Enter Data in Blue Areas Only Values entered in Blue area are for examples only. Update these.

A	B	C
TABLE 1 - GENERAL DATA ENTRY		
POTW NAME:	City of Helena Wastewater Treatment Plant	
POTW HIGHEST MONTHLY AVERAGE FLOW **(MGD)**:	4.39	
DOMESTIC FLOW (**MGD**):	2.67026	
SIU FLOW **(MGD)**:	0.0255	
COMMERCIAL FLOW **(MGD)**:	1.69015	
TRUCKED AND HAULED WASTE FLOW **(MGD)**:	0.00409	
COMMERCIAL FLOW AS A % OF ALL NON-DOMESTIC	99	
TOTAL **COMMERCIAL** FLOW AS A % OF TOTAL POTW FLOW	39	
TOTAL NON-DOMESTIC FLOW AS A % OF TOTAL POTW FLOW	39	
SPECIFIC GRAVITY OF SLUDGE TO DISPOSAL (kg/l)	1.01	
SLUDGE FLOW TO DISPOSAL **(MGD)**:	0.0186	
% SOLIDS TO DISPOSAL **(%)**	1.9	
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)**:	Not Using Table 2	
SITE LIFE **(YEARS)**:	Not Using Table 2	
CHRONIC RECEIVING WATER FLOW **(MGD)**:	0	
ACUTE RECEIVING WATER FLOW **(MGD)**:	0	
HARDNESS FOR METALS CALCULATIONS **(MG/L)**:	104	
IS YOUR RECEIVING WATER A DRINKING WATER SUPPLY **(Y/N)**?:	Y	
APPLICABLE STANDARDS (ACUTE, CHRONIC, BOTH):	B	**A,C OR B**

Spreadsheet

Please email Curt A McCormick at mccormick.curt@epa.gov with any comments if you are in Region 8 Not supported outside of Region 8 Pretretment Programs

See Appendix M of the Strategy

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B	C	D	E	F	G	H	I
Daily TABLE 2: CRITERIA AND STANDARDS						OTHER CRITERIA	
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		POLLUTANT
ARSENIC		0.01		0.0100	0.05		ARSENIC
CADMIUM		0.0020	0.0022	0.0020	0.01		CADMIUM
CHROMIUM - TOTAL		1.8619	1.8619	0.1000	0.1		CHROMIUM - TOTAL
CHROMIUM (III)		1.86	1.8619	0.1000	0.1		CHROMIUM (III)
CHROMIUM (VI)		0.016	0.0160	0.0160			CHROMIUM (VI)
COPPER	0.013	0.015	0.0145	0.0145	1		COPPER
LEAD		0.086	0.0858	0.0150	0.02		LEAD
MERCURY		0.00005	0.0024	0.0001	0		MERCURY
MOLYBDENUM						0.08	MOLYBDENUM
NICKEL		0.485	0.4850	0.4850			NICKEL
SELENIUM		0.02	0.02	0.0200	0.05		SELENIUM
SILVER		0.004	0.0040	0.0043	0.1		SILVER
ZINC	0.11	0.124	0.1239	0.1239	5		ZINC

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B	C	D	E	F	G	H	I	J	K	L
Monthly TABLE 3: CRITERIA AND STANDARDS									OTHER CRITERIA	
	Monthly	STATE	EPA CHRONIC	FINAL		STATE	EPA	Final		
	NPDES PERMIT	CHRONIC	H2O QUAL	CHRONIC		HUMAN HEALTH	HUMAN HEALTH	HUMAN HEALTH	State	
	LIMITS	WQ STDS	CRITERIA	CRITERIA		CRITERIA	CRITERIA	CRITERIA	Chronic Agriculture	
POLLUTANT	MG/L	MG/L	MG/L	MG/L	POLLUTANT	MG/L	MG/L	MG/L	mg/l	POLLUTANT
ARSENIC		0.01		0.0100	ARSENIC	0.01		0.01		ARSENIC
CADMIUM		0.0008	0.000279	0.0008	CADMIUM	0.005		0.005		CADMIUM
CHROMIUM - TOTAL		0.089		0.0890	CHROMIUM - TOTAL	0.1		0.1		CHROMIUM - TOTAL
CHROMIUM (III)		0.089	0.0890	0.0890	CHROMIUM (III)					CHROMIUM (III)
CHROMIUM (VI)		0.011	0.011	0.0110	CHROMIUM (VI)					CHROMIUM (VI)
COPPER	0.009	0.0096	0.0096	0.0096	COPPER	1.3		1.3		COPPER
LEAD		0.003	0.0033	0.0033	LEAD	0.015		0.015		LEAD
MERCURY		0.00091	0.000012	0.0009	MERCURY	0.002		0.002		MERCURY
MOLYBDENUM				0.0800	MOLYBDENUM		0.08	0.08		MOLYBDENUM
NICKEL		0.054	0.0539	0.0539	NICKEL	0.1		0.1		NICKEL
SELENIUM		0.005	0.005	0.0050	SELENIUM	0.05		0.05		SELENIUM
SILVER		0.1		0.1000	SILVER	0.1		0.1		SILVER
ZINC	0.11	0.124	0.1239	0.1239	ZINC	2		2		ZINC

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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	0.005	4.39	where ND, assume 1/2*detection limit	0.183063	0.004	4.39	where ND, assume 1/2*detection limit	0.1464504	ARSENIC
CADMIUM	0.00016	4.39	where ND, assume 1/2*detection limit	0.00585802	0.0001	4.39	where ND, assume 1/2*detection limit	0.00366126	CADMIUM
CHROMIUM - TOTAL	0.0024	4.39	where ND, assume 1/2*detection limit	0.08787024	0.001	4.39	where ND, assume 1/2*detection limit	0.0366126	CHROMIUM - TOTAL
CHROMIUM (III)	0.0022	4.39	where ND, assume 1/2*detection limit	0.08054772	0.0011	4.39	where ND, assume 1/2*detection limit	0.04027386	CHROMIUM (III)
CHROMIUM (VI)	0.001	4.39	where ND, assume 1/2*detection limit	0.0366126	0.0005	4.39	where ND, assume 1/2*detection limit	0.0183063	CHROMIUM (VI)
COPPER	0.09	4.39	where ND, assume 1/2*detection limit	3.295134	0.009	4.39	where ND, assume 1/2*detection limit	0.3295134	COPPER
LEAD	0.006	4.39	where ND, assume 1/2*detection limit	0.2196756	0.00049	4.39	where ND, assume 1/2*detection limit	0.01794017	LEAD
MERCURY	0.000063	4.39	where ND, assume 1/8*detection limit	0.00230659	1.02E-05	4.39	where ND, assume 1/8*detection limit	0.00037345	MERCURY
MOLYBDENUM	0.0057	4.39	where ND, assume 1/2*detection limit	0.20869182	0.0046	4.39	where ND, assume 1/2*detection limit	0.16841796	MOLYBDENUM
NICKEL	0.0084	4.39	where ND, assume 1/2*detection limit	0.30754584	0.006	4.39	where ND, assume 1/2*detection limit	0.2196756	NICKEL
SELENIUM	0.002	4.39	where ND, assume 1/2*detection limit	0.0732252	0.0017	4.39	where ND, assume 1/2*detection limit	0.06224142	SELENIUM
SILVER	0.0001	4.39	where ND, assume 1/2*detection limit	0.00366126	0.00028	4.39	where ND, assume 1/2*detection limit	0.01025153	SILVER
ZINC	0.158	4.39	where ND, assume 1/2*detection limit	5.7847908	0.077	4.39	where ND, assume 1/2*detection limit	2.8191702	ZINC

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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																
POLLUTANT	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	POLLUTANT		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	0.00042534		0.003	0.066809905		0.066809905	ARSENIC		0.005	0.070479255		0.070479255	0.13728916	0.001876083	0.006	ARSENIC
CADMIUM	0.00106335		0.0002	0.004453994		0.004453994	CADMIUM		0.0002	0.00281917		0.00281917	0.007273164	7.50433E-05	0.00028	CADMIUM
CHROMIUM - TOTAL	0.00552942		0.002	0.044539937		0.044539937	CHROMIUM - TOTAL		0.003	0.042287553		0.042287553	0.08682749	0.002455963	0.0008	CHROMIUM - TOTAL
CHROMIUM (III)	0.00404073		0.002	0.044539937		0.044539937	CHROMIUM (III)		0.003	0.042287553		0.042287553	0.08682749	0.002387742	0.0008	CHROMIUM (III)
CHROMIUM (VI)	0.001680093		0.0005	0.011134984		0.011134984	CHROMIUM (VI)		0.0005	0.007047926		0.007047926	0.01818291	0.000211486	0.0005	CHROMIUM (VI)
COPPER	0.07911324		0.076	1.692517598		1.692517598	COPPER		0.077	1.085380527		1.085380527	2.777898125	0.060716868	0.010	COPPER
LEAD	0.00276471		0.002	0.044539937		0.044539937	LEAD		0.003	0.042287553		0.042287553	0.08682749	0.002524184	0.01172	LEAD
MERCURY	1.59503E-05		0.0000075	0.000167025		0.000167025	MERCURY		0.0000018	2.53725E-05		2.53725E-05	0.000192397	4.0578E-05	0.000013	MERCURY
MOLYBDENUM	0.000786879		0.0087	0.193748725		0.193748725	MOLYBDENUM		0.0083	0.116995563		0.116995563	0.310744288	0.003660067	0.0047	MOLYBDENUM
NICKEL	0.02637108		0.01	0.222699684		0.222699684	NICKEL		0.009	0.126862659		0.126862659	0.349562343	0.003172286	0.005	NICKEL
SELENIUM	0.00063801		0.002	0.044539937		0.044539937	SELENIUM		0.003	0.042287553		0.042287553	0.08682749	0.000920986	0.0012	SELENIUM
SILVER	0.000106335		0.00025	0.005567492		0.005567492	SILVER		0.0005	0.007047926		0.007047926	0.012615418	0.000122798	0.00025	SILVER
ZINC	0.09314946		0.138	3.073255639		3.073255639	ZINC		0.217	3.058799667		3.058799667	6.132055306	0.19443042	0.082	ZINC
Lbs/day calculated. Result not rounded to minimize rounding errors																

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B	C	D	E	F	G	H	I	J
TABLE 6: BIOSOLIDS POLLUTANT	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
ARSENIC	9.06		41				41.00	ARSENIC
CADMIUM	1.29		39				39.00	CADMIUM
CHROMIUM - TOTAL	12.5						No Criteria	CHROMIUM - TOTAL
CHROMIUM (III)	12.5						No Criteria	CHROMIUM (III)
CHROMIUM (VI)	0.76						No Criteria	CHROMIUM (VI)
COPPER	568		1500				1500.00	COPPER
LEAD	27		300				300.00	LEAD
MERCURY	0.57		17				17.00	MERCURY
MOLYBDENUM	10.5		75				75.00	MOLYBDENUM
NICKEL	26.1		420				420.00	NICKEL
SELENIUM	2.97		100				100.00	SELENIUM
SILVER	2.47						No Criteria	SILVER
ZINC	585		2800				2800.00	ZINC

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B	C	D	E	F	G	H	I	J	K	L	M	N	O
TABLE 7: REMOVAL EFFICIENCY CALCULATIONS	INFEFF	ADRE	MRE	DECILE	LIT		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 %	
	Influent/Effluent Method	ADRE METHOD	MRE METHOD	DECILE METHOD	LITERATURE	SOURCE OF LITERATURE REMOVAL EFFICIENCY DATA							
Removal Efficiencies must be 1-99%	Removal Efficiency	REMOVAL EFFICIENCY	REMOVAL EFFICIENCY	REMOVAL EFFICIENCY	REMOVAL EFFICIENCY								
POLLUTANT	%	%	%	%	%								POLLUTANT
ARSENIC	20	21.4	24.8	20.0	49	EPA Region 8 Appendix K	INFEFF			N		20	ARSENIC
CADMIUM	38	41.2	34.8	61.8	64	EPA Region 8 Appendix K	LIT			N		64	CADMIUM
CHROMIUM - TOTAL	58	62.3	58.9	75.0	77	EPA Region 8 Appendix K	INFEFF			N		58	CHROMIUM - TOTAL
CHROMIUM (III)	50	63.2	49.6	75.0	77	EPA Region 8 Appendix K	INFEFF			N		50	CHROMIUM (III)
CHROMIUM (VI)	50	84.4	44.2		77	EPA Region 8 Appendix K	INFEFF			N		50	CHROMIUM (VI)
COPPER	90	88.9	89.8	90.7	86	EPA Region 8 Appendix K	INFEFF			N		90	COPPER
LEAD	92	83.6	91.3	88.9	63	EPA Region 8 Appendix K	DECILE			N		89	LEAD
MERCURY	84	75.0	83.9	90.0	62	EPA Region 8 Appendix K	INFEFF			N		84	MERCURY
MOLYBDENUM	19	22.6	19.4	14.3	29	EPA Region 8 Appendix K	INFEFF			N		19	MOLYBDENUM
NICKEL	29	34.5	30.4	46.4	40	EPA Region 8 Appendix K	INFEFF			N		29	NICKEL
SELENIUM	15	21.8	26.4	0.0	48	EPA Region 8 Appendix K	INFEFF			N		15	SELENIUM
SILVER	-180		0.0		77	EPA Region 8 Appendix K	LIT			N		77	SILVER
ZINC	51	47.4	49.0	47.8	73	EPA Region 8 Appendix K	INFEFF			N		51	ZINC

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B	C	D	E	F	G	H	I
DAILY TABLE 8: MAHL CALCULATIONS POLLUTANT	Daily/7 day NPDES LOADING LBS/DAY	ACUTE LOADING LBS/DAY	LOADING FOR MCL LBS/DAY	OTHER CRITERIA FROM Daily Criteria&Stds COLUMN H	MOST STRINGENT CRITERIA LBS/DAY	NAME OF MAHL FOR DAILY MAX LIMITS	POLLUTANT
ARSENIC	999999	0.4576575	2.2882875	999999	0.4576575	WQ-ACUTE	ARSENIC
CADMIUM	999999	0.2008258	0.5085083	999999	0.2008258	WQ-ACUTE	CADMIUM
CHROMIUM - TOTAL	999999	8.787024	8.787024	999999	8.787024	WQ-ACUTE	CHROMIUM - TOTAL
CHROMIUM (III)	999999	7.32252	7.32252	999999	7.32252	WQ-ACUTE	CHROMIUM (III)
CHROMIUM (VI)	999999	1.1716032	999999	999999	1.1716032	WQ-ACUTE	CHROMIUM (VI)
COPPER	4.759638	5.3183726	366.126	999999	4.759638	NPDES Daily	COPPER
LEAD	999999	4.9431953	4.9431953	999999	4.9431953	WQ-ACUTE	LEAD
MERCURY	999999	0.0113068	0.4522733	999999	0.0113068	WQ-ACUTE	MERCURY
MOLYBDENUM	999999	999999	999999	3.629422957	3.629423	OTHER	MOLYBDENUM
NICKEL	999999	24.8601	999999	999999	24.8601	WQ-ACUTE	NICKEL
SELENIUM	999999	0.8614729	2.1536824	999999	0.8614729	WQ-ACUTE	SELENIUM
SILVER	999999	0.6911942	15.918522	999999	0.6911942	WQ-ACUTE	SILVER
ZINC	8.2639869	9.3056262	375.63577	999999	8.2639869	NPDES Daily	ZINC

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B	C	D	E	F	G	H	I	J
MONTHLY TABLE 9: MAHL CALCULATIONS POLLUTANT	Monthly NPDES LOADING LBS/DAY	CHRONIC Toxicity Loading LBS/DAY	LOADING FOR HUMAN HEALTH LBS/DAY	OTHER CRITIERIA FROM Mo Criteria&Stds Column K State Chronic Agriculture mg/l	TABLE 1, 2, 3 OR OTHER SLUDGE LOADING LBS/DAY	MOST STRINGENT CRITERIA LBS/DAY	NAME OF MAHL For Monthly Limits	POLLUTANT
ARSENIC	999999	0.4576575	0.4576575	999999	0.61025006	0.4576575	WQ-CHRONIC	ARSENIC
CADMIUM	999999	0.08291984	0.50850833	999999	0.181400551	0.08291984	WQ-CHRONIC	CADMIUM
CHROMIUM - TOTAL	999999	7.819824	8.787024	999999	999999	7.819824	WQ-CHRONIC	CHROMIUM - TOTAL
CHROMIUM (III)	999999	6.51652	999999	999999	999999	6.51652	WQ-CHRONIC	CHROMIUM (III)
CHROMIUM (VI)	999999	0.8054772	999999	999999	999999	0.8054772	WQ-CHRONIC	CHROMIUM (VI)
COPPER	3.295134	3.53196467	475.9638	999999	4.9613826	3.295134	NPDES Monthly	COPPER
LEAD	999999	1.10215942	4.94319532	999999	1.004667418	1.00466742	Biosolids	LEAD
MERCURY	999999	0.20578435	0.45227329	999999	0.060382281	0.06038228	Biosolids	MERCURY
MOLYBDENUM	999999	3.62942296	3.62942296	999999	1.156904215	1.15690422	Biosolids	MOLYBDENUM
NICKEL	999999	2.76395908	5.125764	999999	4.375939453	2.76395908	WQ-CHRONIC	NICKEL
SELENIUM	999999	0.21536824	2.15368235	999999	1.98455304	0.21536824	WQ-CHRONIC	SELENIUM
SILVER	999999	15.9185217	15.9185217	999999	999999	15.9185217	WQ-CHRONIC	SILVER
ZINC	8.263986857	9.3056262	150.254306	999999	16.25863454	8.26398686	NPDES Monthly	ZINC

8.263986857

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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 POLLUTANT	**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 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**	MASS **RESERVED** FOR HAULED WASTE lbs/d	**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 SIUs **Enter 100% if no Commercial Limit** %	Percentage of MAL that will be allocated to Commercial Users %	**MACL** Calculated ALLOCATION FOR COMMERCIAL LBS/DAY	**MAIL** Calculated ALLOCATION FOR SIUs LBS/DAY	CALCULATED UNIFORM LOCAL LIMITS FOR SIUs MG/L	POLLUTANT
ARSENIC	0.4576575	0.4576575	WQ-ACUTE	15	0.389008875	n	0.251719715	0.251719715	SIUs		0.251719715	ARSENIC		100.0	**n/a**	N/A	0.251719715	1.187	ARSENIC
CADMIUM	0.082919836	0.082919836	WQ-CHRONIC	15	0.070481861	n	0.063208697	0.063208697	SIUs		0.063208697	CADMIUM		100.0	**n/a**	N/A	0.063208697	0.298	CADMIUM
CHROMIUM - TOTAL	7.819824002	7.819824002	WQ-CHRONIC	15	6.646850402	n	6.560022912	6.560022912	SIUs		6.560022912	CHROMIUM - TOTAL		100.0	**n/a**	N/A	6.560022912	30.935	CHROMIUM - TOTAL
CHROMIUM (III)	6.516520002	6.516520002	WQ-CHRONIC	15	5.539042002	n	5.452214512	5.452214512	SIUs		5.452214512	CHROMIUM (III)		100.0	**n/a**	N/A	5.452214512	25.711	CHROMIUM (III)
CHROMIUM (VI)	0.8054772	0.8054772	WQ-CHRONIC	15	0.68465562	n	0.66647271	0.66647271	SIUs		0.66647271	CHROMIUM (VI)		100.0	**n/a**	N/A	0.66647271	3.143	CHROMIUM (VI)
COPPER	3.295134	3.295134	NPDES Monthly	15	2.8008639	n	0.022965775	0.022965775	SIUs		0.022965775	COPPER		100.0	**n/a**	N/A	0.022965775	0.108	COPPER
LEAD	1.004667418	1.004667418	Biosolids	15	0.853967305	n	0.767139816	0.767139816	SIUs		0.767139816	LEAD		100.0	**n/a**	N/A	0.767139816	3.618	LEAD
MERCURY	0.011306832	0.011306832	WQ-ACUTE	15	0.009610808	n	0.00941841	0.00941841	SIUs		0.00941841	MERCURY		100.0	**n/a**	N/A	0.00941841	0.044	MERCURY
MOLYBDENUM	1.156904215	1.156904215	Biosolids	15	0.983368583	n	0.672624295	0.672624295	SIUs		0.672624295	MOLYBDENUM		100.0	**n/a**	N/A	0.672624295	3.172	MOLYBDENUM
NICKEL	2.763959082	2.763959082	WQ-CHRONIC	15	2.349365219	n	1.999802876	1.999802876	SIUs		1.999802876	NICKEL		100.0	**n/a**	N/A	1.999802876	9.430	NICKEL
SELENIUM	0.215368235	0.215368235	WQ-CHRONIC	15	0.183063	n	0.09623551	0.09623551	SIUs		0.09623551	SELENIUM		100.0	**n/a**	N/A	0.09623551	0.454	SELENIUM
SILVER	0.691194154	0.691194154	WQ-ACUTE	15	0.587515031	n	0.574899613	0.574899613	SIUs		0.574899613	SILVER		100.0	**n/a**	N/A	0.574899613	2.711	SILVER
ZINC	8.263986857	8.263986857	NPDES Daily	15	7.024388829	n	0.892333522	0.892333522	SIUs		0.892333522	ZINC		100.0	**n/a**	N/A	0.892333522	4.208	ZINC

Commercial + SIUs
SIUs

Enter Data in Blue Areas Only

B	C	D	E	F	G	H
TABLE 11: Daily LOCAL LIMIT SUMMARY	MOST STRINGENT OF DAILY AND MONTHLY DAILY AVERAGE LOCAL LIMIT INFORMATION					
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	0.2517	1.1870	N/A	1.1870		ARSENIC
CADMIUM	0.0632	0.2981	N/A	0.2981		CADMIUM
CHROMIUM - TOTAL	6.5600	30.9350	N/A	30.9350		CHROMIUM - TOTAL
CHROMIUM (III)	5.4522	25.7110	N/A	25.7110		CHROMIUM (III)
CHROMIUM (VI)	0.6665	3.1429	N/A	3.1429		CHROMIUM (VI)
COPPER	0.0230	0.1083	N/A	0.1083		COPPER
LEAD	0.7671	3.6176	N/A	3.6176		LEAD
MERCURY	0.0094	0.0444	N/A	0.0444		MERCURY
MOLYBDENUM	0.6726	3.1719	N/A	3.1719		MOLYBDENUM
NICKEL	1.9998	9.4305	N/A	9.4305		NICKEL
SELENIUM	0.0962	0.4538	N/A	0.4538		SELENIUM
SILVER	0.5749	2.7110	N/A	2.7110		SILVER
ZINC	0.8923	4.2080	N/A	4.2080		ZINC

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

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

Enter Data in Blue Areas Only

1000000

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 POLLUTANT	Daily 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 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**	MASS **RESERVED** FOR HAULED WASTE lbs/d	**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 SIUs **Enter 100% if no Commercial Limit** %	Percentage of MAL that will be allocated to Commercial Users %	**MACL** Calculated ALLOCATION FOR COMMERCIAL LBS/DAY	**MAIL** Calculated ALLOCATION FOR SIUs LBS/DAY	CALCULATED UNIFORM LOCAL LIMITS FOR SIUs MG/L	POLLUTANT
ARSENIC	0.4576575	0.4576575	WQ-ACUTE	20	0.366126	n	0.22883684	0.22883684	SIUs	0.000	0.22883684	ARSENIC		100.0	n/a	n/a	0.22883684	1.079	ARSENIC
CADMIUM	0.200825815	0.200825815	WQ-ACUTE	20	0.160660652	n	0.153387488	0.153387488	SIUs	0.000	0.153387488	CADMIUM		100.0	n/a	n/a	0.153387488	0.723	CADMIUM
CHROMIUM - TOTAL	8.787024	8.787024	WQ-ACUTE	90	0.8787024	n	0.79187491	0.79187491	SIUs	0.000	0.79187491	CHROMIUM - TOTAL		100.0	n/a	n/a	0.79187491	3.734	CHROMIUM - TOTAL
CHROMIUM (III)	7.32252	7.32252	WQ-ACUTE	90	0.732252	n	0.64542451	0.64542451	SIUs	0.000	0.64542451	CHROMIUM (III)		100.0	n/a	n/a	0.64542451	3.044	CHROMIUM (III)
CHROMIUM (VI)	1.1716032	1.1716032	WQ-ACUTE	70	0.35148096	n	0.33329805	0.33329805	SIUs	0.000	0.33329805	CHROMIUM (VI)		100.0	n/a	n/a	0.33329805	1.572	CHROMIUM (VI)
COPPER	4.759638	4.759638	NPDES Daily	20	3.8077104	n	1.029812275	1.029812275	SIUs	0.030	1	COPPER		100.0	n/a	n/a	1	4.716	COPPER
LEAD	4.94319532	4.94319532	WQ-ACUTE	70	1.482958596	n	1.396131106	1.396131106	SIUs	0.396	1	LEAD		100.0	n/a	n/a	1	4.716	LEAD
MERCURY	0.011306832	0.011306832	WQ-ACUTE	20	0.009045466	n	0.008853069	0.008853069	SIUs	0.000	0.008853069	MERCURY		100.0	n/a	n/a	0.008853069	0.0417	MERCURY
MOLYBDENUM	3.629422957	3.629422957	OTHER	70	1.088826887	n	0.778082599	0.778082599	SIUs	0.000	0.778082599	MOLYBDENUM		100.0	n/a	n/a	0.778082599	3.669	MOLYBDENUM
NICKEL	24.86009983	24.86009983	WQ-ACUTE	70	7.458029949	n	7.108467606	7.108467606	SIUs	6.108	1	NICKEL		100.0	n/a	n/a	1	4.716	NICKEL
SELENIUM	0.861472941	0.861472941	WQ-ACUTE	20	0.689178353	n	0.602350863	0.602350863	SIUs	0.000	0.602350863	SELENIUM		100.0	n/a	n/a	0.602350863	2.841	SELENIUM
SILVER	0.691194154	0.691194154	WQ-ACUTE	70	0.207358246	n	0.194742829	0.194742829	SIUs	0.000	0.194742829	SILVER		100.0	n/a	n/a	0.194742829	0.918	SILVER
ZINC	8.263986857	8.263986857	NPDES Daily	20	6.611189486	n	0.47913418	0.47913418	SIUs	0.000	0.47913418	ZINC		100.0	n/a	n/a	0.47913418	2.259	ZINC

Commercial+SIUs
SIUs

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 POLLUTANT	MONTHLY MAHL	FINAL MAHL FOR Monthly 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 LBS/DAY	**MAIL** Calculated ALLOCATION FOR SIUs LBS/DAY	CALCULATED UNIFORM LOCAL LIMITS FOR SIUs MG/L	POLLUTANT
ARSENIC	0.4576575	0.4576575	WQ-CHRONIC	20	0.366126	n	0.22883684	0.22883684	SIUs	ARSENIC		100.0	n/a	0 Discharge due to SIU Allocation	0.22883684	1.079	ARSENIC
CADMIUM	0.082919836	0.082919836	WQ-CHRONIC	20	0.06633587	n	0.05906271	0.059062705	SIUs	CADMIUM		100.0	n/a	0 Discharge due to SIU Allocation	0.05906271	0.279	CADMIUM
CHROMIUM - TOTAL	7.819824002	7.819824002	WQ-CHRONIC	90	0.7819824	n	0.69515491	0.69515491	SIUs	CHROMIUM - TOTAL		100.0	n/a	0 Discharge due to SIU Allocation	0.69515491	3.278	CHROMIUM - TOTAL
CHROMIUM (III)	6.516520002	6.516520002	WQ-CHRONIC	90	0.651652	n	0.56482451	0.56482451	SIUs	CHROMIUM (III)		100.0	n/a	0 Discharge due to SIU Allocation	0.56482451	2.664	CHROMIUM (III)
CHROMIUM (VI)	0.8054772	0.8054772	WQ-CHRONIC	70	0.24164316	n	0.22346025	0.22346025	SIUs	CHROMIUM (VI)		100.0	n/a	0 Discharge due to SIU Allocation	0.22346025	1.054	CHROMIUM (VI)
COPPER	3.295134	3.295134	NPDES Monthly	15	2.8008639	n	0.02296577	0.022965775	SIUs	COPPER		100.0	n/a	0 Discharge due to SIU Allocation	0.02296577	0.108	COPPER
LEAD	1.004667418	1.004667418	Biosolids	70	0.30140023	n	0.21457274	0.214572736	SIUs	LEAD		100.0	n/a	0 Discharge due to SIU Allocation	0.21457274	1.012	LEAD
MERCURY	0.060382281	0.060382281	Biosolids	20	0.04830583	n	0.04811343	0.048113428	SIUs	MERCURY		100.0	n/a	0 Discharge due to SIU Allocation	0.04811343	0.227	MERCURY
MOLYBDENUM	1.156904215	1.156904215	Biosolids	70	0.34707126	n	0.93157721	0.931577209	SIUs	MOLYBDENUM		100.0	n/a	0 Discharge due to SIU Allocation	0.93157721	4.393	MOLYBDENUM
NICKEL	2.763959082	2.763959082	WQ-CHRONIC	70	0.82918772	n	0.47962538	0.479625382	SIUs	NICKEL		100.0	n/a	0 Discharge due to SIU Allocation	0.47962538	2.262	NICKEL
SELENIUM	0.215368235	0.215368235	WQ-CHRONIC	20	0.17229459	n	0.0854671	0.085467098	SIUs	SELENIUM		100.0	n/a	0 Discharge due to SIU Allocation	0.0854671	0.403	SELENIUM
SILVER	15.91852174	15.91852174	WQ-CHRONIC	90	1.59185217	n	1.57923676	1.579236756	SIUs	SILVER		100.0	n/a	0 Discharge due to SIU Allocation	1.57923676	7.447	SILVER
ZINC	8.263986857	8.263986857	NPDES Monthly	20	6.61118949	n	0.47913418	0.47913418	SIUs	ZINC		100.0	n/a	0 Discharge due to SIU Allocation	0.47913418	2.259	ZINC

Commercial+SIUs
SIUs

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USE COLUMNS C-G, IF YOU ARE SETTING DAILY AND MONTHLY LIMITS

USE COLUMNS I-M, IF YOU ARE SETTING DAILY AND MONTHLY LIMITS

B	C	D	E	F	G	H	I	J	K	L	M	N
TABLE 14: LOCAL LIMIT SUMMARY FOR DAILY AND MONTHLY LL	DAILY MAXIUM 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
				mg/L						mg/L		
ARSENIC	0.2288	1.0791	n/a	1.07	n/a	ARSENIC	0.228837	1.079124	0 Discharge due to SIU Allocation	1.07	n/a	ARSENIC
CADMIUM	0.1534	0.7233	n/a	0.72	n/a	CADMIUM	0.059063	0.278521	0 Discharge due to SIU Allocation	0.27	n/a	CADMIUM
CHROMIUM - TOTAL	0.7919	3.7342	n/a	3.73	n/a	CHROMIUM - TOTAL	0.695155	3.278136	0 Discharge due to SIU Allocation	3.27	n/a	CHROMIUM - TOTAL
CHROMIUM (III)	0.6454	3.0436	n/a	3.04	n/a	CHROMIUM (III)	0.564825	2.663538	0 Discharge due to SIU Allocation	2.66	n/a	CHROMIUM (III)
CHROMIUM (VI)	0.3333	1.5717	n/a	1.57	n/a	CHROMIUM (VI)	0.223460	1.053769	0 Discharge due to SIU Allocation	1.05	n/a	CHROMIUM (VI)
COPPER	1.0000	4.7157	n/a	4.71	n/a	COPPER	0.022966	0.108299	0 Discharge due to SIU Allocation	0.022 lb/day	n/a	COPPER
LEAD	1.0000	4.7157	n/a	4.71	n/a	LEAD	0.214573	1.011859	0 Discharge due to SIU Allocation	1.01	n/a	LEAD
MERCURY	0.0089	0.0417	n/a	0.041	n/a	MERCURY	0.048113	0.226888	0 Discharge due to SIU Allocation	0.22	n/a	MERCURY
MOLYBDENUM	0.7781	3.6692	n/a	3.66	n/a	MOLYBDENUM	0.931577	4.393030	0 Discharge due to SIU Allocation	4.39	n/a	MOLYBDENUM
NICKEL	1.0000	4.7157	n/a	4.71	n/a	NICKEL	0.479625	2.261765	0 Discharge due to SIU Allocation	2.26	n/a	NICKEL
SELENIUM	0.6024	2.8405	n/a	2.84	n/a	SELENIUM	0.085467	0.403036	0 Discharge due to SIU Allocation	0.40	n/a	SELENIUM
SILVER	0.1947	0.9183	n/a	0.91	n/a	SILVER	1.579237	7.447193	0 Discharge due to SIU Allocation	7.44	n/a	SILVER
ZINC	0.4791	2.2594	n/a	2.25	n/a	ZINC	0.479134	2.259449	0 Discharge due to SIU Allocation	2.25	n/a	ZINC