

ATTACHMENT A

Toxic Screening Spreadsheet

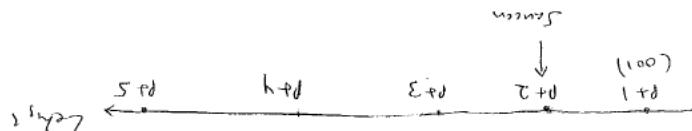
WQM Model 7.0 Output

PENTOXSD Output

TRC Spreadsheet

TOXICS SCREENING ANALYSIS WATER QUALITY POLLUTANTS OF CONCERN VERSION 2.1

TOXIC SCREENING ANALYSIS
 WATER QUALITY POLLUTIONS OF CONCERN
 VERSION 2.1
 NCEES Exam No.: PA0026042
 Date: 001
 Analysis Flow (NAGD): 20
 Analysis ID (SU): 8
 Analysis Hours (mGL): 90.3
 Facility: Delibraham WTP



3.5°C
44.8
WATER (25.0 °C)
Alkalinity - Nitrates
14.5

RML	Name	Permit Number	Parameter	30-day Ave.			Maximum			Dissolved Oxygen
				El. Limit	EPA Limit	El. Limit	El. Limit	EPA Limit	El. Limit	
9.640	COB	PA002602	20,000 CBOD5	25	5	10	3	10	3	

SWP Basin Stream Code Stream Name LEHIGH RIVER
02C 3335

WQM 7.0 Effluent Limits

Parameter	Effluent Limit	Geometric Mean	Daily Limit	WQBEL	Most Stringent
9.54	Beth WWTP	PA0026042	20,0000		
SWP Basin	Stream Code:	3335	LEHIGH RIVER		
02C	Stream Name				
	Recommended Effluent Limitations				
1,1,2,2-TERACHLOROETHANE	3,583	CRL	5.99	3,583	CRL
1,1,2-TRICHLOROETHANE	5	INPUT	7,801	12,345	CRL
1,1-DICHLOROETHENE	5	INPUT	7,801	106,707	THI
1,2-DICHLOROETHANE	5	INPUT	7,801	196,666	CRL
2,3,7,8-TDD	0	CRL	0	0	CRL
1,2-DIOCHLOROPROPENE	5	INPUT	7,801	7,166	CRL
1,2-DICHLOROETHANE	5	INPUT	7,801	8,009	CRL
1,1-DICHLOROETHYLENE	5	INPUT	7,801	106,707	THI
2,4-DINITROTOLUENE	10	INPUT	15,602	1916,555	CRL
2,6-DINITROTOLUENE	10	INPUT	15,602	1005,616	AFC
3,3-DICHLORO-2-ENEDINE	0.043	CRL	0.091	0.043	CRL
3,4-ENONODIFLUORANTHENE	0.08	CRL	0.125	0.08	CRL
4,4-DDD	0.005	CFC	0.008	0.005	CFC
4,4-DTE	0.005	CRL	0.007	0.005	CRL
4,4-DT	0.005	CRL	0.007	0.005	CRL
4,4-EPOXYBIPYRIDYL	0.005	CRL	0.007	0.005	CRL
ACROBENZIN	5,052	CFC	7,882	5,052	CFC
ACRYLONITRILE	1,076	CRL	1,077	1,076	CRL
ADRIN	0.001	CRL	0.002	0.001	CRL
Alpha-BHC	0.005	CRL	0.006	0.005	CRL
Alpha-ENODISULFAN	0.223	AFC	0.349	0.223	AFC
BENZENE	5	INPUT	7,801	25,233	CRL
BENZOFUAN	0.002	CRL	0.007	0.002	CRL
BIS(2-CHLOROETHYL)PHthalate	10	INPUT	15,602	26,233	CRL
BROMODOBRA	5	INPUT	7,801	0,729	CFC
CADMIUM	0.5	INPUT	0.76	0,729	CFC
CARBON TETRACHLORIDE	4,848	CRL	7,563	4,848	CRL
CHLOROBROMOMETHANE	5	INPUT	7,801	8,431	CRL
CHROMIUM VI	10	INPUT	15,602	16,551	AFC
CHRYSTENE	0.08	CRL	0.125	0.08	CRL
COPPER	9,945	AFC	15,516	9,945	CFC
COBALT	5	INPUT	7,801	0,729	CFC
CHROMIUM	0.08	CRL	0.125	0.08	CRL
CHLORODIBROMOMETHANE	5	INPUT	7,801	11,933	CRL
DBEZ(2,4)-ANTHRACENE	0.08	CRL	0.125	0.08	CRL
DIETHYLBROMOMETHANE	5	INPUT	7,801	0.001	CRL
DIETHRIN	0.001	CRL	0.002	0.001	CRL
Leads, April 15, 2014	Versioon 2.0d	Page 1 of 2			

Recommended Effluent Limitations

PENTOXSD Analysis Results

SWP RABIN

LEHIGH RIVER

A	B	C	D	E	F	G
Input appraise values in B4:B8 and E4:E7 Bethlehem WTP						
370.944	=Q1 Stream (cfs)	0.6 = CV Daily	0.5 = CV Hourly	1 = AFC Partial Mix Factor	0.3 = CHlorine Demand of Stream	0 = BT/BP Value
20	=Q1 Stream (cfs)	0.6 = CV Daily	0.5 = CV Hourly	1 = AFC Partial Mix Factor	0.3 = CHlorine Demand of Stream	0 = Factor of Safety (FoS)
30	=no. samples					
0.3						
720						
Source	Refrigerant	AFC Calculations	Refrigerant	AFC Calculations	Source	Efficiency Limit Calculations
TRC	1.8,21!!!	WLA ofc = 3.844	1.8,21!!!	WLA ofc = 3.740	PENTOXD TRG	5.1f
						AML MULT = (231
						AVG MON LIMIT (mg/l) = 0.500
						BATBPI
						INST MAX LIMIT (mg/l) = 1.636
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