Red Butte Creek Below Gardens

Updated on: 6/15/2010

				Human Health Water Quality Criteria (Class 3A, 3B, 3C and 3D)	EPA Suggested Criteria (see references below)	
Date/Time	**Site**	**Volatile Organic Compound (VOC)**	**Sample Concentration (ug/L)**	**Water and Organisms Criteria (ug/L)**	**Chronic Criteria (ug/L)**	**Flow (cfs)***
June 12, 2010						
6/12/10 14:30	Red Butte Creek Below Gardens	Benzene	27.6	51	5300	0.7
6/12/10 14:30	Red Butte Creek Below Gardens	Toluene	91.5	15,000	1600	0.7
6/12/10 14:30	Red Butte Creek Below Gardens	Ethylbenzene	28.5	2,100	790	0.7
6/12/10 14:30	Red Butte Creek Below Gardens	Xylenes	239	No std	700	0.7
6/12/10 14:30	Red Butte Creek Below Gardens	Naphthalene	91.6	No std	193	0.7
June 13, 2010						
6/13/10 13:40	Red Butte Creek Below Gardens	Benzene	1	51	5300	4.2
6/13/10 13:40	Red Butte Creek Below Gardens	Toluene	6	15,000	1600	4.2
6/13/10 13:40	Red Butte Creek Below Gardens	Ethylbenzene	2.3	2,100	790	4.2
6/13/10 13:40	Red Butte Creek Below Gardens	Xylenes	17.7	No std	700	4.2
6/13/10 13:40	Red Butte Creek Below Gardens	Naphthalene	4.3	No std	193	4.2

* Flow at Salt Lake County Gage Site #70, 1600 E. Bonneville Drive (1050 South) N. 40° 44' 49.8" W. 111° 50' 41.1"
http://www.pweng.slco.org/flood/streamFlow/cfml/strm_display.cfm?gageno=740&sensor=739

1. National Recommended Water Quality Criteria. Office of Water and Office of Science and Technology http://www.epa.gov/waterscience/criteria/wqctable/

2. Great Lakes Initiative (GLI) Clearinghouse resources Tier II criteria revised February 2009 http://www.epa.gov/gliclearinghouse/

3. U.S. EPA. 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment benchmarks (ESBs) for the Protection of Benthic Organisms.
Compendium of Tier 2 Values for Nonionic Organics. U.S. Environmental Protection Agency, Office of Research and Development: Washington DC
EPA/600/R-02/016. PB2008-107282. March 2008. http://www.epa.gov/NHEERL/publications/files/ESB_Compendium_v14_final.pdf

4. U.S. EPA. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment benchmarks (ESBs) for the Protection of Benthic Organisms.
PAH Mixtures. EPA-600-R-02-013. Office of Research and Development. Washington, DC. http://www.epa.gov/nheerl/publications/files/PAHESB.pdf