USS Clairton Works
Total Annual Benzene (TAB) - 1998
MTCE - VESSELS DRAINS LISTING

Waste Stream ID#	Mtce - Vessel Drains Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
	#1 CONTROL ROOM								
1CR83	T301 Phosam	N	Y	E	100	8.16 - 14	9.9	3.7E-06	Y
1CR84	T302 Phosam	N	Y	E	100	8.16 - 14	9.9	3.7E-06	Y
1CR85	T303 Phosam	N	Y	E	100	8.16 - 14	9.9	3.7E-06	Y
1CR86	T306 Phosam NH3 Stripper	N	Y	E	100	0.23 - 5.0	1.8	6.8E-07	Y
1CR87	T307 Phosam NH3 Stripper	N	Y	E	100	0.23 - 5.0	1.8	6.8E-07	Y
1CR88	T350 Phosam NH3 Fract.	N	Y	E	100	0 - 0.53	0.2	7.5E-08	Y
1CR89	T353 Phosam NH3 Fract.	N	Y	E	100	0 - 0.53	0.2	7.5E-08	Y
1CR90	T207 Superstill	N	Y	A	0	0.03 - 0.081	0.06	0	Y
1CR91	V208B SS Light Oil Decanter	N	Y	B	0	89 - 2000	983	0	Y
1CR92	T201 FC	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR93	T202 FC	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR94	T203 FC	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR95	T206 FC	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR96	F198A Oil Rec Prefilter	N	Y	B	600	0.13 - 140	28.3	6.4E-05	Y
1CR97	F198B Oil Rec. Coalescer	N	Y	B	600	0.13 - 141	28.3	6.4E-05	Y
1CR144	C100 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR145	C105 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR146	C110 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR147	C115 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR148	C120 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR149	C125 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR150	C130 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR151	C135 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR152	C140 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR153	C145 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR154	C150 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR155	C155 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR156	C160 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR157	C165 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR158	C170 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR159	C175 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR160	C180 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR161	C185 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
1CR162	C190 AXI Inj Water Drain	N	Y	A	100	93 - 221	144.1	5.4E-05	Y
	#2 CONTROL ROOM								
2CR4	D400A Warm Raw Gas Separator	N	Y	A	8000	235 - 343	284	8.5E-03	Y
2CR5	D400B Warm Raw Gas Separator	N	Y	A	8000	235 - 343	284	8.5E-03	Y

*Y - Subpart L Controlled
N** - Stream mixed with Process Wastewater >10%

ED_002508A_00001333-00001

USS Clairton Works
Total Annual Benzene (TAB) - 1998
MTCE - VESSELS DRAINS LISTING

Waste Stream ID#	Mtce - Vessel Drains Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
2CR6	D400C Warm Raw Gas Separator	N	Y	A	8000	235 - 343	284	8.5E-03	Y
2CR7	R401A Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR8	R401B Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR9	R401C Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR10	R401D Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR11	R402A Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR12	R402B Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR13	R402C Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR14	R402D Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR15	R403A Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR16	R403B Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR17	R403C Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR18	R403D Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR19	R404A Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR20	R404B Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR21	R404C Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR22	R404D Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR23	R405A Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR24	R405B Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR25	R405C Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR26	R405D Main Regenerator	N	Y	D	20000	39 - 59.8	43.3	0.003	Y
2CR27	R406A Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR28	R406B Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR29	R406C Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR30	R406D Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR31	R407A Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR32	R407B Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR33	R407C Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR34	R407D Main Regenerator	N	Y	D	30000	39 - 59.8	43.3	0.005	Y
2CR35	D425 Blowdown Tank	N	Y	A	5000	39 - 59.8	43.3	0.001	Y
2CR36	D573 SUB Gas Injection H2O Separator	N	Y	A	8500	235 - 343	284	0	Y
2CR37	D575 SUB Gas Injection H2O Separator	N	Y	A	8500	235 - 343	284	0	Y
2CR38	D576 SUB Gas Injection H2O Separator	N	Y	A	8500	235 - 343	284	0	Y
2CR39	R582 L.O. Regenerator	N	Y	D	15000	89 - 2000	983	0	Y
2CR40	R584 L.O. Regenerator	N	Y	D	15000	89 - 2000	983	0	Y
2CR41	R586 L.O. Regenerator	N	Y	D	15000	89 - 2000	983	0	Y
2CR42	R590 L.O. Regenerator	N	Y	A	15000	89 - 2000	983	0	Y
2CR43	D600 SUB SUB Gas Injection H2O Separator	N	Y	A	50	235 - 343	284	0	Y

*Y - Subpart L Controlled
N** - Stream mixed with Process Wastewater >10%

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USS Clairton Works
Total Annual Benzene (TAB) - 1998
MTCE - VESSELS DRAINS LISTING

Waste Stream ID#	Mtce - Vessel Drains Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
2CR44	D602 SUB SUB Gas Injection H2O Separator	N	Y	A	50	235 - 343	284	0	Y
2CR45	D624 SUB SUB Gas Glycol Cooler Separator	N	Y	A	50	235 - 343	284	0	Y
2CR46	V604 Light Oil Decanter Tank	N	Y	A	1050	89 - 2000	983	0	Y
2CR47	V605 Light Oil Decanter Tank	N	Y	A	1050	89 - 2000	983	0	Y
2CR48	D622 Cont H2O Collecting Vessel	N	Y	A	250	235 - 343	284	0	Y
2CR49	D624 SUB SUB Gas Separator	N	Y	A	50	235 - 343	284	0	Y
2CR50	FCoal Oil Cleanup Coalescer	N	Y	A	280	0.001 - 0.065	0.025	2.6E-08	Y
2CR51	Oil Cleanup Prefilter	N	Y	A	280	0.001 - 0.066	0.025	2.6E-08	Y
	#2 CONTROL ROOM - COMPRESSORS								
2CR57	C500 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR58	C503 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR59	C506 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR60	C509 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR61	C512 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR62	C515 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR63	C518 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR64	C521 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR65	C524 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR66	C527 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR67	C530 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR68	C533 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR69	C536 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR70	C539 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR71	C542 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR72	C545 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
2CR73	C548 Vacuum Machine Drain Injection Water	N	Y	A	40	235 - 343	284	0	Y
	LIGHT OIL FACILITY								
LOS1	T59 L.O. Storage Tank	*Y	N	B	0	714 - 1211	962.5	0	N
LOS2	T60 L.O. Storage Tank	*Y	N	B	0	714 - 1211	962.5	0	N
LOS3	T61 L.O. Storage Tank	*Y	N	B	0	714 - 1211	962.5	0	N
LOS4	T62 L.O. Storage Tank	*Y	N	B	0	714 - 1211	962.5	0	N
LOS5	T63 L.O. Storage Tank	*Y	N	B	0	714 - 1211	962.5	0	N
LOS6	T64 L.O. Storage Tank	*Y	N	B	0	714 - 1211	962.5	0	N
LOS14	North Gas Blanketing Compressor	N	N	A	20	714 - 1211	962.5	0	Y
LOS15	South Gas Blanketing Compressor	N	N	A	20	714 - 1211	962.5	0	Y
	#5 CONTROL ROOM								
5CR1	V101E Carbonate Absorber	N	Y	E	0	9.32 - 11.13	10.2	0	Y
5CR2	V102E Carb. Str./Cond.	N	Y	E	75	0.003 - 0.003	0.003	8.4E-10	Y

*Y - Subpart L Controlled
N** - Stream mixed with Process Wastewater >10%

ED_002508A_00001333-00003

USS Clairton Works
Total Annual Benzene (TAB) - 1998
MTCE - VESSELS DRAINS LISTING

Waste Stream ID#	Mtce - Vessel Drains Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
5CR3	V102F Dir. Acid Aftercooler	N	Y	A	20	7.4 - 9.8	8.3	0	Y
5CR4	TV657 KO Pot	N	Y	A	0	7.4 - 9.8	8.3	0	Y
5CR7	VT650 Carb. Absorber	N	Y	E	0	9.32 - 11.13	10.2	0	Y
5CR8	VT651 Cond. Str.&Dir. Cond.	N	Y	A	75	7.4 - 9.8	8.3	0	Y
5CR9	VS100 Acid Gas Seperator	N	Y	A	0	7.4 - 9.8	8.3	0	Y
5CR10	DEHYDCT Dehy. Cond. Tank	N	Y	A	10	82	82	3.1E-06	Y
5CR11	T401F Acid Gas K/O Drum	N	Y	A	0	7.4 - 9.8	8.3	0	Y
5CR75	T301F Stripper Accumulator	N	Y	E	0	0.028 - 0.16	0.1	0	Y
5CR76	T304F Acid Gas K/O Drum	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR78	V301E Quench Column	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR79	V302E MDEA Absorber	N	Y	E	0	0.065 - 0.069	0.068	0	Y
5CR80	V303E MDEA Stripper	N	Y	E	0	<0.005	<0.005	0	Y
5CR167	P101-JC Coalescing Oil Filter	N	N**	A	5	0.001 - 0.065	0.025	4.7E-10	Y
5CR168	P101-JCTCoalescing Oil Filter	N	N**	A	5	0.001 - 0.065	0.025	4.7E-10	Y
5CR169	P658 TC Coalescing Oil Filter	N	N**	A	2.5	0.001 - 0.065	0.025	2.3E-10	Y
5CR170	P658 C Coalescing Oil Filter	N	N**	A	7.5	0.001 - 0.065	0.025	7.0E-10	Y
5CR171	424 Methanol Tank	N	Y	E	0	4285 - 40000	26295	0	Y
	#1 BY-PRODUCTS								
1B/P-1	ST-1 Liquor Storage Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1B/P-2	ST-2 Liquor Storage Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1B/P-3	ST-3 Liquor Storage Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1BP-6	S1 So. Surge Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1B/P-7	S2 No. Surge Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1BP-8	D1 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-9	D2 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-10	D3 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-11	D4 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-12	D5 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-13	D6 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-14	D7 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-15	D8 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-16	D9 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-17	D10 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-18	D11 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-19	D12 #1 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
1B/P-24	FS1 #1 Unit Flushing Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1B/P-25	FS2 #1 Unit Flushing Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1B/P-26	FS3 #1 Unit Flushing Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y

*Y - Subpart L Controlled
N** - Stream mixed with Process Wastewater >10%

ED_002508A_00001333-00004

USS Clairton Works
Total Annual Benzene (TAB) - 1998
MTCE - VESSELS DRAINS LISTING

Waste Stream ID#	Mtce - Vessel Drains Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
	#2 BY-PRODUCTS								
2B/P-1	D1 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-2	D2 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-3	D3 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-4	D4 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-5	D5 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-6	D6 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-7	D7 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-8	D8 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-9	D11 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-10	D12 #2 Unit Decanter	N	Y	B	0	2.37 - 6.41	4.7	0	Y
2B/P-11	S-1 Surge #2 Unit Surge Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-12	S-2 Surge #2 Unit Surge Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-17	PCT-1 P/C Condensate Tank.	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-18	PCT-2 P/C Condensate Tank.	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-19	FS-1 #2 Unit Flush Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-20	FS-2 #2 Unit Flush Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-21	FS-3 #2 Unit Flush Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-22	FS-4 #2 Unit Flush Strainer	N	Y	A	0	2.37 - 6.41	4.7	0	Y
	CWTP #2 TANK FARM								
TKF-10	1 ST Liquior Storage Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
TKF-11	2 ST Liquior Storage Tank	N	Y	A	0	2.37 - 6.41	4.7	0	Y
TKF-12	1WW Waste Water Tank	N	Y	A	0	260 - 500	373	0	Y
TKF-13	2 WW Waste Water Tank	N	Y	A	0	260 - 500	373	0	Y
TKF-14	T-3 Still Feed Tank	N	Y	A	0	260 - 500	373	0	Y
	#1 PRIMARY COOLERS								
1P/C1	801-T1 Primary Cooler	N	Y	A	150	2.37 - 6.41	4.7	0	Y
1P/C2	802-T1 Primary Cooler	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C3	803-T1 Primary Cooler	N	Y	A	0	2.37 - 6.41	4.7	0	Y
	#2 PRIMARY COOLERS								
2P/C-1	804-T1 Primary Cooler	N	Y	A	150	2.37 - 6.41	4.7	0	Y
2P/C-22	805-T1 Primary Cooler	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-59	806-T1 Primary Cooler	N	Y	A	0	2.37 - 6.41	4.7	0	Y
						Subtotal - Vessel Drains:		0.14	

*Y - Subpart L Controlled
N** - Stream mixed with Process Wastewater >10%

ED_002508A_00001333-00005