

Enter Data in Blue Areas Only

Values entered in Blue area are for examples only. Update these.

A	B	C
<b>TABLE 1 - GENERAL DATA ENTRY</b>		
POTW NAME:	St. Vrain Sanitation District	
POTW HIGHEST MONTHLY AVERAGE FLOW (MGD):	3.25	
DOMESTIC FLOW (MGD):	2.58	
SIU FLOW (MGD):	0.27	
COMMERCIAL FLOW (MGD):	0.34	
TRUCKED AND HAULED WASTE FLOW (MGD):	0	
COMMERCIAL FLOW AS A % OF ALL NON-DOMESTIC	56	
TOTAL COMMERCIAL FLOW AS A % OF TOTAL POTW FLOW	10	
TOTAL NON-DOMESTIC FLOW AS A % OF TOTAL POTW FLOW	19	
SPECIFIC GRAVITY OF SLUDGE TO DISPOSAL (kg/l)	1	Default 1
SLUDGE FLOW TO DISPOSAL (MGD):	0.0016	
% SOLIDS TO DISPOSAL (%)	22	
BIOSOLIDS TABLE (1,3 OR "O" THER) BASED ON DISPOSAL OPTION:	3	
ARE YOU USING TABLE 2 FOR BIOSOLIDS (Y/N)?:	n	
SITE AREA (ACRES):	0	
SITE LIFE (YEARS):	0	
CHRONIC RECEIVING WATER FLOW (MGD):	8.38	
ACUTE RECEIVING WATER FLOW (MGD):	8.38	
HARDNESS FOR METALS CALCULATIONS (MG/L):	400	
IS YOUR RECEIVING WATER A DRINKING WATER SUPPLY (Y/N)?:	n	
APPLICABLE STANDARDS (ACUTE, CHRONIC, BOTH):	B	A,C OR B

**Spreadsheet**

Max avg flc  
Total - SIU  
current SIU  
2018 comm

See Appendix M of the Strategy

2017 average  
2017 average  
beneficial reuse  
Table 3 for land application  
NA  
NA  
from WQA  
from WQA  
from WQA & testing

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B	C	D	E	F	G	H	I
Daily TABLE 2: CRITERIA AND STANDARDS  POLLUTANT	Daily Max/7 Day NPDES PERMIT LIMITS MG/L	STATE ACUTE WQ STDS MG/L	EPA ACUTE H2O QUAL CRITERIA MG/L	FINAL ACUTE CRITERIA MG/L	MCLs MG/L	OTHER CRITERIA	POLLUTANT
ARSENIC CADMIUM CHROMIUM - TOTAL CHROMIUM (III) CHROMIUM (VI)		0.815 0.022 4.251 4.251 0.038	0.34 0.0091  1.7730 0.0160	0.8150 0.0220 4.2510 4.2510 0.0380			ARSENIC CADMIUM CHROMIUM - TOTAL CHROMIUM (III) CHROMIUM (VI)
COPPER LEAD MERCURY MOLYBDENUM		0.118 0.674 0.024	0.0500 0.2810	0.1180 0.6740 0.0240			COPPER LEAD MERCURY MOLYBDENUM
NICKEL SELENIUM SILVER ZINC		3.628 0.038 0.053 1.089	1.5130 0.0184 0.0220 0.4670	3.6280 0.0380 0.0530 1.0890			NICKEL SELENIUM SILVER ZINC
BOD TSS MANGANESE IRON	45 45	11.3	4.7380	45.0000 45.0000 11.3000			BOD TSS MANGANESE IRON

Cr3 Std

Data: WQA metals  
PD WQ standards

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B	C	D	E	F	G	H	I	J	K	L
Monthly TABLE 3: CRITERIA AND STANDARDS  POLLUTANT	Monthly NPDES PERMIT LIMITS MG/L	STATE CHRONIC WQ STDS MG/L	EPA CHRONIC H2O QUAL CRITERIA MG/L	FINAL CHRONIC CRITERIA MG/L	POLLUTANT	STATE HUMAN HEALTH CRITERIA MG/L	EPA HUMAN HEALTH CRITERIA MG/L	Final HUMAN HEALTH CRITERIA MG/L	OTHER CRITERIA  State Chronic Agriculture mg/l	POLLUTANT
ARSENIC		0.018	0.0076	0.0180	ARSENIC					ARSENIC
CADMIUM		0.0029	0.001200	0.0029	CADMIUM					CADMIUM
CHROMIUM - TOTAL		0.554	0.2310	0.5540	CHROMIUM - TOTAL					CHROMIUM - TOTAL
CHROMIUM (III)		0.554	0.011	0.5540	CHROMIUM (III)					CHROMIUM (III)
CHROMIUM (VI)		0.026	0.0260	0.0260	CHROMIUM (VI)					CHROMIUM (VI)
COPPER		0.068	0.0290	0.0680	COPPER					COPPER
LEAD		0.026	0.0110	0.0260	LEAD					LEAD
MERCURY		0.00001	0.000001	0.00001	MERCURY					MERCURY
MOLYBDENUM					MOLYBDENUM					MOLYBDENUM
NICKEL		0.403	0.1680	0.4030	NICKEL					NICKEL
SELENIUM		0.0052	0.0046	0.0052	SELENIUM					SELENIUM
SILVER		0.0084	0.0035	0.0084	SILVER					SILVER
ZINC		0.94	0.4050	0.9400	ZINC					ZINC
BOD	30				BOD					BOD
TSS	30				TSS					TSS
MANGANESE		6.216	2.618	6.2160	MANGANESE					MANGANESE
IRON		2.006	1	2.0060	IRON					IRON

Cr3 Std

Data: WQA metals

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THIS INFORMATION IS ONLY NECESSARY IF YOU ARE CALCULATING REMOVAL EFFICIENCY FROM POTW INF AND EFF DATA ONLY (See Rem Eff TABLE)

B	C	D	E	F	G	H	I	J	K	
TABLE 4: INFLUENT AND EFFLUENT DATA										
POLLUTANT	AVERAGE POTW INFLUENT MG/L	POTW FLOW MGD	COMMENT AND NOTES	POTW INFLUENT LBS/DAY	AVERAGE POTW EFFLUENT MG/L	POTW FLOW MGD	COMMENT AND NOTES	POTW EFFLUENT LBS/DAY	POLLUTANT	
ARSENIC	0.00067	3.1	1/2 DL	0.017322	0.00047	3.1	1/4 DL	0.01215138	ARSENIC	
CADMIUM	0.00087	3.1		0.022493	0.00092	3.1		0.0051708	CADMIUM	
CHROMIUM - TOTAL	0.00384	3.1		0.099279	0.00362	3.1		0.09359148	CHROMIUM - TOTAL	
CHROMIUM (III)		3.1				3.1			CHROMIUM (III)	
CHROMIUM (VI)	0.005	3.1			0.12927	0.0025		3.1	0.064635	CHROMIUM (VI)
COPPER	0.0463	3.1			1.19704	0.005		3.1	0.12927	COPPER
LEAD	0.00178	3.1			0.04602	0.0009		3.1	0.0232686	LEAD
MERCURY	0.0000452	3.1		1631	0.001169	0.0000019		3.1	4.9123E-05	MERCURY
MOLYBDENUM	0.00309	3.1			0.079889	0.00242		3.1	0.06256668	MOLYBDENUM
NICKEL	0.00309	3.1			0.079889	0.0044		3.1	0.1137576	NICKEL
SELENIUM	0.00307	3.1		0.079372	0.0017	3.1	0.0439518	SELENIUM		
SILVER	0.000002	3.1		0.008273	0.0000022	3.1	0.00568788	SILVER		
ZINC	0.1368	3.1		3.536827	0.0634	3.1	1.6391436	ZINC		
BOD	279	3.1		7213.266	7	3.1	180.978	BOD		
TSS	283	3.1		7316.682	7	3.1	180.978	TSS		
MANGANESE	0.0454	3.1		1.173772	0.0291	3.1	0.7523514	MANGANESE		
IRON	0.4046	3.1		10.46053	0.0741	3.1	1.9157814	IRON		

Yellow = BDL majority data used

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 Purple Areas are Optional Data Entry Columns

B		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
TABLE 5: POLLUTANT LOADING AND RECEIVING WATER		TOTAL CURRENT SIU LOADING TO POTW LBS/D	DOMESTIC CONTRIBUTION TO POTW MG/L	USER ENTERED DOMESTIC LOADING TO POTW LBS/DAY	FINAL CALCULATED DOMESTIC CONTRIBUTION LBS/DAY					COMMERCIAL USER DISCHARGE TO POTW MG/L	USER ENTERED COMMERCIAL LOADING TO POTW LBS/DAY		CALCULATED COMMERCIAL CONTRIBUTION LBS/DAY	TOTAL DOMESTIC PLUS COMMERCIAL LOADING LBS/D	USER ENTERED TRUCKED AND HAULED WASTE LOADING TO POTW LBS/DAY	UPSTREAM RECEIVING WATER MG/L	POLLUTANT
ARSENIC	0.0012	0.00063		0.013555836	ARSENIC	0.00154		0.004366824	0.01792266	0		ARSENIC					
CADMIUM	0.0008	0.00035		0.00753102	CADMIUM	0.00037		0.001049172	0.008560192	0		CADMIUM					
CHROMIUM - TOTAL	0.0092	0.001		0.0215172	CHROMIUM - TOTAL	0.0106		0.03005736	0.05157456	0		CHROMIUM - TOTAL					
CHROMIUM (III)				Need Domestic Data	CHROMIUM (III)			Need Commercial Data	Dom or Comm Data Missing	0		CHROMIUM (III)					
CHROMIUM (VI)	0.0073	0.0025		0.053793	CHROMIUM (VI)	0.0025		0.007089	0.060882	0		CHROMIUM (VI)					
COPPER	0.017	0.0705		1.5169626	COPPER	0.081		0.2296836	1.7466462	0		COPPER					
LEAD	0.002	0.0012		0.02582064	LEAD	0.037		0.1049172	0.13073784	0		LEAD					
MERCURY	0.000120	0.000025		0.00053793	MERCURY	0.000025		0.00007089	0.00060882	0		MERCURY					
MOLYBDENUM	0.0083	0.0023		0.04948956	MOLYBDENUM	0.003		0.0085068	0.05799636	0		MOLYBDENUM					
NICKEL	0.0095	0.004		0.0860688	NICKEL	0.0071		0.02013276	0.10620156	0		NICKEL					
SELENIUM	0.0019	0.0013		0.02797236	SELENIUM	0.0019		0.00538764	0.03336	0		SELENIUM					
SILVER	0.00042	0.0002		0.00430344	SILVER	0.00035		0.00099246	0.0052959	0		SILVER					
ZINC	0.249	0.168		3.6148896	ZINC	0.184		0.5217504	4.13664	0		ZINC					
BOD	700	368		7918.3296	BOD	400		1134.24	9052.5696	0		BOD					
TSS	400	246		5293.2312	TSS	291		825.1596	6118.3908	0		TSS					
MANGANESE	0.03	0.0232		0.49919904	MANGANESE	0.0602		0.17070312	0.66990216	0		MANGANESE					
IRON	0.18	0.214		4.6046808	IRON	1.077		3.0539412	7.658622	0		IRON					

SIU loading = existing load + Agilent + Smuckers estimates based on WQ would be the same as the Aurora Dairy metals.  
 Hg & Cr6+ SIU loadings based on 1/4 DL  
 Commercial & Residential data collected 10X each 2016/17

Data: pg 7 WQA  
 Used St. Vrain Creek mean values

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B	C	D	E	F	G	H	I	J
TABLE 6: BIOSOLIDS	POTW BIOSOLIDS TO DISPOSAL MG/KG DRY WT.	TABLE 1 MAXIMUM LAND APP SLUDGE CRITERIA MG/KG	TABLE 3 "CLEAN" LAND APP SLUDGE CRITERIA MG/KG	TABLE 2 (CAR) CUMULATIVE APPLICATION RATE LBS/ACRE	TABLE 2 CALC. SLUDGE DISPOSAL CRITERIA MG/KG	ENTER DEFAULT BIOSOLIDS DISPOSAL CRITERIA MG/KG	FINAL SLUDGE CRITERIA MG/KG	POLLUTANT
POLLUTANT								
ARSENIC	2.6		41				41.00	ARSENIC
CADMIUM	2.2		39				39.00	CADMIUM
CHROMIUM - TOTAL	18						No Criteria	CHROMIUM - TOTAL
CHROMIUM (III)							No Criteria	CHROMIUM (III)
CHROMIUM (VI)							No Criteria	CHROMIUM (VI)
COPPER	454		1500				1500.00	COPPER
LEAD	10.9		300				300.00	LEAD
MERCURY	1		17				17.00	MERCURY
MOLYBDENUM	8.8	75				75	75.00	MOLYBDENUM
NICKEL	26.5		420				420.00	NICKEL
SELENIUM	19.6		100				100.00	SELENIUM
SILVER	2.2						No Criteria	SILVER
ZINC	708.5		2800				2800.00	ZINC
BOD							No Criteria	BOD
TSS							No Criteria	TSS
MANGANESE							No Criteria	MANGANESE
IRON	8495						No Criteria	IRON

Table 1 lim

Table 3 land application criteria used

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 Purple Areas are Optional Data Entry Columns

B		C	D	E	F	G	H	I	J	K	L	M	N	O
TABLE 7: REMOVAL EFFICIENCY CALCULATIONS		INFEFF Influent/Effluent Method Removal Efficiency %	ADRE ADRE METHOD REMOVAL EFFICIENCY %	MRE MRE METHOD REMOVAL EFFICIENCY %	DECILE DECILE METHOD REMOVAL EFFICIENCY %	LIT LITERATURE REMOVAL EFFICIENCY %	SOURCE OF LITERATURE REMOVAL EFFICIENCY DATA	ENTER THE NAME OF THE REMOVAL EFFICIENCY TO BE USED: INFEFF, ADRE, MRE, DECILE, OR LIT	USER ENTERED SLUDGE REMOVAL EFFICIENCY %	USE SLUDGE REMOVAL EFFICIENCY? Y/N	FINAL POTW REMOVAL %			
Removal Efficiencies must be 1-99%														
POLLUTANT														POLLUTANT
ARSENIC	27					49	EPA	LIT		N			49	ARSENIC
CADMIUM	44					64	EPA	LIT		N			64	CADMIUM
CHROMIUM - TOTAL	all below DL					77	EPA	LIT		N			77	CHROMIUM - TOTAL
CHROMIUM (III)	Influent-Effluent Data Prevents Ref Calc							INFEFF		N		NO DATA		CHROMIUM (III)
CHROMIUM (VI)	75							LIT		N		75	CHROMIUM (VI)	
COPPER	89					86	EPA	INFEFF		N		89	COPPER	
LEAD	41					63	EPA	LIT		N		63	LEAD	
MERCURY	94					62	EPA	INFEFF		N		94	MERCURY	
MOLYBDENUM	26					29	EPA	LIT		N		29	MOLYBDENUM	
NICKEL	8					40	EPA	LIT		N		40	NICKEL	
SELENIUM	42					48	EPA	INFEFF		N		42	SELENIUM	
SILVER	29					77	EPA	LIT		N		77	SILVER	
ZINC	52					73	EPA	INFEFF		N		52	ZINC	
BOD	97							INFEFF		N		97	BOD	
TSS	98							INFEFF		N		98	TSS	
MANGANESE	37							INFEFF		N		37	MANGANESE	
IRON	83							INFEFF		N		83	IRON	

Actual removal efficiencies used for inf/eff data above DL  
 EPA Region 8 LL guidance removals used otherwise

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<b>DAILY</b> <b>TABLE 8: MAHL CALCULATIONS</b>  <b>POLLUTANT</b>	<b>Daily/7 day</b> <b>NPDES</b> <b>LOADING</b> <b>LBS/DAY</b>	<b>ACUTE</b> <b>LOADING</b> <b>LBS/DAY</b>	<b>LOADING</b> <b>FOR MCL</b> <b>LBS/DAY</b>	<b>OTHER CRITERIA</b> <b>FROM Daily Criteria&amp;Stds</b> <b>COLUMN H</b>	<b>MOST</b> <b>STRINGENT</b> <b>CRITERIA</b> <b>LBS/DAY</b>	<b>NAME OF</b> <b>MAHL</b> <b>FOR DAILY MAX</b> <b>LIMITS</b>	<b>POLLUTANT</b>
ARSENIC	999999	155.0005353	999999	999999	155.0005353	WQ-ACUTE	ARSENIC
CADMIUM	999999	5.927423333	999999	999999	5.927423333	WQ-ACUTE	CADMIUM
CHROMIUM - TOTAL	999999	1792.705844	999999	999999	1792.705844	WQ-ACUTE	CHROMIUM - TOTAL
CHROMIUM (III)	999999	999999	999999	999999	No Criteria	No Criteria	CHROMIUM (III)
CHROMIUM (VI)	999999	14.7431184	999999	999999	14.7431184	WQ-ACUTE	CHROMIUM (VI)
COPPER	999999	105.9836225	999999	999999	105.9836225	WQ-ACUTE	COPPER
LEAD	999999	176.6867319	999999	999999	176.6867319	WQ-ACUTE	LEAD
MERCURY	999999	38.79768	999999	999999	38.79768	WQ-ACUTE	MERCURY
MOLYBDENUM	999999	999999	999999	999999	No Criteria	No Criteria	MOLYBDENUM
NICKEL	999999	586.491596	999999	999999	586.491596	WQ-ACUTE	NICKEL
SELENIUM	999999	6.354792414	999999	999999	6.354792414	WQ-ACUTE	SELENIUM
SILVER	999999	22.35083739	999999	999999	22.35083739	WQ-ACUTE	SILVER
ZINC	999999	220.0555913	999999	999999	220.0555913	WQ-ACUTE	ZINC
BOD	48614.75357	173966.0259	999999	999999	48614.75357	NPDES Daily	BOD
TSS	49311.73929	176460.1624	999999	999999	49311.73929	NPDES Daily	TSS
MANGANESE	999999	1739.737238	999999	999999	1739.737238	WQ-ACUTE	MANGANESE
IRON	999999	999999	999999	999999	No Criteria	No Criteria	IRON





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B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
TABLE 10: DAILY LOCAL LIMITS	Most Stringent MAHL	FINAL MAHL FOR Daily LOCAL LIMITS	Name FOR MAHL	SAFETY/ EXPANSION FACTOR % FOR DAILY MAX LIMITS	MAHL WITH SAFETY - EXPANSION FACTOR LBS/DAY	ENTER "Y" FOR a SIU and a Commercial Limit ENTER "N" FOR SIU Limit Only	MAHL minus DCM LOADING LBS/DAY	Maximum Allowable Load MAHL LBS/DAY	MAL is for	MASS RESERVED FOR HAULED WASTE lbs/day	MAL MINUS THE HAULED WASTE LBS/DAY	POLLUTANT	If you are adopting a Commercial Limit, then these are the loadings from Table 5 lbs/day	If setting SIU and Commercial limits Enter % of MAL to allocate to SIU Enter 100% if no Commercial Limit %	Percentage of MAL that will be allocated to Commercial Users %	MACL Calculated ALLOCATION FOR COMMERCIAL LBS/DAY	MAHL Calculated ALLOCATION FOR SIUs LBS/DAY	CALCULATED UNIFORM LOCAL LIMITS FOR SIUs MCL	POLLUTANT
ARSENIC	0.24563893	0.24563893	Biosolids	15	0.290792791	n	0.190870091	0.190870091	SIUs		0.190870091	ARSENIC		100.0	n/a	N/A	0.190870091	0.0850	ARSENIC
CADMIUM	0.178993	0.178993	Biosolids	15	0.15209005	n	0.143478858	0.143478858	SIUs		0.143478858	CADMIUM		100.0	n/a	N/A	0.143478858	0.0639	CADMIUM
CHROMIUM - TOTAL	233.629508	233.629508	WG-CHRONIC	70	70.08885235	n	70.03727779	70.03727779	SIUs		70.03727779	CHROMIUM - TOTAL		100.0	n/a	N/A	70.03727779	31.193	CHROMIUM - TOTAL
CHROMIUM (III)	No Criteria	No Criteria	No Criteria	n	No Criteria	n	No Criteria	No Criteria	SIUs		No Criteria	CHROMIUM (III)		100.0	0.0	No Criteria	No Criteria	No Criteria	CHROMIUM (III)
CHROMIUM (VI)	10.0073968	10.0073968	WG-CHRONIC	15	8.57438728	n	8.51349528	8.51349528	SIUs		8.51349528	CHROMIUM (VI)		100.0	n/a	N/A	8.51349528	3.792	CHROMIUM (VI)
COPPER	4.9366338	4.936633801	Biosolids	15	4.196138731	n	2.448492531	2.448492531	SIUs		2.448492531	COPPER		100.0	n/a	N/A	2.448492531	1.091	COPPER
LEAD	1.39794286	1.397942867	Biosolids	15	1.18251429	n	1.057513589	1.057513589	SIUs		1.057513589	LEAD		100.0	n/a	N/A	1.057513589	0.471	LEAD
MERCURY	0.0161697	0.0161697	WG-CHRONIC	15	0.013740846	n	0.013132025	0.013132025	SIUs		0.013132025	MERCURY		100.0	n/a	N/A	0.013132025	0.0058	MERCURY
MOLYBDENUM	0.75922723	0.75922726	Biosolids	15	0.649263448	n	0.592347098	0.592347098	SIUs		0.592347098	MOLYBDENUM		100.0	n/a	N/A	0.592347098	0.292	MOLYBDENUM
NICKEL	3.082464	3.082464	Biosolids	15	2.620944	n	2.51389284	2.51389284	SIUs		2.51389284	NICKEL		100.0	n/a	N/A	2.51389284	1.120	NICKEL
SELENIUM	0.69897143	0.698971429	Biosolids	15	0.594125714	n	0.560765714	0.560765714	SIUs		0.560765714	SELENIUM		100.0	n/a	N/A	0.560765714	0.2497	SELENIUM
SILVER	3.54239887	3.54239887	WG-CHRONIC	15	3.011037339	n	3.005741439	3.005741439	SIUs		3.005741439	SILVER		100.0	n/a	N/A	3.005741439	1.3387	SILVER
ZINC	15.8075077	15.80750769	Biosolids	15	13.43038154	n	9.299741538	9.299741538	SIUs		9.299741538	ZINC		100.0	n/a	N/A	9.299741538	4.142	ZINC
BOD	32409.8397	32409.83371	NPDES Monthly	60	12963.19429	n	3911.364686	3911.364686	SIUs		3911.364686	BOD		100.0	n/a	N/A	3911.364686	1742	BOD
TSS	32874.4609	32874.46296	NPDES Monthly	70	9862.347857	n	3743.957057	3743.957057	SIUs		3743.957057	TSS		100.0	n/a	N/A	3743.957057	1667	TSS
MANGANESE	957.0084	957.0084	WG-CHRONIC	15	813.458024	n	812.7881218	812.7881218	SIUs		812.7881218	MANGANESE		100.0	n/a	N/A	812.7881218	361.992	MANGANESE
IRON	1144.53156	1144.53156	WG-CHRONIC	15	972.851926	n	965.193204	965.193204	SIUs		965.193204	IRON		100.0	n/a	N/A	965.193204	429.869	IRON

70% safety factor for Cd used to balance high literature removal factor used

60 & 70 % used on BOD/TSS to balance between overly restrictive state rating and loose limits produced from straight local limits calcs

Commercial + SIUs

SIUs

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B	C MOST STRINGENT OF DAILY AND MONTHLY DAILY AVERAGE LOCAL LIMIT INFORMATION					H
TABLE 11: Daily LOCAL LIMIT SUMMARY  POLLUTANT	MAIL FOR SIUs LBS/DAY	UNIFORM CONCENTRATION FOR SIUs (MG/L)	MACL FOR COMMERCIAL USERS (LBS/DAY)	PROPOSED DAILY MAXIMUM LIMIT	PROPOSED MACL FOR COMMERCIAL USERS	POLLUTANT
ARSENIC	0.1909	0.0850	N/A	0.0650	N/A	ARSENIC
CADMIUM	0.1435	0.0639	N/A	0.0490	N/A	CADMIUM
CHROMIUM - TOTAL	70.0373	31.1926	N/A	24.0600	N/A	CHROMIUM - TOTAL
CHROMIUM (III)	No Criteria	No Criteria	No Criteria		N/A	CHROMIUM (III)
CHROMIUM (VI)	8.5134	3.7916	N/A	2.9250	N/A	CHROMIUM (VI)
COPPER	2.4495	1.0909	N/A	0.8460	N/A	COPPER
LEAD	1.0575	0.4710	N/A	0.3650	N/A	LEAD
MERCURY	0.0131	0.0058	N/A	0.0045	N/A	MERCURY
MOLYBDENUM	0.5873	0.2616	N/A	0.2020	N/A	MOLYBDENUM
NICKEL	2.5139	1.1196	N/A	0.8640	N/A	NICKEL
SELENIUM	0.5608	0.2497	N/A	0.1920	N/A	SELENIUM
SILVER	3.0057	1.3387	N/A	1.0320	N/A	SILVER
ZINC	9.2997	4.1418	N/A	3.2050	N/A	ZINC
BOD	3911.3647	1742.0077	N/A	1350	N/A	BOD
TSS	3743.9571	1667.4492	N/A	1300	N/A	TSS
MANGANESE	812.7881	361.9921	N/A	N/A	N/A	MANGANESE
IRON	965.1932	429.8689	N/A	N/A	N/A	IRON

**The following tables are where you intend to set Daily and Monthly Local**

**If you are intending to set Daily limits only, use the previous 2 tables.**

## al Limits

Enter Data in Blue Areas Only

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
TABLE 12: DAILY LOCAL LIMITS where also calc monthly	FINAL MAHL FOR DAILY LOCAL LIMITS	FINAL MAHL FOR DAILY LOCAL LIMITS	Name FOR MAHL	SAFETY/ EXPANSION FACTOR % FOR DAILY MAX LIMITS	MAHL WITH SAFETY - EXPANSION FACTOR LBS/DAY	ENTER "Y" FOR a SIU and a Commercial Limit ENTER "N" FOR SIU Limit Only	MAHL minus DOM + COM LOADINGS LBS/DAY	Maximum Allowable Load MAHL LBS/DAY	MAL is for	MASS RESERVED FOR HAULED WASTE LBS/DAY	MAL MINUS THE HAULED WASTE LBS/DAY	POLLUTANT	If you are adopting a Commercial Limit, then these are the loadings from Table 5	If setting SIU and Commercial limits Enter 100% if no Commercial Limit	Percentage of MAL that will be allocated to Commercial Users %	MACL Calculated ALLOCATION FOR COMMERCIAL LBS/DAY	MAL Calculated ALLOCATION FOR SIU LBS/DAY	CALCULATED UNIFORM LOCAL LIMITS FOR SIU MGL	POLLUTANT
ARSENIC	155.0005303	155.0005303	WO-ACUTE	10	139.5004818	y	139.4860259	139.4860259	Commercial+SIUs		139.4860259	ARSENIC	0.00436024	100.0	0.0	Discharge b/c SIU Allocated	139.4860259	62.123	ARSENIC
CADMIUM	5.327423333	5.327423333	WO-ACUTE	10	5.334681	y	5.32714998	5.32714998	Commercial+SIUs		5.32714998	CADMIUM	0.001049172	100.0	0.0	Discharge b/c SIU Allocated	5.32714998	2.373	CADMIUM
CHROMIUM - TOTAL	1792.705844	1792.705844	WO-ACUTE	10	1613.43526	y	1613.413743	1613.413743	Commercial+SIUs		1613.413743	CHROMIUM - TOTAL	0.03005736	100.0	0.0	Discharge b/c SIU Allocated	1613.413743	718.567	CHROMIUM - TOTAL
CHROMIUM (III)	No Criteria	No Criteria	No Criteria	10	No Criteria		No Criteria	No Criteria	Commercial+SIUs		No Criteria	CHROMIUM (III)	Need Commercial Data	100.0	0.0	No Criteria	No Criteria	No Criteria	CHROMIUM (III)
CHROMIUM (VI)	14.7471184	14.7471184	WO-ACUTE	10	13.20800566	y	13.21501356	13.21501356	Commercial+SIUs		13.21501356	CHROMIUM (VI)	0.007089	100.0	0.0	Discharge b/c SIU Allocated	13.21501356	4.896	CHROMIUM (VI)
COPPER	105.868225	105.868225	WO-ACUTE	10	95.3852621	y	95.86823761	95.86823761	Commercial+SIUs		95.86823761	COPPER	0.2268636	100.0	0.0	Discharge b/c SIU Allocated	95.86823761	41.806	COPPER
LEAD	176.6867319	176.6867319	WO-ACUTE	10	159.0180587	y	158.9922381	158.9922381	Commercial+SIUs		158.9922381	LEAD	0.1049172	100.0	0.0	Discharge b/c SIU Allocated	158.9922381	70.811	LEAD
MERCURY	38.79768	38.79768	WO-ACUTE	10	34.91737407	y	34.91737407	34.91737407	Commercial+SIUs		34.91737407	MERCURY	0.00007089	100.0	0.0	Discharge b/c SIU Allocated	34.91737407	15.561	MERCURY
MOLYBDENUM	No Criteria	No Criteria	No Criteria	10	No Criteria		No Criteria	No Criteria	Commercial+SIUs		No Criteria	MOLYBDENUM	0.00905958	100.0	0.0	No Criteria	No Criteria	No Criteria	MOLYBDENUM
NICKEL	586.491596	586.491596	WO-ACUTE	10	527.8424364	y	527.7563676	527.7563676	Commercial+SIUs		527.7563676	NICKEL	0.02013276	100.0	0.0	Discharge b/c SIU Allocated	527.7563676	235.047	NICKEL
SELENIUM	6.354792414	6.354792414	WO-ACUTE	10	5.719313172	y	5.691340812	5.691340812	Commercial+SIUs		5.691340812	SELENIUM	0.00083674	100.0	0.0	Discharge b/c SIU Allocated	5.691340812	2.535	SELENIUM
SILVER	22.30309739	22.30309739	WO-ACUTE	10	20.1145021	y	20.1145021	20.1145021	Commercial+SIUs		20.1145021	SILVER	0.00099246	100.0	0.0	Discharge b/c SIU Allocated	20.1145021	8.957	SILVER
ZINC	220.0555913	220.0555913	WO-ACUTE	10	198.0500321	y	194.4351425	194.4351425	Commercial+SIUs		194.4351425	ZINC	0.5217504	100.0	0.0	Discharge b/c SIU Allocated	194.4351425	86.596	ZINC
BOD	48614.75357	48614.75357	NPDES Daily	10	43753.27821	y	36834.94861	36834.94861	Commercial+SIUs		1134.24	BOD		100.0	0.0	Discharge b/c SIU Allocated	36834.94861	15959.840	BOD
TSS	49311.73929	49311.73929	NPDES Daily	10	44390.56526	y	39087.33416	39087.33416	Commercial+SIUs		525.1596	TSS		100.0	0.0	Discharge b/c SIU Allocated	39087.33416	17408.358	TSS
MANGANESE	1739.73728	1739.73728	WO-ACUTE	10	1739.73728		No Criteria	1739.238209	SIUs		1739.238209	MANGANESE		100.0	0.0	Discharge b/c SIU Allocated	1739.238209	774.406	MANGANESE
IRON	No Criteria	No Criteria	No Criteria	10	No Criteria		No Criteria	No Criteria	SIUs		No Criteria	IRON		100.0	0.0	No Criteria	No Criteria	No Criteria	IRON

Enter Data in Blue Areas Only

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
TABLE 13: MONTHLY LOCAL LIMITS	MONTHLY MAHL LOCAL LIMITS	FINAL MAHL FOR DAILY FOR MAHL LOCAL LIMITS	NAME FROM TABLE 6 FOR MAHL	SAFETY/ EXPANSION FACTOR % FOR DAILY MAX LIMITS	MAHL WITH SAFETY - EXPANSION FACTOR LBS/DAY	ENTER "Y" FOR for a SIU and a Commercial Limit ENTER A "N" FOR SIU Limit Only	MAHL minus DOM + COM LOADING LBS/DAY	Maximum Allowable Load MAL LBS/DAY	MAL is for	POLLUTANT	If you are adopting a Commercial Limit, then these are the loadings from Table 5 lbs/day	Percentage of MAL to allocate to SIUs Only %	Percentage of MAL that will be allocated to Commercial Users %	MACL Calculated ALLOCATION FOR COMMERCIAL FOR LBS/DAY	MAL Calculated ALLOCATION FOR SIUs LBS/DAY	CALCULATED LINFORM LOCAL LIMITS FOR SIUs MGL	POLLUTANT
ARSENIC	0.245638531	0.245638531	Biosolids	10	0.221074678	Y	0.207518842	0.207518842	Commercial+SIUs	ARSENIC	0.004366824	100.0	0.0	Discharge due to SIU Allocation	0.207518842	0.092	ARSENIC
CADMIUM	0.178893	0.178893	Biosolids	10	0.1610037	Y	0.15347268	0.15347268	Commercial+SIUs	CADMIUM	0.001049172	100.0	0.0	Discharge due to SIU Allocation	0.15347268	0.068	CADMIUM
CHROMIUM - TOTAL	233.6295078	233.6295078	WO-CHRONIC	10	210.266557	y	210.2450398	210.2450398	Commercial+SIUs	CHROMIUM - TOTAL	0.03005736	100.0	0.0	Discharge due to SIU Allocation	210.2450398	93.637	CHROMIUM - TOTAL
CHROMIUM (III)	No Criteria	No Criteria	No Criteria	10	No Criteria	y	No Criteria	No Criteria	Commercial+SIUs	CHROMIUM (III)	No Criteria	100.0	0.0	Discharge due to SIU Allocation	No Criteria	No Criteria	CHROMIUM (III)
CHROMIUM (VI)	10.98739568	10.98739568	WO-CHRONIC	10	9.07865712	y	9.02485412	9.02485412	Commercial+SIUs	CHROMIUM (VI)	0.0207099	100.0	0.0	Discharge due to SIU Allocation	9.02485412	4.519	CHROMIUM (VI)
COPPER	4.936633801	4.936633801	Biosolids	10	4.442970421	y	2.92607821	2.92607821	Commercial+SIUs	COPPER	0.2236836	100.0	0.0	Discharge due to SIU Allocation	2.92607821	1.303	COPPER
LEAD	1.397942857	1.397942857	Biosolids	10	1.258148571	y	1.232327931	1.232327931	Commercial+SIUs	LEAD	0.1049172	100.0	0.0	Discharge due to SIU Allocation	1.232327931	0.549	LEAD
MERCURY	0.0161657	0.0161657	WO-CHRONIC	10	0.01454913	y	0.0140112	0.0140112	Commercial+SIUs	MERCURY	0.00007089	100.0	0.0	Discharge due to SIU Allocation	0.0140112	0.006	MERCURY
MOLYBDENUM	0.759227596	0.759227596	Biosolids	10	0.693394028	y	0.633915268	0.633915268	Commercial+SIUs	MOLYBDENUM	0.0065069	100.0	0.0	Discharge due to SIU Allocation	0.633915268	0.292	MOLYBDENUM
NICKEL	3.092464	3.092464	Biosolids	10	2.7742176	y	2.6981498	2.6981498	Commercial+SIUs	NICKEL	0.02013276	100.0	0.0	Discharge due to SIU Allocation	2.6981498	1.197	NICKEL
SELENIUM	0.698971429	0.698971429	Biosolids	10	0.629074286	y	0.601101926	0.601101926	Commercial+SIUs	SELENIUM	0.00538764	100.0	0.0	Discharge due to SIU Allocation	0.601101926	0.268	SELENIUM
SILVER	3.54239687	3.54239687	WO-CHRONIC	10	3.188157183	y	3.183853743	3.183853743	Commercial+SIUs	SILVER	0.00099246	100.0	0.0	Discharge due to SIU Allocation	3.183853743	1.418	SILVER
ZINC	15.80750769	15.80750769	Biosolids	10	14.22675692	y	10.61186732	10.61186732	Commercial+SIUs	ZINC	0.5217504	100.0	0.0	Discharge due to SIU Allocation	10.61186732	4.726	ZINC
DOC	32409.83571	32409.83571	NPDES MonthN	10	29186.85214	y	21250.52254	21250.52254	Commercial+SIUs	DOC	1134.24	100.0	0.0	Discharge due to SIU Allocation	21250.52254	9404.363	DOC
TSS	32874.49286	32874.49286	NPDES MonthN	10	29587.04357	y	24293.81237	24293.81237	Commercial+SIUs	TSS	825.1596	100.0	0.0	Discharge due to SIU Allocation	24293.81237	10819.755	TSS
MANGANESE	957.00944	957.00944	WO-CHRONIC		957.00944		956.510241	956.510241	SIUs	MANGANESE		100.0	0.0	Discharge due to SIU Allocation	956.510241	426.002	MANGANESE
IRON	1144.53156	1144.53156	WO-CHRONIC		1144.53156		1139.926879	1139.926879	SIUs	IRON		100.0	0.0	Discharge due to SIU Allocation	1139.926879	507.690	IRON

B		C		D		E		F		G		H		I		J		K		L		M		N	
TABLE 14: LOCAL LIMIT SUMMARY FOR DAILY AND MONTHLY LL		DAILY MAXIMUM LOCAL LIMIT INFORMATION										MONTHLY AVERAGE LOCAL LIMIT INFORMATION													
POLLUTANT		MAIL FOR SIUs LBS/DAY	UNIFORM CONCENTRATION FOR SIUs (MG/L)	MACL FOR COMMERCIAL USERS (LBS/DAY)	PROPOSED DAILY MAX LIMIT	PROPOSED MACL FOR COMMERCIAL USERS	POLLUTANT		MAIL FOR SIUs LBS/DAY	UNIFORM CONCENTRATION FOR SIUs (MG/L)	MACL FOR COMMERCIAL USERS (LBS/DAY)	PROPOSED MONTHLY AVERAGE LIMIT	PROPOSED MACL FOR COMMERCIAL USERS	POLLUTANT		MAIL FOR SIUs LBS/DAY	UNIFORM CONCENTRATION FOR SIUs (MG/L)	MACL FOR COMMERCIAL USERS (LBS/DAY)	PROPOSED MONTHLY AVERAGE LIMIT	PROPOSED MACL FOR COMMERCIAL USERS	POLLUTANT				
ARSENIC		139.4869	62.1234	0 Discharge b/c SIU Allocation			ARSENIC		0.207519	0.092423	Discharge due to SIU Allocation			ARSENIC		0.207519	0.092423	Discharge due to SIU Allocation			ARSENIC				
CADMIUM		5.3271	2.3726	0 Discharge b/c SIU Allocation			CADMIUM		0.153473	0.068352	Discharge due to SIU Allocation			CADMIUM		0.153473	0.068352	Discharge due to SIU Allocation			CADMIUM				
CHROMIUM - TOTAL		1613.4137	718.5674	0 Discharge b/c SIU Allocation			CHROMIUM - TOTAL		210.245040	93.637005	Discharge due to SIU Allocation			CHROMIUM - TOTAL		210.245040	93.637005	Discharge due to SIU Allocation			CHROMIUM - TOTAL				
CHROMIUM (III)		No Criteria	No Criteria	No Criteria			CHROMIUM (III)		No Criteria	No Criteria	No Criteria			CHROMIUM (III)		No Criteria	No Criteria	No Criteria			CHROMIUM (III)				
CHROMIUM (VI)		13.2150	5.8856	0 Discharge b/c SIU Allocation			CHROMIUM (VI)		9.024864	4.019411	Discharge due to SIU Allocation			CHROMIUM (VI)		9.024864	4.019411	Discharge due to SIU Allocation			CHROMIUM (VI)				
COPPER		93.8683	41.8062	0 Discharge b/c SIU Allocation			COPPER		2.926008	1.303158	Discharge due to SIU Allocation			COPPER		2.926008	1.303158	Discharge due to SIU Allocation			COPPER				
LEAD		158.9922	70.8105	0 Discharge b/c SIU Allocation			LEAD		1.232328	0.548843	Discharge due to SIU Allocation			LEAD		1.232328	0.548843	Discharge due to SIU Allocation			LEAD				
MERCURY		34.9174	15.5512	0 Discharge b/c SIU Allocation			MERCURY		0.014011	0.006240	Discharge due to SIU Allocation			MERCURY		0.014011	0.006240	Discharge due to SIU Allocation			MERCURY				
MOLYBDENUM		No Criteria	No Criteria	No Criteria			MOLYBDENUM		0.633815	0.282283	Discharge due to SIU Allocation			MOLYBDENUM		0.633815	0.282283	Discharge due to SIU Allocation			MOLYBDENUM				
NICKEL		527.7564	235.0473	0 Discharge b/c SIU Allocation			NICKEL		2.688149	1.197223	Discharge due to SIU Allocation			NICKEL		2.688149	1.197223	Discharge due to SIU Allocation			NICKEL				
SELENIUM		5.6913	2.5348	0 Discharge b/c SIU Allocation			SELENIUM		0.601102	0.267713	Discharge due to SIU Allocation			SELENIUM		0.601102	0.267713	Discharge due to SIU Allocation			SELENIUM				
SILVER		20.1115	8.9571	0 Discharge b/c SIU Allocation			SILVER		3.183854	1.417996	Discharge due to SIU Allocation			SILVER		3.183854	1.417996	Discharge due to SIU Allocation			SILVER				
ZINC		194.4351	86.5957	0 Discharge b/c SIU Allocation			ZINC		10.611867	4.726216	Discharge due to SIU Allocation			ZINC		10.611867	4.726216	Discharge due to SIU Allocation			ZINC				
BOD		35834.9486	15959.8403	0 Discharge b/c SIU Allocation			BOD		21250.522543	9464.362560	Discharge due to SIU Allocation			BOD		21250.522543	9464.362560	Discharge due to SIU Allocation			BOD				
TSS		39087.3342	17408.3579	0 Discharge b/c SIU Allocation			TSS		24293.812371	10819.755033	Discharge due to SIU Allocation			TSS		24293.812371	10819.755033	Discharge due to SIU Allocation			TSS				
MANGANESE		1739.2380	774.6059	0 Discharge b/c SIU Allocation			MANGANESE		956.510241	426.001746	Discharge due to SIU Allocation			MANGANESE		956.510241	426.001746	Discharge due to SIU Allocation			MANGANESE				
IRON		No Criteria	No Criteria	No Criteria			IRON		1139.926879	507.690164	Discharge due to SIU Allocation			IRON		1139.926879	507.690164	Discharge due to SIU Allocation			IRON				