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)**:	134	
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 Pretreatment 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		0.0025	0.0029	0.0025	0.01		CADMIUM
CHROMIUM - TOTAL		2.2914	2.2914	0.1000	0.1		CHROMIUM - TOTAL
CHROMIUM (III)		2.29	2.2914	0.1000	0.1		CHROMIUM (III)
CHROMIUM (VI)		0.016	0.0160	0.0160			CHROMIUM (VI)
COPPER	0.013	0.018	0.0184	0.0184	1		COPPER
LEAD		0.119	0.1185	0.0150	0.02		LEAD
MERCURY		0.00005	0.0024	0.0001	0		MERCURY
MOLYBDENUM						0.08	MOLYBDENUM
NICKEL		0.601	0.6010	0.6010			NICKEL
SELENIUM		0.02	0.02	0.0200	0.05		SELENIUM
SILVER		0.007	0.0063	0.0067	0.1		SILVER
ZINC	0.11	0.154	0.1535	0.1535	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 NPDES PERMIT LIMITS	STATE CHRONIC WQ STDS	EPA CHRONIC H2O QUAL CRITERIA	FINAL CHRONIC CRITERIA		STATE HUMAN HEALTH CRITERIA	EPA HUMAN HEALTH CRITERIA	Final HUMAN HEALTH CRITERIA	State 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		0.0010	0.000336	0.0010	CADMIUM	0.005		0.005		CADMIUM
CHROMIUM - TOTAL		0.110		0.1095	CHROMIUM - TOTAL	0.1		0.1		CHROMIUM - TOTAL
CHROMIUM (III)		0.110	0.1095	0.1095	CHROMIUM (III)					CHROMIUM (III)
CHROMIUM (VI)		0.011	0.011	0.0110	CHROMIUM (VI)					CHROMIUM (VI)
COPPER	0.009	0.0120	0.0120	0.0120	COPPER	1.3		1.3		COPPER
LEAD		0.005	0.0046	0.0046	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		0.067	0.0668	0.0668	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	0.154	0.1535	0.1535	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		0.008	0.178159747		0.178159747	ARSENIC		0.008	0.112766808		0.112766808	0.290926555	0.001876083	0.006	ARSENIC
CADMIUM	0.00106335		0.0005	0.011134984		0.011134984	CADMIUM		0.0004	0.00563834		0.00563834	0.016773325	7.50433E-05	0.00028	CADMIUM
CHROMIUM - TOTAL	0.00552942		0.003	0.066809905		0.066809905	CHROMIUM - TOTAL		0.003	0.042287553		0.042287553	0.109097458	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		0.001	0.022269968		0.022269968	CHROMIUM (VI)		0.001	0.014095851		0.014095851	0.036365819	0.000211486	0.0005	CHROMIUM (VI)
COPPER	0.07911324		0.103	2.293806745		2.293806745	COPPER		0.059	0.831655209		0.831655209	3.125461954	0.060716868	0.010	COPPER
LEAD	0.00276471		0.009	0.200429716		0.200429716	LEAD		0.003	0.042287553		0.042287553	0.242717269	0.002524184	0.01172	LEAD
MERCURY	1.59503E-05		0.00002	0.000445399		0.000445399	MERCURY		0.00002	0.000281917		0.000281917	0.000727316	4.0578E-05	0.000013	MERCURY
MOLYBDENUM	0.000786879		0.007	0.155889779		0.155889779	MOLYBDENUM		0.007	0.098670957		0.098670957	0.254560736	0.003660067	0.0047	MOLYBDENUM
NICKEL	0.02637108		0.011	0.244969652		0.244969652	NICKEL		0.01	0.14095851		0.14095851	0.385928162	0.003172286	0.005	NICKEL
SELENIUM	0.00063801		0.002	0.044539937		0.044539937	SELENIUM		0.002	0.028191702		0.028191702	0.072731639	0.000920986	0.0012	SELENIUM
SILVER	0.000106335		0.0002	0.004453994		0.004453994	SILVER		0.0003	0.004228755		0.004228755	0.008682749	0.000122798	0.00025	SILVER
ZINC	0.09314946		0.216	4.810313174		4.810313174	ZINC		0.152	2.142569352		2.142569352	6.952882526	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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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	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	DECILE			N		91	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	0.2573763	0.5085083	999999	0.2573763	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	5.1178903	7.2611456	393.68387	999999	5.1178903	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	30.80515	999999	999999	30.80515	WQ-ACUTE	NICKEL
SELENIUM	999999	0.8614729	2.1536824	999999	0.8614729	WQ-ACUTE	SELENIUM
SILVER	999999	1.0688653	15.918522	999999	1.0688653	WQ-ACUTE	SILVER
ZINC	8.2639869	11.534776	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	0.10149916	0.50850833	999999	0.181400551	0.10149916	WQ-CHRONIC	CADMIUM
CHROMIUM - TOTAL	999999	9.62377595	8.787024	999999	999999	8.787024	HH	CHROMIUM - TOTAL
CHROMIUM (III)	999999	8.01981329	999999	999999	999999	8.01981329	WQ-CHRONIC	CHROMIUM (III)
CHROMIUM (VI)	999999	0.8054772	999999	999999	999999	0.8054772	WQ-CHRONIC	CHROMIUM (VI)
COPPER	3.543154839	4.71617014	511.789032	999999	4.923091885	3.54315484	NPDES Monthly	COPPER
LEAD	999999	1.52182734	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	3.42493287	5.125764	999999	4.375939453	3.42493287	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	11.5347756	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	20	0.366126	n	0.075199445	0.075199445	0		0.075199445	ARSENIC		100.0	**n/a**	N/A	0.07519944	0.35462	ARSENIC
CADMIUM	0.10149916	0.101499158	WQ-CHRONIC	20	0.08119933	n	0.064426002	0.064426002	0		0.064426002	CADMIUM		100.0	**n/a**	N/A	0.064426	0.30381	CADMIUM
CHROMIUM - TOTAL	8.787024	8.787024	WQ-ACUTE	90	0.8787024	n	0.769604942	0.769604942	0		0.769604942	CHROMIUM - TOTAL		100.0	**n/a**	N/A	0.76960494	3.62922	CHROMIUM - TOTAL
CHROMIUM (III)	7.32252	7.32252	WQ-ACUTE	90	0.732252	n	0.64542451	0.64542451	0		0.64542451	CHROMIUM (III)		100.0	**n/a**	N/A	0.64542451	3.04362	CHROMIUM (III)
CHROMIUM (VI)	0.8054772	0.8054772	WQ-CHRONIC	70	0.24164316	n	0.205277341	0.205277341	0		0.205277341	CHROMIUM (VI)		100.0	**n/a**	N/A	0.20527734	0.96802	CHROMIUM (VI)
COPPER	3.54315484	3.543154839	NPDES Monthly	15	3.01168161	n	-0.11378034	0 Discharge	0		0 Discharge	COPPER		100.0	**n/a**	N/A	0 Discharge	0 Discharge	COPPER
LEAD	1.00466742	1.004667418	Biosolids	70	0.30140023	n	0.058682957	0.058682957	0		0.058682957	LEAD		100.0	**n/a**	N/A	0.05868296	0.27673	LEAD
MERCURY	0.01130683	0.011306832	WQ-ACUTE	20	0.00904547	n	0.008318149	0.008318149	0		0.008318149	MERCURY		100.0	**n/a**	N/A	0.00831815	0.03923	MERCURY
MOLYBDENUM	1.15690422	1.156904215	Biosolids	20	0.92552337	n	0.670962636	0.670962636	0		0.670962636	MOLYBDENUM		100.0	**n/a**	N/A	0.67096264	3.16405	MOLYBDENUM
NICKEL	3.42493287	3.424932871	WQ-CHRONIC	70	1.02747986	n	0.641551699	0.641551699	0		0.641551699	NICKEL		100.0	**n/a**	N/A	0.6415517	3.02536	NICKEL
SELENIUM	0.21536824	0.215368235	WQ-CHRONIC	20	0.17229459	n	0.099562949	0.099562949	0		0.099562949	SELENIUM		100.0	**n/a**	N/A	0.09956295	0.46951	SELENIUM
SILVER	1.06886527	1.06886527	WQ-ACUTE	70	0.32065958	n	0.311976832	0.311976832	0		0.311976832	SILVER		100.0	**n/a**	N/A	0.31197683	1.47119	SILVER
ZINC	8.26398686	8.263986857	NPDES Daily	20	6.61118949	n	-0.34169304	0 Discharge	0		0 Discharge	ZINC		100.0	**n/a**	N/A	0 Discharge	0 Discharge	ZINC

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	0.0752	0.3546	N/A	0.3546		ARSENIC
CADMIUM	0.0644	0.3038	N/A	0.3038		CADMIUM
CHROMIUM - TOTAL	0.7696	3.6292	N/A	3.6292		CHROMIUM - TOTAL
CHROMIUM (III)	0.6454	3.0436	N/A	3.0436		CHROMIUM (III)
CHROMIUM (VI)	0.2053	0.9680	N/A	0.9680		CHROMIUM (VI)
COPPER	0 Discharge	0 Discharge	N/A	0 Discharge		COPPER
LEAD	0.0587	0.2767	N/A	0.2767		LEAD
MERCURY	0.0083	0.0392	N/A	0.0392		MERCURY
MOLYBDENUM	0.6710	3.1641	N/A	3.1641		MOLYBDENUM
NICKEL	0.6416	3.0254	N/A	3.0254		NICKEL
SELENIUM	0.0996	0.4695	N/A	0.4695		SELENIUM
SILVER	0.3120	1.4712	N/A	1.4712		SILVER
ZINC	0 Discharge	0 Discharge	N/A	0 Discharge		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

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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 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	0.075199445	0.075199445	SIUs	0.000	0.075199445	ARSENIC		100.0	n/a	n/a	0.075199445	0.355	ARSENIC
CADMIUM	0.257376263	0.257376263	WQ-ACUTE	20	0.20590101	n	0.189127686	0.189127686	SIUs	0.000	0.189127686	CADMIUM		100.0	n/a	n/a	0.189127686	0.892	CADMIUM
CHROMIUM - TOTAL	8.787024	8.787024	WQ-ACUTE	90	0.8787024	n	0.769604942	0.769604942	SIUs	0.000	0.769604942	CHROMIUM - TOTAL		100.0	n/a	n/a	0.769604942	3.629	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	0.315115141	0.315115141	SIUs	0.000	0.315115141	CHROMIUM (VI)		100.0	n/a	n/a	0.315115141	1.486	CHROMIUM (VI)
COPPER	5.117890323	5.117890323	NPDES Daily	15	4.350206774	n	1.22474482	1.22474482	SIUs	0.225	1	COPPER		100.0	n/a	n/a	1	4.716	COPPER
LEAD	4.94319532	4.94319532	WQ-ACUTE	50	2.47159766	n	2.228880391	2.228880391	SIUs	1.229	1	LEAD		100.0	n/a	n/a	1	4.716	LEAD
MERCURY	0.011306832	0.011306832	WQ-ACUTE	20	0.009045466	n	0.008318149	0.008318149	SIUs	0.000	0.008318149	MERCURY		100.0	n/a	n/a	0.008318149	0.0392	MERCURY
MOLYBDENUM	3.629422957	3.629422957	OTHER	70	1.088826887	n	0.834266151	0.834266151	SIUs	0.000	0.834266151	MOLYBDENUM		100.0	n/a	n/a	0.834266151	3.934	MOLYBDENUM
NICKEL	30.80514963	30.80514963	WQ-ACUTE	70	9.24154489	n	8.855616727	8.855616727	SIUs	7.856	1	NICKEL		100.0	n/a	n/a	1	4.716	NICKEL
SELENIUM	0.861472941	0.861472941	WQ-ACUTE	20	0.689178353	n	0.616446714	0.616446714	SIUs	0.000	0.616446714	SELENIUM		100.0	n/a	n/a	0.616446714	2.907	SELENIUM
SILVER	1.06886527	1.06886527	WQ-ACUTE	70	0.320659581	n	0.311976832	0.311976832	SIUs	0.000	0.311976832	SILVER		100.0	n/a	n/a	0.311976832	1.471	SILVER
ZINC	8.263986857	8.263986857	NPDES Daily	15	7.024388829	n	0.071506302	0.071506302	SIUs	0.000	0.071506302	ZINC		100.0	n/a	n/a	0.071506302	0.3372	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	0.07519944	0.075199445	SIUs	ARSENIC		100.0	n/a	0 Discharge due to SIU Allocation	0.07519944	0.355	ARSENIC
CADMIUM	0.101499158	0.101499158	WQ-CHRONIC	20	0.08119933	n	0.064426	0.064426002	SIUs	CADMIUM		100.0	n/a	0 Discharge due to SIU Allocation	0.064426	0.304	CADMIUM
CHROMIUM - TOTAL	8.787024	8.787024	HH	90	0.8787024	n	0.76960494	0.769604942	SIUs	CHROMIUM - TOTAL		100.0	n/a	0 Discharge due to SIU Allocation	0.76960494	3.629	CHROMIUM - TOTAL
CHROMIUM (III)	8.019813291	8.019813291	WQ-CHRONIC	90	0.80198133	n	0.71515384	0.715153839	SIUs	CHROMIUM (III)		100.0	n/a	0 Discharge due to SIU Allocation	0.71515384	3.372	CHROMIUM (III)
CHROMIUM (VI)	0.8054772	0.8054772	WQ-CHRONIC	70	0.24164316	n	0.20527734	0.205277341	SIUs	CHROMIUM (VI)		100.0	n/a	0 Discharge due to SIU Allocation	0.20527734	0.968	CHROMIUM (VI)
COPPER	3.543154839	3.543154839	NPDES Monthly	11	3.15340781	n	0.02794585	0.027945852	SIUs	COPPER		100.0	n/a	0 Discharge due to SIU Allocation	0.02794585	0.132	COPPER
LEAD	1.004667418	1.004667418	Biosolids	50	0.50233371	n	0.25961644	0.25961644	SIUs	LEAD		100.0	n/a	0 Discharge due to SIU Allocation	0.25961644	1.224	LEAD
MERCURY	0.060382281	0.060382281	Biosolids	20	0.04830583	n	0.04757851	0.047578509	SIUs	MERCURY		100.0	n/a	0 Discharge due to SIU Allocation	0.04757851	0.224	MERCURY
MOLYBDENUM	1.156904215	1.156904215	Biosolids	20	0.92552337	n	0.67096264	0.670962636	SIUs	MOLYBDENUM		100.0	n/a	0 Discharge due to SIU Allocation	0.67096264	3.164	MOLYBDENUM
NICKEL	3.424932871	3.424932871	WQ-CHRONIC	70	1.02747986	n	0.6415517	0.641551699	SIUs	NICKEL		100.0	n/a	0 Discharge due to SIU Allocation	0.6415517	3.025	NICKEL
SELENIUM	0.215368235	0.215368235	WQ-CHRONIC	20	0.17229459	n	0.09956295	0.099562949	SIUs	SELENIUM		100.0	n/a	0 Discharge due to SIU Allocation	0.09956295	0.470	SELENIUM
SILVER	15.91852174	15.91852174	WQ-CHRONIC	90	1.59185217	n	1.58316942	1.583169425	SIUs	SILVER		100.0	n/a	0 Discharge due to SIU Allocation	1.58316942	7.466	SILVER
ZINC	8.263986857	8.263986857	NPDES Monthly	15	7.02438883	n	0.0715063	0.071506302	SIUs	ZINC		100.0	n/a	0 Discharge due to SIU Allocation	0.0715063	0.337	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	0.0752	0.3546	n/a	0.35	n/a	ARSENIC	0.075199	0.354617	0 Discharge due to SIU Allocation	0.35	n/a	ARSENIC
CADMIUM	0.1891	0.8919	n/a	0.89	n/a	CADMIUM	0.064426	0.303813	0 Discharge due to SIU Allocation	0.30	n/a	CADMIUM
CHROMIUM - TOTAL	0.7696	3.6292	n/a	3.62	n/a	CHROMIUM - TOTAL	0.769605	3.629219	0 Discharge due to SIU Allocation	3.62	n/a	CHROMIUM - TOTAL
CHROMIUM (III)	0.6454	3.0436	n/a	3.04	n/a	CHROMIUM (III)	0.715154	3.372445	0 Discharge due to SIU Allocation	3.37	n/a	CHROMIUM (III)
CHROMIUM (VI)	0.3151	1.4860	n/a	1.48	n/a	CHROMIUM (VI)	0.205277	0.968025	0 Discharge due to SIU Allocation	0.96	n/a	CHROMIUM (VI)
COPPER	1.0000	4.7157	n/a	4.71	n/a	COPPER	0.027946	0.131784	0 Discharge due to SIU Allocation	0.027 lb/day	n/a	COPPER
LEAD	1.0000	4.7157	n/a	4.71	n/a	LEAD	0.259616	1.224271	0 Discharge due to SIU Allocation	1.22	n/a	LEAD
MERCURY	0.0083	0.0392	n/a	0.039	n/a	MERCURY	0.047579	0.224366	0 Discharge due to SIU Allocation	0.22	n/a	MERCURY
MOLYBDENUM	0.8343	3.9341	n/a	3.93	n/a	MOLYBDENUM	0.670963	3.164052	0 Discharge due to SIU Allocation	3.16	n/a	MOLYBDENUM
NICKEL	1.0000	4.7157	n/a	4.71	n/a	NICKEL	0.641552	3.025360	0 Discharge due to SIU Allocation	3.02	n/a	NICKEL
SELENIUM	0.6164	2.9070	n/a	2.90	n/a	SELENIUM	0.099563	0.469508	0 Discharge due to SIU Allocation	0.46	n/a	SELENIUM
SILVER	0.3120	1.4712	n/a	1.47	n/a	SILVER	1.583169	7.465738	0 Discharge due to SIU Allocation	7.46	n/a	SILVER
ZINC	0.0715	0.3372	n/a	0.33	n/a	ZINC	0.071506	0.337202	0 Discharge due to SIU Allocation	0.33	n/a	ZINC