Fact Sheet Attachment 4

City of American Canyon NPDES Permit Reissuance
WQBEL Calculation

PRIORITY POLLUTANTS	**Copper**	**Mercury**	**Nickle**	**Selenium**	**Zinc**	**Cyanide**	**Cyanide (SSO)**	**TCDD TEQ**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**pg/L**
Basis and Criteria type	CTR SW	BP SW (4-d, 1-hr avg)	BP SW	NTR	BP SW	NTR SW	NTR SW	CTR,hh
Lowest WQO	3.70	0.025	8.30	5.00	86.00	1.00	2.90	0.014
Translators								
Dilution Factor (D) (if applicable)	0	0	0	0	0	0	3.5	0
No. of samples per month	4	4	4	4	4	4	4	4
Aquatic life criteria analysis required? (Y/N)	Y	Y	Y	Y	Y	Y	Y	N
HH criteria analysis required? (Y/N)	N	Y	Y	N	N	Y	Y	Y
Applicable Acute WQO	5.80	2.1	75	20	95	1	9.4	na
Applicable Chronic WQO	3.70	0.025	8.3	5	86	1	2.9	na
HH criteria		0.051	4600			220000	220000	0.014
Background (max conc for Aq Life calc)	32	0.015	68.7	19	10	0.363	0.363	
Background (avg conc for HH calc)		0.00700	7.50			0.21	0.21	
Is the pollutant Bioaccumulative(Y/N)? (e.g., Hg)	N	Y	N	Y	N	N	N	Y
ECA acute	5.8	2.1	75	20	95	1	41.0295	
ECA chronic	3.7	0.025	8.3	5	86	1	11.7795	
ECA HH		0.051	4600			220000	989999.2685	0.014
No. of data points <10 or at least 80% of data reported non detect? (Y/N)	N	N	N	N	N	N	N	Y
Avg of effluent data points	3.174	0.0021	5.7864	1.0504	58.4706	2.0770	2.0770	
Std Dev of effluent data points	1.374	0.0011	3.8772	0.5722	23.0693	1.2508	1.2508	
CV calculated	0.43	0.50	0.67	0.54	0.39	0.60	0.60	N/A
CV (Selected) - Final	0.43	0.50	0.67	0.54	0.39	0.60	0.60	0.6
ECA acute mult99	0.42	0.37	0.29	0.35	0.44	0.32	0.32	
ECA chronic mult99	0.62	0.58	0.49	0.56	0.65	0.53	0.53	
LTA acute	2.41	0.79	21.90	6.96	42.16	0.32	13.13	
LTA chronic	2.30	0.015	4.10	2.78	55.64	0.53	6.20	
minimum of LTAs	2.30	0.015	4.10	2.78	42.16	0.32	6.20	
AMEL mult95	1.39	1.45	1.62	1.50	1.35	1.55	1.55	1.55
MDEL mult99	2.41	2.67	3.42	2.87	2.25	3.12	3.12	3.11
AMEL (aq life)	3.20	0.021	6.65	4.17	57.04	0.50	9.64	
MDEL(aq life)	5.54	0.039	14.04	7.99	95.00	1.00	19.37	
MDEL/AMEL Multiplier	1.73	1.84	2.11	1.92	1.67	2.01	2.01	2.01
AMEL (human hlth)		0.051	4600			220000	989999	0.014
MDEL (human hlth)		0.094	9716			442118	1989532	0.028
minimum of AMEL for Aq. life vs HH	3.20	0.02	6.65	4.17	57.04	0.50	9.64	0.014
minimum of MDEL for Aq. Life vs HH	5.54	0.039	14.04	7.99	95.00	1.00	19.37	0.028
Final limit - AMEL	3.2	0.021	6.6	4.2	57.0	0.5	9.6	0.014
Final limit - MDEL	5.5	0.039	14.0	8.0	95.0	1.0	19.4	0.028
Max Effl Conc (MEC)	7.5	0.0058	15.0	2.0	130	8	8	0.0002
Feasibility to comply?	**No**	**Yes**	**No**	**Yes**	**No**	**No**	**Yes**	**No**
Inteirm limit	9.6	NA	15.0	NA	125.0	7.3	NA	NA
Distribution	lognormal	lognormal	no good fit	lognormal	weibull	lognormal	lognormal	no good fit