

Fact Sheet Attachment 6  
City of American Canyon  
NPDES Permit Reissuance  
Mercury Mass Trigger Calculation

Date	Effluent 003-R (MGD)	Effluent 001-S (MGD)	Total Effluent (MGD)	Hg Conc. (ug/L)	Mass loading (g/month)	12-month MA Mass (g/month)	LN(MA)
11/15/2002	0.38	0.729	1.109	0.0012	0.153175		
12/9/2002	0.344	1.082	1.426	0.0008	0.131306		
1/7/2003	0.434	1.147	1.581	0.0014	0.254762		
2/5/2003	0.406	1.053	1.459	0.0014	0.235103		
3/5/2003	0.396	0.997	1.393	0.0014	0.224468		
4/9/2003	0.412	1.001	1.413	0.0015	0.243954		
5/7/2003	1.41	0	1.41	0.0021	0.340811		
6/11/2003	1.325	0	1.325	0.0015	0.228761		
7/2/2003	1.43	0	1.43	0.0018	0.296267		
8/5/2003	1.088	0	1.088	0.0037	0.463347		
9/10/2003	1.124	0	1.124	0.0048	0.620988	0.290267551	-1.23695
10/2/2003	1.07	0	1.07	0.002	0.246314	0.286604755	-1.24965
11/10/2003	0.746	0.432	1.18	0.002	0.271636	0.296476498	-1.21579
12/3/2003	0.755	0.773	1.527	0.0018	0.316364	0.31189798	-1.16508
1/5/2004	0.772	0.804	1.576	0.0024	0.435354	0.326947305	-1.11796
2/4/2004	0.861	1.087	1.949	0.0005	0.112165	0.316702446	-1.14979
3/2/2004	0.763	0.743	1.507	0.0019	0.329566	0.325460597	-1.12251
4/8/2004	0.742	0.609	1.351	0.0014	0.2177	0.323272738	-1.12926
5/5/2004	1.019	0.063	1.082	0.0016	0.199261	0.311476906	-1.16643
6/2/2004	1.025	0	1.025	0.0015	0.176966	0.307160656	-1.18038
7/6/2004	1.04	0	1.04	0.0014	0.167586	0.296437173	-1.21592
8/17/2004	1.002	0	1.002	0.0019	0.219127	0.276085574	-1.28704
9/9/2004	1.015	0	1.015	0.0015	0.17524	0.238939927	-1.43154
10/4/2004	1.053	0	1.053	0.0025	0.303001	0.243663823	-1.41197
11/3/2004	0.785	0.54	1.305	0.0045	0.675925	0.277354552	-1.28246
12/1/2004	0.708	0.853	1.56	0.0014	0.251378	0.271939097	-1.30218
1/4/2005	0.929	0.88	1.809	0.0025	0.52054	0.279037889	-1.27641
2/2/2005	0.916	0.903	1.819	0.0023	0.481544	0.309819466	-1.17177
3/2/2005	0.965	0.944	1.909	0.0022	0.483397	0.322638728	-1.13122
4/7/2005	0.843	0.891	1.734	0.0024	0.479	0.34441373	-1.06591
5/2/2005	1.586	0	1.586	0.0024	0.438117	0.364318357	-1.00973
6/2/2005	1.361	0	1.361	0.0017	0.266307	0.371763408	-0.9895
7/18/2005	1.296	0	1.296	0.0028	0.417675	0.392604182	-0.93495
8/1/2005	1.13	0	1.13	0.0027	0.35117	0.403607742	-0.90731
9/12/2005	1.082	0	1.082	0.0025	0.311346	0.414949888	-0.8796
10/5/2005	1.076	0	1.076	0.0017	0.210541	0.407244902	-0.89834
11/1/2005	0.654	0.675	1.329	0.0019	0.290639	0.375137757	-0.98046
						Mean	-1.14482
						SD	0.148854
						Mass Trigger	<b>0.50 g/month</b>