Attachment I

Data Summary Tables

9858893

Attachment I - Data Summary Tables
Soil Analytical Data
CES Chemical Spill Response
Houston, Harris County, Texas

Analyte	CAS.NO	Units	Site Specific Value	Texas Background	EPA RML June 2014 Res Soil Carcinogenic SL TR=1.0E-4	EPA RML June 2014 Res Soil Noncarcinogenic SL Child HI=3	TCEQ TRRP PCL Residential Soil 0.5 acre TotSoilComb	EPA RSL Carcinogenic SL TR=1.0E-6	EPA RSL Noncarcinogenic SL Child HI=1	EPA RSL Noncarcinogenic SL Child HI=0.1	Sample ID Date Type	CES-CS-01-51 8/5/2014 Field Sample	CES-CS-02-51 8/5/2014 Field Sample	CES-CS-03-51 8/5/2014 Field Sample
Metals														
Aluminum	7429-90-5	mg/kg	65000	30000	NP	230000	65000	NP	77000	7700	--	**18800**	**11000**	**14100**
Antimony	7440-36-0	mg/kg	15	1	NP	94	15	NP	31	3.1	--	**1.4 J**	0.55 U	**0.33 J**
Arsenic	7440-38-2	mg/kg	24	5.9	67	100	24	0.67	34	3.4	--	**6.8**	**8.4**	**2.1**
Barium	7440-39-3	mg/kg	8100	300	NP	46000	8100	NP	15000	1500	--	**432**	**60.2**	**100**
Beryllium	7440-41-7	mg/kg	38	1.5	160000	470	38	1600	160	16	--	**2.7**	**0.55**	**0.55**
Cadmium	7440-43-9	mg/kg	52	NP	210000	210	52	2100	70	7	--	**0.85 J**	**0.22 J**	**0.44**
Calcium	7440-70-2	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**121000**	**101000**	**19000**
Chromium	7440-47-3	mg/kg	33000	30	NP	NP	33000	NP	NP	NP	--	**34.2**	**11.1**	**15**
Cobalt	7440-48-4	mg/kg	70	7	42000	70	400	420	23	2.3	--	**6.1**	**4.1**	**3.8**
Copper	7440-50-8	mg/kg	1300	15	NP	9400	1300	NP	3100	310	--	**48.4**	**10.2**	**16.2**
Iron	7439-89-6	mg/kg	160000	15000	NP	160000	NP	NP	55000	5500	--	**12800**	**14100**	**10900**
Lead	7439-92-1	mg/kg	500	15	NP	NP	500	NP	NP	NP	--	**69.9**	**31**	**48.7**
Magnesium	7439-95-4	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**2710**	**1450**	**2000**
Manganese	7439-96-5	mg/kg	3900	300	NP	5500	3900	NP	1800	180	--	**288**	**100**	**145**
Mercury (at pH = 4.9)	7439-97-6	mg/kg	3.6	0.04	NP	28	3.6	NP	9.4	0.94	--	**1.6**	**0.035**	**0.066**
Nickel	7440-02-0	mg/kg	840	10	1500000	4600	840	15000	1500	150	--	**95.9**	**8.4**	**10.9**
Potassium	7440-09-7	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**1950**	**1010**	**1790**
Selenium	7782-49-2	mg/kg	310	0.3	NP	1200	310	NP	390	39	--	**1.9 J**	**1.6**	**0.71**
Silver	7440-22-4	mg/kg	97	NP	NP	1200	97	NP	390	39	--	**0.094 J**	0.042 U	0.05 U
Sodium	7440-23-5	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**465 J**	**316**	**160 J**
Vanadium	7440-62-2	mg/kg	76	50	NP	1200	76	NP	390	39	--	**32.8**	**41.2**	**20.8**
Zinc	7440-66-6	mg/kg	9900	30	NP	70000	9900	NP	23000	2300	--	**354**	**64.9**	**130**
Pesticides														
alpha-Chlordane	5103-71-9	ug/kg	13000	NP	NP	NP	13000	NP	NP	NP	--	7.1 U	**3.3 J**	**3.2 J**
gamma-Chlordane	5103-74-2	ug/kg	7400	NP	NP	NP	7400	NP	NP	NP	--	7.5 U	2.2 U	2.7 U
SVOC-PAH														
Benzo(b)fluoranthene	205-99-2	ug/kg	5700	NP	15000	NP	5700	150	NP	NP	--	82 U	48 U	59 U
Fluoranthene	206-44-0	ug/kg	2300000	NP	NP	7000000	2300000	NP	2300000	230000	--	110 U	63 U	78 U
Pyrene	129-00-0	ug/kg	1700000	NP	NP	5200000	1700000	NP	1700000	170000	--	150 U	85 U	100 U
SVOCs														
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	43000	NP	3800000	3700000	43000	38000	1200000	120000	--	260 U	150 U	**235**
TPH (TNRCC 1005)														
TPH (>C12-C28)	TPH-1005-2	mg/kg	2300	NP	NP	NP	2300	NP	NP	NP	--	**234**	17 U	20 U
TPH (>C28-C35)	TPH-1005-4	mg/kg	2300	NP	NP	NP	2300	NP	NP	NP	--	**147**	17 U	20 U
TPH (C6-C35)	TPH_C06_C35	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**381**	14 U	16 U

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Soil Analytical Data
CES Chemical Spill Response
Houston, Harris County, Texas

Analyte	CAS.NO	Units	Site Specific Value	Texas Background	EPA RML June 2014 Res Soil Carcinogenic SL TR=1.0E-4	EPA RML June 2014 Res Soil Noncarcinogenic SL Child HI=3	TCEQ TRRP PCL Residential Soil 0.5 acre TotSoilComb	EPA RSL Carcinogenic SL TR=1.0E-6	EPA RSL Noncarcinogenic SL Child HI=1	EPA RSL Noncarcinogenic SL Child HI=0.1	Sample ID Date Type	CES-CS-01-51 8/5/2014 Field Sample	CES-CS-02-51 8/5/2014 Field Sample	CES-CS-03-51 8/5/2014 Field Sample
VOCs														
1,2,4-Trimethylbenzene	95-63-6	ug/kg	150000	NP	NP	170000	150000	NP	58000	5800	--	**9.1**	0.39 U	0.58 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	110000	NP	NP	2300000	110000	NP	780000	78000	--	**2.4 J**	0.91 U	1.3 U
Acetone	67-64-1	ug/kg	66000000	NP	NP	180000000	66000000	NP	61000000	6100000	--	**71.1 J**	9.7 U	14 U
Carbon disulfide	75-15-0	ug/kg	2300000	NP	NP	2300000	4600000	NP	770000	77000	--	**3.5 J**	0.56 U	0.83 U
Ethylbenzene	100-41-4	ug/kg	580000	NP	580000	10000000	6400000	5800	3400000	340000	--	**13.3**	0.94 U	1.4 U
m,p-Xylene	108-38-3/106-42-3	ug/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**12.1 J**	1.7 U	2.5 U
Methyl ethyl ketone	78-93-3	ug/kg	40000000	NP	NP	81000000	40000000	NP	27000000	2700000	--	**26.2 J**	4.9 U	7.1 U
o-Xylene	95-47-6	ug/kg	1900000	NP	NP	1900000	48000000	NP	650000	65000	--	**6.5 J**	0.98 U	1.4 U
Toluene	108-88-3	ug/kg	5900000	NP	NP	15000000	5900000	NP	4900000	490000	--	**2.7 J**	0.99 U	1.5 U
Xylene (total)	1330-20-7	ug/kg	1800000	NP	NP	1800000	6000000	NP	580000	58000	--	**18.6 J**	2.7 U	4 U

Notes:
EPA RML - EPA Removal Management Levels
TCEQ TRRP PCLs - TCEQ Texas Risk Reduction Program Protective Concentration Levels
EPA RSL - EPA Regional Screening Levels
Site Specific Value is the lowest of the EPA RMLs and TCEQ TRRP PCL.
EPA RSLs are shown for informational purposes only.
NP indicates not published.
NA indicates not applicable.
Bold indicates a detected concentration
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram

Qualifier Definitions:
J - estimated value
U - results not detected above the associated value

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CES Chemical Spill Response
Houston, Harris County, Texas

Analyte	CAS.NO	Units	Site Specific Value	Texas Background	EPA RML June 2014 Res Soil Carcinogenic SL TR=1.0E-4	EPA RML June 2014 Res Soil Noncarcinogenic SL Child HI=3	TCEQ TRRP PCL Residential Soil 0.5 acre TotSoilComb	EPA RSL Carcinogenic SL TR=1.0E-6	EPA RSL Noncarcinogenic SL Child HI=1	EPA RSL Noncarcinogenic SL Child HI=0.1	Sample ID Date Type	CES-CS-04-51 8/5/2014 Field Sample	CES-CS-05-51 8/5/2014 Field Sample	CES-CS-06-51 8/5/2014 Field Sample
Metals														
Aluminum	7429-90-5	mg/kg	65000	30000	NP	230000	65000	NP	77000	7700	--	**14400**	**12800**	**18500**
Antimony	7440-36-0	mg/kg	15	1	NP	94	15	NP	31	3.1	--	**0.32 J**	**0.36**	**0.46**
Arsenic	7440-38-2	mg/kg	24	5.9	67	100	24	0.67	34	3.4	--	**2.5**	**2.8**	**2.9**
Barium	7440-39-3	mg/kg	8100	300	NP	46000	8100	NP	15000	1500	--	**98.1**	**112**	**152**
Beryllium	7440-41-7	mg/kg	38	1.5	160000	470	38	1600	160	16	--	**0.86**	**1.1**	**1.5**
Cadmium	7440-43-9	mg/kg	52	NP	210000	210	52	2100	70	7	--	**0.61**	**0.54**	**0.74**
Calcium	7440-70-2	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**14700**	**20200**	**24400**
Chromium	7440-47-3	mg/kg	33000	30	NP	NP	33000	NP	NP	NP	--	**18**	**16.5**	**23**
Cobalt	7440-48-4	mg/kg	70	7	42000	70	400	420	23	2.3	--	**4.8**	**4.2**	**4.8**
Copper	7440-50-8	mg/kg	1300	15	NP	9400	1300	NP	3100	310	--	**17.5**	**20.9**	**22.3**
Iron	7439-89-6	mg/kg	160000	15000	NP	160000	NP	NP	55000	5500	--	**10100**	**9810**	**12100**
Lead	7439-92-1	mg/kg	500	15	NP	NP	500	NP	NP	NP	--	**124**	**75.7**	**90.3**
Magnesium	7439-95-4	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**1830**	**1830**	**2360**
Manganese	7439-96-5	mg/kg	3900	300	NP	5500	3900	NP	1800	180	--	**198**	**184**	**207**
Mercury (at pH = 4.9)	7439-97-6	mg/kg	3.6	0.04	NP	28	3.6	NP	9.4	0.94	--	**0.11**	**0.087**	**0.11**
Nickel	7440-02-0	mg/kg	840	10	1500000	4600	840	15000	1500	150	--	**11.8**	**13.4**	**16.8**
Potassium	7440-09-7	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**1430**	**1690**	**1860**
Selenium	7782-49-2	mg/kg	310	0.3	NP	1200	310	NP	390	39	--	**0.73**	**0.57**	**0.44**
Silver	7440-22-4	mg/kg	97	NP	NP	1200	97	NP	390	39	--	0.05 U	**0.13 J**	0.047 U
Sodium	7440-23-5	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**167 J**	**207 J**	**211 J**
Vanadium	7440-62-2	mg/kg	76	50	NP	1200	76	NP	390	39	--	**21.4**	**18.7**	**26.2**
Zinc	7440-66-6	mg/kg	9900	30	NP	70000	9900	NP	23000	2300	--	**216**	**171**	**210**
Pesticides														
alpha-Chlordane	5103-71-9	ug/kg	13000	NP	NP	NP	13000	NP	NP	NP	--	1 U	**2.4 J**	2.5 U
gamma-Chlordane	5103-74-2	ug/kg	7400	NP	NP	NP	7400	NP	NP	NP	--	1.1 U	2.5 U	2.7 U
SVOC-PAH														
Benzo(b)fluoranthene	205-99-2	ug/kg	5700	NP	15000	NP	5700	150	NP	NP	--	60 U	**115 J**	**63.9 J**
Fluoranthene	206-44-0	ug/kg	2300000	NP	NP	7000000	2300000	NP	2300000	230000	--	78 U	**83.6 J**	76 U
Pyrene	129-00-0	ug/kg	1700000	NP	NP	5200000	1700000	NP	1700000	170000	--	110 U	**119 J**	100 U
SVOCs														
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	43000	NP	3800000	3700000	43000	38000	1200000	120000	--	190 U	**258**	180 U
TPH (TNRCC 1005)														
TPH (>C12-C28)	TPH-1005-2	mg/kg	2300	NP	NP	NP	2300	NP	NP	NP	--	21 U	19 U	19 U
TPH (>C28-C35)	TPH-1005-4	mg/kg	2300	NP	NP	NP	2300	NP	NP	NP	--	21 U	19 U	19 U
TPH (C6-C35)	TPH_C06_C35	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	18 U	16 U	15 U

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VOCs														
1,2,4-Trimethylbenzene	95-63-6	ug/kg	150000	NP	NP	170000	150000	NP	58000	5800	--	0.69 U	0.53 U	0.54 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	110000	NP	NP	2300000	110000	NP	780000	78000	--	1.6 U	1.2 U	1.3 U
Acetone	67-64-1	ug/kg	66000000	NP	NP	180000000	66000000	NP	61000000	6100000	--	17 U	13 U	**30.3 J**
Carbon disulfide	75-15-0	ug/kg	2300000	NP	NP	2300000	4600000	NP	770000	77000	--	1 U	0.77 U	0.78 U
Ethylbenzene	100-41-4	ug/kg	580000	NP	580000	10000000	6400000	5800	3400000	340000	--	1.7 U	1.3 U	1.3 U
m,p-Xylene	108-38-3/106-42-3	ug/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	3.1 U	2.4 U	2.4 U
Methyl ethyl ketone	78-93-3	ug/kg	40000000	NP	NP	81000000	40000000	NP	27000000	2700000	--	8.6 U	6.6 U	6.7 U
o-Xylene	95-47-6	ug/kg	1900000	NP	NP	1900000	48000000	NP	650000	65000	--	1.7 U	1.3 U	1.3 U
Toluene	108-88-3	ug/kg	5900000	NP	NP	15000000	5900000	NP	4900000	490000	--	1.7 U	1.3 U	1.4 U
Xylene (total)	1330-20-7	ug/kg	1800000	NP	NP	1800000	6000000	NP	580000	58000	--	4.8 U	3.7 U	3.7 U

Notes:
EPA RML - EPA Removal Management Levels
TCEQ TRRP PCLs - TCEQ Texas Risk Reduction Program Protective Concentration Levels
EPA RSL - EPA Regional Screening Levels
Site Specific Value is the lowest of the EPA RMLs and TCEQ TRRP PCL.
EPA RSLs are shown for informational purposes only.
NP indicates not published.
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Analyte	CAS.NO	Units	Site Specific Value	Texas Background	EPA RML June 2014 Res Soil Carcinogenic SL TR=1.0E-4	EPA RML June 2014 Res Soil Noncarcinogenic SL Child HI=3	TCEQ TRRP PCL Residential Soil 0.5 acre TotSoilComb	EPA RSL Carcinogenic SL TR=1.0E-6	EPA RSL Noncarcinogenic SL Child HI=1	EPA RSL Noncarcinogenic SL Child HI=0.1	Sample ID Date Type	CES-CS-07-51 8/5/2014 Field Sample	CES-CS-08-51 8/5/2014 Field Sample	CES-CS-09-51 8/5/2014 Field Sample
Metals														
Aluminum	7429-90-5	mg/kg	65000	30000	NP	230000	65000	NP	77000	7700	--	**24900**	**26600**	**24500**
Antimony	7440-36-0	mg/kg	15	1	NP	94	15	NP	31	3.1	--	**0.24 J**	**0.13 J**	**0.26 J**
Arsenic	7440-38-2	mg/kg	24	5.9	67	100	24	0.67	34	3.4	--	**3.4**	**4**	**3.7**
Barium	7440-39-3	mg/kg	8100	300	NP	46000	8100	NP	15000	1500	--	**144**	**129**	**147**
Beryllium	7440-41-7	mg/kg	38	1.5	160000	470	38	1600	160	16	--	**1.1**	**1.2**	**1.5**
Cadmium	7440-43-9	mg/kg	52	NP	210000	210	52	2100	70	7	--	**0.55**	**0.26 J**	**0.39**
Calcium	7440-70-2	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**25200**	**11100**	**22000**
Chromium	7440-47-3	mg/kg	33000	30	NP	NP	33000	NP	NP	NP	--	**25.3**	**25.2**	**25.8**
Cobalt	7440-48-4	mg/kg	70	7	42000	70	400	420	23	2.3	--	**5**	**6.7**	**5.7**
Copper	7440-50-8	mg/kg	1300	15	NP	9400	1300	NP	3100	310	--	**17.3**	**14.9**	**18**
Iron	7439-89-6	mg/kg	160000	15000	NP	160000	NP	NP	55000	5500	--	**14800**	**16400**	**14800**
Lead	7439-92-1	mg/kg	500	15	NP	NP	500	NP	NP	NP	--	**53.1**	**57.3**	**61.3**
Magnesium	7439-95-4	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**2730**	**2800**	**2870**
Manganese	7439-96-5	mg/kg	3900	300	NP	5500	3900	NP	1800	180	--	**184**	**199**	**327**
Mercury (at pH = 4.9)	7439-97-6	mg/kg	3.6	0.04	NP	28	3.6	NP	9.4	0.94	--	**0.13**	**0.051**	**0.31**
Nickel	7440-02-0	mg/kg	840	10	1500000	4600	840	15000	1500	150	--	**14.9**	**14.4**	**15.1**
Potassium	7440-09-7	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**2100**	**2290**	**2100**
Selenium	7782-49-2	mg/kg	310	0.3	NP	1200	310	NP	390	39	--	**0.6**	**0.69**	**0.79**
Silver	7440-22-4	mg/kg	97	NP	NP	1200	97	NP	390	39	--	0.049 U	0.05 U	0.057 U
Sodium	7440-23-5	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	**306 J**	**152 J**	**123 J**
Vanadium	7440-62-2	mg/kg	76	50	NP	1200	76	NP	390	39	--	**34.7**	**38.4**	**33.8**
Zinc	7440-66-6	mg/kg	9900	30	NP	70000	9900	NP	23000	2300	--	**144**	**88.2**	**143**
Pesticides														
alpha-Chlordane	5103-71-9	ug/kg	13000	NP	NP	NP	13000	NP	NP	NP	--	1 U	1.1 U	1.1 U
gamma-Chlordane	5103-74-2	ug/kg	7400	NP	NP	NP	7400	NP	NP	NP	--	**1.2 J**	1.1 U	1.2 U
SVOC-PAH														
Benzo(b)fluoranthene	205-99-2	ug/kg	5700	NP	15000	NP	5700	150	NP	NP	--	59 U	62 U	65 U
Fluoranthene	206-44-0	ug/kg	2300000	NP	NP	7000000	2300000	NP	2300000	230000	--	77 U	81 U	85 U
Pyrene	129-00-0	ug/kg	1700000	NP	NP	5200000	1700000	NP	1700000	170000	--	100 U	110 U	110 U
SVOCs														
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	43000	NP	3800000	3700000	43000	38000	1200000	120000	--	180 U	190 U	210 U
TPH (TNRCC 1005)														
TPH (>C12-C28)	TPH-1005-2	mg/kg	2300	NP	NP	NP	2300	NP	NP	NP	--	20 U	25 U	24 U
TPH (>C28-C35)	TPH-1005-4	mg/kg	2300	NP	NP	NP	2300	NP	NP	NP	--	20 U	25 U	24 U
TPH (C6-C35)	TPH_C06_C35	mg/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	17 U	21 U	20 U

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VOCs														
1,2,4-Trimethylbenzene	95-63-6	ug/kg	150000	NP	NP	170000	150000	NP	58000	5800	--	0.55 U	0.72 U	0.64 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	110000	NP	NP	2300000	110000	NP	780000	78000	--	1.3 U	1.7 U	1.5 U
Acetone	67-64-1	ug/kg	66000000	NP	NP	180000000	66000000	NP	61000000	6100000	--	14 U	18 U	**19.4 J**
Carbon disulfide	75-15-0	ug/kg	2300000	NP	NP	2300000	4600000	NP	770000	77000	--	0.8 U	1 U	0.92 U
Ethylbenzene	100-41-4	ug/kg	580000	NP	580000	10000000	6400000	5800	3400000	340000	--	1.3 U	1.7 U	1.5 U
m,p-Xylene	108-38-3/106-42-3	ug/kg	NP	NP	NP	NP	NP	NP	NP	NP	--	2.5 U	3.2 U	2.8 U
Methyl ethyl ketone	78-93-3	ug/kg	40000000	NP	NP	81000000	40000000	NP	27000000	2700000	--	6.9 U	8.9 U	7.9 U
o-Xylene	95-47-6	ug/kg	1900000	NP	NP	1900000	48000000	NP	650000	65000	--	1.4 U	1.8 U	1.6 U
Toluene	108-88-3	ug/kg	5900000	NP	NP	15000000	5900000	NP	4900000	490000	--	1.4 U	1.8 U	1.6 U
Xylene (total)	1330-20-7	ug/kg	1800000	NP	NP	1800000	6000000	NP	580000	58000	--	3.8 U	5 U	4.4 U

Notes:
EPA RML - EPA Removal Management Levels
TCEQ TRRP PCLs - TCEQ Texas Risk Reduction Program Protective Concentration Levels
EPA RSL - EPA Regional Screening Levels
Site Specific Value is the lowest of the EPA RMLs and TCEQ TRRP PCL.
EPA RSLs are shown for informational purposes only.
NP indicates not published.
NA indicates not applicable.
Bold indicates a detected concentration
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram

Qualifier Definitions:
J - estimated value
U - results not detected above the associated value

Attachment I - Data Summary Tables
Water Analytical Data
CES Chemical Spill Response
Houston, Harris County TX

Analyte	CAS.NO	Units	Site Specific Value	TCEQ RBELs Freshwater Acute	TCEQ RBELs Freshwater Chronic	Aquatic Life Freshwater CMC (acute)	Aquatic Life Freshwater CCC (chronic)	Sample ID Date Type	CES-20140803 8/3/2014 Field Sample
Metals									
Aluminum	7429-90-5	mg/l	0.087	0.991	0.087	0.75	0.087	--	**0.985**
Antimony	7440-36-0	mg/l	0.16	NP	0.16	NP	NP	--	**0.0019 J**
Arsenic	7440-38-2	mg/l	0.15	0.34	0.15	0.34	0.15	--	**0.0056**
Barium	7440-39-3	mg/l	16	NP	16	NP	NP	--	**0.135 J**
Beryllium	7440-41-7	mg/l	0.0053	0.13	0.0053	NP	NP	--	**0.00033 J**
Cadmium	7440-43-9	mg/l	0.00015	0.00437	0.00015	0.002	0.00025	--	**0.00036 J**
Calcium	7440-70-2	mg/l	NP	NP	NP	NP	NP	--	**76.7**
Chromium	7440-47-3	mg/l	NP	NP	NP	NP	NP	--	**0.0122**
Cobalt	7440-48-4	mg/l	1.5	45	1.5	NP	NP	--	**0.0028 J**
Copper	7440-50-8	mg/l	0.00524	0.00739	0.00524	NP	NP	--	**0.0044 J**
Iron	7439-89-6	mg/l	1	NP	1	NP	1	--	**6.37**
Lead	7439-92-1	mg/l	0.00117	0.03014	0.00117	0.065	0.0025	--	**0.0056**
Magnesium	7439-95-4	mg/l	3.235	19.41	3.235	NP	NP	--	**8.15**
Manganese	7439-96-5	mg/l	0.12	NP	0.12	NP	NP	--	**0.878**
Nickel	7440-02-0	mg/l	0.02893	0.2605	0.02893	0.47	0.052	--	**0.056**
Potassium	7440-09-7	mg/l	NP	NP	NP	NP	NP	--	**7.67**
Selenium	7782-49-2	mg/l	0.005	0.02	0.005	NP	0.005	--	**0.0063**
Sodium	7440-23-5	mg/l	NP	NP	NP	NP	NP	--	**152**
Vanadium	7440-62-2	mg/l	NP	NP	NP	NP	NP	--	**0.0046 J**
Zinc	7440-66-6	mg/l	0.06513	0.06513	0.06566	0.12	0.12	--	**0.0477**
Pesticides									
alpha-Chlordane	5103-71-9	ug/l	NP	NP	NP	NP	NP	--	**0.014 J**
delta-BHC (delta-Hexachlorocyclohexane (HCH))	319-86-8	ug/l	141	249	NP	NP	NP	--	**0.018 J**
Endosulfan sulfate	1031-07-8	ug/l	0.056	0.22	0.056	NP	NP	--	**0.026 J**
SVOCs									
1-Methylnaphthalene	90-12-0	ug/l	2.1	NP	2.1	NP	NP	--	**1.5 J**
2,4-Dimethylphenol	105-67-9	ug/l	105	630	105	NP	NP	--	**5 J**
2-Methylnaphthalene	91-57-6	ug/l	63	380	63	NP	NP	--	**1.7 J**
2-Methylphenol	95-48-7	ug/l	560	3360	560	NP	NP	--	**12.3**
3&4-Methylphenol	108-39-4/106-44-5	ug/l	272	1630	272	NP	NP	--	**39.8**
Benzoic Acid	65-85-0	ug/l	9000	54000	9000	NP	NP	--	**44.3**
Benzyl Alcohol	100-51-6	ug/l	8.6	NP	8.6	NP	NP	--	**6.1**
Phenol	108-95-2	ug/l	110	NP	110	NP	NP	--	**70.4**
VOCs									
Acetone	67-64-1	ug/l	101200	607400	101200	NP	NP	--	**371**
Methyl ethyl ketone	78-93-3	ug/l	42400	254420	42400	NP	NP	--	**399**

Notes:
TCEQ RBELs - TCEQ Risk-Based Exposure Levels
EPA NRWQC - EPA National Recommended Water Quality Criteria
Site Specific Value is the lowest of the TCEQ RBELs and EPA NRWQC.
NP indicates not published.
Bold indicates a detected concentration
Highlighted values indicate a detection above the screening level
mg/L - milligrams per liter
ug/L - micrograms per liter

Qualifier Definitions:
J - estimated value

Attachment I - Data Summary Tables
Residential Air Analytical Data
CES Chemical Spill Response
Houston, Harris County, TX

Analyte	CAS.NO	Units	Site Specific Value	EPA RSL Residential Air (HI = 1)	EPA RSL Residential Air (HI = 0.1)	TCEQ Short-term ESL	TCEQ Long-term ESL	TCEQ AMCV Short Term Health	TCEQ AMCV Long Term Health	Sample ID Date Type	CES-CS-SUMMA-01 8/6/2014 Field Sample	CES-CS-SUMMA-02 8/6/2014 Field Sample
VOCs												
Acetone	67-64-1	ug/m3	3200	32000	3200	7800	4800	NP	NP	--	**9.7**	**13**
Ethanol (Ethyl Alcohol)	64-17-5	ug/m3	1880	NP	NP	1910	1880	NP	NP	--	**3.3**	**3.4**
Freon 11	75-69-4	ug/m3	73	730	73	28000	5600	NP	NP	--	**1.3**	**1.5**
Freon 12	75-71-8	ug/m3	10	100	10	50000	5000	NP	NP	--	**2.6**	**2.7**
Toluene	108-88-3	ug/m3	520	5200	520	3500	1200	NP	NP	--	0.7 U	**1**
VOCs - TICs			NP	NP	NP	NP	NP	NP	NP			
1,3-Butadiene, 2-methyl-	78-79-5	PPBV	2	NP	NP	NP	NP	20	2	--	NA	**2.2 NJ**
1,4-Pentadiene	591-93-5	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**2.7 NJ**	NA
Acetaldehyde	75-07-0	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**1.2 NJ**	**1.4 NJ**
Butane, 2-methyl-	78-78-4	PPBV	8000	NP	NP	NP	NP	68000	8000	--	NA	**1 NJ**

Notes:
EPA RSL - EPA Regional Screening Levels
TCEQ ESL - TCEQ Effects Screening Levels
TCEQ AMCV - TCEQ Air Monitoring Comparison Values
Site Specific Value is the lowest of the EPA RSLs, TCEQ ESLs and TCEQ AMCVs.
NP indicates not published.
NA indicates not applicable.
Bold indicates a detected concentration
Highlighted values indicate a detection above the screening level
ug/m3 - micrograms per cubic meters
PPBv - parts per billion by volume

Qualifier Definitions:
N - results based on presumptive evidence
J - estimated value
U - results not detected above the associated value

Attachment I - Data Summary Tables
Industrial Air Analytical Data
CES Chemical Spill Response
Houston, Harris County, TX

Analyte	CAS.NO	Units	Site Specific Value	EPA RSL Industrial Air (HI = 1)	EPA RSL Industrial Air (HI = 0.1)	TCEQ Short-term ESL	TCEQ Long-term ESL	TCEQ AMCV Short-Term Health	TCEQ AMCV Long-Term Health	Sample ID Date Type	CES-CS-SUMMA-03 8/6/2014 Field Sample	CES-CS-SUMMA-04 8/6/2014 Field Sample
VOCs												
1,2,4-Trimethylbenzene	95-63-6	ug/m3	3.1	31	3.1	700	125	NP	NP	--	**2**	**2.6**
1,4-Dioxane	123-91-1	ug/m3	2.5	2.5	2.5	900	90	NP	NP	--	0.63 U	**1.4**
2-Butanone (Methyl Ethyl Ketone)	78-93-3	ug/m3	1300	22000	2200	1300	2600	NP	NP	--	2.6 U	**2.8**
4-Ethyltoluene (p-ethyltoluene)	622-96-8	ug/m3	41	NP	NP	41	125	NP	NP	--	**1.2**	**1.5**
Acetone	67-64-1	ug/m3	4800	140000	14000	7800	4800	NP	NP	--	**14**	**24**
Benzene	71-43-2	ug/m3	1.6	1.6	1.6	170	4.5	NP	NP	--	0.56 U	**0.78**
Chloromethane	74-87-3	ug/m3	39	390	39	1030	103	NP	NP	--	1.8 U	**3.5**
Ethanol (Ethyl Alcohol)	64-17-5	ug/m3	1880	NP	NP	1910	1880	NP	NP	--	**7.4**	**4.1**
Ethylbenzene	100-41-4	ug/m3	4.9	4.9	4.9	740	570	NP	NP	--	**1.1**	**1.7**
Freon 11	75-69-4	ug/m3	310	3100	310	28000	5600	NP	NP	--	**1.4**	**1.4**
Freon 12	75-71-8	ug/m3	44	440	44	50000	5000	NP	NP	--	**2.7**	**2.4**
Heptane	142-82-5	ug/m3	350	NP	NP	2750	350	NP	NP	--	0.72 U	**0.76**
m,p-Xylene	108-38-3/106-42-3	ug/m3	NP	NP	NP	NP	NP	NP	NP	--	**4.2**	**6.7**
o-Xylene	95-47-6	ug/m3	44	440	44	1600	180	NP	NP	--	**1.4**	**2**
Toluene	108-88-3	ug/m3	1200	22000	2200	3500	1200	NP	NP	--	**7.2**	**3.8**
TPH ref. to Gasoline (MW=100)	TPH_Gas	ug/m3	NP	NP	NP	NP	NP	NP	NP	--	**98**	**410**
VOCs - TICs												
1H-Pyrazole, 4,5-dihydro-4,5-dimethyl-	28019-94-5	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**3.1 NJ**
1-Octanol, 5,7,7-trimethyl-2-(1,3,3-trim	36400-98-3	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**3.6 NJ**
1-Silacyclo-3-pentene	7049-25-4	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**2.2 NJ**
2,3-Butanedione	431-03-8	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**1.9 NJ**
2,4-Dimethyl-1,5-diazabicyclo[3.1.0]hexa	1000283-20-9	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**1.6 NJ**
2-Propyl-1-pentanol	58175-57-8	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**2.7 NJ**
3-Cyclohexene-1-carboxylic acid, methyl	6493-77-2	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**7 NJ**
Acetaldehyde	75-07-0	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**1.5 NJ**	**2.6 NJ**
Benzene, 1,2,4,5-tetramethyl-	95-93-2	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**1.6 NJ**	NA
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**2.2 NJ**
Decahydro-4,4,8,9,10-pentamethylnaphthal	80655-44-3	PPBV	NP	NP	NP	NP	NP	NP	NP	--	NA	**6.6 NJ**
Diethyl disulfide	110-81-6	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**1.3 NJ**	NA
Di-tert-butyl disulfide	110-06-5	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**1.5 NJ**	NA
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**2.1 NJ**	NA
Methyl ethyl disulfide	20333-39-5	PPBV	NP	NP	NP	NP	NP	NP	NP	--	**0.88 NJ**	NA

Notes:
EPA RSL - EPA Regional Screening Levels
TCEQ ESL - TCEQ Effects Screening Levels
TCEQ AMCV - TCEQ Air Monitoring Comparison Values
Site Specific Value is the lowest of the EPA RSLs, TCEQ ESLs and TCEQ AMCVs.
NP indicates not published.
NA indicates not applicable.
Bold indicates a detected concentration
Highlighted values indicate a detection above the screening level
ug/m3 - micrograms per cubic meters
PPBv - parts per billion by volume

Qualifier Definitions:
N - results based on presumptive evidence
J - estimated value
U - results not detected above the associated value

Attachment I - Data Summary Tables
Waste Analytical Data
CES Chemical Spill Response
Houston, Harris County, Texas

Analyte	CAS.NO	Units	Sample ID Date Type	CES-CS-TANK 407 8/7/2014 Field Sample	CES-CS-TANK 408 8/7/2014 Field Sample
Dioxin/Furans					
1,2,3,4,6,7,8-Hepta CDD	35822-46-9	pg/L	--	**2010 J**	**616**
1,2,3,4,6,7,8-Hepta CDF	67562-39-4	pg/L	--	830 U	120 U
1,2,3,4,7,8,9-Hepta CDF	55673-89-7	pg/L	--	150 U	11 U
1,2,3,4,7,8-Hexa CDD	39227-28-6	pg/L	--	160 U	11 U
1,2,3,4,7,8-Hexa CDF	70648-26-9	pg/L	--	200 U	19 U
1,2,3,6,7,8-Hexa CDD	57653-85-7	pg/L	--	150 U	**82 J**
1,2,3,6,7,8-Hexa CDF	57117-44-9	pg/L	--	200 U	19 U
1,2,3,7,8,9-Hexa CDD	19408-74-3	pg/L	--	150 U	27 U
1,2,3,7,8,9-Hexa CDF	72918-21-9	pg/L	--	230 U	22 U
1,2,3,7,8-Penta CDD	40321-76-4	pg/L	--	100 U	15 U
1,2,3,7,8-Penta CDF	57117-41-6	pg/L	--	100 U	15 U
2,3,4,6,7,8-Hexa CDF	60851-34-5	pg/L	--	**673 J**	**316 J**
2,3,4,7,8-Penta CDF	57117-31-4	pg/L	--	100 U	14 U
2,3,7,8-Tetra CDD	1746-01-6	pg/L	--	130 U	47 U
2,3,7,8-Tetra CDF	51207-31-9	pg/L	--	930 U	**62 J**
Octa CDD	3268-87-9	pg/L	--	**16600**	**3930**
Octa CDF	39001-02-0	pg/L	--	**2920 J**	**1650**
Total Hepta CDD	37871-00-4	pg/L	--	**4600 J**	**1040**
Total Hepta CDF	38998-75-3	pg/L	--	920 U	140 U
Total Hexa CDD	34465-46-8	pg/L	--	550 U	**447 J**
Total Hexa CDF	55684-94-1	pg/L	--	**985 J**	**558**
Total Penta CDD	36088-22-9	pg/L	--	560 U	**254 J**
Total Penta CDF	30402-15-4	pg/L	--	**4540 J**	**6160**
Total Tetra CDD	41903-57-5	pg/L	--	**1190 J**	**86 J**
Total Tetra CDF	55722-27-5	pg/L	--	**8200**	**2820**
General Chemistry					
Bromide	24959-67-9	mg/l	--	**6.8**	**5.1**
Chloride	16887-00-6	mg/l	--	**365**	**289**
Fluoride	16984-48-8	mg/l	--	**0.54**	0.25 U
Hydrogen Sulfide	7783-06-4	mg/l	--	2 UJ	2 UJ
Nitrogen, Ammonia	7664-41-7	mg/l	--	**42.8**	**43.6**
Nitrogen, Nitrate	14797-55-8	mg/l	--	**0.76**	**1.2**
Nitrogen, Nitrite	14797-65-0	mg/l	--	0.26 U	0.26 U
Phosphorus, Total	7723-14-0	mg/l	--	**6.7**	**14.8**
Sulfate	14808-79-8	mg/l	--	**6920**	**5650**
Total Organic Carbon	TOC	mg/l	--	**8890**	**10400**
Total Organic Halides	TOH	mg/l	--	**6.5**	**26.8**
Herbicides					
2,4,5-T	93-76-5	ug/l	--	0.17 U	0.17 U
2,4,5-TP (Silvex)	93-72-1	ug/l	--	0.2 U	0.2 U
2,4-D	94-75-7	ug/l	--	**15.4**	**4.6 J**
Metals					
Aluminum	7429-90-5	mg/l	--	**20.1**	**300**
Antimony	7440-36-0	mg/l	--	**0.323**	**0.765**
Arsenic	7440-38-2	mg/l	--	**0.0721**	**0.547**
Barium	7440-39-3	mg/l	--	**2.6**	**136**
Beryllium	7440-41-7	mg/l	--	**0.0026 J**	**0.0345 J**
Cadmium	7440-43-9	mg/l	--	**0.0101 J**	**0.0507 J**
Calcium	7440-70-2	mg/l	--	**603**	**601**
Chromium	7440-47-3	mg/l	--	**1.18**	**33.6**
Cobalt	7440-48-4	mg/l	--	**0.115 J**	**0.184 J**
Copper	7440-50-8	mg/l	--	**1.59**	**35.2**

Attachment I - Data Summary Tables
Waste Analytical Data
CES Chemical Spill Response
Houston, Harris County, Texas

Analyte	CAS.NO	Units	Sample ID Date Type	CES-CS-TANK 407 8/7/2014 Field Sample	CES-CS-TANK 408 8/7/2014 Field Sample
Metals (continued)					
Lead	7439-92-1	mg/l	--	**0.208**	**9.33**
Magnesium	7439-95-4	mg/l	--	**82.4**	**52.4 J**
Manganese	7439-96-5	mg/l	--	**12.8**	**8.89**
Mercury	7439-97-6	mg/l	--	**0.00065**	**0.0022**
Nickel	7440-02-0	mg/l	--	**1.42**	**3.53**
Potassium	7440-09-7	mg/l	--	**136**	**53.8 J**
Selenium	7782-49-2	mg/l	--	**0.0614**	**0.256 J**
Silver	7440-22-4	mg/l	--	0.0024 U	0.04 U
Sodium	7440-23-5	mg/l	--	**844**	**196 J**
Thallium	7440-28-0	mg/l	--	0.0078 U	0.13 U
Vanadium	7440-62-2	mg/l	--	**0.249 J**	**1.78 J**
Zinc	7440-66-6	mg/l	--	**42.8**	**78**
PCBs					
Aroclor 1016	12674-11-2	ug/l	--	0.21 U	0.21 U
Aroclor 1221	11104-28-2	ug/l	--	0.2 U	0.2 U
Aroclor 1232	11141-16-5	ug/l	--	0.17 U	0.17 U
Aroclor 1242	53469-21-9	ug/l	--	0.12 U	0.12 U
Aroclor 1248	12672-29-6	ug/l	--	0.1 U	0.1 U
Aroclor 1254	11097-69-1	ug/l	--	0.1 U	0.1 U
Aroclor 1260	11096-82-5	ug/l	--	0.12 U	0.12 U
Total Aroclor (PCBs)	1336-36-3	ug/l	--	0 U	0 U
Pesticides					
4,4'-DDD	72-54-8	ug/l	--	0.099 U	0.33 U
4,4'-DDE	72-55-9	ug/l	--	0.075 U	0.25 U
4,4'-DDT	50-29-3	ug/l	--	0.11 U	0.38 U
Aldrin	309-00-2	ug/l	--	0.03 U	0.1 U
alpha-BHC	319-84-6	ug/l	--	0.065 U	0.22 U
alpha-Chlordane	5103-71-9	ug/l	--	**0.12 J**	0.11 U
beta-BHC	319-85-7	ug/l	--	0.035 U	0.12 U
delta-BHC (delta-Hexachlorocyclohexane (HCH))	319-86-8	ug/l	--	0.03 U	0.1 U
Dieldrin	60-57-1	ug/l	--	0.061 U	0.2 U
Endosulfan sulfate	1031-07-8	ug/l	--	0.063 U	0.21 U
Endosulfan-I	959-98-8	ug/l	--	0.055 U	0.18 U
Endosulfan-II	33213-65-9	ug/l	--	0.063 U	0.21 U
Endrin	72-20-8	ug/l	--	0.061 U	0.2 U
Endrin aldehyde	7421-93-4	ug/l	--	0.11 U	0.36 U
Endrin ketone	53494-70-5	ug/l	--	0.092 U	0.31 U
gamma-BHC (Lindane)	58-89-9	ug/l	--	**0.064 J**	0.17 U
gamma-Chlordane	5103-74-2	ug/l	--	0.032 U	0.11 U
Heptachlor	76-44-8	ug/l	--	0.03 U	0.1 U
Heptachlor epoxide	1024-57-3	ug/l	--	0.034 U	0.11 U
Methoxychlor	72-43-5	ug/l	--	0.38 U	1.3 U
Toxaphene	8001-35-2	ug/l	--	0.37 U	1.2 U
Physical Properties					
Heat Content, BTU	HeatContent	BTU/lb	--	**3800**	**4480**
Moisture, Karl Fischer	Moisture	wt%	--	**94.4**	**94.7**
Solids, Total Suspended	TSS	mg/l	--	**5840**	**593**
Specific Conductivity	SpecCond	umhos/cm	--	**3940**	**4040**
Specific Gravity	SpecGrav		--	**0.99**	**0.98**
Viscosity At 40 Deg. C	Viscosity	cS	--	**0.6**	**0.77**

Attachment I - Data Summary Tables
Waste Analytical Data
CES Chemical Spill Response
Houston, Harris County, Texas

Analyte	CAS.NO	Units	Sample ID Date Type	CES-CS-TANK 407 8/7/2014 Field Sample	CES-CS-TANK 408 8/7/2014 Field Sample
RCI					
Corrosivity as pH	Corrosivity	su	--	**4.5**	**4.7**
Cyanide	57-12-5	mg/l	--	0.25 U	0.25 U
Ignitability (Flashpoint)	Ignitability	Deg. F	--	**< 210**	**< 210**
pH	pH	su	--	**4.52**	**4.67**
Sulfide	18496-25-8	mg/l	--	0.025 U	0.025 U
SVOC-PAH					
Acenaphthene	83-32-9	ug/l	--	17 U	24 U
Acenaphthylene	208-96-8	ug/l	--	17 U	24 U
Anthracene	120-12-7	ug/l	--	20 U	28 U
Benzo(a)anthracene	56-55-3	ug/l	--	21 U	30 U
Benzo(a)pyrene	50-32-8	ug/l	--	19 U	27 U
Benzo(b)fluoranthene	205-99-2	ug/l	--	17 U	24 U
Benzo(g,h,i)perylene	191-24-2	ug/l	--	21 U	30 U
Benzo(k)fluoranthene	207-08-9	ug/l	--	21 U	31 U
Chrysene	218-01-9	ug/l	--	22 U	32 U
Dibenzo(a,h)anthracene	53-70-3	ug/l	--	19 U	27 U
Fluoranthene	206-44-0	ug/l	--	20 U	28 U
Fluorene	86-73-7	ug/l	--	17 U	**41.4 J**
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	--	15 U	21 U
Phenanthrene	85-01-8	ug/l	--	**24.7 J**	**109**
Pyrene	129-00-0	ug/l	--	20 U	**34.5 J**
SVOCs					
1,2,4-Trichlorobenzene	120-82-1	ug/l	--	15 U	21 U
1,2-Dichlorobenzene	95-50-1	ug/l	--	15 U	22 U
1,2-Diphenylhydrazine	122-66-7	ug/l	--	19 U	27 U
1,3-Dichlorobenzene	541-73-1	ug/l	--	16 U	22 U
1,4-Dichlorobenzene	106-46-7	ug/l	--	15 U	22 U
1-Methylnaphthalene	90-12-0	ug/l	--	**52.3 J**	**143**
2,4,5-Trichlorophenol	95-95-4	ug/l	--	14 U	20 U
2,4,6-Trichlorophenol	88-06-2	ug/l	--	16 U	23 U
2,4-Dichlorophenol	120-83-2	ug/l	--	16 U	22 U
2,4-Dimethylphenol	105-67-9	ug/l	--	15 U	**175**
2,4-Dinitrophenol	51-28-5	ug/l	--	140 U	200 U
2,4-Dinitrotoluene	121-14-2	ug/l	--	18 U	25 U
2,6-Dinitrotoluene	606-20-2	ug/l	--	14 U	21 U
2-Chloronaphthalene	91-58-7	ug/l	--	18 U	26 U
2-Chlorophenol	95-57-8	ug/l	--	14 U	19 U
2-Methylnaphthalene	91-57-6	ug/l	--	**75.8**	**209**
2-Methylphenol	95-48-7	ug/l	--	**39 J**	**326**
2-Nitroaniline	88-74-4	ug/l	--	19 U	26 U
2-Nitrophenol	88-75-5	ug/l	--	16 U	23 U
3&4-Methylphenol	108-39-4/106-44-5	ug/l	--	**117**	**1890**
3,3'-Dichlorobenzidine	91-94-1	ug/l	--	18 U	26 U
3-Nitroaniline	99-09-2	ug/l	--	18 U	25 U
4,6-Dinitro-o-cresol	534-52-1	ug/l	--	78 U	110 U
4-Bromophenyl phenyl ether	101-55-3	ug/l	--	17 U	24 U
4-Chloro-3-methyl phenol	59-50-7	ug/l	--	**302**	**1080**
4-Chloroaniline	106-47-8	ug/l	--	15 U	22 U
4-Chlorophenyl phenyl ether	7005-72-3	ug/l	--	18 U	26 U
4-Nitroaniline	100-01-6	ug/l	--	19 U	27 U
4-Nitrophenol	100-02-7	ug/l	--	100 U	140 U
Aniline	62-53-3	ug/l	--	18 U	26 U

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Analyte	CAS.NO	Units	Sample ID Date Type	CES-CS-TANK 407 8/7/2014 Field Sample	CES-CS-TANK 408 8/7/2014 Field Sample
SVOCs (continued)					
Benzidine	92-87-5	ug/l	--	140 U	200 U
Benzoic Acid	65-85-0	ug/l	--	**9850**	**11100**
Benzyl Alcohol	100-51-6	ug/l	--	**100**	**163**
bis(2-Chloroethoxy)methane	111-91-1	ug/l	--	16 U	23 U
bis(2-Chloroethyl)ether	111-44-4	ug/l	--	13 U	19 U
bis(2-Chloroisopropyl)ether	108-60-1	ug/l	--	13 U	18 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/l	--	21 U	30 U
Butyl benzyl phthalate	85-68-7	ug/l	--	18 U	25 U
Carbazole	86-74-8	ug/l	--	20 U	28 U
Dibenzofuran	132-64-9	ug/l	--	18 U	25 U
Diethyl phthalate	84-66-2	ug/l	--	20 U	28 U
Dimethyl phthalate	131-11-3	ug/l	--	20 U	28 U
Di-n-butyl phthalate	84-74-2	ug/l	--	19 U	27 U
Di-n-octyl phthalate	117-84-0	ug/l	--	17 U	24 U
Hexachlorobenzene	118-74-1	ug/l	--	22 U	31 U
Hexachlorobutadiene	87-68-3	ug/l	--	17 U	24 U
Hexachlorocyclopentadiene	77-47-4	ug/l	--	17 U	25 U
Hexachloroethane	67-72-1	ug/l	--	18 U	25 U
Isophorone	78-59-1	ug/l	--	17 U	24 U
Naphthalene	91-20-3	ug/l	--	**44.1 J**	**132**
Nitrobenzene	98-95-3	ug/l	--	16 U	23 U
n-Nitrosodimethylamine	62-75-9	ug/l	--	15 U	21 U
N-Nitroso-di-n-propylamine	621-64-7	ug/l	--	15 U	22 U
N-Nitrosodiphenylamine	86-30-6	ug/l	--	20 U	29 U
Pentachlorophenol	87-86-5	ug/l	--	140 U	200 U
Phenol	108-95-2	ug/l	--	**643**	**2860**
Pyridine	110-86-1	ug/l	--	18 U	25 U
TPH (TNRCC 1005)					
TPH (>C12-C28)	TPH-1005-2	mg/l	--	**9720**	**15600**
TPH (>C28-C35)	TPH-1005-4	mg/l	--	**3620**	**4780**
TPH (C6-C12)	TPH-1005-1	mg/l	--	**748**	**313**
TPH (C6-C35)	TPH_C06_C35	mg/l	--	**14100**	**20700**
VOCs					
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	--	18 U	18 U
1,1,1-Trichloroethane	71-55-6	ug/l	--	21 U	21 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	--	20 U	20 U
1,1,2-Trichloroethane	79-00-5	ug/l	--	17 U	17 U
1,1-Dichloroethane	75-34-3	ug/l	--	17 U	17 U
1,1-Dichloroethylene	75-35-4	ug/l	--	23 U	23 U
1,1-Dichloropropene	563-58-6	ug/l	--	31 U	31 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	--	21 U	21 U
1,2,3-Trichloropropane	96-18-4	ug/l	--	23 U	23 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	--	20 U	20 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	--	**961**	**32.4 J**
1,2-Dibromo-3-chloropropane	96-12-8	ug/l	--	79 U	79 U
1,2-Dibromoethane	106-93-4	ug/l	--	17 U	17 U
1,2-Dichloroethane	107-06-2	ug/l	--	18 U	18 U
1,2-Dichloropropane	78-87-5	ug/l	--	17 U	17 U
1,3,5-Trimethylbenzene	108-67-8	ug/l	--	**265**	17 U
1,3-Dichloropropane	142-28-9	ug/l	--	16 U	16 U
2,2-Dichloropropane	594-20-7	ug/l	--	25 U	25 U
2-Hexanone	591-78-6	ug/l	--	130 U	130 U

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VOCs (continued)					
4-Methyl-2-pentanone	108-10-1	ug/l	--	110 U	110 U
Acetone	67-64-1	ug/l	--	**17100**	**30900**
Benzene	71-43-2	ug/l	--	**31.9 J**	17 U
Bromobenzene	108-86-1	ug/l	--	15 U	15 U
Bromochloromethane	74-97-5	ug/l	--	21 U	21 U
Bromodichloromethane	75-27-4	ug/l	--	17 U	17 U
Bromoform	75-25-2	ug/l	--	22 U	22 U
Carbon disulfide	75-15-0	ug/l	--	18 U	18 U
Carbon tetrachloride	56-23-5	ug/l	--	22 U	22 U
Chlorobenzene	108-90-7	ug/l	--	13 U	13 U
Chloroethane	75-00-3	ug/l	--	36 U	36 U
Chloroform	67-66-3	ug/l	--	17 U	17 U
cis-1,2-Dichloroethylene	156-59-2	ug/l	--	20 U	20 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	--	14 U	14 U
Dibromochloromethane	124-48-1	ug/l	--	18 U	18 U
Dichlorodifluoromethane	75-71-8	ug/l	--	74 U	74 U
Ethylbenzene	100-41-4	ug/l	--	**154**	**127**
Hexachlorobutadiene	87-68-3	ug/l	--	24 U	24 U
Isopropylbenzene	98-82-8	ug/l	--	**83.1**	20 U
m,p-Xylene	108-38-3/106-42-3	ug/l	--	**579**	**461**
m-Dichlorobenzene	541-73-1	ug/l	--	17 U	17 U
Methyl bromide	74-83-9	ug/l	--	25 U	25 U
Methyl chloride	74-87-3	ug/l	--	32 U	32 U
Methyl ethyl ketone	78-93-3	ug/l	--	**8130**	**2480**
Methyl Tert Butyl Ether	1634-04-4	ug/l	--	15 U	15 U
Methylene bromide	74-95-3	ug/l	--	22 U	22 U
Methylene chloride	75-09-2	ug/l	--	81 U	81 U
Naphthalene	91-20-3	ug/l	--	**878**	**118 J**
n-Butylbenzene	104-51-8	ug/l	--	20 U	20 U
n-Propylbenzene	103-65-1	ug/l	--	**124**	18 U
o-Chlorotoluene	95-49-8	ug/l	--	18 U	18 U
o-Dichlorobenzene	95-50-1	ug/l	--	14 U	14 U
o-Xylene	95-47-6	ug/l	--	**283**	**228**
p-Chlorotoluene	106-43-4	ug/l	--	16 U	16 U
p-Dichlorobenzene	106-46-7	ug/l	--	16 U	16 U
p-Isopropyltoluene	99-87-6	ug/l	--	**48.8 J**	18 U
sec-Butylbenzene	135-98-8	ug/l	--	**60.7**	23 U
Styrene	100-42-5	ug/l	--	**129**	15 U
tert-Butylbenzene	98-06-6	ug/l	--	22 U	22 U
Tetrachloroethylene	127-18-4	ug/l	--	23 U	23 U
Toluene	108-88-3	ug/l	--	**375**	**1970**
trans-1,2-Dichloroethylene	156-60-5	ug/l	--	24 U	24 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	--	16 U	16 U
Trichloroethylene	79-01-6	ug/l	--	24 U	24 U
Trichlorofluoromethane	75-69-4	ug/l	--	38 U	38 U
Vinyl chloride	75-01-4	ug/l	--	40 U	40 U
Xylene (total)	1330-20-7	ug/l	--	**862**	**688**

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Notes:
Bold indicates a detected concentration
Highlighted values indicate a detection above the screening level
mg/L - milligrams per liter
pg/L - picogram per liter
su - standard unit
cS - centistoke
umhos/cm - micromhos per centimeter
BTU/lb - British thermal unit/pound
Qualifier Definitions:
N - results based on presumptive evidence
J - estimated value
U - results not detected above the associated value