Summary of WWT SARA Compounds, Report Year 2000

Compound	CAS #	INFLUENT (LBS/YR)	AIR (LBS/YR)	EFFLUENT (LBS/YR)	SLUDGE (LBS/YR)	TOTAL DISCH. (LBS/YR)	TREATED (LBS/YR)	EFFICIENCY %	COMMENTS AIR	COMMENTS EFFLUENT	COMMENTS SLUDGE
ACETALDEHYDE	75070	179588.88	563.64	6.69	2.56	573	179016	100	Toxchem	Toxchem	Toxchem
ACETONITRILE	75058	74433.42	710.04	38	154	902	73531	99	Toxchem	Clarifier Overflow (1/2 PQL)	Sludge w/grit (1/2 PQL)
AMMONIA	7664417	2218085.00	26710.00	9977	80	36767	2181318	98	Toxchem	DMR data	Toxchem
ANILINE	62533	10302.90	0.00	3590.85	404.06	3995	6308	61	Toxchem	Clarifier Overflow Report, detect	Sludge w/grit, detect
ANTIMONY	N010(SB)	1203.99	0.00	469.76	734.23	1204	0	0	metal	Clarifier Overflow Report, detect	BIF Data
ARSENIC	N020(AS)	1528.35	0.00	812.91	715.44	1528	0	0	metal	Clarifier Overflow Report, detect	BIF Data
BARIUM	N040(BA)	11568.36	0.00	5994.49	5573.87	11568	0	0	metal	Clarifier Overflow Report, detect	BIF Data
BENZENE	71432	3769.80	243.87	0.94	1.59	246	3523	93	Toxchem	Toxchem	Toxchem
BERYLLIUM	N050	53.36	0.00	14.3	39.06	53	0	0	metal	Clarifier Overflow Report, detect	BIF Data
BIPHENYL	92524	944.28	7.42	0.47	8.18	16	928	98	Toxchem	Toxchem	Toxchem
BIS (2-ETHYLHEXYL) PHTHALATE	117817	14482.62	14.87	125.06	2527.55	2667	11815	82	Toxchem	Toxchem	Sludge w/grit, detect
BUTANAL	123728	4897.08	202.98	142.19	60.98	406	4491	92	Toxchem	Toxchem	Toxchem
BUTANOL,N-	71363	498700.62	1994.70	5044	619	7658	491043	98	Toxchem	Clarifier Overflow (1/2 PQL)	Sludge w/grit (1/2 PQL)
BUTYL ACRYLATE	141322	0.88	0.02	0	0	0	1	98	Toxchem	Toxchem	Toxchem
CADMIUM	N078(CD)	67.15	0.00	13.83	53.32	67	0	0	metal	Clarifier Overflow Report, detect	BIF Data
CARBON DISULFIDE	75150	128.10	0.00	51.1	77	128	0	0	no data	Clarifier Overflow Report, detect	Sludge w/grit (1/2 PQL)
CHLORINE	7782505	65440.00	0.00	0	0	0	65440	100	100% Treated	100% Treated	100% Treated
CHLORINE DIOXIDE	10049044	529.00	0.00	0	0	0	529	100	100% Treated	100% Treated	100% Treated
CHLOROBENZENE	108907	1174.86	50.95	0.21	1.02	52	1123	96	Toxchem	Toxchem	Toxchem
CHROMIUM	N090(CR)	12935.32	0.00	1104.28	11831.04	12935	0	0	metal	DMR data	BIF Data
COBALT	N096(CO)	33853.46	0.00	9079.46	24774	33853	0	0	metal	Clarifier Overflow Report, detect	Patrice Riesenberg
COPPER	N100(CU)	20186.42	0.00	687.54	19498.88	20186	0	0	metal	DMR data	BIF Data
CROTONALDEHYDE	4170303	294370.14	710.04	3777.12	1076.04	5563	288807	98	Toxchem	Toxchem	Toxchem
CYANIDE	N106(CN)	1185.93	0.00	1185.93	0	1186	0	0	Toxchem	DMR data	Toxchem
CYCLOHEXANE	110827	4897.08	2217.96	4.99	0	2223	2674	55	Toxchem	Toxchem	Toxchem
DIBUTYL PHTHALATE	84742	11488.74	0.33	56.18	197.63	254	11235	98	Toxchem	Toxchem	Sludge w/grit, detect
DICHLOROBENZENE,1,2-	95501	11840.10	830.82	43.86	8.86	884	10957	93	Toxchem	DMR, (1/2 PQL)	Sludge w/grit, detect
DIETHYL SULFATE	64675	4534.74	0.00	0	0	0	4535	100	100% Treated	100% Treated	100% Treated
DIMETHYL FORMAMIDE	68122	433210.80	8.63	2258.6	199.58	2467	430744	99	Toxchem	Toxchem	Toxchem
DIMETHYL PHTHALATE	131113	184010.16	0.94	43.86	62	107	183903	100	Toxchem	DMR, (1/2 PQL)	Sludge w/grit (1/2 PQL)
DIMETHYLAMINE	124403	2682.78	7.11	71.26	732	810	1872	70	Toxchem	Toxchem	Toxchem
DIMETHYLANILINE,N,N-	121697	2781.60	24.51	202.47	11.01	238	2544	91	Toxchem	Toxchem	Toxchem
DIMETHYLPHENOL 2,4	105679	56.80	0.00	43.86	12.94	57	0	0	no data	DMR, (1/2 PQL)	Sludge w/grit, detect
DIOXANE,1,4-	123911	406666.26	369.66	34868.21	329.88	35568	371099	91	Toxchem	Clarifier Overflow Report, detect	Toxchem
ETHYLBENZENE	104414	41423.88	3557.52	10.4	595.81	4164	37260	90	Toxchem	Toxchem	Sludge w/grit, detect
ETHYLENE GLYCOL	107211	5050510.86	1.68	51866	2675.46	54543	4995968	99	Toxchem	Toxchem	Toxchem
ETHYLENE GLYCOL MONOMETHYL ETHER	109864	3154.92	0.96	90.55	10.02	102	3053	97	Toxchem	Toxchem	Toxchem
FORMALDEHYDE	50000	177656.40	3630.72	2097.18	406.26	6134	171522	97	Toxchem	Toxchem	Toxchem
FORMIC ACID	64186	847564.50	732.00	67406.22	4139.46	72278	775287	91	Toxchem	Toxchem	Toxchem
GLYCOL ETHERS	N230(GE)	34034.34	35.34	373.32	115.4	524	33510	98	Toxchem	Toxchem	Toxchem
HYDROGEN FLUORIDE	7664393	350.00	0.00	0	0	0	350	100	100% Treated	100% Treated	100% Treated
HYDROQUINONE	123319	36255.96	0.01	775.92	118.99	895	35361	98	Toxchem	Toxchem	Toxchem
LEAD	N420(PB)	4354.14	0.00	2355.82	1998.32	4354	0	0	metal	DMR data	BIF Data
MALEIC ANHYDRIDE	108316	5.27	1.05E-04	0	0	0	5	100	100% Treated	100% Treated	100% Treated
MANGANESE	N450(MN)	17987.87	0.00	17987.87	0	17988	0	0	metal	Clarifier Overflow Report, detect	no data
MERCURY	N458(HG)	23.07	0.00	6.02	17.05	23	0	0	metal	Clarifier Overflow Report, detect	BIF Data
METHANOL	67561	5903993.58	1628.70	4402.98	62	6094	5897900	100	Toxchem	Toxchem	Sludge w/grit (1/2 PQL)
METHYL BROMIDE	74839	7675.02	1936.14	31.8	13.48	1981	5694	74	Toxchem	Toxchem	Toxchem
METHYL CHLORIDE	74873	1431.06	288.04	3.06	14.18	305	1126	79	Toxchem	Toxchem	Sludge w/grit, detect
METHYL ETHYL KETONE	78933	25.00	0.00	0	25	25	0	0	no data	Clarifier Overflow (1/2 PQL)	Sludge w/grit, detect
METHYL IODIDE	74884	129.93	12.07	0.48	0.5	13	117	90	Toxchem	Toxchem	Toxchem

Summary of WWT SARA Compounds, Report Year 2000

	INFLUENT	AIR	EFFLUENT	SLUDGE	TOTAL DISCH.	TREATED	EFFICIENCY	COMMENTS		
CAS #	(LBS/YR)	(LBS/YR)	(LBS/YR)	(LBS/YR)	(LBS/YR)	(LBS/YR)	%	AIR	EFFLUENT	SLUDGE
80626	0.88	4.36E-03	0	0	0	1	100	Toxchem	Toxchem	Toxchem
108101	179449.80	3579.48	15.24	77	3672	175778	98	Toxchem	Clarifier Overflow Report, detect	Sludge w/grit (1/2 PQL)
N495(NI)	8246.10	0	2506.8	5739.3	8246	0	0	metal	DMR data	BIF Data
N511	128248.00	0	128248	0	128248	0	0		Special Calculation	
7697372	500.00	0	0	0	0	500	100	100% Treated	100% Treated	100% Treated
95545	893.04	2.31E-03	15.31	3.08	18	875	98	Toxchem	Toxchem	Toxchem
106445	18.33	0.00	0	18.33	18	0	0	no data	no data	Sludge w/grit, detect
108952	17114.16	0.86	4.36	2.6	8	17106	100	Toxchem	Toxchem	Toxchem
90437	629.52	26.63	0.38	5.39	32	597	95	Toxchem	Toxchem	Toxchem
7664382	376289.00	0.00	0	0	0	376289	100	Toxchem	Toxchem	Toxchem
85449	9892.98	6.25E-07	0	0	0	9893	100	100% Treated	100% Treated	100% Treated
123386	158.00	1.40	2.42	21.21	25	133	84	Toxchem	Toxchem	Toxchem
110861	2027.64	9.49	37.04	6.65	53	1974	97	Toxchem	Toxchem	Toxchem
106514	94446.30	20.67	1379.82	339.28	1740	92707	98	Toxchem	Toxchem	Toxchem
N725(SE)	1106.59	0.00	266.39	840.2	1107	0	0	metal	Clarifier Overflow Report, detect	BIF Data
N740(AG)	146.40	0.00	36.55	109.85	146	0	0	metal	Clarifier Overflow Report, detect	BIF Data
7632000	26803.00	0.00	0	0	0	26803	100	100% Treated	100% Treated	100% Treated
100425	519.72	131.03	8.23	39.64	179	341	66	Toxchem	Toxchem	Toxchem
79345	57.06	1.12	0.24	0.52	2	55	97	Toxchem	Toxchem	Toxchem
N760	855.25	0.00	319.9	535.35	855	0	0	metal	Clarifier Overflow Report, detect	BIF Data
108883	581109.18	45859.80	43.86	563.42	46467	534642	92	Toxchem	DMR, (1/2 PQL)	Sludge w/grit, detect
76028	96.00	0.00	0	0	0	96	100	100% Treated	100% Treated	100% Treated
121448	119089.08	739.32	387.96	209.06	1336	117753	99	Toxchem	Toxchem	Toxchem
	1438.77	0.00	1435.17	3.6	1439	0	0	metal	Clarifier Overflow Report, detect	Sludge w/grit, detect
108054	0.88	0.03	0.01	0	0	1	95	Toxchem	Toxchem	Toxchem
1330207	258652.20	22629.78	282.41	1577.46	24490	234163	91	Toxchem	Toxchem	Toxchem
108383	24569.58	2368.02	31.68	1615.98	4016	20554	84	Toxchem	Clarifier Overflow Report, detect	Sludge w/grit, detect
95476	83605.38	4256.58	8.04	121.08	4386	79220	95	Toxchem	Toxchem	Sludge w/grit, detect
106423	2755.98	193.61	3.52	179.5	377	2379	86	Toxchem	Clarifier Overflow Report, detect	Sludge w/grit, detect
N982(ZN)	5800.02	0.00	4028.58	1771.44	5800	0	0	Toxchem	DMR data	Toxchem

SARA REPORT PROCESS & ASSUMPTIONS

1. When calculating influent concentrations to use in Toxchem, use higher of EMIS or GC influent data.

2. Most acids are considered to be 100% consumed, or converted.

3. For air emissions, use Toxchem values if available. Air emissions for metals & chemicals 100% consumed, or converted will be 0.

4. For effluent emissions, use data in the following order:

   A. DMR detected values,

   B. Clarifier Overflow Report detected values,

   C. DMR nondetects @ 1/2 PQL if < Toxchem value,

   D. Clarifier Overflow Report nondetects @ 1/2 PQL if < Toxchem value

   E. Toxchem value from model

   F. Zero if there is no data, or the chemical is 100% treated

5. For sludge emissions, use data in the following order:

   A. BIF data

   B. Sludge w/Grit Report, detected data

   C. Sludge w/Grit Report nondetects @ 1/2 PQL if < Toxchem value

   D. Toxchem value from model

   E. Zero if there is no data, or the chemical is 100% treated

6. The sum of Air + Effluent + Sludge = Total Amount Discharged

7. Total Influent - Total Amount Discharged = Amount Treated.

8. If Total Influent - Total Amount Discharged < zero, then Total Influent is increased by the deficit.