12.

Item 6 - This finding of fact states that the Respondent failed to maintain written or electronic records of annual fuel usage for three (3) boilers. Again, the documentation (provides as attachment to April 15, 2009 e-mail to N. Hameed, TCEQ Region 12) demonstrates that one of the referenced boilers has a firing capacity less than 2.0 MMBtu/hr and is therefore exempt from recordkeeping requirements under 30 TAC 117.2003(a)(1). According to 30 TAC 117.2003(a)(1) boilers with a maximum rated capacity of 2.0 MMBtu/hr or less are exempt from the requirements of 30 TAC Chapter 117, Subchapter D, Division 1 and therefore do not require fuel use records. There should be no penalty assessed for this boiler.

With regard to the remaining two boilers, 30 TAC 117.2045(a)(1) requires that written or electronic records of annual fuel usage be maintained. Based on discussions with TCEQ in Austin, since the boilers are not subject to 30 TAC 101, Subchapter H, Division 3 (Mass Emission Cap and Trade) they are not subject to the fuel monitoring requirements of 30 TAC 117.2035(a)(1). As such the annual fuel use can be estimated from billing records. CES has fuel use records from the site since the effective start of compliance date of the rule (March 31, 2005). These records are being compiled in a summary table and will be forwarded to you as a follow up attachment. Since these records are available, CES believes this finding should be removed from the order. This change will affect item 5 in the Conclusions of Law. In addition, the penalty computation will need to be adjusted to reflect deletion of this finding. Please be aware that since the investigation, CES has installed and begun operating totalizing fuel flow meters on the two boilers to continue monitoring gas fuel usage.

Item 7 – This finding of fact states that the Respondent failed to obtain timely authorizations for the Methylene Chloride operations. The penalty computation associated with this item appears to be based on 530 days. The number of days in the period between start of operation (referenced in the Order as June 29, 2007) and the initial registration date (October 19, 2007) is 112 days. The process was changed from a two stage distillation process to a one stage distillation process in December 2007. The period from the start of the revised process on December 10, 2007 (see process records provided during investigation) to the revised registration date on November 17, 2008 is 341 days. The total number of days should be 453. CES requests the penalty computation for this finding be adjusted accordingly.

Item 9 – This finding states that 239 lbs of uncontrolled MEK vapor was released during the thermal oxidizer overpressure event that occurred on December 6, 2008. CES

wishes to clarify for the record that the 239 lb value was a worst-case estimate provided to the TCEQ investigator to show that the reportable quantity threshold of 5,000 lbs for MEK could not have been exceeded. The estimate was based on the conservative assumption that the volume of the vapor collection header to the thermal oxidizer was filled with saturated MEK vapor and did not account for air dilution from inlet vents in the system. Additionally, some of the vapor would have been combusted in the event.

Item 10 – This finding of fact states that the Respondent failed to submit a PI-7 form to TCEQ for authorization of MEK in the oil recovery process. The emissions from the handling of MEK are authorized under PBR 106.261. This PBR does not require registration with TCEQ until March 31st of the following calendar year. Since the process commenced in 2008, the registration is due no later than March 31 2009. The actual date of submission of the registration was March 26, 2009 (see TCEQ Registration 87815). CES believes this finding is in error and should be removed from the Order along with the corresponding Conclusions of Law item 9. As a result, the penalty computation needs to be revised accordingly.

Item 12 – Paragraph (a) of this finding states that the PBR authorizing the Methylene Chloride process (registration No. 86772) was obtained on December 9, 2008. This is not accurate. The Methylene Chloride process was initially registered with TCEQ in October 2007 and issued Registration No. 83191 by TCEQ as referenced in the Findings of Fact item 3. A second PBR registration authorizing a change in the processing method was registered on November 17, 2008 and approved by TCEQ on December 9, 2008 (registration 86772).

Section III - Ordering Provisions:
Ordering Provision 2(a)(i) – This provision requires the Respondent to begin maintaining records of carbon bed monitoring, scrubber monitoring/maintenance and demonstration of compliance with certified limits for processing methylene chloride represented in PBR 83191 immediately upon the effective date of the Order. CES requests TCEQ revise this provision to clarify what is meant by "demonstration of compliance with certified limits for processing methylene chloride". The site has already implemented the specified record keeping for carbon bed monitoring and scrubber maintenance for the current process. Records are maintained for those periods that the Methylene Chloride process operated. Please be aware that the Methylene Chloride distillation process is currently idle.

Ordering Provisions 2(a)(ii) – This provision requires the Respondent to begin maintaining sufficient vapor pressure records and utilizing actual vapor pressures of the various treated oil stocks to calculate the actual emissions to demonstrate compliance with the Oil Recovery Process PBR 83798. As discussed above regarding the Findings of Fact item 4, CES has sampled its largest volume oil stock to test for vapor pressure and the result shows the sample was too thick to measure vapor pressure using ASTM Method D-5191. Since the oil tanks are vented to the thermal oxidizer or the backup carbon adsorption unit as part of the voluntary emission controls implemented in November 2008, CES questions the need to monitor vapor pressure and requests that this provision be removed.

Ordering Provision 2(a)(iii) – This provision requires the Respondent to begin maintaining written or electronic records of fuel usage for the boilers immediately upon the effective date of the Order. Please be aware that totalizing fuel flow meters were

installed on the two boilers subject to the requirement to maintain annual fuel usage records. The meters have been operating since January 28, 2009.

Ordering Provision 2(c)(i) - This provision requires the Respondent to conduct stack testing on the boilers within 30 days of the effective date of the Order. Please be aware that stack testing was performed on January 28, 2009 and January 29, 2009 for the two affected boilers subject to the testing requirement and results were submitted to TCEQ.

Operating Provision 2(c)(ii) – This provision requires that the Respondent implement measures within 30 days of the effective date of the Order to prevent recurrence of the emission event that occurred on December 6, 2008. Please be aware that modifications to the thermal oxidizer and vapor collection system require prior approval from the City of Houston Fire Marshal before implementation. To the extent that approvals by other involved entities may affect the schedule in the draft Order, CES proposes this provision be revised as follows:

"2(c)(ii) – Implement measures designed to prevent recurrence of emissions events due to the same causes as the event which occurred on December 6, 2008. To the extent that prior approval from other regulatory entities is required, the referenced measures will be implemented within 30 days of approval from those entities; and"

Ordering Provision 2(c)(iii) - This provision requires the Respondent to submit an administratively complete permit application to consolidate authorization for all sources of emissions at the plant site. CES requests that this provision be removed from the draft Order. Operations at the site are already authorized under existing Permits or Permit-By-Rules (PBR). The findings summarized in the Order primarily address matters of record maintenance and timely registration. TCEQ has not contested the technical bases upon which the permits and PBRs have been issued.

Ordering Provisions 2(d) and (f) – these provisions are directly related to the requirement to submit a complete permit application in provision 2(c)(iii) addressed above. CES requests that these provisions also be removed from the draft Order. Furthermore with respect to provision 2(f), CES recognizes that the schedule for processing an application and issuing a permit is under the control of the TCEQ Air Permits Division. CES should not be held liable under the Order for delays in permit issuance that are beyond its ability to control.

PROPOSED AGREED ORDER DISCUSSION ITEMS FROM APRIL 21, 2009 CORRESPONDENCE TO N. HAMEED, TCEQ REGION 12

Section I - Findings of Fact:
Item 4 – This finding of Fact states that the Respondent did not provide sufficient vapor pressure records to demonstrate compliance with the Oil Recovery Processing PBR 83798 in the calculated emissions data provided for the period January 1, 2007 through November 14, 2008. CES has a sample analysis for the largest volume oil stock handled at the site. The analytical results are attached (provided as attachment to April 21, 2009 e-mail to N. Hameed, TCEQ Region 12). CES believes this finding should be removed from the draft Order and the penalty computation adjusted accordingly. This change will affect item 3 in the Conclusions of Law. Please be aware that beginning in November 2008, CES implemented voluntary emission controls on the oil process tanks

by connecting them to a thermal oxidizer. A carbon adsorption system functions as backup vapor control during thermal oxidizer down time. Actual emissions from the process are therefore far less than the uncontrolled losses represented in PBR 83191.

Item 6 – Attached are fuel records and a summary spreadsheet providing boiler fuel usage between August 2006 and January 2009. (Records provided as attachment to April 21, 2009 e-mail to N. Hameed, TCEQ Region 12).

With regard to the remaining two boilers, 30 TAC 117.2045(a)(1) requires that written or electronic records of annual fuel usage be maintained. Based on discussions with Vincent Meiller of the TCEQ in Austin, since the boilers are not subject to 30 TAC 101, Subchapter H, Division 3 (Mass Emission Cap and Trade) they are not subject to the fuel monitoring requirements of 30 TAC 117.2035(a)(1). As such the annual fuel use can be estimated from billing records. Copies of the billing records and an estimation of the fuel usage by the two boilers are attached (provided as attachment to April 21, 2009 e-mail to N. Hameed, TCEQ Region 12). Since these records are available, CES believes this finding should be removed from the order. This change will affect item 5 in the Conclusions of Law. In addition, the penalty computation will need to be adjusted to reflect deletion of this finding. Please be aware that since the investigation, CES has installed and begun operating totalizing fuel flow meters on the two boilers to continue monitoring gas fuel usage.

Item 7 – Attached are copies of the submission letters for the Methylene Chloride Permits-By-Rule. Copies of the TCEQ technical reviews for these submissions are also included. (Records provided as attachment to April 21, 2009 e-mail to N. Hameed, TCEQ Region 12).

This finding of fact states that the Respondent failed to obtain timely authorizations for the Methylene Chloride operations. The penalty computation associated with this item appears to be based on 530 days. The number of days in the period between start of operation (referenced in the Order as June 29, 2007) and the initial registration date (October 19, 2007) is 112 days. Furthermore, 30 TAC 106.262 states that Permits-By-Rule under that section must be registered within 10 days of startup. This further reduces the number of days by which the registration was late to 102. The process was then changed from a two stage distillation process to a one stage distillation process in December 2007. The period from the start of the revised process on December 10, 2007 (see process records provided during investigation) to the revised registration date on November 17, 2008 is 343 days. This would again be reduced by 10 days from the date of modification to 331 days. The total number of days should be 435. CES requests the penalty computation for this finding be adjusted accordingly.

Item 12 – Paragraph (a) of this finding states that the PBR authorizing the Methylene Chloride process (Registration No. 86772) was obtained on December 9, 2008. This is not accurate. The Methylene Chloride process was initially registered with TCEQ in October 2007 and issued Registration No. 83191 by TCEQ as referenced in the Findings of Fact item 3. A second PBR registration authorizing a change in the processing method was registered on November 17, 2008 and approved by TCEQ on December 9, 2008 (Registration No. 86772). As with Item 7, copies of the submission letters and the TCEQ technical reviews are attached (provided as attachment to April 21, 2009 e-mail to N. Hameed, TCEQ Region 12).

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EPAHO082000738

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
713-676-1460 Main
713-676-1676 Fax

July 7, 2009

Mr. Mark R. Briggs
Area Director
Occupational Safety & Health Administration
Houston South Area Office
17625 El Camino Real, Suite 400
Houston, Texas 77058

RE: OSHA Document Request of June 17, 2009
Inspection Number 311960975

Dear Mr. Briggs:

We are contesting all citations and penalties issued by OSHA on June 17, 2009, in OSHA Inspection No. 311960975.

Very truly yours,

Matt Bowman

U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 1, Item 1 Type of Violation: Serious

29 CFR 1910.120(p)(1): The program was not designed to identify, evaluate and control safety and health hazards in their facilities for the purpose of employee protection, to provide for emergency responses meeting the requirements of 29 CFR 1910.120(p)(8), and to address as appropriate site analysis, engineering controls, maximum exposure limits, hazardous waste handling procedures, and uses of new technologies:

a) On or about December 18, 2008, and at time theretofore, at Port Arthur Chemical and Environmental Services, the employer did not develop and implement safe sampling procedures to prevent exposure to hydrogen sulfide.

Response:

29 CFR 1910.120(p) is for operations at TDS Facilities under RCRA. Section 1910.120 is for hazardous waste operations.

Sampling procedures submitted to OSHA May 11, 2009, that existed at PACES on 12/18/08 are attached. Employees were required to carry H2S monitors set at 10 ppm alarm value. Respirators were designed for H2S.

SULFIDIC PROCESSING PROCEDURES

Step 1: Driver brings feed into unit, Driver then signs in at the lab and brings paperwork to lab technician.

Step 2: Operator wearing full face respirator, climbs on top of the trailer to pull sample, and brings back to lab for QC. Operator waits for lab to either accept or reject load.

Step 3: Once sample has been approved by lab, Operator then unloads trailer into RV1.

Step 4: Operator lines the tank for circulation

Step 5: While tank is circulating, Operator starts injecting acid to bring the PH down to a 3

Step 6: After circulating for 1 hour, Operator takes sample to lab to check PH, if PH is not a 3, lab will determine how much more acid will be needed to finish run.

Step 7: Once PH has reached a 3, operator will then transfer water to the wastewater tank, and product is shipped to a storage tank by truck.

NAPTHENIC PROCESSING PROCEDURES

Step 1: Driver brings feed into unit, Driver then signs in at the lab and brings paperwork to lab technician.

Step 2: Operator wearing full face respirator, climbs on top of the trailer to pull sample, and brings back to lab for QC. Operator waits for lab to either accept or reject load.

Step 3: Once sample has been approved by lab, Operator then unloads trailer into NV1.

Step 4: Operator lines the tank for circulation

Step 5: While tank is circulating, Operator starts injecting acid to bring the PH down to a 3

Step 6: After circulating for 1 hour, Operator takes sample to lab to check PH, if PH is not a 3, lab will determine how much more acid will be needed to finish run.

Step 7: Once PH has reached a 3, operator will then transfer water to the wastewater tank, and product is shipped to a storage tank by truck.

U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 1, Item 2 Type of Violation: Serious

29 CFR 1910.120(p)(4): A decontamination procedure meeting the requirements of 29 CFR 1910.120(k) was not developed and implemented:

a) On or about December 18, 2008, and at times thereafter, at Port Arthur Chemical and Environmental Services, the employer did not develop and implement decontamination procedures.

Response:

29 CFR 1910.120 – Hazardous Waste Operations and Emergency Response
29 CFR 1910.120(k) – Decontamination

PACES is not a TSDF Regulated under RCRA.

PACES furnishes uniforms and a cleaning service for uniforms.

§1910.120

(j)(5)(iii) *An employee alarm system* capable of being perceived above surrounding light and noise conditions shall be used to signal the commencement and completion of explosive waste handling activities.

(iv) *Continuous communications* (i.e., portable radios, hand signals, telephones, as appropriate) shall be maintained between the employee-in-charge of the immediate handling area and both the site safety and health supervisor and the command post until such time as the handling operation is completed. Communication equipment or methods that could cause shock sensitive materials to explode shall not be used.

(v) *Drums and containers under pressure,* as evidenced by bulging or swelling, shall not be moved until such time as the cause for excess pressure is determined and appropriate containment procedures have been implemented to protect employees from explosive relief of the drum.

(vi) *Drums and containers* containing packaged laboratory wastes shall be considered to contain shock-sensitive or explosive materials until they have been characterized.

Caution: Shipping of shock sensitive wastes may be prohibited under U.S. Department of Transportation regulations. Employers and their shippers should refer to 49 CFR 173.21 and 173.50.

(6) *Laboratory waste packs.* In addition to the requirements of paragraph (j)(5) of this section, the following precautions shall be taken, as a minimum, in handling laboratory waste packs (lab packs):

(i) *Lab packs shall be opened* only when necessary and then only by an individual knowledgeable in the inspection, classification, and segregation of the containers within the pack according to the hazards of the wastes.

(ii) *If crystalline material* is noted on any container, the contents shall be handled as a shock-sensitive waste until the contents are identified.

(7) *Sampling of drum and container contents.* Sampling of containers and drums shall be done in accordance with a sampling procedure which is part of the site safety and health plan developed for and available to employees and others at the specific worksite.

(8) *Shipping and transport.*

(i) *Drums and containers* shall be identified and classified prior to packaging for shipment.

(ii) *Drum or container staging areas* shall be kept to the minimum number necessary to identify and classify materials safely and prepare them for transport.

(iii) *Staging areas shall be provided* with adequate access and egress routes.

(iv) *Bulking of hazardous wastes* shall be permitted only after a thorough characterization of the materials has been completed.

(9) *Tank and vault procedures.*

(i) *Tanks and vaults* containing hazardous substances shall be handled in a manner similar to that for drums and containers, taking into consideration the size of the tank or vault.

(ii) *Appropriate tank or vault entry procedures* as described in the employer's safety and health plan shall be followed whenever employees must enter a tank or vault.

(k) Decontamination

(1) *General.* Procedures for all phases of decontamination shall be developed and implemented in accordance with this paragraph.

(2) *Decontamination procedures.*

(i) *A decontamination procedure* shall be developed, communicated to employees and implemented before any employees or equipment may enter areas on site where potential for exposure to hazardous substances exists.

(ii) *Standard operating procedures* shall be developed to minimize employee contact with hazardous substances or with equipment that has contacted hazardous substances.

(iii) *All employees leaving a contaminated area* shall be appropriately decontaminated; all contaminated clothing and equipment leaving a contaminated area shall be appropriately disposed of or decontaminated.

(iv) *Decontamination procedures* shall be monitored by the site safety and health supervisor to determine their effectiveness. When such procedures are found to be ineffective, appropriate steps shall be taken to correct any deficiencies.

(3) *Location.* Decontamination shall be performed in geographical areas that will minimize the exposure of uncontaminated employees or equipment to contaminated employees or equipment.

(4) *Equipment and solvents.* All equipment and solvents used for decontamination shall be decontaminated or disposed of properly.

§1910.120

(k)(5) *Personal protective clothing and equipment.*

(i) *Protective clothing and equipment* shall be decontaminated, cleaned, laundered, maintained or replaced as needed to maintain their effectiveness.

(ii) *Employees whose non-impermeable clothing* becomes wet with hazardous substances shall immediately remove that clothing and proceed to shower. The clothing shall be disposed of or decontaminated before it is removed from the work zone.

(6) *Unauthorized employees. Unauthhorized employees* shall not remove protective clothing or equipment from change rooms.

(7) *Commercial laundries* or cleaning establishments. Commercial laundries or cleaning establishments that decontaminate protective clothing or equipment shall be informed of the potentially harmful effects of exposures to hazardous substances.

(8) *Showers and change rooms.* Where the decontamination procedure indicates a need for regular showers and change rooms outside of a contaminated area, they shall be provided and meet the requirements of 29 CFR 1910.141. If temperature conditions prevent the effective use of water, then other effective means for cleansing shall be provided and used.

(l) Emergency response by employees at uncontrolled hazardous waste sites.

(1) *Emergency response plan.*

(i) *An emergency response plan* shall be developed and implemented by all employers within the scope of paragraphs (a)(1)(i) - (ii) of this section to handle anticipated emergencies prior to the commencement of hazardous waste operations. The plan shall be in writing and available for inspection and copying by employees, their representatives, OSHA personnel and other governmental agencies with relevant responsibilities.

(ii) *Employers who will evacuate their employees* from the danger area when an emergency occurs, and who do not permit any of their employees to assist in handling the emergency, are exempt from the requirements of this paragraph if they provide an emergency action plan complying with 29 CFR 1910.38.

(2) *Elements of an emergency response plan.* The employer shall develop an emergency response plan for emergencies which shall address, as a minimum, the following:

(i) *Pre-emergency planning.*

(ii) *Personnel roles, lines of authority, and communication.*

(iii) *Emergency recognition and prevention.*

(iv) *Safe distances and places of refuge.*

(v) *Site security and control.*

(vi) *Evacuation routes and procedures.*

(vii) *Decontamination procedures* which are not covered by the site safety and health plan.

(viii) *Emergency medical treatment and first aid.*

(ix) *Emergency alerting and response procedures.*

(x) *Critique of response and follow-up.*

(xi) *PPE and emergency equipment.*

(3) *Procedures for handling emergency incidents.*

(i) *In addition to the elements* for the emergency response plan required in paragraph (l)(2) of this section, the following elements shall be included for emergency response plans:

[A] Site topography, layout, and prevailing weather conditions.

[B] Procedures for reporting incidents to local, state, and federal governmental agencies.

(ii) *The emergency response plan* shall be a separate section of the Site Safety and Health Plan.

(iii) *The emergency response plan* shall be compatible and integrated with the disaster, fire and/or emergency response plans of local, state, and federal agencies.

(iv) *The emergency response plan* shall be rehearsed regularly as part of the overall training program for site operations.

(v) *The site emergency response plan* shall be reviewed periodically and, as necessary, be amended to keep it current with new or changing site conditions or information.

(vi) *An employee alarm system* shall be installed in accordance with 29 CFR 1910.165 to notify employees of an emergency situation; to stop work activities if necessary, to lower background noise in order to speed communication; and to begin emergency procedures.

(vii) *Based upon the information* available at time of the emergency, the employer shall evaluate the incident and the site response capabilities and proceed with the appropriate steps to implement the site emergency response plan.

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the first generic recycling exemption. Based on the terms of §261.6, storing the waste prior to the reclamation would be subject to Part 264/265, Subpart J tank standards, but the reclamation process would not be subject to RCRA permitting or management standards. [RO 11093]

Q *A facility reclaims K047 "red water," producing a sodium sulfite product that is used as an ingredient to make a product. Can the plant take advantage of the first generic recycling exemption?*

A No. When a listed by-product is reclaimed, it is a solid waste per Table 11-1. Trying to claim the §261.2(e)(1)(i) exemption during the Step 2 recycling determination won't work, because reclamation voids the exemption. The sodium sulfite stream, however, is a nonwaste product and, thus, no longer subject to RCRA. [RO 11253]

11.3.1.5 Special provision for recycling spent sulfuric acid

Sulfuric acid is one of the highest-volume chemicals produced and used in the world. Thus, it is not surprising that EPA has provided a specific recycling exemption for this type of material in §261.4(a)(7). This provision says that spent sulfuric acid used to produce virgin sulfuric acid is not a solid waste, unless it is accumulated speculatively. Because of the specific nature of this exemption, Steps 3–5 aren't applicable. (See RO 14348.)

The reason EPA promulgated this exemption is that certain parties believed that the reuse of spent sulfuric acid could be considered reclamation, which would result in a solid waste per Table 11-1 and would void the first generic recycling exemption. Rather than add several *million* tons annually of this spent acid to the universe of hazardous waste, EPA decided "the spent sulfuric acid recycling process more closely resembles a manufacturing operation than a reclamation process." [January 4, 1985; 50 *FR* 642] In that 1985 rule, the agency added the §261.4(a)(7) provision. The rulemaking record for this exclusion notes that the general concentration range of spent sulfuric acid is 5–100%. [RO 14713]

The §261.4(a)(7) exemption is specific to spent sulfuric acid recycled to produce virgin sulfuric acid. Other recycling schemes for spent sulfuric acid must be judged on their own merits. [RO 11351, 11352, 12551] Similarly, high-sulfur residues burned in a sulfuric acid regeneration furnace are not excluded if they are not spent sulfuric acid. [RO 11856] If the spent sulfuric acid is stored in a land-based unit, such as a surface impoundment, that portion which leaches into the ground, if not recovered, has been disposed and would not be excluded. If such spent sulfuric acid exhibits a characteristic, the surface impoundment would be a hazardous waste management unit. [RO 11351]

EPA has decided that spent sulfuric acid recycled by a process other than burning in industrial furnaces to produce sulfur (e.g., filtration) is not excluded under §261.4(a)(7). [RO 14570]

Q *At a manufacturing plant, hydrocarbon feedstock is reacted with sulfur trioxide in the presence of concentrated sulfuric acid to produce sulfonic acid. In addition to the product, a waste solution is generated that contains 4–15% sulfuric acid, as well as sulfonation residues. Would this waste stream be covered under the §261.4(a)(7) exemption if it is sent to a facility that uses it as feedstock in a sulfuric acid production furnace?*

A Yes. When the waste stream is removed from the manufacturing process, the contained sulfuric acid can no longer serve its intended purpose and is, therefore, spent sulfuric acid. Since the sulfuric acid concentration in the waste is within the 5–100% range, it qualifies for the exclusion when sent to a sulfuric acid production furnace. [RO 14713]

11.3.2 Use as an effective substitute for a commercial product

The second generic recycling exemption applies to secondary materials reused as substitutes for

commercial products. The actual exemption states that materials are not solid wastes when:

> "Used or reused as effective substitutes for commercial products." [§261.2(e)(1)(ii)]

A secondary material recycled from its POG and used "as is" (with no reclamation) as an effective substitute for a product that a facility would otherwise have to buy is exempt from the definition of solid waste and, therefore, cannot be a RCRA hazardous waste. "When secondary materials are *directly* used as substitutes for commercial products, we also believe these materials are functioning as raw materials and therefore are outside of RCRA's jurisdiction and, thus, are not wastes." [Emphasis in original.] [January 4, 1985; 50 *FR* 619]

Referring back to our logic diagram, Figure 11-1, this provision is listed as the second bulleted item in the lower of the two Step 2 boxes. Following the logic lines in the diagram, where this exemption applies to a given situation (i.e., the answer to the question is "Yes"), a further check of the Step 3–5 conditions is required to ensure that the recycled material in question is exempt (i.e., not a solid waste). Failure to meet the conditions in any of these steps would disqualify the secondary material stream from a solid waste exemption. Again, Steps 3–5 are described below in Sections 11.4–11.6, respectively.

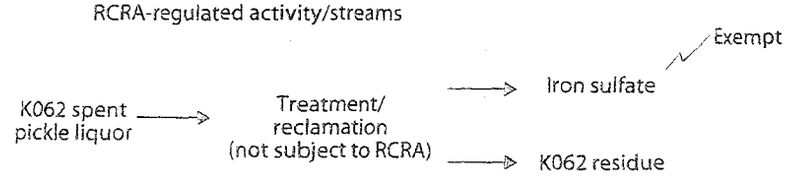
§11.3.2.1

11.3.2.1 No reclamation please

While the provision implementing the first generic recycling exemption [in §261.2(e)(1)(i)] explicitly prohibits reclamation, the regulatory language for the second exemption does not. Facilities may not take consolation in this fact, however, as EPA has stated repeatedly in guidance that reclamation is *not* allowed. [RO 11374, 11395, 11468, 11868, 13539] This position goes all the way back to the preamble to the January 4, 1985 final rule implementing the generic recycling exemptions; in that document, the agency stated several times that secondary materials must be *directly* used or reused as substitutes for commercial products to qualify under §261.2(e)(1)(ii). [See 50 *FR* 619 and 637.] What does and does not constitute reclamation was discussed previously in Section 11.3.1.2.

For example, a company recycles K062 spent pickle liquor. As shown in Figure 11-4, the facility treats the waste to extract saleable iron sulfate that is subsequently used as a substitute for the commercial product. However, the recovery step is considered reclamation. Checking Table 11-1 indicates that a spent material sent for reclamation is a solid waste. Since Step 1 doesn't get the material out of RCRA, Step 2 is initiated. Again, the reclamation process invalidates the second generic recycling exemption for the K062. The iron sulfate reclaimed in the process is considered a product when used in place of a virgin commercial product, while the remaining K062 liquor is still subject to RCRA. [Per §261.3(c)(2)(i), the reused iron sulfate is not K062 as long as it is not used in a manner constituting disposal or burned for energy recovery.] [RO 11468]

Figure 11-4: Reclamation Voids the Use as an Effective Substitute Recycling Exemption



Source: McCoy and Associates, Inc.; adapted from RO 11468.

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Title 40: Protection of Environment
PART 261—IDENTIFICATION AND LISTING OF HAZARDOUS WASTE
Subpart A—General

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§ 261.2 Definition of solid waste.

(a)(1) A *solid waste* is any discarded material that is not excluded under §261.4(a) or that is not excluded by a variance granted under §§260.30 and 260.31 or that is not excluded by a non-waste determination under §§260.30 and 260.34.

(2)(i) A *discarded material* is any material which is:

(A) Abandoned, as explained in paragraph (b) of this section; or

(B) Recycled, as explained in paragraph (c) of this section; or

(C) Considered inherently waste-like, as explained in paragraph (d) of this section; or

(D) A military munition identified as a solid waste in §266.202.

(ii) A hazardous secondary material is not discarded if it is generated and reclaimed under the control of the generator as defined in §260.10, it is not speculatively accumulated as defined in §261.1(c)(8), it is handled only in non-land-based units and is contained in such units, it is generated and reclaimed within the United States and its territories, it is not otherwise subject to material-specific management conditions under §261.4(a) when reclaimed, it is not a spent lead acid battery (see §266.80 and §273.2), it does not meet the listing description for K171 or K172 in §261.32, and the reclamation of the material is legitimate, as specified under §260.43. (See also the notification requirements of §260.42). (For hazardous secondary materials managed in land-based units, see §261.4(a)(23)).

(b) Materials are solid waste if they are *abandoned* by being:

(1) Disposed of; or

(2) Burned or incinerated; or

(3) Accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.

(c) Materials are solid wastes if they are *recycled* —or accumulated, stored, or treated before recycling— as specified in paragraphs (c)(1) through (4) of this section.

(1) *Used in a manner constituting disposal.* (i) Materials noted with a "*" in Column 1 of Table 1 are solid wastes when they are:

(A) Applied to or placed on the land in a manner that constitutes disposal; or

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(B) Used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which cases the product itself remains a solid waste).

(ii) However, commercial chemical products listed in §261.33 are not solid wastes if they are applied to the land and that is their ordinary manner of use.

(2) *Burning for energy recovery.* (i) Materials noted with a "*" in column 2 of Table 1 are solid wastes when they are:

(A) Burned to recover energy;

(B) Used to produce a fuel or are otherwise contained in fuels (in which cases the fuel itself remains a solid waste).

(ii) However, commercial chemical products listed in §261.33 are not solid wastes if they are themselves fuels.

(3) Reclaimed. Materials noted with a "—" in column 3 of Table 1 are not solid wastes when reclaimed. Materials noted with an "*" in column 3 of Table 1 are solid wastes when reclaimed unless they meet the requirements of §§261.2(a)(2)(ii), or 261.4(a)(17), or 261.4(a)(23), or 261.4(a)(24) or 261.4(a)(25).

(4) *Accumulated speculatively.* Materials noted with a "*" in column 4 of Table 1 are solid wastes when accumulated speculatively.

Table 1

	Use constituting disposal (§261.2(c)(1))	**Energy recovery/ fuel (§261.2(c)(2))**	**Reclamation (261.2(c)(3)), except as provided in §§261.2(a)(2)(ii), 261.4(a)(17), 261.4(a)(23), 261.4(a)(24), or 261.4(a)(25)**	**Speculative accumulation (§261.2(c)(4))**
	1	2	3	4
Spent Materials	(*)	(*)	(*)	(*)
Sludges (listed in 40 CFR Part 261.31 or 261.32)	(*)	(*)	(*)	(*)
Sludges exhibiting a characteristic of hazardous waste	(*)	(*)	—	(*)
By-products (listed in 40 CFR 261.31 or 261.32)	(*)	(*)	(*)	(*)
By-products exhibiting a characteristic of	(*)	(*)	—	(*)

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hazardous waste				
Commercial chemical products listed in 40 CFR 261.33	(*)	(*)	—	—
Scrap metal other than excluded scrap metal (see 261.1(c)(9))	(*)	(*)	(*)	(*)

Note: The terms "spent materials," "sludges," "by-products," and "scrap metal" and "processed scrap metal" are defined in §261.1.

(d) *Inherently waste-like materials.* The following materials are solid wastes when they are recycled in any manner:

(1) Hazardous Waste Nos. F020, F021 (unless used as an ingredient to make a product at the site of generation), F022, F023, F026, and F028.

(2) Secondary materials fed to a halogen acid furnace that exhibit a characteristic of a hazardous waste or are listed as a hazardous waste as defined in subparts C or D of this part, except for brominated material that meets the following criteria:

(i) The material must contain a bromine concentration of at least 45%; and

(ii) The material must contain less than a total of 1% of toxic organic compounds listed in appendix VIII; and

(iii) The material is processed continually on-site in the halogen acid furnace via direct conveyance (hard piping).

(3) The Administrator will use the following criteria to add wastes to that list:

(i)(A) The materials are ordinarily disposed of, burned, or incinerated; or

(B) The materials contain toxic constituents listed in appendix VIII of part 261 and these constituents are not ordinarily found in raw materials or products for which the materials substitute (or are found in raw materials or products in smaller concentrations) and are not used or reused during the recycling process; and

(ii) The material may pose a substantial hazard to human health and the environment when recycled.

(e) *Materials that are not solid waste when recycled.* (1) Materials are not solid wastes when they can be shown to be recycled by being:

(i) Used or reused as ingredients in an industrial process to make a product, provided the materials are not being reclaimed; or

(ii) Used or reused as effective substitutes for commercial products; or

(iii) Returned to the original process from which they are generated, without first being reclaimed or land disposed. The material must be returned as a substitute for feedstock materials. In cases where the original process to which the material is returned is a secondary process, the materials must be managed such that there is no placement on the land. In cases where the materials are generated and reclaimed within the primary mineral processing industry, the conditions of the exclusion found at §261.4

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(a)(17) apply rather than this paragraph.

(2) The following materials are solid wastes, even if the recycling involves use, reuse, or return to the original process (described in paragraphs (e)(1) (i) through (iii) of this section):

(i) Materials used in a manner constituting disposal, or used to produce products that are applied to the land; or

(ii) Materials burned for energy recovery, used to produce a fuel, or contained in fuels; or

(iii) Materials accumulated speculatively; or

(iv) Materials listed in paragraphs (d)(1) and (d)(2) of this section.

(f) *Documentation of claims that materials are not solid wastes or are conditionally exempt from regulation.* Respondents in actions to enforce regulations implementing subtitle C of RCRA who raise a claim that a certain material is not a solid waste, or is conditionally exempt from regulation, must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waste, or is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so.

[50 FR 664, Jan. 4, 1985, as amended at 50 FR 33542, Aug. 20, 1985; 56 FR 7206, Feb. 21, 1991; 56 FR 32688, July 17, 1991; 56 FR 42512, Aug. 27, 1991; 57 FR 38564, Aug. 25, 1992; 59 FR 48042, Sept. 19, 1994; 62 FR 6651, Feb. 12, 1997; 62 FR 26019, May 12, 1997; 63 FR 28636, May 26, 1998; 64 FR 24513, May 11, 1999; 67 FR 11253, Mar. 13, 2002; 71 FR 40258, July 14, 2006; 73 FR 64760, Oct. 30, 2008]

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Section 508 / Accessibility

U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 1, Item 3a Type of Violation: Serious

29 CFR 1910.134(d)(1)(i): The employer did not select and provide an appropriate respirator based on the respiratory hazard(s) to which the worker is exposed:

a) On or about December 18, 2008, and at times thertofore and thereafter, at Port Arthur Chemical and Environmental Services, the employer did not select and provide appropriate respirators to protect against unknown levels of hydrogen sulfide.

Response:

1. PACES uses 3M organic vapor/acid gas cartridge with respirators.
2. 3M states 3M 6003 can be used in H2S up to 10 times PEL with half face-pieces or 50 times PEL with full face-pieces. Thus, units ok for up to 100 ppm.
3. The material in Trailer 267 on December 18, 2008 was a known material with previous testing results of similar material less than 100 ppm H2S measured in head space analysis.

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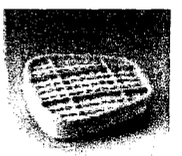

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U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 1, Item 3b Type of Violation: Serious

29 CFR 1910.1000(b)(2): Employees were exposed to airborne concentrations of Hydrogen Sulfide, listed in Table Z-2, in excess of 50 ppm as an acceptable Maxomum Peak concentration:

a) On or about December 18, 2008, an employee suffered a fatal exposure to hydrogen sulfide.

Response:

1. Joey Sutter was not exposed to excess of 50 ppm when he died on Trailer 267, since Suzi Mock's monitor for H2S did not alarm and the alarm value was set at 10 ppm.
2. Joey Sutter did not die of H2S exposure when on top of Trailer 267, on December 18, 2008.
3. See the attached "Two Incident Report" (06/22/09).

Two Incident Reports
Joey Sutter and Charles Sittig

Joey Sutter

Pre- Incident

Several days before December 17, 2008 Trailer 267 was loaded with oil from an emulsion breaking process at the PACES site 2420 South Gulfway, Port Arthur, TX.

On December 17, 2008, Brian Weathers sampled Trailer 267, removing a sample of the oil from inside the trailer (See Attachment 1).

Incident

On December 18, 2008, at 2:00 p.m., Suzi Mock and Joey Sutter went to Trailer 267 to resample the oil in the trailer. Ms. Mock climbed to the top of Trailer 267 first. Mr. Sutter started up the ladder after and behind Ms. Mock. As Mr. Sutter reached the top of the latter he collapsed. Ms. Mock grabbed Mr. Sutter so he would not fall from the Trailer 267. Ms. Mock pulled Mr. Sutter to the top of the Trailer 267. Mr. Sutter and Ms. Mock did not open the dome lid nor did she or Mr. Sutter obtain a sample at this time. This was at 2:00 p.m., Thursday, December 18, 2008. According to Mr. Wood, Mr. Sutter collapsed on top of the dome lid before it was open. In addition, Mr. Wood did not suffer from hydrogen sulfide (H2S) exposure (See Attachment 13).

Ms. Mock called for help and at 2:10 p.m. (12/18/08) the Port Arthur Fire Department was notified (See Attachment 2). Within a few minutes of 2:00pm (12/18/08) Mr. Wood went to Ms. Mock to assist her with Mr. Sutter. Mr. Wood also assisted Ms. Mock to turn Mr. Sutter over, still on top of the Trailer 267.

At 2:20 p.m. (12/18/08) the Port Arthur Fire Department arrived and by 2:35 p.m., Mr. Sutter was removed from the top of the Trailer 267 by the Port Arthur Fire Department (See Attachment 2).

Ms. Mock did not experience any illness from any hydrogen sulfide release when she was with Mr. Sutter on top of the Trailer 267. Ms. Mock's personal hydrogen sulfide monitor did not trigger when she was on top of the Trailer 267. Ms. Mock's monitor was set to alarm at 10 ppm hydrogen sulfide. Mr. Wood did not experience any illness from hydrogen sulfide while assisting Mr. Sutter.

The Port Arthur Fire Department placed Mr. Sutter's clothes and the Port Arthur Fire Department hydrogen sulfide meter in a bag. The Port Arthur Fire Department measured a reading of -0- hydrogen sulfide. The Port Arthur Fire Department returned

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to the top of Trailer 267 two hours after Mr. Sutter was removed and measured only 1 ppm hydrogen sulfide (See Attachment 2).

Post Incident

OSHA tested Mr. Sutter's clothes for hydrogen sulfide and did not find any hydrogen sulfide (See Attachment 3). OSHA tested the head space over an oil sample from Trailer 267 and did not find any hydrogen sulfide (See Attachment 4).

Hydrogen sulfide technical information sources state that it takes 700 to 1000 ppm of hydrogen sulfide to knockdown an individual with hydrogen sulfide. In addition, when a group of people are together near a hydrogen sulfide release all persons suffer health problems (See Attachment 5).

OSHA measured organic sulfur compounds in the oil which exhibits a smell similar to hydrogen sulfide, but the organic sulfur compounds are liquid at ambient temperatures and not a toxic gas.

In addition, the oil in Trailer 267 was not heated prior to the December 18, 2008 incident, since no steam was available and the trailer had been loaded prior to December 17, 2008 without any modifications of the oil for two days (See Attachment 6).

In summary, pre-incident information and post incident information does not support the concept that hydrogen sulfide was released from a trailer during a short time of a few minutes at such level of 700 to 1000 ppm to cause one of two people side-by-side to collapse and die in minutes while the second person is holding on to the dying person without having her personal hydrogen sulfide alarm activate (See Attachment 7).

In addition, a third person climbed to the top of Trailer 267 to assist the two already on trailer without getting sick from hydrogen sulfide. Also, the Port Arthur Fire Department representative did not note any problems with anyone other than Mr. Sutter. Remember, Trailer 267 was sampled the day before with out any problems.

Joey Sutter Autopsy Comments

The autopsy based its conclusions on a lab report from NMS Labs dated March 25, 2009. This NMS Labs Report based its conclusion on one test of one blood sample which was received on March 5, 2009 by NMS Labs, when the death occurred on December 18, 2008. This delay in testing appears to have violated acceptable protocols. NMS Labs states in their on-line test catalog information that the blood sample is only stable for one month. Lab Corp states in their thiosulfates in blood testing instructions that sample stability is for one month, if frozen and only 9 days refrigerated (See Attachment 8).

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The NMS Labs Report did not state that Mr. Sutter died from hydrogen sulfide poisoning. The report stated that the measured value of thiosulfate in the blood sample was similar to values found in four other situations where people were believed to have died from hydrogen sulfide. However, the thiosulfate value of 43% of the cases were above 11 mcg/ml (value measured in Mr. Sutter's blood) and 43% were below the 11 mcg/ml value. The NMS Labs Report did not speak to another NMS Labs analysis report on urine from Mr. Sutter received January 15, 2009 (See Attachment 8).
This report stated that thiosulfate in urine was normal. Technical information states that thiosulfate in urine is just as valid as thiosulfate in blood for measuring hydrogen sulfide exposure.

Both the NMS Labs Report of March 25, 2009 and the T. Brown Autopsy Report of April 17, 2009 omitted the sulfhemoglobin in blood data identified in the NMS Labs Report of January 20, 2009. Susan Jones at Southeast Texas Forensic Center (Jefferson County Morgue) stated that the sulfhemoglobin measured levels were below testing limits. As a biological marker the test data reflects no exposure to hydrogen sulfide.

Both the NMS Labs (3/25/09) report and the Mr. Sutter Autopsy had many facts wrong. For example, both stated that the site operator (PACES) was boiling water in a closed dome tank (trailer) to drive off hydrogen sulfide. Remember, this material is oil in a tanker which is not heated, since no steam was available. Also, the thiosulfate analysis of the blood did not follow correct procedures, where the thiosulfate test in the urine did follow correct lab procedures.

The Sutter Autopsy Report did show that Mr. Sutter was over weight to the point of being obese and a smoker. Mr. Sutter's blood pressure values of August 2008 were 136/90 (See Attachment 11). These numbers reach the level of Stage 1 Hypertension. Technical data states that hypertension can result in hardening of the arteries, enlarged heart, and other health issues. The T. Brown Autopsy Report (04/17/09), states that Mr. Sutter had cardiomegaly (an enlarged heart), and hardening of the arteries. The risk and complications from an enlarged heart are heart failure, blood clots, cardiac arrest, and sudden death. Earlier on December 18, 2009, there had been discussions by Mr. Sutter with others that he was feeling ill.

Charles Brent Sittig

Incident

On April 14, 2009, Charles Brent Sittig (truck driver for PACES) returned to the site with a load of weak caustic solution that was not loaded by him. Mr. Sittig parked the tractor and trailer to be unloaded by another person and moved away from the trailer into the maintenance office area of the plant site.

EPAHO082000756

Mr. Sittig sat in a chair and collapsed while making a telephone call. Mr. Sittig was a few feet away from the maintenance person who went to him after he collapsed. The maintenance person did not have any affects from hydrogen sulfide and there was not any hydrogen sulfide release or triggered any alarms.

Post Incident

The material from Mr. Sittig's truck was placed in NV1 Tank and tested for sulfides. The measured sulfide in the material was less than 1 ppm sulfide (See Attachment 9).

Data from Mr. Sittig's file shows that he was overweight. In the past his blood pressure was close to values that would disqualify him as a driver (See Attachment 12).

In summary, Mr. Sittig was not engaged in activity at the time of death. There was no hydrogen sulfide released at the time of his death. Mr. Sittig was near others that did not experience any hydrogen sulfide problems and his trailer contained material that was below 1 ppm sulfide which he did not load or unload (See Attachment 14).

Summary of Both Incident Reports (Mr. Sutter and Mr. Sittig)

Hydrogen sulfide poisoning could have not been the mechanism that caused the two deaths, since the exposure level (700 to 1000 ppm) required to knockdown and kill quickly would have affected companions, triggered alarms, showed up in clothes, and introduced odors over a wide area since the odor threshold of hydrogen sulfide is 0.005 ppm. The autopsy conclusion is based on one lab result that uses one blood sample that is beyond sample stability limits. Other lab results that do not indicate hydrogen sulfide poisoning are ignored by the autopsy writer.

In addition, low levels of hydrogen sulfide over long periods of time would not have been a factor in the deaths since recent and past results show no adverse impacts from low levels of hydrogen sulfide. Most recent data shows that low levels of hydrogen sulfide lowers blood pressure (See Attachment 10).

However, both Mr. Sutter and Mr. Sittig had weight and blood pressure issues that were significant and indicators of personal health issues.

EPAHO082000757

U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 1, Item 3c Type of Violation: Serious

29 CFR 1910.1000(e): Feasible administrative or engineering controls were not determined and implemented to achieve compliance with the limits prescribed in 29 CFR 1910.1000(a) through (d):

a) On or about December 18, 2008, Port Arthur Chemical and Environmental Services, the employer had not implemented engineering controls to insure hydrogen sulfide exposure did not exceed the prescribed limits.

Response:

1. Sodium hydrosulfite process controls collect generated H2S, uses H2S in process, and destroys remaining H2S in a flare system.
2. Process pH measurements were conducted to identify that the majority of H2S was generated and removed from the remaining oil produced from the Reactor (RV1). Lab testing and analysis measured the H2S in the head space above the oil from RV1 or other remaining material. This procedure identified associated amounts of H2S or associated dangers.
3. Protective equipment such as H2S monitors and respirators were available and in use to keep the exposure to the limits in 29 CFR 1910.1000(b)(2) Table Z-2.

4. Cross Fast Fitting, to hook up elbow from trailer to the flare.

U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 1, Item 4 Type of Violation: Serious

29 CFR 1910.134(d)(1)(iii): The employer did not identify and evaluate the respiratory hazard(s) in the workplace, including a reasonable estimate of exmployee exposures to respiratory hazard(s) and an identification of the contaminant's chemical state and physical form:

a) On or about December 18, 2008, for employees performing sampling, the employer did not make a reasonable estimate of exposure to hydrogen sulfide.

Response:

1. PACES did evaluate the respiratory hazard associated with the oil in Trailer 267 by testing the head space gas of that type of material prior to 12/18/09.

2. The data showing evaluation of the values of H2S measured in head space is less 20 ppm H2S (See Attached).

3. Thus, Trailer 267 was sampled prior to 12/18/08 with no problems associated with H2S in the gas head space above the liquid (See the attached "Two Incident Report" (06/22/09).

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

BOB MOYER
MERICHEM COMPANY

5450 OLD SPANISH TRAIL
HOUSTON, TX 77023

Sample Number: 152512-002
Sample Date: 6/10/05
Date Reported: 6/10/05
Date Received: 6/10/05
Sample ID: KMCO Tk. 789 Spent Caustic(Vapor Pha
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sulfur Speciation – Gas					
Hydrogen Sulfide	10	ppm wt	ASTM D-5504	6/4/05	JB
Sulfur Dioxide	< 1	ppm wt			
Carbonyl Sulfide	< 1	ppm wt			
Methyl Mercaptan	< 1	ppm wt			
Ethyl Mercaptan	1	ppm wt			
Dimethyl Sulfide	< 1	ppm wt			
Carbon Disulfide	43	ppm wt			
Isopropyl Mercaptan	2	ppm wt			
Ethylene Sulfide	< 1	ppm wt			
tert-Butyl Mercaptan	4740	ppm wt			
n-Propyl Mercaptan	< 1	ppm wt			
Ethyl Methyl Sulfide	< 1	ppm wt			
Thiophene	1	ppm wt			
Methyl Isopropyl Sulfide	100	ppm wt			
Isobutyl Mercaptan	< 1	ppm wt			
Ethyl Sulfide	< 1	ppm wt			
n-Butyl Mercaptan	5	ppm wt			
Methyl n-Propyl Sulfide	< 1	ppm wt			
Methyl t-Butyl Sulfide	< 1	ppm wt			
Dimethyl Disulfide	2	ppm wt			
Methyl sec-Butyl Sulfide	< 1	ppm wt			
Ethyl n-Propyl Sulfide	< 1	ppm wt			
Isopropyl Sulfide	< 1	ppm wt			
Ethyl Methyl Disulfide	6	ppm wt			
Methyl Isopropyl Disulfide	10	ppm wt			
Diethyl Disulfide	59	ppm wt			
Propyl Methyl Disulfide	< 1	ppm wt			

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EPAHO082000760

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CORE LABORATORIES

BOB MOYER
MERICHEM COMPANY

5450 OLD SPANISH TRAIL
HOUSTON, TX 77023

Sample Number: 152512-002
Sample Date: 6/10/05
Date Reported: 6/10/05
Date Received: 6/10/05
Sample ID: KMCO Tk. 789 Spent Caustic(Vapor Pha
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
Methyl tert-Butyl Disulfide	< 1	ppm wt			
Ethyl Isopropyl Disulfide	170	ppm wt			
Methyl sec-Butyl Disulfide	< 1	ppm wt			
Ethyl Propyl Disulfide	< 1	ppm wt			
Isopropyl Disulfide	< 1	ppm wt			
Isopropyl n-Propyl Disulfide	< 1	ppm wt			
Ethyl sec-Butyl Disulfide	< 1	ppm wt			
Tris-Methylthio-methane	< 1	ppm wt			
Benzothiophene	< 1	ppm wt			
Unidentified Volatile Sulfur	1540	ppm wt			

Approved By: Jean Waits
Supervising Chemist

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CORE LABORATORIES

BOB MOYER
MERICHEM COMPANY

5450 OLD SPANISH TRAIL
HOUSTON, TX 77023

Sample Number: 152426-002
Sample Date: 6/6/05
Date Reported: 6/6/05
Date Received: 6/6/05
Sample ID: KMCO SIB CAUSTIC WASH
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sulfur Speciation – Gas					
Hydrogen Sulfide	7	ppm wt	ASTM D-5504	6/6/05	JB
Carbonyl Sulfide	< 1	ppm wt			
Methyl Mercaptan	< 1	ppm wt			
Ethyl Mercaptan	< 1	ppm wt			
Dimethyl Sulfide	< 1	ppm wt			
bon Disulfide	54	ppm wt			
Isopropyl Mercaptan	< 1	ppm wt			
Ethylene Sulfide	< 1	ppm wt			
tert-Butyl Mercaptan	1310	ppm wt			
n-Propyl Mercaptan	< 1	ppm wt			
Ethyl Methyl Sulfide	< 1	ppm wt			
Thiophene	< 1	ppm wt			
Methyl Isopropyl Sulfide	11	ppm wt			
Isobutyl Mercaptan	< 1	ppm wt			
Ethyl Sulfide	< 1	ppm wt			
n-Butyl Mercaptan	< 1	ppm wt			
Methyl n-Propyl Sulfide	< 1	ppm wt			
Methyl t-Butyl Sulfide	< 1	ppm wt			
Dimethyl Disulfide	135	ppm wt			
Methyl sec-Butyl Sulfide	< 1	ppm wt			
Ethyl n-Propyl Sulfide	< 1	ppm wt			
Isopropyl Sulfide	< 1	ppm wt			
Ethyl Methyl Disulfide	7	ppm wt			
Methyl Isopropyl Disulfide	11	ppm wt			
Diethyl Disulfide	61	ppm wt			
Propyl Methyl Disulfide	< 1	ppm wt			
' 'tyl tert-Butyl Disulfide	< 1	ppm wt			

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CORE LABORATORIES

BOB MOYER
MERICHEM COMPANY

5450 OLD SPANISH TRAIL
HOUSTON, TX 77023

Sample Number: 152426-002
Sample Date: 6/6/05
Date Reported: 6/6/05
Date Received: 6/6/05
Sample ID: KMCO SIB CAUSTIC WASH
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
Ethyl Isopropyl Disulfide	224	ppm wt			
Methyl sec-Butyl Disulfide	< 1	ppm wt			
Ethyl Propyl Disulfide	< 1	ppm wt			
Isopropyl Disulfide	< 1	ppm wt			
Isopropyl n-Propyl Disulfide	< 1	ppm wt			
Ethyl sec-Butyl Disulfide	< 1	ppm wt			
Methylthio-methane	< 1	ppm wt			
Benzothiophene	< 1	ppm wt			
Unidentified Volatile Sulfur	2020	ppm wt			

Approved By:

Jean Waits
Supervising Chemist

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CORE LABORATORIES

CLARK HICKMAN
CES ENVIRONMENTAL SERVICES
4904 GRIGGS RD
HOUSTON, TX 77021

Sample Number:	171400-001
Sample Date:	4/10/07 12:05:00 PM
Date Reported:	4/10/07
Date Received:	4/10/07
Sample ID:	RT Wash T-789
Description:	SIB KMCO

Analytical Report

Test	Result	Units	Method	Date	Analyst
Hydrogen Sulfide -- Stain Tube					
Hydrogen Sulfide	< 1	ppm v / v	ASTM D-4913	4/10/07	JB

Approved By: Jean Waits
Supervising Chemist

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CORE LABORATORIES

Core Lab
8210 Mosley Road
Houston, Texas 77075
Phone: 713-943-9776
Fax: 713-943-3846

No. 22451

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	CES Environmental Serv.	PROJECT NAME/NUMBER:	KMCO SIB
SEND REPORT TO:	Clark Hickman	BILLING INFORMATION	
ADDRESS:	4904 Griggs Rd	BILL TO:	CES Env Serv. Inc
		ADDRESS:	4904 Griggs Rd
	Houston, TX 77021		Houston TX 77021
PHONE:	713-676-1460	PHONE:	713-676-1460
FAX:	713-676-1676	FAX:	713-676-1676

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.										REMARKS / PRECAUTIONS
	RT Wash T-789 SIB KMCO	4/10/07	1200 pm	Gas	Tedlarbag					X						

SAMPLER: | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND:* ☒ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Clark G Hickman	4/10/07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 2:43 pm	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: A Middleton	4/10/07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

ORIGINAL

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Ryan Thomas**

- CERTIFICATE OF RESULTS -

MES Lab#: 8010603

Client Sample ID: 0108-50 CES Fuels

Sample Collect Date: 1/24/2008 @ 9:50:00 AM
Sample Receipt Date: 1/24/2008 @ 11:05:00 AM

Test Group / Method

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: TFR Date / Time
Vinyl chloride	0.10	0.2	< 0.10	mg/L	1/28/2008 / 4:08 AM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L	1/28/2008 / 4:08 AM
2-Butanone	0.50	200	< 0.50	mg/L	1/28/2008 / 4:08 AM
Chloroform	0.05	6	< 0.05	mg/L	1/28/2008 / 4:08 AM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	1/28/2008 / 4:08 AM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	1/28/2008 / 4:08 AM
Benzene	0.05	**0.5**	**H 8.17**	**mg/L**	1/28/2008 / 4:08 AM
Trichloroethene	0.05	0.5	< 0.05	mg/L	1/28/2008 / 4:08 AM
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	1/28/2008 / 4:08 AM
Chlorobenzene	0.05	100	< 0.05	mg/L	1/28/2008 / 4:08 AM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	1/28/2008 / 4:08 AM
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	1/28/2008 / 4:08 AM

TCLP Semi-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time
Pyridine	0.50	5	< 0.50	mg/L	1/26/2008 / 12:21 PM
1,4-Dichlorobenzene	0.50	7.5	< 0.50	mg/L	1/26/2008 / 12:21 PM
o-Cresol	0.50	200	< 0.50	mg/L	1/26/2008 / 12:21 PM
m+p-Cresol	0.50	200	< 0.50	mg/L	1/26/2008 / 12:21 PM
Hexachloroethane	0.50	3	< 0.50	mg/L	1/26/2008 / 12:21 PM
Nitrobenzene	0.50	2	< 0.50	mg/L	1/26/2008 / 12:21 PM
Hexachlorobutadiene	0.50	0.5	< 0.50	mg/L	1/26/2008 / 12:21 PM
2,4,6-Trichlorophenol	0.50	2	< 0.50	mg/L	1/26/2008 / 12:21 PM
2,4,5-Trichlorophenol	0.50	400	< 0.50	mg/L	1/26/2008 / 12:21 PM
2,4-Dinitrotoluene	0.50	0.13	< 0.50	mg/L	1/26/2008 / 12:21 PM
Hexachlorobenzene	0.50	0.13	< 0.50	mg/L	1/26/2008 / 12:21 PM
Pentachlorophenol	5.00	100	< 5.00	mg/L	1/26/2008 / 12:21 PM

EPAHO082000766

- CERTIFICATE OF RESULTS -

MES Lab#: 8010603

Client Sample ID: 0108-50 CES Fuels

Sample Collect Date: 1/24/2008 @ 9:50:00 AM
Sample Receipt Date: 1/24/2008 @ 11:05:00 AM

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time
Arsenic	0.050	5	< 0.050	mg/L	1/28/2008 / 12:26 AM
Barium	0.002	100	**0.013**	mg/L	1/28/2008 / 12:26 AM
Cadmium	0.004	1	< 0.004	mg/L	1/28/2008 / 12:26 AM
Chromium	0.007	5	**0.180**	mg/L	1/28/2008 / 12:26 AM
Lead	0.010	5	< 0.010	mg/L	1/28/2008 / 12:26 AM
Selenium	0.050	1	< 0.050	mg/L	1/28/2008 / 12:26 AM
Silver	0.002	5	< 0.002	mg/L	1/28/2008 / 12:26 AM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	1/28/2008 / 12:16 AM

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	1/28/2008 / 1:20 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: AB Date / Time
Hydrogen Sulfide	0.25	**0.60**	mg/kg	1/25/2008 / 10:17 AM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: JE Date / Time
pH		**5.76**		1/25/2008 / 11:00 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time
Flashpoint		**70**	deg F	1/25/2008 / 1:30 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, January 29, 2008
Date

EPAHO082000767

8010603

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	109.3
Toluene-d8	105.4
4-Bromofluorobenzene	113.6

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	51.1
Phenol-d6	52.6
Nitrobenzene-d5	44.7
2-Fluorobiphenyl	42.2
2,4,6-Tribromophenol	46.0
p-Terphenyl-d14	46.9

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	10[illegible]	65.2	67.7	3.8
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	10[illegible]	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	10[illegible]	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	10[illegible]	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87[illegible]	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	10[illegible]	73.4	75.6	3.06

ANALYTE	STD
Flashpoint	82°F

ANALYTE	BUFFER 7.0	ORIG	DUP	DUP RPD
pH	7.0	6.09	6.10	0.16

ANALYTE	ORIG mg/kg	DUP mg/kg
Reactivity as Hydrogen Sulfide	0.60	0.60

8010603

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT CONTINUED

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD	STD %REC
Reactivity as Hydrogen Cyanide	<0.005	<0.005	0.00	103

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery
ML=Minimum Level of Quantitation

Signature: _____ January 28, 2008
Holland D. Gilmore / Laboratory Director

PAGE 05/05
MES
01/29/2008 17:57 2814764406
EPAHO082000770

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental
COMPANY ADDRESS: 4904 Griggs Rd
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Ryan Thomas
CONTACT PERSON'S PHONE: (713)676-1460 FAX #: (713)676-1676

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:

PROJECT ADDRESS:

3 **4** PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP Metals	TCLP Volatiles	TCLP SVOA/Pesticides	RCI				NUMBER OF CONTAINERS	PRESERVATIONS
0108-30 CES Foods		1/24	9:50										

5 REMARKS

TURNAROUND TIME: 2 DAY

DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements

Ice 4°C

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Dustin Taylor b.

RELINQUISHED BY: (Signature) | DATE: 1/24 | TIME: 11:05 | RECEIVED BY: (Signature)

7

RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature)

METHOD OF PAYMENT | SHIPPED BY: (Signature) | COURIER (Signature) | RECEIVED FOR MES BY: (Signature) | DATE 1/24 | TIME 11:05

8

Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

MATERIAL SAFETY DATA SHEET

Port Arthur Chemical and Environmental Services, L.L.C.
2450 South Gulfway Drive
Port Arthur, TX
713-676-1460
Chemtrec–Product Emergency Hotline
1-800-424-9300

May be used to comply with OSHA'S Hazard Communication Standard 29CFR 1910.1200. Standard must be consulted for specific requirements

SECTION I — PRODUCT IDENTIFICATION

TRADE NAME:	PACES Organo-Sulfur Feedstock
U.S.D.O.T. SHIPPING NAME:	FLAMMABLE LIQUID, n.o.s.
U.S.D.O.T. PRIMARY HAZARD CLASS:	3, (Contains Petroleum Distillates
IDENTIFICATION NUMBER:	UN1993

SECTION II

HAZARDOUS COMPONENTS — HAZARDOUS INGREDIENTS-IDENTIY INFORMATION

	CAS No.	ACGIH TLV	VOL %
XYLENE	106-42-3	100 ppm	5 – 30
HEPTANE	142-82-5	400 ppm	5 - 30
HEXANE	110-54-3	50 ppm	5 - 30
ETHYL BENZENE	100-41-4	100 ppm	5 - 30
TOLUENE	108-88-3	50 ppm	5 - 30
METHANOL	67-56-1	200 ppm	5 - 30
BUTANOL	71-36-3	20 ppm	5 - 30
PROPONOL	71-23-8	200 ppm	5 - 30
ETHANOL	64-17-5	1,000 ppm	5 - 30
DIMETHYL DISULFIDE	624-92-0		5 - 30
DIETHYL DISULFIDE	110-81-6		5 - 30
GASOLINE	86290-81-5	300 ppm	5 - 30
ACETIC ACID	64-19-7	10 ppm	5 - 30
ISOPROPYL ETHER	108 20 3	250 ppm	5 - 30
PROPIONIC ACID	64-19-7	10 ppm	5 - 30
NAPHTHALENE	91-20-3	10 ppm	5 - 30
PROPYLAMINE	107-10-8		5 - 30
KEROSENE	8008-20-6	200 ppm	5 30
DIESEL	68334-30-5	100 ppm	5 - 30
ETHYLENE GLYCOL	107-21-1		5 - 30
PROPYLENE GLYCOL	57-55-6		5 – 30
HYDROGEN SULFIDE			< .05
METHYL MERCAPTAN			0 – 5
ETHYL MERCAPTAN			0 – 5
DIMETHYL SULFIDE			0 – 3
ETHYL METHYL SULFIDE			0 – 3
DIMETHYL DISULFIDE			2 – 8
ETHYL METHYL DISULFIDE			2 – 8
ETHYL DISULFIDE			1 – 5
PROPYL DISULFIDE			0 – 3
PHENOL			0 – 8
O – CRESOL			3 – 10
M – CRESOL			3 – 10
P – CRESOL			3 – 10
DI–TERT BUTYL DISULFIDE			1 – 8
CARBON DISULFIDE			< 1
TERT-BUTYL MERCAPTAN			0 - 3

Other components, if any, are considered to be non-hazardous as per OSHA 29 CFR 1910.1200.

SECTION III — PHYSICAL and CHEMICAL CHARACTERISTICS

FLASH POINT	80F USING TAG CLOSED CUP ASTM D-56
SPECIFIC GRAVITY (H2O=1)	0.82 @ 20C

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VAPOR DENSITY (AIR =1)	GREATER THAN 1
% SOLIDS:	0
WEIGHT (LB/GAL):	6.85
SOLUBILITY IN WATER:	INSOLUBLE TO LOW SOLUBILITY
APPEARANCE and ODOR	CLEAR to YELLOW/BROWN/BLACK LIQUID; ALCOHOL and SOLVENT ODOR
EVAPORATION RATE (BA =1)	<1

SECTION IV — FIRE and EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:	CARBON DIOXIDE, DRY CHEMICAL, REGULAR FOAM WATER SPRAY.
SPECIAL FIRE FIGHTING PROCEDURES:	USE SELF-CONTAINED BREATHING APPARATUS.
UNSUAL FIRE and EXPLOSION HAZARDS:	HEATING OF NON-VENTED CONTAINER MAY CAUSE EXPLOSION. KEEP SURROUNDING CONTAINERS; COOL WITH WATER SPRAY.

SECTION V — REACTIVITY DATA

STABILITY:	STABLE
MATERIALS TO AVOID:	OXIDIZING AGENTS
CONDITIONS TO AVOID:	CONTACT WITH OPEN FLAME
HAZARDOUS DECOMPOSITION PRODUCTS:	CARBON MONOXIDE and ASPHYXLANTS MAY BE FORMED DURING COMBUSTION
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR

SECTION VI — HEALTH HAZARD DATA

SIGNS and SYMPTOMS OF EXPOSURE:

EYES:	IRRITATION, REDNESS
DERMAL	DRYNESS, IRRITATION and REDNESS
INHALATION:	VAPORS MAY IRRITATE NOSE, THROAT and RESPIRATORY TRACT
INGESTION:	NAUSEA, VOMITING, DIZZINESS, HEADACHE and VISION

EMERGENCY and FIRST AID PROCEDURES:

EYES:	FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
DERMAL:	WASH WITH SOAP and WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, GET MEDICAL ATTENTION. IMMEDIATELY REMOVE SOAKED CLOTHING, and WASH BEFORE REUSE.
INHALATION:	REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION PROVIDED A QUALIFIEDINDIVIDUAL IS AVAILABLE. GET MEDICAL ATTENTION PROMPTLY.
INGESTION:	**DO NOT INDUCE VOMITING. DO NOT GIVE LIQUIDS.** OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS, WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE IS GONE.
ACUTE HEALTH HAZARDS:	MILD IRRITATION TO THE EYES and SKIN.
CHRONIC HEALTH HAZARDS:	NONE EXPECTED AT THE INDUSTRIAL LEVEL.
CARCINOGENICITY:	THIS PRODUCT IS **NOT** LISTED AS A KNOWN CARCINOGEN **NOR** DOES IT CONTAIN COMPONENTS WHICH ARE CONSIDERED CARCINOGENIC BY OSHA, NTP, OR IARC

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

DIKE OR PILL AREA. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA IF NECESSARY. ABSORB FREE LIQUID WITH EARTH, SAND, CLAY, OR ABSORBENT PADS AND PLACE IN NON-LEAK CONTAINERS FOR DISPOSAL. FLUSH ATEA FOR TRACE RESIDUE AND DISPOSE OF AS

EPAHO082000772

BELOW.

WASTE DISPOSAL METHOD:

IN ACCORDANCE WITH LOCAL, STATE and FEDERAL LAWS.

SECTION VIII	SPECIAL PROTECITON INFORMATION
RESPIRATORY PROTECITON:	FULL FACE RESPIRATOR RECOMMENDED
VENTILATION:	MECHANICAL TO MAINTAIN GOOD AIR FLOW
PROTECTIVE GLOVES:	RUBBER
EYE PROTECTION:	GOGGLES OR SAFETY GLASSES
OTHER:	AS NEEDED TO MINIMIZE EXPOSURE
HYGIENIC PRACTICE:	ALWAYS WASH FACE and HANDS AFTER CONTACT

SECTION IX NOTES

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility or injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in the use of this material.

Effective Date: July 29, 2006
Revision Date: June 5, 2009

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U.S. Department of Labor
Occupational Safety and Health Administration

Inspection No: 311960975
Inspection Dates: 12/19/08 & 3/18/09
Issuance Date: June 17, 2009

Citation and Notification of Penalty

Company Name: Port Arthur Chemical & Environmental Services
Inspection Site: 2420 South Gulfway Drive, Port Arthur, TX 77640

Citation 2 Item 1 Type of Violation: Other

CFR 1904.4(a)(1): Basic requirement. Each employer required by this Part to keep records of fatalities, injuries, and illnesses did not record each fatality, injury and illness that is work-related.

a) At the Port Arthur Chemical and Environmental Services in Port Arthur, TX, the employer failed to record the injuries and illnesses for two incidents.

Response:

1. Joey Sutter incident was recorded (See Attachment).
2. Charles Brent Sittig incident was recorded (See Attachment).

OSHA's Form 300
Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 2008

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

You must record information about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an injury and illness incident report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name Port Arthur Chemical & Environ Services, LLC

City Port Arthur State Texas

Identify the person				Describe the case		Classify the case										
						Using these categories, check ONLY the most serious result for each case:				Enter the number of days the injured or ill worker was:		Check the "injury" column or choose one type of illness:				
								Remained at work				(M)				
(A) Case No.	(B) Employee's Name	(C) Job Title (e.g., Welder)	(D) Date of injury or onset of illness (mo./day)	(E) Where the event occurred (e.g. Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g. Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	On job transfer or restriction (days) (K)	Away from work (days) (L)	Injury (1)	Skin Disorder (2)	Respiratory Condition (3)	Poisoning (4)	All other illnesses (5)
1	Joey W. Sutter	Technician	12/18/08	PACES Complex	Death (waiting for report)	x										
					Page totals	1	0	0	0	0	0	0	0	0	0	0

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instruction, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistics, Room N-3644, 200 Constitution Ave, NW, Washington, DC 20210. Do not send the completed forms to this office.

Injury	Skin Disorder	Respiratory Condition	Poisoning	All other illnesses
(1)	(2)	(3)	(4)	(5)

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OSHA's Form 300A
Summary of Work-Related Injuries and Illnesses

Year 2008

U.S. Department of Labor
Occupational Safety and Health Administration
Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the log. If you had no cases write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR 1904.35, in OSHA's Recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
1	0	0	0
(G)	(H)	(I)	(J)

Number of Days

Total number of days of job transfer or restriction	Total number of days away from work
0	0
(K)	(L)

Injury and Illness Types

Total number of...	(M)		
(1) Injury	0	(4) Poisoning	0
(2) Skin Disorder	0	(5) All other illnesses	0
(3) Respiratory Condition	0		

Establishment information

Your establishment name Port Arthur Chemical Environonmental Services, LLC

Street 2420 South Gulfway Drive

City Port Arthur State TX Zip 77640

Industry description (e.g., Manufacture of motor truck trailers)
Manufcaturing facility

Standard Industrial Classification (SIC), if known (e.g., SIC 3715)
2 8 1 9

Employment information

Annual average number of employees 13

Total hours worked by all employees last year 17622

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive — President (Title)

713-676-1460 (Phone) — 1/20/2009 (Date)

Post this Summary page from February 1 to April 30 of the year following the year covered by the form

Public reporting burden for this collection of information is estimated to average 50 minutes per response, including time to review the instruction, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistics, Room N-3644, 200 Constitution Ave. NW, Washington, DC 20210. Do not send the completed forms to this office.

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A

Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25908

PO #	Customer: Alliva	Date: 5/29/09
Tractor: 10	Address:	Time:
Trailer / Container Number: T-92	Dropped By: Patrick S. Bailey	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Tk - Rinsed			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse ✓	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: S I

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.S.S.T. Date 6-2-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000779

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25970

PO #	Customer: A-One-Chem	Date: 5/21/09
Tractor	Address:	Time:
Trailer / Container Number 230	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	The sale of 44 Totes @ $45 ea. T-40			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP Date 5/21/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

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ɔ Environmental Services

ɔntainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22236

PO #	Customer: Advantage truck lines	Date: 12.06.06
Tractor 3864	Address:	Time: 1:47p
Trailer / Container Number 5528	Dropped By: Juan. O. Gonzalez	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Reclean			
2	" "			
3	" "			
4	" "			
5	" "			

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2 0	#3 0	#4 0	#5
CO^2 (<35 ppm)	#1 0	#2 0	#3 0	#4 0	#5
Toxic Vapor	#1 0	#2 0	#3 0	#4 0	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 12-8-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000781

...ironmental Services
...r / Tank Cleaning Division
...riggs Rd. • Houston, TX 77021
...ne: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26303

PO #	Customer: Altivia	Date: 8·12·09
Tractor 40	Address:	Time: 12:45p
Trailer / Container Number T-81	Dropped By: Ken Thomas	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	Chlorine			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: A R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A. R. Date 8-18-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000782

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26395

PO #	Customer: Cagon	Date: 2-4-9
Tractor 580	Address:	Time:
Trailer / Container Number DC SFG	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	/
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J.P.R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.P.R. Date 2-4-9

Inspected By: _____ Date _____

Print Name: MICHEAL V. COLER Date 2-4-9

Signature: Michael V. Coler

EPAHO082000783

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22844

PO #	Customer: ADLER	Date: 1/23/09
Tractor 2000	Address:	Time: 17:30
Trailer / Container Number RT 762	Dropped By: Omar Sanchez	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Regular Wash			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 1-24-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000784

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26337

PO #	Customer: Allied Petro	Date: 2/6/09
Tractor 4964	Address:	Time: 11:50
Trailer / Container Number 7281	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 2-10-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000785

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22233

PO #	Customer: Advantage	Date: 12.08.08
Tractor 38616	Address:	Time: 12:28p
Trailer / Container Number 2108	Dropped By: x Juan, D. Gonzalez	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oil		—	
2	Oil			
3	Oil			
4	Oil			
5	Oil			

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Acid wash 1 unit

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T. / JE Date 12-11-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000786

B

...ironmental Services
...ner / Tank Cleaning Division
...4 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26164

PO #	Customer: Bello Tank Xpress	Date: 6-12-9
Tractor 320	Address:	Time:
Trailer / Container Number 10	Dropped By: Roy L. Barger	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Empty Clean			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	/
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:
B170
ch # 21067

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 6-12-9

Inspected By: _____ Date _____

Print Name: Roy Barger Date 6-12-09

Signature: Roy L Barger

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25927

PO #	Customer: A-One Chem.	Date: 5/28/09
Tractor 279	Address:	Time:
Trailer / Container Number 245	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	~~Purchase~~ ~~82~~ ~~444 Totes~~ @ $65 per Tote			
2	Sale of Tote To A-One			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP Date 5/28/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22550

PO #	Customer: B J.	Date: 12/29/04
Tractor V 784	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	[redacted] totes			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: MC Date 12/29/04

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22287

PO #	Customer: Baker Hughes	Date: 12-10-08
Tractor	Address:	Time: 7:53a
Trailer / Container Number SP002	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	haz waste solids			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Jac	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Catch [redacted] wash

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R Date 12-12-08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26342

PO #	Customer: Blentech	Date: 2-6-9
Tractor 397	Address:	Time:
Trailer / Container Number DKOV240079-2	Dropped By: Fernando L.	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Dioctyl phthalate			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.2	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 2-6-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

C

D

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDE

22888

PO #	Customer: Continuum Chem	Date: 1/27/09
Tractor	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Purchase of 7 Totes			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Ch# 37-65 / 1119 233
$420.00

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is [illegible] responsible for any [illegible]

Cleaned By: SP Date 1/28/09

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000794

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24490

PO #	Customer: KL Chem Pak	Date: 6/18/09
Tractor	Address:	Time:
Trailer / Container Number: 2573	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Steam / Alcohol			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	/
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 6-18-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26198

PO #	Customer: Cross Road.	Date: 6/17/05
Tractor 501	Address:	Time:
Trailer / Container Number 101	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By:_____ Date_____

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000796

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24493

PO #	Customer: Cross Road Trans.	Date: 6/18/09
Tractor	Address:	Time:
Trailer / Container Number: 101	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Rinse water Inspection			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	✓
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2 ____	#3 ____	#4 ____	#5 ____
LEL (<10%)	#1 0	#2 ____	#3 ____	#4 ____	#5 ____
CO^2 (<35 ppm)	#1 0	#2 ____	#3 ____	#4 ____	#5 ____
Toxic Vapor	#1 0	#2 ____	#3 ____	#4 ____	#5 ____

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 6-18-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

iner / Tank Cleaning Division
4 Griggs Rd. • Houston, TX 77021
none: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25621

PO #	Customer: CKG	Date: 4/20/09
Tractor 01	Address:	Time:
Trailer / Container Number 19 Totes	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Recycle 20 J 19			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services: ✓

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST. Date 5-28-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000798

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25928

PO #	Customer: Continuum Chem.	Date: 5/28/09
Tractor	Address:	Time: 12:14
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sale of (80) Drums @ $7 per drum			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.P. Date 5/27/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22668

PO #	Customer: Calgonie	Date: 1/13/09
Tractor 589	Address:	Time: 17:22
Trailer / Container Number DC 5 [illegible]	Dropped By: Gerald W. Jerkey	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Activated Carbon			
2	Activated Carbon			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 [illegible]	#2 [illegible]	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JT

Stripper Usage:

Comments:
Need To get COM - check In AM. (J?)

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JT Date 1-13-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000800

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22676

PO #	Customer: City of Houston (Wharf 1)	Date: 01-14-09
Tractor 108	Address: 7600 JV Peavy Drive Houston 77021	Time: 1600
Trailer / Container Number 274579	Dropped By: Irvin L. Woodard	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JF Date 1-15-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000801

Environmental Services

ainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
hone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22343

PO #	Customer: Calcon	Date: 1/09/09
Tractor 525	Address:	Time: 12:13
Trailer / Container Number 35FG	Dropped By: James Wilson	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Caustic			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: ST Date 1/9/09

Inspected By:_____ Date_____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: S

Stripper Usage:

Comments:

CK # 569 5/52136

$147.38

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22677

PO #	Customer: Calgon	Date: 1/11/09
Tractor 87	Address:	Time: 17 00
Trailer / Container Number 35 66	Dropped By: clyde [illegible]	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	cashew			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JT

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JT Date 1-11-09

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000803

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22263

PO #	Customer:	Date:
7370	KL ChemPak	12-4-08
Tractor	**Address:**	**Time:**
70	Lester Pa/Houston Tx	1200
Trailer / Container Number	**Dropped By:**	**Need By:**
2799	Chris Soho	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crystal Cel 20			
2	WAX			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	✓
18 Hand Labor (# Men / # Hours)	✓ 2 Hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	1 - 3"
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 12-04-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000804

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22268

PO #	Customer:	Date:
9401	K.L. Chem PAK ERIC	12-4-08
Tractor	**Address:**	**Time:**
	HOUSTON TX	
Trailer / Container Number	**Dropped By:**	**Need By:**
1514	OSCAR WALLACE	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CRUDE FILL OILFIELD WATER		125	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓ 2 men 2 hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 Read #2____ #3____ #4____ #5____
LEL (<10%) #1 0 #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1 0 #2____ #3____ #4____ #5____
Toxic Vapor #1 0 #2____ #3____ #4____ #5____
Signature: K

Stripper Usage:

Comments: approved

Authorized Additional Services:

Cleaned By: J R Date 12-9-08

Inspected By:_____ Date_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

EPAHO082000805

CES Environmental Services
[redacted] Tank Cleaning Division
4504 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22397

PO #	Customer:	Date:
94134	Q.C. / Chem Pak	12-10-08
Tractor 1156857	**Address:**	**Time:**
Trailer / Container Number 21-653	**Dropped By:** Darryl Collins	**Need By:**

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Cable Fill			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	✓
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	✓
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	✓
18	Hand Labor (# Men / # Hours)	✓
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JT

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JT Date

Inspected By: Date

Print Name: Date

Signature: Darryl Collins

EPAHO082000806

[redacted]mental Services
[redacted] Cleaning Division
[redacted]ston, TX 77021
[redacted] Fax: (713) 676-1676

TANK WASH WORK ORDER

22517

PO #	Customer: Q.C. / Chempak	Date: 12-15-08
Tractor 456857	Address:	Time:
Trailer / Container Number 21708	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Cable Fill			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	✓
18 Hand Labor (# Men / # Hours)	✓
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: S.T. Date 12-16-08

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Probe	#2 ____	#3 ____	#4 ____	#5 ____
LEL (<10%)	#1 0	#2 ____	#3 ____	#4 ____	#5 ____
CO^2 (<35 ppm)	#1 0	#2 ____	#3 ____	#4 ____	#5 ____
Toxic Vapor	#1 0	#2 ____	#3 ____	#4 ____	#5 ____

Signature: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: DARRYL Collins Date 12-15-08

Signature: Darryl Collins

CES Environmental Services
Container / Tank Cleaning Division
4904 Gri[illegible]d. • Houston, TX 77021
Phone: (713) 676-[illegible]60 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25474

PO #	Customer:	Date:
10120	KL CHEM PAK	4-2-09
Tractor 425572	**Address:**	**Time:** 615
Trailer / Container Number 2798	**Dropped By:** DARRYL	**Need By:** ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	RHODASURF BC-610			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: mc

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: mc Date 4-2-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

Environmental Services
Container / Tank Cleaning Division
5904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25623

PO #	Customer:	Date:
040709-1EB	Chemtek Intl Inc.	04/07/09
Tractor	**Address:**	**Time:**
07	3647 Willowbend Blvd, Suite 800 Houston TX 77054	11:30
Trailer / Container Number	**Dropped By:**	**Need By:**
MLKU543142-5	Eric Band	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☒ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
(1)	Cetyl Stearyl Alcohol - CS20D			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature C. P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 4-7-09

Inspected By: _____ Date _____

Print Name: ERIC BAND Date 4/07/09

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25582

PO # 10204	Customer: KL-Chempak	Date: 4-10-09
Tractor 391	Address:	Time: 1:00
Trailer / Container Number 1941	Dropped By: Brian Riggins	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Rhoda Surf BC 610			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 ✓	#2	#3	#4	#5
LEL (<10%)	#1 ✓	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 ✓	#2	#3	#4	#5
Toxic Vapor	#1 ✓	#2	#3	#4	#5

Signature: JP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP Date 4/10/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

.nvironmental Services
er / Tank Cleaning Division
Griggs Rd. • Houston, TX 77021
lone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25675

PO #	Customer:	Date:
10240	Chem Pack	4-20-9
Tractor 959	**Address:**	**Time:** 6:30pm
Trailer / Container Number 2798	**Dropped By:**	**Need By:**

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Wax			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	3hr @ $70 per hr
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:
2 - Drums @ $35 per drum.

Authorized Additional Services:

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 4/21/9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: Tom Kaylor

nental Services
Cleaning Division
.d. • Houston, TX 77021
) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25537

42409-1EB	Customer: ChemPak Cntl Inc	Date: 4-24-09
Tractor: OD	Address: 3647 Willowbend Blvd, Suite 800 Houston TX 77059	Time: 09:55
Trailer / Container Number: MCKU543038-9	Dropped By: Eric Bond	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☒ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	PEG 4000			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	2				
LEL (<10%)	0				
CO^2 (<35 ppm)	0				
Toxic Vapor	0				

Signature: [signature]

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 4-24-09

Inspected By: _____ Date _____

Print Name: Eric Bond Date 4/24/09

Signature: [signature]

EPAHO082000812

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25756

PO #	Customer:	Date:
Everance	CleanPak	4/30/09
Tractor	**Address:**	**Time:**
01		1210
Trailer / Container Number	**Dropped By:**	**Need By:**
2798	Greg Lyons	5/1/09 0830

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Wax			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 4 30 9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000813

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25773

PO #	Customer:	Date:
051209-1EB	Chemtek Sentral Inc	5-12-09
Tractor	**Address:**	**Time:**
00	3647 Willowbend Blvd, Suite 800, Houston TX 77054	11:15
Trailer / Container Number	**Dropped By:**	**Need By:**
761	Eric Baud	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Paraffin Wax			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 5-12-09

Inspected By: _____ Date _____

Print Name: Eric Baud Date 5/12/09

Signature: [signature]

EPAHO082000814

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26360

PO #	Customer: Continuum Chem.	Date: 2/3/09
Tractor 3L703	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sale of Plans			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:
CK #11062
470

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J. Date 2/3/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22515

PO #	Customer: CKC	Date: 12/15/08
Tractor	Address:	Time:
Trailer / Container Number: 19 tons 1 light 19	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Recycle			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1 6 #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Clean

Authorized Additional Services:

57 Tote to H25 for Tote

Cleaned By: JP Date 5/20/13

Inspected By:_____ Date_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22515

PO #	Customer: CKC	Date: 12/15/17
Tractor	Address:	Time:
Trailer / Container Number: 19 tons 11/11	Dropped By:	Need By:

CONTAINER TYPE: ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Recycle			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

clean

Authorized Additional Services:

57 Tallow 25 gal

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP Date 5/26/18

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

.nvironmental Services
ıer / Tank Cleaning Division
Griggs Rd. • Houston, TX 77021
.one: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22534

PO #	Customer: CKG	Date: 12/30/08
Tractor	Address:	Time:
Trailer / Container Number 19 Totes	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Recycling of 19 Totes @ $25 per Tote			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 ✓	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:
For cleaning & Recycling of 19 Totes @ $25 per Tote

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: SP Date 5/5/09

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000818

Environmental Services
...er / Tank Cleaning Division
...Griggs Rd. • Houston, TX 77021
...one: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22534

PO #	Customer:	Date:
	CK C.	12/30/04
Tractor	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:
10 Tutas		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel 19 - Tutas 4/5 T			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By:_____ Date 5/5/05

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

vironmental Services
/ Tank Cleaning Division
riggs Rd. • Houston, TX 77021
ne: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22231

PO #	Customer: CKG	Date: 12.08.00
Tractor	Address:	Time: 11:51A
Trailer / Container Number: 14 totes recycled	Dropped By: ERIC	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☑ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	14+19+33			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

Cleaned By: JR Date 4/20/19

Inspected By: _____ Date _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

...ironmental Services
... / Tank Cleaning Division
...riggs Rd. • Houston, TX 77021
...e: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22231

PO #	Customer: CKG	Date: 12-08-08
Tractor	Address:	Time: 11:51A
Trailer / Container Number: 14 totes recycled	Dropped By: ERIC	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☑ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	14+19			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 12/20/08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

...nvironmental Services

...ainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22237

PO #	Customer: CKG	Date: 12-08-08
Tractor 01	Address:	Time: 1:51p
Trailer / Container Number 19totes-recycled	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	19+19=38			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: AR/SP Date 12/23/08

Inspected By:_____ Date_____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22237

PO #	Customer: CKG	Date: 12-08-08
Tractor 01	Address:	Time: 1:51p
Trailer / Container Number: Plates-recycled	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	19 + 19 = 38			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: AR /SP Date 12/23/19

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000823

Environmental Services

ainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22277

PO #	Customer: CKG	Date: 12.09.08
Tractor 01	Address:	Time: 11:10A
Trailer / Container Number 17 tote 419	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3	recycle			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR C.P. Date 1-27-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

Environmental Services
ainer / Tank Cleaning Division
+ Griggs Rd. • Houston, TX 77021
one: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22282

PO #	Customer: CKG	Date: 12.09.08
Tractor 01	Address:	Time: 2:27p
Trailer / Container Number 14	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3	recycled			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C. R. Date 4-21-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22281

PO #	Customer: CKG	Date: 12.09.08
Tractor 01	Address:	Time: 1:02p
Trailer / Container Number 19	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3	recycle			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 ✓	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 5-6-09

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000826

Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22361

PO #	Customer: CKC	Date: 1.21.09
Tractor	Address:	Time:
Trailer / Container Number 18 Totes	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	18 Totes			
3				
4	For R/L			
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.K. Date 5-6-09

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000827

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25366

PO #	Customer: CKG	Date: 3/26/09
Tractor 01	Address:	Time: 12:45
Trailer / Container Number 12-Totes	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	To tes Tote Recycled.			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 4-24-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000828

D

EPAHO082000830

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25662

PO #	Customer: DISC	Date: 4-17-09
Tractor	Address: 205 N 11th Street LaPort TX 77571	Time: 10:50
Trailer / Container Number RB31241	Dropped By: VINCE LAMBRANZA	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Dirt			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	✓
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

Cleaned By: ST Date 4/17/09

Inspected By: _____ Date _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25662

PO #	Customer:	Date:
	DISC	4-17-09
Tractor	**Address:**	**Time:**
	205 N 11th Street Laporte TX 77571	10:50
Trailer / Container Number	**Dropped By:**	**Need By:**
RB31241	Vince Lombardia	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Dirt			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 4-17-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000831

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25922

PO #	Customer: Calhoun Dart Trucking	Date: 6/2/19
Tractor	Address:	Time: 15:43
Trailer / Container Number	Dropped By: Robert Smith	Need By: ASAP.

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Carbon	2 - Totes			
2 Carbon				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	/
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	/
16 Exterior Trailer Wash (with Internal)	/
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 6-2-19

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000832

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26026

PO #	Customer:	Date:
	DART	06/4/09
Tractor	**Address:**	**Time:**
253		1900
Trailer / Container Number	**Dropped By:**	**Need By:**
42 FG		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 6-1 9

Inspected By: _____ Date _____

Print Name: TOM ZDUNKIEWICZ Date 06/4/09

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25578

PO #	Customer:	Date:
	Dart	4-9-09
Tractor	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:
5F6		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 4-9-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000834

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25646

PO #	Customer: IDART	Date: 4/13/09
Tractor 87	Address:	Time: 10:46 AM
Trailer / Container Number 42FG.	Dropped By: Clyde Ramey	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CARBON			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: A.R.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. Date 4-14-09

Inspected By: _____ Date _____

Print Name: Clyde Ramey Date 4-13-09

Signature: Clyde Ramey

EPAHO082000835

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25653

PO #	~~Customer~~: DART	Date: 4/16/09
Tractor: 583	Address:	Time: 15:24
Trailer / Container Number: 4376	Dropped By: THOMAS ZDUNKIEWICZ	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	/
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 4-16-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25374

PO #	Customer: DarT Trucking Calgary	Date: 4-24-09
Tractor 598	Address:	Time:
Trailer / Container Number 42	Dropped By: Robert Smith	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 4.24.9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000837

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25751

PO #	Customer: D&L Trucking	Date: 4/29/09
Tractor	Address:	Time:
Trailer / Container Number 2 Tanks	Dropped By:	Need By:

CONTAINER TYPE: ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Caustic	168-3640-2			
2 Caustic				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: JL / JL Date 4/29/09

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2 20.9	#3	#4	#5
LEL (<10%)	#1 0	#2 0	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2 0	#3	#4	#5
Toxic Vapor	#1 ✓	#2 ✓	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25885

PO #	Customer: Dart	Date: 5/13/09
Tractor 513	Address:	Time:
Trailer / Container Number DC5	Dropped By: Robt Sidle	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Carbon				
2 carbon				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2 20.9	#3	#4	#5
LEL (<10%)	#1 0	#2 0	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2 0	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 5/13/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000839

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25888

PO #	Customer: DART	Date: 5/14/09
Tractor	Address:	Time: 13:14
Trailer / Container Number: 2- Totes	Dropped By: Robert Smith	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Spent Caustic			
2	Spent Caustic			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	✓
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A. R. Date 5-14-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000840

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25454

PO #	Customer: DART	Date: 4-1-09
Tractor #5 FG	Address:	Time:
Trailer / Container Number #1 FG	Dropped By: THOMAS ZDUNKIEWICZ	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CARBON			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry ✓	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 4-1-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25450

PO #	~~Customer~~: Dart	Date: 3/30/09
Tractor	Address:	Time: 1023 AM
Trailer / Container Number: 4- Totes	Dropped By: Carl [illegible]	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Carbon				
2 " "				
3 " "				
4 " "				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	✓
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	20.7	20.1	20.3	20.6	
LEL (<10%)	0	0	0	0	
CO^2 (<35 ppm)	0	0	0	0	
Toxic Vapor	0	0	0	0	

Signature: CP

Stripper Usage:

Comments:
Karl
1- 330 314 3252

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 3/30/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000842

Environmental Services

ıtainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25420

PO #	Customer: Chemvair	Date: 3/26/09
Tractor #1	Address:	Time: 11:37
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sale of Totes (2)			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

CK #
~~HH~~
CK 1014

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP Date 3/26/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25303

PO #	Customer: Dart	Date: 3/18/09
Tractor 87	Address:	Time:
Trailer / Container Number DCSFG	Dropped By: Clyde Ramey	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Carbon				
2 Carbon				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	✓
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	20.8	20.8			
LEL (<10%)	0	0			
CO^2 (<35 ppm)	0	0			
Toxic Vapor	0	0			

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 3/18/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000844

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24238

PO #	Customer: Dart	Date: 3-10-9
Tractor 519	Address:	Time:
Trailer / Container Number FG 42	Dropped By: Carl Landsberger	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 3-10-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature _____

/ironmental Services
/ Tank Cleaning Division
ggs Rd. • Houston, TX 77021
one: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24299

PO #	Customer: DAFT	Date: 3/4/09
Tractor 519	Address:	Time: 9:10 AM
Trailer / Container Number	Dropped By: Carl Lader	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Carbon	J - 550			
2 Carbon				
3	Tote Bin			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 3-4-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000846

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24341

PO #	Customer: DART "Calgon"	Date: 2/26/09
Tractor 527	Address:	Time:
Trailer / Container Number FG 361	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Calgon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: [signature]

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: [signature] Date 2/26/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000847

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26334

PO #	Customer: Daelimcorp	Date: 2/6/09
Tractor 448	Address:	Time: 11:00 AM
Trailer / Container Number DRRU2408114	Dropped By: Casado	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Dioctyl Phthalate			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JP.R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP.R Date 2-6-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services
Container / Tank Cleaning Division
604 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26371

PO #	Customer: Part Trucking	Date: 2/5/09
Tractor: 87	Address:	Time:
Trailer / Container Number: 2-	Dropped By: [illegible]	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 PTUFG005	50 Vgal			
2 162-3640-1				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse ✓	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 2-5-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000849

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22768

PO #	Customer: Cargon / Dart	Date: 2-3-9
Tractor 580	Address:	Time:
Trailer / Container Number DC 5F9	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	21.0				
LEL (<10%)	0				
CO^2 (<35 ppm)	0				
Toxic Vapor	0				

Signature: JL JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR JL Date 2-3-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000850

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22601

PO #	Customer:	Date:
	DART TRUCKING	01/16/09
Tractor	Address: 4738	Time:
583	COLUMBIANA	2000
Trailer / Container Number	Dropped By:	Need By:
45 FT	TOM ZDUNKIEWICZ	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	✓
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	/
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 20.9 #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JT Date 1/16/09

Inspected By:_____ Date_____

Print Name: [illegible] Date 01/16/09

Signature: [signature]

E

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26005

PO #	Customer: Enviro Solutions	Date: 6.03.09
Tractor 102	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily Water		3 Drums	
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry ✓	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry ✓	
11	Waste Water Surcharge ✓	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash ✓	
18	Hand Labor (# Men / # Hours) ✓	2 Hours 2 men
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Yes!	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T. C.P. Date 6-3-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000853

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26023

PO #	Customer: Enviro Solution	Date: 6/06
Tractor 102	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Water			
2			11 Drums	C/P
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	✓
18 Hand Labor (# Men / # Hours)	2½ 2 men
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Has Heel
Put Heel in Drums
C/P 1

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: B-H - JL. Date 6-4-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25925

PO #	Customer: Equistar	Date: 5/28/09
Tractor 1217	Address: Chocolate Bayou	Time:
Trailer / Container Number VDR31398	Dropped By: Damian Charles	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Waste Soil & Gravel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 5-28-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000855

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25934

PO #	Customer: Equistar	Date: 5/28-9
Tractor 7214	Address:	Time:
Trailer / Container Number VDR 29374	Dropped By: Rick Wyd	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☒ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	/
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	/
16 Exterior Trailer Wash (with Internal)	/
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 2	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-28 9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25935

PO #	Customer: EQUISTAR	Date: 5-30-9
Tractor 7214	Address:	Time:
Trailer / Container Number VBR 31399	Dropped By: Ken Wood	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☑ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Waste Solids			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	/
16 Exterior Trailer Wash (with Internal)	/
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: BH-ST Date 5-30-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000857

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax (713) 676-1676

TANK WASH WORK ORDER

25797

PO #	Customer: Environmental Sol.	Date: 5-8-9
Tractor 102	Address:	Time:
Trailer / Container Number	Dropped By: Wayne Williams	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Flamm. liquid		110 gals.	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By:_____ Date_____

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature: [signature]

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25597

PO #	Customer: Evergreen Valero	Date: 4/13/09
Tractor: 2016	Address:	Time:
Trailer / Container Number: T 905	Dropped By: [signature]	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☑ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 D R	Haz waste Sludge			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	/
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 4-13-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000859

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25581

PO #	Customer: Enviro	Date: 1-9-9
Tractor 103	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Flam. Solid		3 drums	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	/
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	/
17 Exterior Acid Brite Wash	3 HH
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 1-9-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000860

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25715

PO #	Customer: Enviro. Disposal	Date: 4/21/09
Tractor	Address:	Time:
Trailer / Container Number 225	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Good	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S. T. Date 4-23-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000861

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25455

PO #	Customer: Enviro. Solutions	Date: 4/01/19
Tractor 162	Address:	Time:
Trailer / Container Number	Dropped By: David Waddell	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	city water			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning (4) hoses	✓
	Pump Cleaning	

Cleaned By: JR Date 4/1/19

Inspected By:_____ Date_____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2_____	#3_____	#4_____	#5_____
LEL (<10%)	#1 0	#2_____	#3_____	#4_____	#5_____
CO^2 (<35 ppm)	#1 0	#2_____	#3_____	#4_____	#5_____
Toxic Vapor	#1_____	#2_____	#3_____	#4_____	#5_____

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25503

PO #	Customer: Envir. Solutions	Date: 5/26/09
Tractor 105	Address:	Time:
Trailer / Container Number	Dropped By: Bob [illegible]	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	~~Drum~~ / Rolloff
1 (6) oily	water			
2			7 Drums	C/P
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	/
18 Hand Labor (# Men / # Hours)	/ 3 Hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JV

Stripper Usage:

Comments: App. By Driver

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL - JE Date 3-26-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000863

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22933

PO #	Customer: Environmental	Date: 2-19-9
Tractor	Address:	Time:
Trailer / Container Number 103	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Light end (flam. liquid		155	cp
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JPR

Stripper Usage:

Comments:
APP
B-1 driver

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JPR Date 2-19-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000864

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22695

PO #	Customer: Enviro Solvents	Date: 1/23/09
Tractor 102	Address:	Time: 15:25
Trailer / Container Number 102	Dropped By: Sean Owens	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, *from any responsibility for claims arising* from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 1-23-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22829

PO #	Customer:	Date:
	ENVIRO SOLUTIONS	012209
Tractor: 103	Address: 1105 J10 EAST, MONT BELVIEU, TX.	Time: 11:00AM
Trailer / Container Number: —	Dropped By: BOBBY - 713-628-0376	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CONDENSATE + WATER		✓	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning 2 ✓	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:
CLEAN HOSES ALSO
CLEAN + STEAM TANK

SAVE ANY SOLIDS IN 55 GAL DRUM
DAVID WILL PICK IT UP.

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: _____ Date _____

Inspected By: _____ Date _____

Print Name: Bobby Date 012209

Signature: _____

EPAHO082000866

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22833

PO #	Customer: Enviro Solution	Date: 1/30/09
Tractor 103	Address:	Time:
Trailer / Container Number	Dropped By: Bobby	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	acid water			TP
2	Low Flash			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	/
18 Hand Labor (# Men / # Hours)	1 Hr.
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments: 1 drum 35 gals

Authorized Additional Services:

Clean 3" Hoses

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 1-29-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22652

PO #	Customer: Enviro Solutions	Date: 1/13/09
Tractor 103	Address:	Time: 11:43Am.
Trailer / Container Number	Dropped By: [signature] 713-628-0376	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water		35 gals	c/r
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning (All)(4)	✓ 13 3 2"
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Wait ✓
Call when Ready ✓

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 1-13-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000868

Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22646

PO #	Customer:	Date:
	Enviro Solutions	1/9/09
Tractor	**Address:**	**Time:**
102	11005 I-10 E Mt. Belvieu, TX	9:54
Trailer / Container Number	**Dropped By:**	**Need By:**
	Sean Owens	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse ✓	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S. T Date 1-9-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

F

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24213

PO #	Customer: Four Way Tank Trucks	Date: 3/06/09
Tractor 5	Address:	Time:
Trailer / Container Number 145	Dropped By: Tommy Smith	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Haz waste liquid Caustic chemical			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	✓
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	RCRA Dig out
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

Cleaned By: S.P. / S.P. Date 3/6/09

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 1	#2	#3	#4	#5
Toxic Vapor	#1 1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25838

PO #	Customer: FLX	Date: 5/11/09
Tractor	Address:	Time:
Trailer / Container Number: TCTU 30007-6	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☑ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Gel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	✓
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: JL Date 5-11-9

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

G

CES Environmental Services
Container / Tank Cleaning Division
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25473

PO #	Customer: Global C	Date: 1.2.09
Tractor ST 2	Address:	Time: 4:30p
Trailer / Container Number ST 2	Dropped By: x	Need By: Waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	Sludge			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: MC Date 2/12/09

Inspected By:_____ Date_____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
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TANK WASH WORK ORDER

25488

PO #	Customer: Global	Date: 4/4-9
Tractor	Address:	Time: 3:45 pm
Trailer / Container Number BTT-2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Oily Water				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 0/0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments: Oil Pan got Dented by Fork Lift

Clay [illegible]

call out

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 11-11-9

Inspected By: Date

Print Name: Clay [illegible] Date 4-4-09

Signature: Clay [illegible]

EPAHO082000875

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25636

PO #	Customer: Global	Date: 8/05/09
Tractor 57-2	Address:	Time:
Trailer / Container Number 57-2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	dirty water			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 4-8-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000876

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25728

PO #	Customer: Glob	Date: 4-27-9
Tractor BT1-2	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil		45 gals	C/P
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓ 1 HR
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 4-27-9

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000877

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25823

PO #	Customer: Global Environ.	Date: 5/5/19
Tractor	Address:	Time:
Trailer / Container Number BTT-2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	wastes water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 5/05/19

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000878

.S Environmental Services
.ontainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25889

PO #	Customer: Global Enviro.	Date: 5/14/09
Tractor BTT-2	Address:	Time:
Trailer / Container Number	Dropped By: W.H.	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	N/A Solid Sludge			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CR Date 5-14-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

nvironmental Services
ıer / Tank Cleaning Division
Griggs Rd. • Houston, TX 77021
ɔne: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25890

PO #	Customer: Global Environ.	Date: 5/15/09
Tractor 1457	Address:	Time: 5:30 12-25
Trailer / Container Number 1381	Dropped By: Rodney Ryan	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 5-18-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25858

PO #	Customer:	Date: 5/18/09
Tractor 1467	Address:	Time:
Trailer / Container Number 880	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Now 0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J. R. Date 5-18-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25859

PO #	Customer:	Date:
	Global Envir.	5/18/09
Tractor	Address:	Time:
1487		8:30 / 1200
Trailer / Container Number	Dropped By:	Need By:
9454		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Ethyl acetate			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 5-18-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services
ainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25851

PO #	Customer: Global Environmental & Marine Services	Date: 5-15-07
Tractor	Address: 16455 Canty Rd Houston TX 77032	Time: 12:30
Trailer / Container Number: BTT2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Fuel Slops			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 5/15/07

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26119

PO #	Customer: HUR T	Date: 6/09/09
Tractor 206	Address:	Time:
Trailer / Container Number 109	Dropped By: PETER SEANA	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	DIESEL			
2				
3				
4				
5	DIESEL			

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 2	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 2	#2	#3	#4	#5
Toxic Vapor	#1 2	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:
CALL WHEN READY
832-878-8910

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 6-9-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25444

PO #	Customer:	Date:
	Global	3/27/08
Tractor	**Address:**	**Time:**
ST-7		9:00
Trailer / Container Number	**Dropped By:**	**Need By:**
ST-7		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water			
2	"			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 3/27/08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000885

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24267

PO #	Customer: Global	Date: 2/21/05
Tractor	Address:	Time: 12:00
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

Cleaned By: JPR Date 2/21/05

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: JPR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24346

PO #	Customer:	Date:
	Clint	2/26/09
Tractor	Address:	Time:
ST		
Trailer / Container Number	Dropped By:	Need By:
ST-2		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	✓
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 2-26-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000887

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22457

PO #	Customer: Global	Date: 12.18.08
Tractor ST-2	Address:	Time: 11:04a
Trailer / Container Number X30025	Dropped By:	Need By: Waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily Water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signatures: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T. Date 12-18-08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

Environmental Services
...iner / Tank Cleaning Division
...04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26365

PO #	Customer:	Date:
	Global	2/01/09
Tractor	Address:	Time:
ST-2		9:14
Trailer / Container Number	Dropped By:	Need By:
ST-2		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R Date 2-4-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000889

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22798

PO #	Customer: Global	Date: 1/30/09
Tractor: 377 #1	Address:	Time: 8:17
Trailer / Container Number	Dropped By: Andre Huff	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning ~~1-3~~	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Non b	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: AR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. Date 1-30-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000890

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22697

PO #	Customer:	Date:
	Globe	1/26/09
Tractor	Address:	Time:
ST-7		12:25
Trailer / Container Number	Dropped By:	Need By:
ST-7		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S. T. Date 1-26-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22349

PO #	Customer:	Date: 1/10/09
Tractor	Address:	Time: 7:00
Trailer / Container Number: BTT2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

3- [illegible]

Authorized Additional Services:

Cleaned By: JE Date 1/10/09

Inspected By: _____ Date _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

EPAHO082000892

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22348

PO #	Customer: Global	Date: 1/10/09
Tractor 47-3	Address:	Time: 7:47
Trailer / Container Number ST-3	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☑ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only wc/TK			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 21.0 #2____ #3____ #4____ #5____
LEL (<10%) #1 0 #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1 0 #2____ #3____ #4____ #5____
Toxic Vapor #1 0 #2____ #3____ #4____ #5____
Signature: JT

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JT Date 1/10/14

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22723

PO #	Customer: Global	Date: 1/5/19
Tractor ST 3	Address:	Time: 12:13
Trailer / Container Number ST-3	Dropped By:	Need By: waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 21 #2____ #3____ #4____ #5____
LEL (<10%) #1 0 #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1 0 #2____ #3____ #4____ #5____
Toxic Vapor #1 0 #2____ #3____ #4____ #5____
Signature: JC

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JC Date: 1/5/19

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000894

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22426

PO #	Customer: Global	Date: 12.17.08
Tractor ST. 2	Address:	Time: 8:52a
Trailer / Container Number X30025	Dropped By:	Need By: Waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☑ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily Water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Ok	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 12.17.08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22408

PO #	Customer: Global	Date: 12-12-08
Tractor BTT-2	Address:	Time: 3:00p
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	oily water			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JT

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JT Date 12-12-08

Inspected By: _____ Date _____

Print Name: Ignacio Perez Date 12-12-08

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22308

PO #	Customer: Global Environmental	Date: 12.10.08
Tractor BTT-2	Address:	Time: 12:08P
Trailer / Container Number	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	city water			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JP Date 12/10/08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000897

H

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26123

PO #	Customer: Hurt	Date: 4/8/09
Tractor: 206	Address:	Time: 13:20
Trailer / Container Number: 109	Dropped By: Peter Senna Jr	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Dirty			
2				
3				
4				
5	Diesel			

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	21.0				
LEL (<10%)	0				
CO^2 (<35 ppm)	0				
Toxic Vapor	0				

Signature: B-H

Stripper Usage:

Comments:

Need Tank

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: B-H Date 6-8-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000899

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25983

PO #	Customer: Global Environmental	Date: 6/5/09
Tractor MT-2	Address:	Time:
Trailer / Container Number ST-2	Dropped By: SEE SP	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Acid Wash			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 6-2-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25502

PO #	Customer: The Hub Co. 713-747-7411	Date: 3-26-09
Tractor 205	Address: 3310 Alice St 77021	Time: 1:30pm
Trailer / Container Number L9048	Dropped By: Eddie McDade	Need By: Tomorrow

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 3-27-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22924

PO #	Customer: Flint	Date: 2/24/08
Tractor 201	Address:	Time:
Trailer / Container Number 7152	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Lube oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C P

Stripper Usage:

Comments: WAITING

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C P Date 2-24-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000902

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22921

PO #	Customer: Hydril	Date: 2-3
Tractor 283	Address:	Time: 1:30
Trailer / Container Number 207-RTC-5711	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	New Haz Solvs			
2			15 gals	
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	21.0				
LEL (<10%)	0				
CO^2 (<35 ppm)	0				
Toxic Vapor	0				

Signature: B. H.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: B. B. Date 2-5-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000903

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22808

PO #	Customer:	Date:
	[illegible]	2/2/09
Tractor	Address:	Time:
200		
Trailer / Container Number	Dropped By:	Need By:
7152	[illegible]	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	[illegible]			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 2/2/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000904

IJ

EPAHO082000905

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25494

PO #	Customer:	Date:
	The Hub	4-6-09
Tractor	**Address:**	**Time:**
205	3310 I-10 S	1:30
Trailer / Container Number	**Dropped By:**	**Need By:**
L 6734		Tomorrow

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Gasoline			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

off Rail

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 4-6-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25813

PO #	Customer: H.I.T	Date: 05/04/09
Tractor 206	Address: 2310 Alice ST	Time:
Trailer / Container Number L9042	Dropped By: TETEL SERNA JR	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Lube oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 5-4-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000907

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25830

PO #	Customer: AJ Hurt	Date: 5-5-09
Tractor 205	Address: 3310 Alice St	Time: 3:55
Trailer / Container Number L0923	Dropped By: EDDIE	Need By: Tomorrow

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-5-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000908

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25831

PO #	Customer: AJ Hart Co.	Date: 5-5-09
Tractor 205	Address: 3310 Alice St	Time: 3:55
Trailer / Container Number L6244	Dropped By: EDDIE	Need By: Tomorrow

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CR Date 5-5-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26139

PO #	Customer: Global ENVIRONMetal	Date: 6-9-09
Tractor ST-2	Address:	Time:
Trailer / Container Number ST-2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	101 water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	✓
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.3	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 6-9-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000910

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26113

PO #	Customer: Celanese	Date: 6/09/09
Tractor BTT-2	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☑ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	waste water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 1	#2	#3	#4	#5
Toxic Vapor	#1 1	#2	#3	#4	#5

Signature: C P

Stripper Usage:

Comments: waiting

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C P. Date 6-9-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26096

PO #	Customer: Global	Date: 6-11-9
Tractor	Address:	Time:
Trailer / Container Number BTT-2	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily Water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: B.H

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: B-H Date 6-11 9

Inspected By: Date

Print Name: [illegible] Date 6-11-09

Signature: [illegible]

EPAHO082000912

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26088

PO #	Customer: Global	Date: 6/11/09
Tractor T-2	Address:	Time: 13:21
Trailer / Container Number ST-2	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	✓
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST - JL Date 6-11-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

ivironmental Services
r / Tank Cleaning Division
riggs Rd. • Houston, TX 77021
one: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26100

PO #	Customer: Interplant	Date: 6 8 09
Tractor 9	Address:	Time:
Trailer / Container Number 5050	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Infineum C 9404			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R. Date 6-8-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

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TANK WASH WORK ORDER

25457

PO #	Customer: FTS	Date: 4-1-09
Tractor 151	Address:	Time: 1:30
Trailer / Container Number 754	Dropped By: Freddy C	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours) ✓	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P Date 4-6-09

Inspected By: _____ Date _____

Print Name: Freddy C Date 4-1-09

Signature: Freddy C

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TANK WASH WORK ORDER

22475

PO #	Customer: Institform	Date: 12.22.08
Tractor 1540	Address:	Time: 4:01A
Trailer / Container Number MLSU 124030	Dropped By: JOSE	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☑ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1		225		
2	Austin			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	/
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	/
17 Exterior Acid Brite Wash	/
18 Hand Labor (# Men / # Hours)	2 men 4.5
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JT

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Cleaned By: CP J Date 1-8-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
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TANK WASH WORK ORDER

26331

PO #	Customer: Instaloam	Date: 2/6/07
Tractor 5799	Address:	Time: 10:07
Trailer / Container Number MLSU 174154-3	Dropped By: W C Reeves	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☑ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Set up Rig			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	✓
18 Hand Labor (# Men / # Hours)	✓
19 Hydroblaster (# Hours)	✓
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Cleaned By: J. R. Date 2-13-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26331

PO #	Customer:	Date:
	Ind. Foam	2/6/07
Tractor	**Address:**	**Time:**
5799		10:07
Trailer / Container Number	**Dropped By:**	**Need By:**
MLSU 174151-3	M C Reeves	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☑ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Set up Road			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours) ✓	
13 Solvent Wash (Stripper) ✓	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash ✓	
18 Hand Labor (# Men / # Hours) ✓	
19 Hydroblaster (# Hours) ✓	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J. R. Date 2-13-07

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000918

K

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25947

PO #	Customer:	Date:
	~~[illegible]~~ IDAHO	6/1/09
Tractor	**Address:**	**Time:**
697		9 AM
Trailer / Container Number	**Dropped By:**	**Need By:**
1H7		ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Caustic			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments:

Caustic Wash and Rinse

Authorized Additional Services:

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 6/1/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

...ner / Tank Cleaning Division
...4 Griggs Rd. • Houston, TX 77021
...one: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25536

PO #	Customer: Kirsher	Date: 4/24/16
Tractor 2158	Address:	Time:
Trailer / Container Number 6706	Dropped By: Duane Lekke	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Fuel Oil			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	✓
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

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Cleaned By: J.R. Date 4-24-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25783

PO #	Customer: Kirshier Trans	Date: 5/7/09
Tractor: 2261	Address:	Time: 11:04
Trailer / Container Number: 6707	Dropped By: Patrick Tol	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Black wide zinc			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

	#1	#2	#3	#4	#5
Oxygen (19.5% -23.5%)	2.07				
LEL (<10%)	0				
CO^2 (<35 ppm)	0				
Toxic Vapor	0				

Signature: AR

Stripper Usage:

Comments:
55 gals @ #2 prig
OK
Per Jane

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. Date 5-7-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000922

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25447

PO #	Customer: AIRGAS R	Date: 3/30/09
Tractor 538	Address:	Time: 8:15 AM
Trailer / Container Number 6701	Dropped By: MAC	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	ARBORITE			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation ✓	
Hose Cleaning ✓	3
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:
waiting
Catch 1st Dow pail
55 gals

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 3-30-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000923

Environmental Services

Washer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25517

PO #	Customer: Kirscher Transport	Date: Mar 26.09
Tractor 063	Address: 2001 N 9th Ave Virginia, MN	Time: 11:45
Trailer / Container Number 6715	Dropped By: Ron Kucisto	Need By: 9 AM Mar 10

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	FR56		no	
2	Polymer			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning (2)	✓
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:
2 - 2" hoses

Polymer Ratio

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: AR Date 3/27/09

Inspected By: _____ Date _____

Print Name: Ron Kucisto Date Mar 26, 09

Signature: Ron Kucisto

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25515

PO #	Customer:	Date:
	Kirscher Transport	3-26-09
Tractor	**Address:**	**Time:**
108	2001 N. 9th Ave. Virginia, Mn 55792	9:30 P.M.
Trailer / Container Number	**Dropped By:**	**Need By:**
7025		ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Custofloat 8042	1993 Haz.		
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	1-3in
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:
One 3in. hose + And one fittings

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 3-26-09

Inspected By: _____ Date _____

Print Name: Glenn Schmandt Date 3-26-09

Signature: Glenn W. Schmandt

Environmental Services

ainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26375

PO #	Customer:	Date:
	~~Kirsch~~ KA Kirscher	2/07/09
Tractor: 2062	Address:	Time: 12:11 pm
Trailer / Container Number: 7028	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning (3) (A)	✓
Pump Cleaning (1) C	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: A.R.

Stripper Usage:

Comments:

Authorized Additional Services:

Cleaned By: A.R. Date 2-9-09

Inspected By: _____ Date _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

Environmental Services

ainer / Tank Cleaning Division
4 Griggs Rd. • Houston, TX 77021
hone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22847

PO #	Customer: KIRSCHER TRANSPORT	Date: 1/25/09
Tractor 551	Address: 2001 N 9th AV VIRGINIA	Time: 2330
Trailer / Container Number 7025	Dropped By: PATRICK TOL	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sodium bisulfites UN 2693			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R Date 1-26-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22819

PO #	Customer: KOPPERS	Date: 1/21/09
Tractor 217	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	HAZ WASH SLUDGE			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: SP Date 1/22/09

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

HAZ WASH SLUDGE (CREOSOTE)

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25941

PO #	Customer: Kirsher	Date: 5-29-9
Tractor 536	Address:	Time:
Trailer / Container Number 6702	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Polymer				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	✓ 2 2"
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21-0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments: food grade ~~Tech~~ prep. Type
change all gaskets
Dome lid,
polymer rate
2 2" Hoses & Baged

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 5-29-9

Inspected By: _____ Date _____

Print Name: Joe Miller Date _____

Signature: Joe Miller

EPAHO082000929

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25980

PO #	Customer:	Date:
	Kirsch Transport	6/1/09
Tractor	**Address:**	**Time:**
2261	Virginia, MN	13:27
Trailer / Container Number	**Dropped By:**	**Need By:**
7034	PATRICK Tolson	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Calcium Nitrite			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T Date 6-1-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000930

L

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25896

PO #	Customer: Lee's	Date: 5-19-09
Tractor 2610	Address:	Time:
Trailer / Container Number 2285	Dropped By: FRANK DAVIS	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CLAY BINDER TALON 6450			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 5-19-09

Inspected By: _____ Date _____

Print Name: FRANK Date 5/19/09

Signature: Frank Davis

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25819

PO #	Customer: Light house	Date: 5/5/09
Tractor: 102	Address:	Time: 11:05 Am
Trailer / Container Number: 25	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Pint o.f			
2				
3				
4	Pint o.f			
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry ✓	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R. Date 5-5-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25668

PO #	Customer: Liquid Express	Date: 4-17-9
Tractor 034	Address:	Time: 5:30 pm
Trailer / Container Number 6005	Dropped By: John Kelley	Need By: Sat. A.m.

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☑ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Kerosine			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 4-17-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: Johnny Kelley

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25302

PO #	Customer:	Date:
83197	Lighthouse	3/18/09
Tractor	**Address:**	**Time:**
#1004	4218 Pasadena Blvd. Pasadena, Tex.	11:15
Trailer / Container Number	**Dropped By:**	**Need By:**
#053	Ronald Tezino	30 mins.

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

Cleaned By: JR Date 3/18/09

Inspected By: Date

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Ronald Tezino Date 3/18/09

Signature: Ronald Tezino

EPAHO082000935

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24243

PO #	Customer: OFC Liquid Trucking	Date: 3/11/09
Tractor 6145	Address:	Time:
Trailer / Container Number 51941	Dropped By: Roger Bradley	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	soy bean oil			
2	"			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	✓
Hose Cleaning (2)	✓
Pump Cleaning (1)	✓

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: TR

Stripper Usage:

Comments: waiting

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JPR Date 3-11-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24202

PO #	Customer: LIQUID EXPRESS	Date: 3.5.09
Tractor 34	Address:	Time: 10:30 a
Trailer / Container Number 75-957	Dropped By: Johnny Kelly	Need By: waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	fuel oil #27			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.5	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Paid cash #165

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 3/5/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000937

ıvironmental Services
r / Tank Cleaning Division
.riggs Rd. • Houston, TX 77021
:(713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22769

) #	Customer: league city water Treatment	Date: 2/5/10
Tractor 210	Address:	Time:
Trailer / Container Number VB2557	Dropped By: Candido	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☒ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	NON RCRA NON			
2	DOT waste digester solids			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.5	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 ✓	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: JR & JW

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 2/09/05

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000938

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22570

PO #	Customer: ZAYPort Lubrizol / Systech Environmental	Date: 1-1-09
Tractor	Address: Here	Time: 12:45P
Trailer / Container Number: 233	Dropped By: Willy (CES)	Need By: AM

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	flamable liquid (Contains Xylene, toluene)			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 1-2-09

Inspected By: _____ Date _____

Print Name: William Dexter Date 1-1-09

Signature: William Dexter

EPAHO082000940

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25939

PO #	Customer: MPC.	Date: 5/28/09
Tractor 2551	Address:	Time:
Trailer / Container Number 8116	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Base oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T Date 5-24-09

Inspected By: _____ Date _____

Print Name: Dyron Lyons Date 5-24-09

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25765

PO #	Customer: M. P.C.	Date: 8/01/03
Tractor: 2171	Address:	Time: 13:39
Trailer / Container Number: 6310	Dropped By: Paul Cano	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: CH Date 8-5-19

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 ✓	#2	#3	#4	#5
LEL (<10%)	#1 ✓	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 ✓	#2	#3	#4	#5
Toxic Vapor	#1 ✓	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25849

PO #	Customer: M.P.C.	Date: 5/15/09
Tractor 2805	Address:	Time: 12:03
Trailer / Container Number 6062	Dropped By: Paul Crane	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	~~[illegible]~~ Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-15-9

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000943

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25849

PO #	Customer: M.P.C.	Date: 5/15/09
Tractor 2865	Address:	Time: 12:03
Trailer / Container Number 6062	Dropped By: Paul Crowe	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JF Date 5-15-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000944

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24343

PO #	Customer: Martin	Date: 2/26/09
Tractor 235	Address:	Time:
Trailer / Container Number 7755	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Lube oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	✓
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	1 3" Hose
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 2-26-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22940

PO #	Customer: Light Hou	Date: 2/23/19
Tractor 103	Address:	Time: 1100 AM
Trailer / Container Number 25	Dropped By: James Stewart	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel			
2	"			
3	"			
4	"			
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By:_____ Date 2/23/19

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22802

PO #	Customer:	Date:
5 of 92	Millwood Stand Envir.	2/02/09
Tractor	**Address:**	**Time:**
3-10		
Trailer / Container Number	**Dropped By:**	**Need By:**

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	only water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: AR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: AR Date 2/02/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000947

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22423

PO #	Customer: Milstead	Date: 12-16-08
Tractor VH11	Address:	Time: 9:58a
Trailer / Container Number	Dropped By:	Need By: Waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	w/w			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 12-16-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22221

PO #	Customer: McKenzie	Date: 12.4.08
Tractor 5706	Address:	Time: 2:53p
Trailer / Container Number A463732	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3	re wash			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2 0	#3 0	#4 0	#5
CO^2 (<35 ppm)	#1 0	#2 0	#3 0	#4 0	#5
Toxic Vapor	#1 0	#2 0	#3	#4 0	#5

Signature: ST

Stripper Usage:

Comments: Remove powery substance
Super
clean!
Behind all baffles!

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 12-5-08

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22260

PO #	Customer:	Date:
	Missouri	12/13/8
Tractor: 2621	Address:	Time: 12:10
Trailer / Container Number: 605	Dropped By: Paul Leard	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Clean
For
Inspection

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 12-13-8

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22215

PO #	Customer: Milstead	Date: 12·03·08
Tractor 033	Address:	Time: 2:40p
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sand & water		75 gals	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	/
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: me

Stripper Usage:

Comments:

approved

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

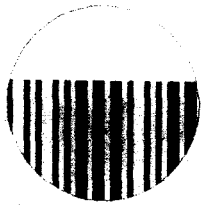
Cleaned By: [redacted] JE Date 12-3-08

Inspected By: _____ Date _____

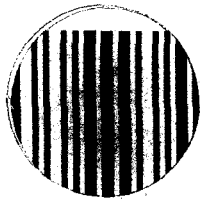
Print Name: _____ Date _____

Signature: _____

EPAHO082000951



EPAHO082000952



P
Q

EPAHO082000953

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22817

PO #	Customer: PSL	Date: 1/21/09
Tractor 1118	Address:	Time:
Trailer / Container Number 1517	Dropped By: Albert Torres	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Non HAZ solids			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	/
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	/
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	/
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

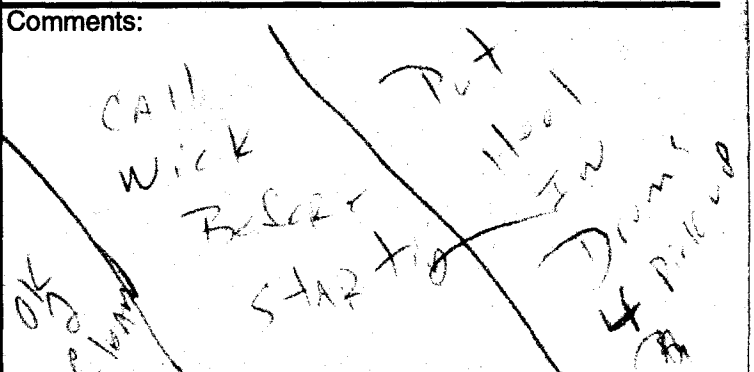
TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:



Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 1-26-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000954

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25923

PO #	Customer:	Date:
09-TH	Phoenix Pollution	5/28/09
Tractor	**Address:**	**Time:**
VT-1-4119		11:30
Trailer / Container Number	**Dropped By:**	**Need By:**
	GM	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily water		150 gal	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓ 2 Hr
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 5-28-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25891

PO #	Customer: Pulido Trucking	Date: 5-18-09
Tractor 852	Address:	Time:
Trailer / Container Number 3002	Dropped By: Natividad Leon	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	✓
18 Hand Labor (# Men / # Hours)	✓ 2 hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 5	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-19-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000956

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25589

PO #	Customer:	Date:
GI Environmental	Preston Environmental " B	4 / 13 / 09
Tractor # 3.	Address:	Time: 14:50 pm.
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Only water		1000 gals	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	✓ 10 Hr
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	✓
Hose Cleaning	✓ 4"
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:
Waiting

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 4-14-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25764

PO #	Customer: P&C	Date: 4/1 / 5/01/11
Tractor 1174	Address:	Time: 12:12
Trailer / Container Number 3410	Dropped By: L Holmes	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 W/F	waste WATER			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours) ✓	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 20.6 #2____ #3____ #4____ #5____
LEL (<10%) #1 0 #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1 0 #2____ #3____ #4____ #5____
Toxic Vapor #1 0 #2____ #3____ #4____ #5____
Signature: S J

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: AR ST Date 5-5-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26335

PO #	Customer: Polar	Date: 2-6-09
Tractor 803820	Address: 7600 East Sam Hou. Pkwy Houston	Time: 11:10 Am
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	/
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 2-6-9

Inspected By: _____ Date _____

Print Name: Jason McNichols Date 2-6-09

Signature: [signature]

EPAHO082000959

CES Environmental Services
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4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22322

PO #	Customer: ~~PS~~ PCI	Date: 12-18-08
Tractor 118	Address:	Time:
Trailer / Container Number VT-6000	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Alcohol W. Water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4 0	#5

Signature: mc

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: mc Date 12-18-08

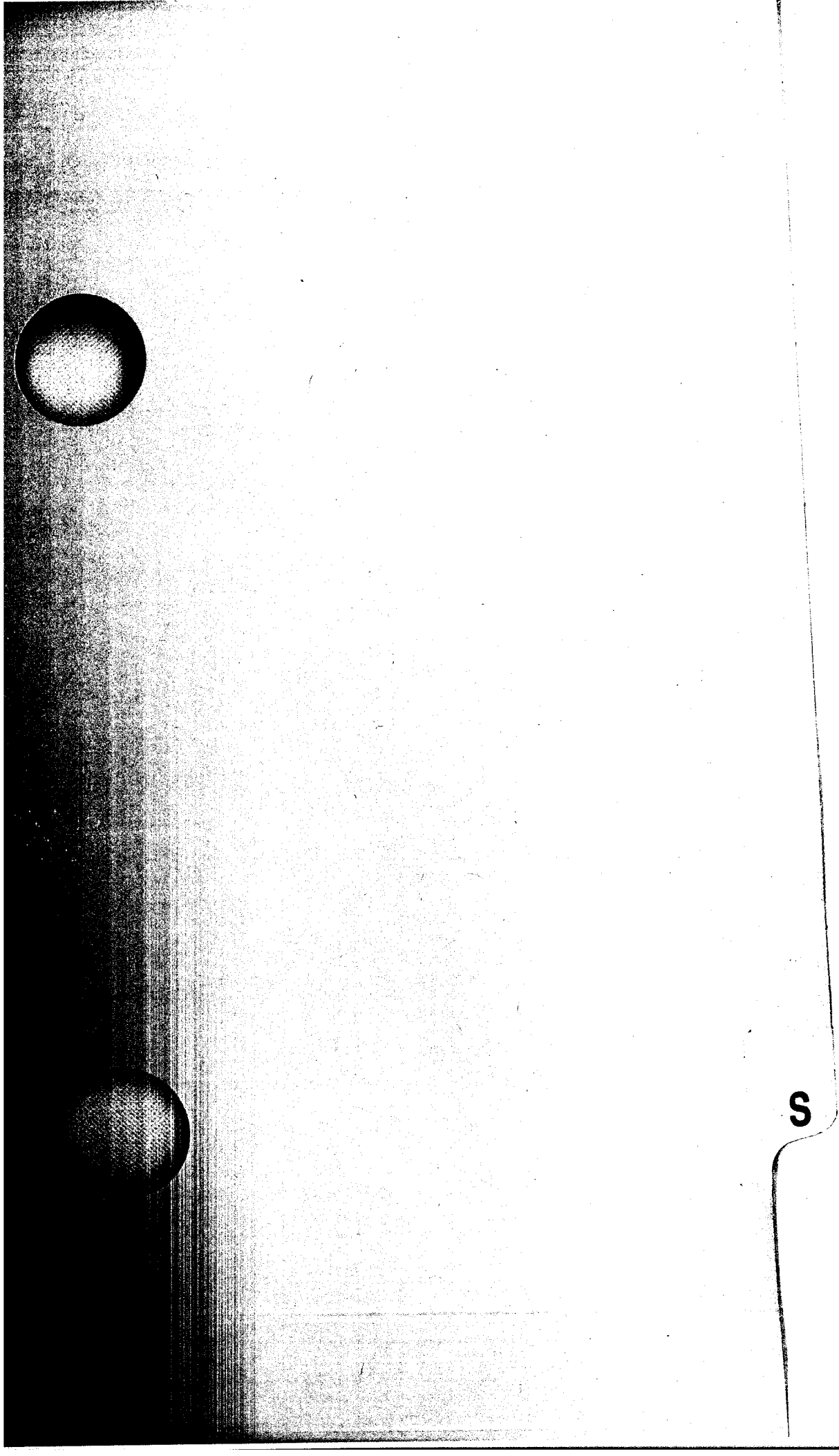
Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

R

EPAHO082000961


S

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TANK WASH WORK ORDER

25850

PO #	Customer: Speedy Transport Services.	Date: 5-15-09.
Tractor 58	Address: 120 [redacted] Couch Alvin Tx.	Time: 12:35. P.M.
Trailer / Container Number 30.	Dropped By: Richard E. Harrison	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	FR4 Polymer.			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.10	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signatures: ST

Stripper Usage:

Comments: 281-372-4104 Freddy
No Tom
Contact. 281 850-8320

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 5-14-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000963

CES Environmental Services

Container / Tank Cleaning Division
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25318

PO #	Customer:	Date
73091	Sherwin Williams	3/19/09
Tractor	Address:	Time: 7:30
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Latex water		55 gpm	gpl
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	✓
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.7	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 6	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 3/19/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25318

PO #	Customer:	Date:
Tractor	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	✓
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 #2 #3 #4 #5
LEL (<10%) #1 #2 #3 #4 #5
CO^2 (<35 ppm) #1 #2 #3 #4 #5
Toxic Vapor #1 #2 #3 #4 #5
Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: Date 3/

Inspected By: Date

Print Name: Date

Signature:

EPAHO082000965

CES Environmental Services

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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25748

PO #	Customer: Sludge Pumps	Date: 4/29/09
Tractor	Address:	Time:
Trailer / Container Number: Sludge	Dropped By: Lyod Gillian	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sludge Pump			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. Date 5-1-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22777

PO #	Customer: Sludge Pump & Chem	Date: 1/20/09
Tractor: Sludge	Address:	Time: 12:19 pm
Trailer / Container Number	Dropped By: [illegible]	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	1 - Pump			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 1-22-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000967

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22910

PO #	Customer: South Coast	Date: 1-30-9
Tractor	Address: 101 Rock Manchester	Time:
Trailer / Container Number 0169	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	OTI			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 1-30-9

Inspected By: _____ Date _____

Print Name: Ronald Roberts Date _____

Signature: Ronald Roberts

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22818

PO #	Customer:	Date:
	Southcoast Terminals	1/21/09
Tractor	Address:	Time:
	7401 Wallisville Rd. Hou, Tx 77020	
Trailer / Container Number	Dropped By:	Need By:
5432	R. Ross (C.A.I.C.)	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily Waste Waters			
2				
3	Ext only			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	✓
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Exterior wash only

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 1-21-09

Inspected By:_____ Date_____

Print Name:_____ Date 1/21/09

Signature:_____

T

EPAHO082000970

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
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TANK WASH WORK ORDER

25975

PO #	Customer: THE HUKTEN	Date: 5/22/09
Tractor 206	Address: 3210 AVE ST	Time: 255pm
Trailer / Container Number 109	Dropped By: PETER SEMA JR	Need By: TODAY

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Low Sulphur Diesel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	/
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:
WASH Pump
1, 2, 5 ONLY

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-22-9

Inspected By: _____ Date _____

Print Name: Peter Sema Date 5/22/09

Signature: _____

EPAHO082000971

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Container / Tank Cleaning Division
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TANK WASH WORK ORDER

25961

PO #	Customer: Teppco Crude Oil	Date: 5-20-09
Tractor	Address:	Time:
Trailer / Container Number 683	Dropped By: Val Serna	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 N/A	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J.R.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 5-20-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
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TANK WASH WORK ORDER

25583

Calik Bullseye

PO #	Customer:	Date:
	[redacted] Topco	04.10.09
Tractor	**Address:**	**Time:**
30623		
Trailer / Container Number	**Dropped By:**	**Need By:**
93187		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Ok	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 4-11-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

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TANK WASH WORK ORDER

25883

PO #	Customer: Topco	Date: 5/13/09
Tractor 30623	Address:	Time: 9:44
Trailer / Container Number 931802	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CRUDE 0.1			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 5/13/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services

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TANK WASH WORK ORDER

25463

PO #	Customer: TEPPCO	Date: 4-2-09
Tractor	Address:	Time:
Trailer / Container Number 946081	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

Cleaned By: C.P. Date 4-1-09

Inspected By: _____ Date _____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25464

PO #	Customer:	Date:
	TEPPCO	4/2/09
Tractor 30631	Address:	Time:
		08:00
Trailer / Container Number	Dropped By:	Need By:
945534	B K Brown	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CRUDE OIL			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: K

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. Date 4-2-09

Inspected By: _____ Date _____

Print Name: KENNETH BROWN Date 4/2/09

Signature: Kenneth Brown

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
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TANK WASH WORK ORDER

25407

PO #	Customer: Topco	Date: 3/25/09
Tractor 30633	Address:	Time:
Trailer / Container Number 93186	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	# 2 Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 3/25/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
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TANK WASH WORK ORDER

25342

PO #	Customer: Abel Garcia Tapia	Date: 3-20-09
Tractor: 30627	Address: Markham East	Time: 0630
Trailer / Container Number: 931808	Dropped By: Abel Garcia	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 7 6	#2	#3	#4	#5
LEL (<10%)	#1 6	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 6	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

Cleaned By: CP Date 3/20/09

Inspected By: _____ Date _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

26369

PO #	Customer:	Date:
	TePPCo	2/5/09
Tractor	**Address:**	**Time:**
3040		10:00
Trailer / Container Number	**Dropped By:**	**Need By:**
945533	Rob Hunt	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 2-5-09

Inspected By: _____ Date _____

Print Name: Rob Hunt Date 2/5/09

Signature: Rob Hunt 140

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24224

PO #	Customer: Teppco	Date: 3-10-09
Tractor	Address:	Time:
Trailer / Container Number 931805	Dropped By: Robt Barr	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.6	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C D

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C D Date 3-10-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

ıner / Tank Cleaning Division
4 Griggs Rd. • Houston, TX 77021
hone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22743

PO #	Customer:	Date:
	Tinsley Distributing	1-20-09
Tractor	Address:	Time:
		8:30 a.m.
Trailer / Container Number	Dropped By:	Need By:
T-448	LeRon McGee	ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Solvent, R			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse ✓	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1 20.1 #2____ #3____ #4____ #5____
LEL (<10%) #1 0 #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1 0 #2____ #3____ #4____ #5____
Toxic Vapor #1 0 #2____ #3____ #4____ #5____
Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P Date 1-20-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22666

PO #	Customer: Tepco	Date: 1-13-09
Tractor 30629	Address:	Time:
Trailer / Container Number 746078	Dropped By: Tommy Vasquez	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	✓
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	✓
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 1-14-09

Inspected By: _____ Date _____

Print Name: Tommy Vasquez Date 1-13-09

Signature: Tommy Vasquez

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
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TANK WASH WORK ORDER

22305

PO #	Customer:	Date:
~~#77037~~	Triad 800-364-1139	12.10.08
Tractor 2630	**Address:**	**Time:** 10:48a
Trailer / Container Number 126	**Dropped By:** x Jaime Cuata	**Need By:** Waiting

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	N/H Solids		~~[illegible]~~	@ 5.10gal
2				
3			110 sols	
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: MC

Stripper Usage:

Comments: Jennifer Rhodes approved for cleaning 281/778.6325 $155.00 WASH

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: MC Date 12-10-08

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

UV

EPAHO082000984

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25446

PO #	Customer: Velaro	Date: 3/27/09
Tractor RO-16	Address:	Time: 16:35
Trailer / Container Number T-7193	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	HAZ waste			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	/
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	/
16 Exterior Trailer Wash (with Internal)	/
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 ~	#2	#3	#4	#5
Toxic Vapor	#1 ~	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 3-30-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000985

EPAHO082000986

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25971

PO #	Customer: Wilson	Date: 5/21/09
Tractor 1300	Address:	Time: 14:07
Trailer / Container Number 107	Dropped By: Michael Bryant	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Transmix Ethyl.			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	/
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	/
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	W
21	Passivation	
	Hose Cleaning	W
	Pump Cleaning	W

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:
David Taylor
870-725-3203

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-21-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25929

PO #	Customer: Weatherford Pineville	Date: 5/28/09
Tractor	Address:	Time:
Trailer / Container Number SNU3366-7	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	1- Tote with N/H liquids			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	✓
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	✓
16	Exterior Trailer Wash (with Internal)	✓
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 5-30-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000988

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25847

PO #	Customer: Weatherford Pineville	Date: 5/8/09
Tractor	Address:	Time: ASAP.
Trailer / Container Number MT-4	Dropped By:	Need By:

CONTAINER TYPE: ☑ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 N/A	liquids		35 gals @ $3 per gal.	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	/
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

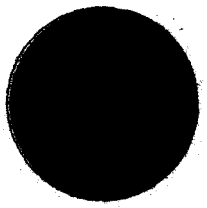
Cleaned By: JE Date 5-15-9

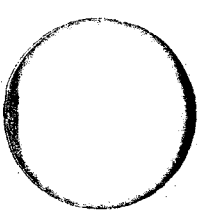
Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000989





XY
Z

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

☆ Please let Al Longoria know when finished – thanks

TANK WASH WORK ORDER

22632

PO #	Customer: Zach – bill Zach for this	Date: 1/7/09
Tractor	Address:	Time: 11:30 AM
Trailer / Container Number 8247	Dropped By: Joe Camp	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Zach Stream 3		✓	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 6	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 1-8-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000991

Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24922

PO #	Customer:	Date:
	Dynamic	7/ /09
Tractor	Address:	Time:
VT-57		
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	~~Caustic~~ Cement			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	✓
18	Hand Labor (# Men / # Hours)	1 man 3.75 hrs
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 1	#2	#3	#4	#5
Toxic Vapor	#1 1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R C P Date 7-31-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

vironmental Services
/ Tank Cleaning Division
ggs Rd. • Houston, TX 77021
(713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24919

PO #	Customer: Paces	Date: 7-30-09
Tractor 294	Address: Portauthor	Time:
Trailer / Container Number 224	Dropped By: Quinn Green	Need By: 7-31-09

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sodium Hydroxide			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 7-31-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

S Environmental Services
ontainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24915

PO #	Customer: firebird	Date: 7-30-09
Tractor	Address:	Time:
Trailer / Container Number 347	Dropped By: Chad	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Base Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.7	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: AR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: AR Date 7-31-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000994

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24920

PO #	Customer: Petroleum Express	Date: 7-31-09
Tractor 105	Address: 11005 I-10E. Mont Belvieu, TX. 77580	Time: 12:00
Trailer / Container Number 1318	Dropped By: Leslie Haskins	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	YU Base 4, YU Base 6		Non-Haz	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.07	#2 20.06	#3 20.01	#4	#5
LEL (<10%)	#1 0	#2 0	#3 0	#4	#5
CO^2 (<35 ppm)	#1 0	#2 0	#3 0	#4	#5
Toxic Vapor	#1 0	#2 0	#3 0	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 7-31-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082000995

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24861

PO #	Customer:	Date:
Hexion (Brady)	CES	7-10-09
Tractor	**Address:**	**Time:**
2000		2:00
Trailer / Container Number	**Dropped By:**	**Need By:**
206	Bobby Rod.	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1			175 gal's	
2	Red Resin.			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	2 75 hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J E Date 7-13-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24861

PO #	Customer:	Date:
Hexion (Bond)	CES	7-10-09
Tractor	**Address:**	**Time:**
2000		2:00
Trailer / Container Number	**Dropped By:**	**Need By:**
206	Bobby Rod.	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1			175 gal	
2	Red Resin.			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	2 3.5 hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 7-10-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082000997

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24859

PO #	Customer: ANDREWS TRANS	Date: 7-17-9
Tractor 1117	Address:	Time:
Trailer / Container Number 1720	Dropped By: JOHNATHON	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	FORTI-MUL EMULSIFIER - BAROID JEPB-8640			
2	(DIESEL OIL / GL/CAL)			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	/
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	/
18 Hand Labor (# Men / # Hours)	2Hr 1 men
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments: need hand labor

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE - JL Date 7-17-9

Inspected By: _____ Date _____

Print Name: JOHNATHON WEBB Date 7/15/09

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
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Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24887

PO #	Customer: Aikens	Date: 7/27/09
Tractor	Address:	Time: 2pm
Trailer / Container Number 234	Dropped By:	Need By: 7/28/09

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	UN 2924 Flammable Corrosive liquid			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

Cleaned By: AR Date 7-27-09

Inspected By: _____ Date _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: _____ Date _____

Signature: _____

.ıvironmental Services
.ıer / Tank Cleaning Division
Griggs Rd. • Houston, TX 77021
ıone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24731

PO #	Customer: Baker	Date: 7-6-09
Tractor 688	Address:	Time:
Trailer / Container Number SJ246664M	Dropped By: Mack	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oil slurry			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	✓
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:
wash inside & outside

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R C.P. Date 7-15-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082001000

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24552

PO #	Customer: Baker Corp	Date: 07/07/09
Tractor 1089	Address:	Time:
Trailer / Container Number SV2611TLM	Dropped By: David	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Dirty Smut Water (included slip			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST Date 7-15-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001001

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24862

PO #	Customer: Belo Tank expires	Date: 7/13/09
Tractor 320	Address:	Time: 9:57 am
Trailer / Container Number 10	Dropped By: Roy L Barger	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	SA 1-1			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	✓
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: SD

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 7/13/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001002

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24876

PO #	Customer: Bullzeye	Date: 7-27-09
Tractor 01	Address:	Time:
Trailer / Container Number 3313	Dropped By: Sean	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Crude oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C.P.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 7-27-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001003

ES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24855

PO #	Customer: Calgon Carbon (713) 541 0222	Date: 7/9/09
Tractor 574	Address: Lathom TX	Time:
Trailer / Container Number Flat Bed	Dropped By: Otis Dickerson	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	N/A Solids W/ Tote			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Ok	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 1	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CRJR Date 7-10-09

Inspected By: _____ Date _____

Print Name: Otis Dickerson Date 7/9/09

Signature: Otis Dickerson

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24867

PO #	Customer: C.A.S.	Date: 7/21/09
Tractor 209	Address:	Time: 10:42
Trailer / Container Number 133	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	RESIN SOLID			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.7	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: SR

Stripper Usage:

Comments:

CK# 11027
$145

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 7/21/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

_S Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24878

PO #	Customer:	Date:
~~X~~ 10938	KL CHEMPAK	7-27-09
Tractor	**Address:**	**Time:**
959	LESTER PA	955 PM
Trailer / Container Number	**Dropped By:**	**Need By:**
3064		10:00 AM

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	IGEPAL CA 630			
2	" " "			
3	IGEPAL CO 887			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2 20.6	#3 20.7	#4	#5
LEL (<10%)	#1 0	#2 0	#3 0	#4	#5
CO^2 (<35 ppm)	#1 0	#2 0	#3 0	#4	#5
Toxic Vapor	#1 0	#2 0	#3 0	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: SR Date 7/27/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001006

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021 •
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24796

PO #	Customer:	Date
	LART	7/17/09
Tractor	**Address:**	**Time:**
527		9:00
Trailer / Container Number	**Dropped By:**	**Need By:**
DC 5		ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	N/H Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: SR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: SR Date 7/17/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24802

PO #	Customer: Dart Cargo	Date: 7-20-05
Tractor 527	Address:	Time:
Trailer / Container Number 4278	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

Cleaned By: JR Date 7-20-09

Inspected By: Date

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Date

Signature:

EPAHO082001008

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24868

PO #	Customer: DART	Date: 7-22-09
Tractor 526	Address:	Time:
Trailer / Container Number DCSF6	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CARBON			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry ✓	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. C.P. Date 7-22-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082001009

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24871

PO #	Customer: Dart Tank	Date: 7-23-09
Tractor: 526	Address:	Time:
Trailer / Container Number: 7831	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Carbon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 7-23-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001010

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

22603

PO #	Customer:	Date:
	DART CALGON	07/23/09
Tractor	Address:	Time:
593		1845
Trailer / Container Number	Dropped By:	Need By:
42 FG	Tom Zdunkiewicz	NEXT DAY

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Calgon			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: TP

Stripper Usage:

Comments:
CALL MIKE,
P00541 9158
[redacted] Ohio
DISPATCH FOR
DART FOR
CLEANING CODES

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: TP Date 7/24/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24899

PO #	Customer: CALGON DAILY	Date: 7-24-09
Tractor 574	Address:	Time: 2:30 A.M.
Trailer / Container Number 5DGGF	Dropped By: Ky Kitts	Need By: 10:00 A.M.

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CARBON			
2	CARBON			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 7-24-09

Inspected By: _____ Date _____

Print Name: Ky Kitts Date 7-24-09

Signature: Ky Kitts

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24886

PO #	Customer: Dynamic	Date: 7/22/09
Tractor: 2024	Address:	Time: 1:57
Trailer / Container Number: 2556	Dropped By: Kevin McNeal #1.	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	N/H Solids			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	✓
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature: _____

Stripper Usage:

Comments:

Authorized Additional Services: _____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 7-23-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24891

PO #	Customer: Dynamic Rentals	Date: 7-22-09
Tractor RO26	Address:	Time: 3:55
Trailer / Container Number 2520	Dropped By: Kerri McNeal	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	W/H Solid			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 7-23-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

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Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24869

PO #	Customer:	Date: 7/22/09
Tractor R072	Address:	Time: 12:36
Trailer / Container Number 2551	Dropped By: Kevin McNeal Jr.	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	N/H Solid			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J. R.

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J.R. Date 7-23-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24732

PO #	Customer:	Date: 7/6/09
Tractor 233	Address:	Time: 10:51
Trailer / Container Number A-611	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☑ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	✓
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE - JL Date 7-10-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

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yironmental Services

/ Tank Cleaning Division
riggs Rd. • Houston, TX 77021
none: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24791

PO #	Customer:	Date:
	Ford	7/15/09
Tractor: 238	Address:	Time: 10:00
Trailer / Container Number: 355	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☑ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Fuel oil			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	X
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	✓
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Caustic Wash

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T. J.R. Date 7-17-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001017

Environmental Services

ntainer / Tank Cleaning Division
904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24804

PO #	Customer: FIREBIRD	Date: 7/20/09
Tractor 234	Address:	Time: 2:45 PM.
Trailer / Container Number 353	Dropped By: Omar Garza	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	FUEL OIL			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 6	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: A.R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R Date 7-22-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001018

Environmental Services
...iner / Tank Cleaning Division
...4 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24779

PO #	Customer: Global Tank Leasing	Date: 7-15-09
Tractor 81221	Address: 2401 Pearl Houston, TX	Time: 1:35pm
Trailer / Container Number L 8048	Dropped By: Jeff Kinsey	Need By: 7-16-09

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Tallow			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 Fan #1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 1	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R Date 7-16-09

Inspected By: _____ Date _____

Print Name: Jeff Kinsey Date 7-15-09

Signature: [signature]

EPAHO082001019

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25493

PO #	Customer: AJ Hurt	Date: 4-6-09
Tractor: 207	Address: 3310 Alice St	Time: 1:30 PM
Trailer / Container Number: L 8042	Dropped By: Bennie Dorsey	Need By: next day

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	ONC Diesel Fuel			
2				
3				
4				
5				

	CLEANING CODES	WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	✓
8	Detergent Wash, Rinse & Dry	
9	Caustic Wash & Dry	
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0%	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: MC

Stripper Usage:

Comments:

off Rnt.

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: MC Date 4-6-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25704

PO #	Customer: The Hurt CO.	Date: 4-16-09
Tractor	Address: 3310 Alice St	Time: 12:30
Trailer / Container Number: L8042	Dropped By: EDDIE McDADE	Need By: Tomorrow

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	DEXRON VI			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	/
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	/
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	/
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JL Date 4-16-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25706

PO #	Customer: The Hurt CO.	Date: 4-16-09
Tractor 205	Address: 3310 Alice St	Time: 2:30
Trailer / Container Number L6574	Dropped By: EDDIE MEDADE	Need By: Tomorrow

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Gasoline			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	/
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JL

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: MC Date 4-16-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

25708

PO #	Customer: The Hurt Co.	Date: 4-16-09
Tractor 205	Address: 3310 Alum St	Time: 3:25
Trailer / Container Number L 938	Dropped By: EDDIE MEDADE	Need By: Tomorrow.

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	/
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	/
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.1	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: MC

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: MC Date 4-16-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001023

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24792

PO #	Customer: Hurt	Date: 7-15-9
Tractor	Address:	Time:
Trailer / Container Number 305	Dropped By: ALEX SERNA	Need By: 6:00 AM

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments: comp. #1 only

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 7-15-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

ironmental Services

Tank Cleaning Division
ggs Rd. • Houston, TX 77021
: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

832-876-8910 PETE 24883

PO #	Customer: THE HUFF CO	Date: 7/22/09
Tractor 206	Address: 310 N WEST ST	Time: 12:30 pm
Trailer / Container Number 109	Dropped By: PETE SEWELL	Need By: TODAY

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Low Sulfur Diesel			
2				
3	Delo 50/50 Antifreeze			
4	Unleaded Gas			
5	Low Sulfur Diesel			

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	✓
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1	20.9	#2		#3	20.9	#4	20.9	#5	20.9
LEL (<10%)	#1	0	#2		#3	0	#4	0	#5	0
CO^2 (<35 ppm)	#1	0	#2		#3	0	#4	0	#5	0
Toxic Vapor	#1	0	#2		#3	0	#4	0	#5	0

Signature: _____

Stripper Usage:

Comments:
WASHOUT Pump
1, 3, 4, 5
ONLY

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J. R. Date 7-22-09

Inspected By: _____ Date _____

Print Name: Pete Sewell Date 7/22/09

Signature: _____

Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24872

PO #	Customer: Hits	Date: 7/03/09
Tractor: 2010	Address:	Time: 2:50pm
Trailer / Container Number: 109	Dropped By: Peter Sarna	Need By: Today

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Antifreeze				
2				
3				
4 [illegible]				
5 Antifreeze				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.07	#2	#3	#4	#5 20.07
LEL (<10%)	#1 0	#2	#3	#4	#5 0
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5 0
Toxic Vapor	#1 0	#2	#3	#4	#5 0

Signature: CP

Stripper Usage:

Comments:
Pump #1, 5
ONLY
832-875-5910

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP Date 7-23-09

Inspected By: _____ Date _____

Print Name: Peter Sarna Date 7/23/09

Signature: [illegible]

EPAHO082001026

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24793

PO #	Customer: Innerplant	Date: 7 15 09
Tractor 9	Address:	Time:
Trailer / Container Number 189	Dropped By: Falcon	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Mineral Oil			
2	Alkyl alcohol			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry ✓	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: J R Date 7-16-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24795

PO #	Customer: Ineos Innovene Plant	Date: 7/16/09
Tractor	Address:	Time:
Trailer / Container Number 11960	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	SEE ATTACH			
3				
4	Naloo MVDOT			
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JE

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JE Date 7-16-9

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

Environmental Services

...ner / Tank Cleaning Division
...4 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24874

PO #	Customer: Inner Plant	Date: 7/24/09
Tractor	Address:	Time:
Trailer / Container Number: 1196	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Fuel only			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1~~5~~ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 7-24-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

Environmental Services
...ner / Tank Cleaning Division
...4 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24874

PO #	Customer: Inner Plant	Date: 7/24/09
Tractor	Address:	Time:
Trailer / Container Number 1196	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Entire only				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 ✓	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C P Date 7-24-09

Inspected By: Date

Print Name: Date

Signature:

EPAHO082001030

Environmental Services

ainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24888

PO #	Customer: Inner Plant	Date: 7/27/09
Tractor #9	Address:	Time: 9:06
Trailer / Container Number 23416	Dropped By: Balcan	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Butanol			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	✓
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 C	#2	#3	#4	#5

Signature: C P

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C P Date 7-27-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

S Environmental Services
ntainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24879

PO #	Customer: Innerplant	Date: 72809
Tractor 9	Address:	Time:
Trailer / Container Number 5050	Dropped By: Falcon	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	PX 3872			
2	Friction Modifier			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal) ✓	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.01	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: A R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. Date 7-28-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001032

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24877

PO #	Customer: T HP	Date: 7/24/09
Tractor	Address:	Time:
Trailer / Container Number 517	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Light Lube a			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

Cleaned By: 7/24/09 CP Date 7/24/09

Inspected By:_____ Date_____

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 21	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24833

PO #	Customer: FTS	Date: 7-7-09
Tractor 151	Address:	Time: 4:05
Trailer / Container Number 3596	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Line Wash			
2	N/H waste water			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: CP

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A.R. CP Date 7-10-09

Inspected By: _____ Date _____

Print Name: Freddy G. Date 7-7-09

Signature: Freddy G.

EPAHO082001034

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24777

PO #	Customer:	Date:
53458	ITS	7/13/09
Tractor	**Address:**	**Time:**
129		
Trailer / Container Number	**Dropped By:**	**Need By:**
075		

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Glycol Bottoms		150gal	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	2 men 1hr
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: JR

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 7/13/09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

EPAHO082001035

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24863

PO #	Customer: ITS	Date: 7/13/09
Tractor 116	Address:	Time: 10:30
Trailer / Container Number 6001	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Almitrile Fatty Acid			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	✓
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: S.T Date 7-13-09

Inspected By:_____ Date_____

Print Name:_____ Date 7/13/09

Signature:_____

Environmental Services

ıtainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24787

PO #	Customer: Intergrated Trans (I-TS)	Date: 7-14-09
Tractor 177	Address: Chv. Tx	Time: 2:30 P
Trailer / Container Number 942	Dropped By: Tim Hogue	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	FR Lbs Non Haz			
2				
3	~~Poly - PA~~ Polymer			
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	✓
10 Caustic Wash, Rinse & Dry	✓
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	2-2" ✓
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Polymer
Rinse

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: CP/ST Date 7-16-09

Inspected By: _____ Date _____

Print Name: Tim Hogue Date 7-14-09

Signature: Tim Hogue

S Environmental Services
ntainer / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24885

PO #	Customer: LEE'S	Date: 7/22/09.
Tractor 2860	Address:	Time: 12:30
Trailer / Container Number 12365	Dropped By: FRANK DAVIS	Need By: ASAP.

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Sodium Bisulfate			
2				
3				
4				
5				

CLEANING CODES		WORK PERFORMED
1	Air Dry	
2	Quick Rinse	
3	Cold Water Rinse	
4	Hot Water Rinse	
5	Steam Only (Per Hour)	
6	Steam & Dry	
7	Rinse, Steam & Dry	
8	Detergent Wash, Rinse & Dry	✓
9	Caustic Wash & Dry	✓
10	Caustic Wash, Rinse & Dry	✓
11	Waste Water Surcharge	✓
12	Solvent Wash (Diesel # Hours)	
13	Solvent Wash (Stripper)	
14	Exterior Tractor Wash	
15	Exterior Trailer Wash (w/o Internal)	
16	Exterior Trailer Wash (with Internal)	
17	Exterior Acid Brite Wash	
18	Hand Labor (# Men / # Hours)	
19	Hydroblaster (# Hours)	
20	Solvent Wash (Green Stripper)	
21	Passivation	
	Hose Cleaning	
	Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:
DOW PREP
PRESSURE & VACUUM TESTED ✓

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 7-22-09

Inspected By:_____ Date_____

Print Name: FRANK DAVIS Date 7/22/09

Signature: Frank Davis

EPAHO082001038

.nmental Services
ank Cleaning Division
ggs Rd. • Houston, TX 77021
.. (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24884

PO #	Customer: KINDER MORGAN	Date: 07-22-09
Tractor 298	Address:	Time:
Trailer / Container Number Box # V-41	Dropped By: ROLANDO MORALES	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☒ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	REGULATED WASTE SLUDGE		250	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: A. R. Date 7-23-09

Inspected By: Date

Print Name: Date

Signature:

...vironmental Services
...er / Tank Cleaning Division
... Griggs Rd. • Houston, TX 77021
...none: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24898

PO #	Customer:	Date:
056448525	L W Miller	7-23-09
Tractor	**Address:**	**Time:**
1328	N Salt Lake Utah	
Trailer / Container Number	**Dropped By:**	**Need By:** 9 Am Early As Poss.
644	Gary	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Brown Dye			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	✓
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20	#2	#3	#4	#5
LEL (<10%)	#1 ✓	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 ✓	#2	#3	#4	#5
Toxic Vapor	#1 ✓	#2	#3	#4	#5

Signature: AP

Stripper Usage:

Comments:
1-2" hose
Fittings
Need to be very Clean
Change All White Gaskets
$660.75
CK # 132622647

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: AP / JR Date 7/24/09

Inspected By: JT Date 7/24/09

Print Name: Gary Flaherty Date 7-23-09

Signature: Gary Flaherty

EPAHO082001040

Environmental Services

ıtainer / Tank Cleaning Division
.904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24858

PO #	Customer: M.P.C.	Date: 7/10/09
Tractor 2616	Address:	Time: 11:00
Trailer / Container Number 6213	Dropped By: Richard L. Stamps	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.8	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: J R

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST JR Date 7-17-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082001041

Environmental Services

ainer / Tank Cleaning Division
04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24794

PO #	Customer:	Date:
OP-AP-4203	PHOENIX	7/16/09
Tractor	**Address:**	**Time:**
VT-1	720 S. Industrial Rd Baytown TX	
Trailer / Container Number	**Dropped By:**	**Need By:**
	GABRIEL HERNANDEZ	

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oily water	50 gal		
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	✓
5 Steam Only (Per Hour)	
6 Steam & Dry	✓
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	2 men, 1.5 hr
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.5	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1	#2	#3	#4	#5
Toxic Vapor	#1	#2	#3	#4	#5

Signature:

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: [illegible] Date 7/16/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24856

PO #	Customer: Safety Kleen (Penske)	Date: 7-9-07
Tractor	Address: 11953 FM 529	Time: 1620
Trailer / Container Number: 8009194	Dropped By: Chris Nichols	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK ☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Oil Water (Sludge		275 gals @	#5 per gal
2	Non - Haz solids			
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	✓
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	✓
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	✓ 2 men 2.75 hrs
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.0	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: ST

Stripper Usage:

Comments: Heel

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: ST / CP Date 7/10/07

Inspected By: Date

Print Name: Chris Nichols Date 7-9-07

Signature: [signature]

EPAHO082001043

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24906

PO #	Customer: T & K Metal Detailing	Date: 7/29/09
Tractor	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☑ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Side off Dirty Tote @ $25			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1_____	#2_____	#3_____	#4_____	#5_____
LEL (<10%)	#1_____	#2_____	#3_____	#4_____	#5_____
CO^2 (<35 ppm)	#1_____	#2_____	#3_____	#4_____	#5_____
Toxic Vapor	#1_____	#2_____	#3_____	#4_____	#5_____

Signature:_____

Stripper Usage:

Comments:
$25

Authorized Additional Services:_____

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By:_____ Date 7/29/09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082001044

Environmental Services

.ainer / Tank Cleaning Division
.04 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24860

PO #	Customer: Team Transport	Date: 7-10-09
Tractor: 40	Address: 1106 N. Main Columbia MS	Time: 12:40
Trailer / Container Number: 163	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☑ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	163 Choline Chloride			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.4	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: C P

Stripper Usage:

Comments:
2 - 2 Inch hoses
Waiting

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Cleaned By: C.P. Date 7-10-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24672

PO #	Customer: Vincent Williams	Date: 6-29-09
Tractor 17	Address: Triple B Industrial	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oil x water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
LEL (<10%) #1____ #2____ #3____ #4____ #5____
CO^2 (<35 ppm) #1____ #2____ #3____ #4____ #5____
Toxic Vapor #1____ #2____ #3____ #4____ #5____
Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: C.P. Date 6-24-09

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082001046

CES Environmental Services

Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24881

PO #	Customer: Triple B.	Date: 7/21/09
Tractor LR-23	Address:	Time: 11:17
Trailer / Container Number	Dropped By: Vincent Williams	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☑ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oily water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry ✓	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge ✓	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1 20.9	#2	#3	#4	#5
LEL (<10%)	#1 0	#2	#3	#4	#5
CO^2 (<35 ppm)	#1 0	#2	#3	#4	#5
Toxic Vapor	#1 0	#2	#3	#4	#5

Signature: A R

Stripper Usage:

Comments:

Authorized Additional Services:

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Cleaned By: A R Date 7-21-09

Inspected By: _____ Date _____

Print Name: _____ Date _____

Signature: _____

CES Environmental Services
Container / Tank Cleaning Division
4904 Griggs Rd. • Houston, TX 77021
Phone: (713) 676-1460 • Fax: (713) 676-1676

TANK WASH WORK ORDER

24904

PO #	Customer: Triple B	Date: 4/28/07
Tractor	Address:	Time:
Trailer / Container Number	Dropped By: X Austin Turner	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Thews 1½ 2" 2-3"			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED
1 Air Dry	
2 Quick Rinse	
3 Cold Water Rinse	
4 Hot Water Rinse	
5 Steam Only (Per Hour)	
6 Steam & Dry	
7 Rinse, Steam & Dry	
8 Detergent Wash, Rinse & Dry	
9 Caustic Wash & Dry	
10 Caustic Wash, Rinse & Dry	
11 Waste Water Surcharge	
12 Solvent Wash (Diesel # Hours)	
13 Solvent Wash (Stripper)	
14 Exterior Tractor Wash	
15 Exterior Trailer Wash (w/o Internal)	
16 Exterior Trailer Wash (with Internal)	
17 Exterior Acid Brite Wash	
18 Hand Labor (# Men / # Hours)	
19 Hydroblaster (# Hours)	
20 Solvent Wash (Green Stripper)	
21 Passivation	
Hose Cleaning	
Pump Cleaning	

TANK ENTRY PERMIT

Oxygen (19.5% -23.5%)	#1____	#2____	#3____	#4____	#5____
LEL (<10%)	#1____	#2____	#3____	#4____	#5____
CO^2 (<35 ppm)	#1____	#2____	#3____	#4____	#5____
Toxic Vapor	#1____	#2____	#3____	#4____	#5____

Signature:_____

Stripper Usage:

Comments:

Authorized Additional Services:

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: JR Date 7-25-07

Inspected By:_____ Date_____

Print Name:_____ Date_____

Signature:_____

EPAHO082001048