



126 N. East St. / Uvalde, TX 78801 / (830) 515-5565
www.AguaRaider.com

Air Emissions Reduction Using the AguaRaider Wastewater Pretreatment Module

	PRE		POST	
1,2,4-Trimethylbenzene	103.000	UG/L wt	0.170	UG/L wt
1,3,5-Trimethylbenzene	39.300	UG/L wt	0.170	UG/L wt
2-Butanone	127.000	UG/L wt	12.500	UG/L wt
4-Isopropyltoluene	7.800	UG/L wt	0.170	UG/L wt
Acetone	2,070.000	UG/L wt	719.000	UG/L wt
Benzene	1,590.000	UG/L wt	0.200	UG/L wt
Carbon Disulfide	0.512	UG/L wt	0.220	UG/L wt
Cyclohexane	1,400.000	UG/L wt	0.130	UG/L wt
Ethylbenzene	132.000	UG/L wt	0.130	UG/L wt
Isopropylbenzene	13.700	UG/L wt	0.330	UG/L wt
m,p-Xylenes	238.000	UG/L wt	0.380	UG/L wt
Methylcyclohexane	3,290.000	UG/L wt	0.090	UG/L wt
o-Xylene	106.000	UG/L wt	0.200	UG/L wt
sec-Butylbenzene	7.980	UG/L wt	0.170	UG/L wt
Toluene	1,120.000	UG/L wt	0.170	UG/L wt
Xylenes, Total	344.000	UG/L wt	0.580	UG/L wt
2-Methylnaphthlene	29.600	UG/L wt	0.302	UG/L wt
3 & 4 Methylphenol	93.600	UG/L wt	3.230	UG/L wt
Naphthalene	9.250	UG/L wt	0.386	UG/L wt
Phenanthrene	5.080	UG/L wt	0.333	UG/L wt
Phenol	94.500	UG/L wt	3.350	UG/L wt

<i>Air Emissions Calculations</i>				
	PRE Total VOCs		POST Total VOCs	
1,2,4-Trimethylbenzene	0.10300	PPM wt	0.00017	PPM wt
1,3,5-Trimethylbenzene	0.03930	PPM wt	0.00017	PPM wt
2-Butanone	0.12700	PPM wt	0.01250	PPM wt
4-Isopropyltoluene	0.00780	PPM wt	0.00017	PPM wt
Acetone	2.07000	PPM wt	0.71900	PPM wt
Benzene	1.59000	PPM wt	0.00020	PPM wt
Carbon Disulfide	0.00051	PPM wt	0.00022	PPM wt
Cyclohexane	1.40000	PPM wt	0.00013	PPM wt
Ethylbenzene	0.13200	PPM wt	0.00013	PPM wt
Isopropylbenzene	0.01370	PPM wt	0.00033	PPM wt
m,p-Xylenes	0.23800	PPM wt	0.00038	PPM wt
Methylcyclohexane	3.29000	PPM wt	0.00009	PPM wt
o-Xylene	0.10600	PPM wt	0.00020	PPM wt
sec-Butylbenzene	0.00798	PPM wt	0.00017	PPM wt
Toluene	1.12000	PPM wt	0.00017	PPM wt
Xylenes, Total	0.34400	PPM wt	0.00058	PPM wt
2-Methylnaphthlene	0.02960	PPM wt	0.00030	PPM wt
3 & 4 Methylphenol	0.09360	PPM wt	0.00323	PPM wt
Naphthalene	0.00925	PPM wt	0.00039	PPM wt
Phenanthrene	0.00508	PPM wt	0.00033	PPM wt
Phenol	0.09450	PPM wt	0.00335	PPM wt
TOTAL VOC	10.58929	PPM wt	0.735	PPM wt
Water feed	2,000	BPD	2,000	BPD
	700,560	lb / day	700,560	lb / day
Max Emissions of VOC per day	7	lb / day	1	lb / day
Max Annual Emissions of VOC	1.354	TPA	0.094	TPA

Percent Reduction of Total VOCs 93.06%

Permit-By-Rule Total VOCs Limit Less Than 25 Tons Per Annum
 Pennsylvania Total VOCs Limit Less than 2.7 Tons Per Annum