

November 2012

The City of San Diego • Public Utilities Department

The Advanced Water Purification Facility (Demonstration Facility) is a component of the Water Purification Demonstration Project. The Demonstration Facility produces one million gallons of purified water per day, and was tested for one year (August 2011 – July 2012). The water quality was measured in accordance with the testing and monitoring plan that the City created with input from the project's Independent Advisory Panel, California Department of Public Health (CDPH), and Regional Water Quality Control Board (RWQCB).

The twelve months of testing and monitoring of the Demonstration Facility are complete. Results of the four quarters of water quality monitoring are presented in the accompanying tables. These data are provisional. Should any transcription errors be found in the data, they will be corrected and included in the final project report projected to be submitted to City Council in early 2013.

Monitoring Locations

The data presented in the accompanying tables is for two sampling locations along the treatment process. Sample site "S1 Tertiary Effluent" is water produced by the existing North City Water Reclamation Plant and is the water fed to the Demonstration Facility. Tertiary effluent is also the water distributed for traditional reclaimed water uses such as irrigation (aka "purple pipe" water). Sample site "S10 AWPf Product" is the fully treated water produced by the Demonstration Facility, and represents the water that would be conveyed to San Vicente Reservoir if the City pursues a full-scale indirect potable reuse reservoir augmentation project.

The seven tables of data presented here are organized based on applicable regulations:

Primary drinking water standards (Table A) and secondary drinking water standards (Table B) - Primary drinking water standards are set to protect public health. Secondary drinking water standards are set for aesthetic qualities of water such as color or taste. The allowable limit for a primary or secondary drinking water standard is called a maximum contaminant level (MCL). More information on drinking water quality regulations can be found at:

<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminants.aspx>

Compounds with notification levels (Table C) - CDPH uses health-based notification levels for certain chemicals that do not have established MCLs. In a drinking water system, monitoring results exceeding these notification levels prompts certain requirements and recommendations.

California Toxics Rule (Table D) - The California Toxics Rule was established by the USEPA and applies to discharges into inland surface waters, enclosed bays, and estuaries. There are 126 “Priority Pollutants” in the California Toxics Rule, including 53 compounds not regulated by CDPH; and, thus, not included in tables A, B, or C. Table D shows the 13 priority pollutants that were found at detectable concentrations in the Demonstration Facility product water. Information about the California Toxics Rule can be found at: <http://www.epa.gov/region9/water/ctr/index.html>

Unregulated Contaminant Monitoring Rule, UCMR3 (Table E) - The Unregulated Contaminant Monitoring Rule (UCMR3) requires the collection of data on contaminants the USEPA is considering for potential regulation. Information on this rule can be found at: <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/index.cfm>

Constituents of Emerging Concern (Table F) - Constituents of Emerging Concern (CECs) include pharmaceuticals, pesticides, and industrial chemicals for which no regulatory limits have been established. Ninety CECs were monitored at the Demonstration Facility based on the likelihood the compounds might be in wastewater.

Other radionuclides and non-regulated compounds (Table G) - This table presents monitoring data on other non-regulated radionuclides and chemicals that are measured at the Demonstration Facility.

Abbreviations used in the tables

DL: detection limit, the lowest concentration the analytical method can detect

MCL: maximum contaminant level

MDA: minimal detectable activity at 95% confidence interval in a measure of radiation

mg/L: milligrams per liter, parts per million

MFL: million fibers per liter

NA: not applicable

ng/L: nanograms per liter, parts per trillion

Non Corr: non-corrosive

NTU: nephelometric turbidity units, a measure of cloudiness of water

NR: not reported, the result is not reported due to problems with quality control in the analysis

pCi/L: picocuries per liter, a measurement of radiation

pg/L: picograms per liter, parts per quadrillion

RL: reporting limit, the lowest concentration the analytical method can measure within specified limits of precision and accuracy, quantifiable limit

S1: sample site S1, water fed to the Demonstration Facility

S10: sample site S10, water produced by the Demonstration Facility

ug/L: micrograms per liter, parts per billion

<: Concentration measured is below reporting limit (RL) or below detection limit (DL)

City of San Diego Public Utilities Department, Water Purification Demonstration Project
 Advanced Water Purification Demonstration Facility (AWPF)
 First Quarter through Fourth Quarter Monitoring Results

Table A Primary Drinking Water Standards

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | | Primary Drinking Water, MCL | |
|--------------------------------|----------------|-------|--------|------|--------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-----------------------------|------------|
| | | | | | 8/24/2011 | | 11/8/2011 | | 2/1/2012 | | 5/1/2012 | | Federal | California |
| | | | | | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | | |
| 1,1,1-Trichloroethane | EPA 524.2 | ug/L | 0.11 | 0.5 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | 200 | 200 |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ug/L | 0.2 | 0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - | 1 |
| 1,1,2-Trichloroethane | EPA 524.2 | ug/L | 0.19 | 0.5 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | 5 | 5 |
| 1,1-Dichloroethane | EPA 524.2 | ug/L | 0.12 | 0.5 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | - | 5 |
| 1,1-Dichloroethene | EPA 524.2 | ug/L | 0.16 | 0.5 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | 7 | 6 |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ug/L | 0.17 | 0.5 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | 70 | 5 |
| 1,2-Dibromo-3-chloropropane | EPA 504.1 | ug/L | 0.0034 | 0.01 | <0.0034 | <0.0034 | <0.0034 | <0.0034 | <0.0034 | <0.0034 | <0.0034 | <0.0034 | 0.2 | 0.2 |
| 1,2-Dibromoethane (EDB) | EPA 504.1 | ug/L | 0.0054 | 0.02 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | 0.05 | 0.05 |
| 1,2-Dichloroethane | EPA 524.2 | ug/L | 0.12 | 0.5 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | 5 | 0.5 |
| 1,2-Dichloropropane | EPA 524.2 | ug/L | 0.13 | 0.5 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | 5 | 5 |
| 1,3-Dichloropropene, Total | EPA 524.2 | ug/L | 0.15 | 0.5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | - | 0.5 |
| 2,3,7,8-Tetra CDD ¹ | EPA 1613B mod. | pg/L | 1.9 | 10 | <10 | <9.5 | <10 | <10 | <9.7 | <9.5 | <5.2 | <5.2 | 30 | 30 |
| 2,4,5-TP (Silvex) | EPA 515.3 | ug/L | 0.09 | 0.2 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | 50 | 50 |
| 2,4-D | EPA 515.3 | ug/L | 0.07 | 0.4 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | 70 | 70 |
| Alachlor | EPA 525.2 | ug/L | 0.022 | 0.1 | <0.022 | <0.022 | <0.022 | <0.022 | <0.022 | <0.022 | <0.022 | <0.022 | 2 | 2 |
| Aluminum, Total | EPA 200.8 | ug/L | 0.61 | 5 | 11 | <5 | 8.8 | <5 | 16 | <5 | 6.1 | <5 | - | 1000 |
| Antimony, Total | EPA 200.8 | ug/L | 0.04 | 0.5 | 0.58 | <0.04 | 0.53 | <0.5 | <0.5 | <0.04 | <0.5 | <0.04 | 6 | 6 |
| Arsenic, Total | EPA 200.8 | ug/L | 0.036 | 0.4 | 0.97 | <0.036 | 0.98 | <0.036 | 0.62 | <0.036 | 0.77 | <0.4 | 10 | 10 |
| Asbestos | EPA 100.2 | MFL | NA | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 7 | 7 |
| Atrazine | EPA 525.2 | ug/L | 0.034 | 0.1 | <0.034 | <0.034 | <0.034 | <0.034 | <0.034 | <0.034 | <0.034 | <0.034 | 3 | 1 |
| Barium, Total | EPA 200.8 | ug/L | 0.03 | 0.5 | 22 | <0.03 | 18 | <0.03 | 21 | <0.03 | 20 | <0.5 | 2000 | 1000 |
| Bentazon | EPA 515.3 | ug/L | 0.11 | 2 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | - | 18 |
| Benzene | EPA 524.2 | ug/L | 0.15 | 0.5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 5 | 1 |
| Benzo (a) pyrene | EPA 525.2 | ug/L | 0.07 | 0.1 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | 0.2 | 0.2 |
| Beryllium, Total | EPA 200.8 | ug/L | 0.088 | 0.1 | <0.088 | <0.088 | <0.088 | <0.088 | <0.088 | <0.088 | <0.088 | <0.088 | 4 | 4 |
| Bis(2-ethylhexyl)adipate | EPA 525.2 | ug/L | 0.1 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 400 | 400 |
| Bis(2-ethylhexyl)phthalate | EPA 525.2 | ug/L | 1.1 | 3 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <3 | 6 | 4 |
| Bromate ¹ | EPA 326.0 | ug/L | 1.2 | 2.5 | <1.2 | <0.25 | <0.25 | <0.25 | <0.5 | <0.5 | <0.25 | <0.25 | 10 | 10 |
| Cadmium, Total | EPA 200.8 | ug/L | 0.02 | 0.1 | <0.02 | <0.02 | <0.1 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 5 | 5 |
| Carbofuran | EPA 531.1 | ug/L | 0.59 | 2 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | 40 | 18 |
| Carbon tetrachloride | EPA 524.2 | ug/L | 0.12 | 0.5 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | 5 | 0.5 |
| Chlordane (tech) | EPA 508 | ug/L | 0.066 | 0.1 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | 2 | 0.1 |
| Chlorite ¹ | EPA 300.1 | ug/L | 0.7 | 10 | <0.7 | <0.7 | <10 | <0.7 | <0.7 | <0.7 | <1.4 | <0.7 | 1000 | 1000 |
| Chlorobenzene | EPA 524.2 | ug/L | 0.15 | 0.5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 100 | 70 |
| Chromium, Total | EPA 200.8 | ug/L | 0.074 | 0.2 | 0.25 | <0.074 | 0.56 | <0.074 | 0.52 | <0.074 | 0.28 | <0.074 | 100 | 50 |
| cis-1,2-Dichloroethene | EPA 524.2 | ug/L | 0.11 | 0.5 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | 70 | 6 |
| Copper, Total | EPA 200.8 | ug/L | 0.27 | 0.5 | 1.6 | <0.27 | 1.8 | <0.27 | 1.7 | <0.27 | 1.6 | <0.27 | 1300 | 1300 |
| Cyanide, Total | EPA 335.4 | ug/L | 2.7 | 5 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | 200 | 150 |
| Dalapon | EPA 515.3 | ug/L | 0.1 | 0.4 | <0.4 | <0.1 | <0.1 | <0.1 | <0.4 | <0.1 | <0.1 | <0.1 | 200 | 200 |
| Dinoseb | EPA 515.3 | ug/L | 0.14 | 0.4 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | 7 | 7 |
| Diquat | EPA 549.2 | ug/L | 0.9 | 4 | <0.9 | <0.9 | <4 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | 20 | 20 |
| Endothall | EPA 548.1 | ug/L | 3.5 | 45 | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 | 100 | 100 |
| Endrin | EPA 508 | ug/L | 0.002 | 0.01 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 2 | 2 |
| Ethylbenzene | EPA 524.2 | ug/L | 0.21 | 0.5 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | 700 | 300 |
| Fluoride, Total | EPA 300.0 | mg/L | 0.02 | 0.1 | 0.61 | <0.1 | 0.63 | <0.02 | 0.54 | <0.02 | 0.71 | <0.02 | 4 | 2 |
| Freon 113 | EPA 524.2 | ug/L | 0.27 | 5 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | - | 1200 |
| gamma-BHC (Lindane) | EPA 508 | ug/L | 0.0015 | 0.01 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | 0.2 | 0.2 |
| Glyphosate | EPA 547 | ug/L | 1.8 | 5 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | 700 | 700 |

Note: 1) Results shown as less than (<VALUE) indicate the reported result was less than the RL or DL. In some instances, the RL and/or DL varied during the testing period due to laboratory quality control procedures or changes in method procedures.
 2) 'MDA' is the Minimum Detectable Activity at 95% confidence interval in a measure of radiation.

These data cover only a portion of the full testing and monitoring program. These data are provisional. Should any transcription errors be found in the data, they will be corrected and included in the final project report. Information concerning the accuracy and appropriate uses of these data will also be included in the final project report.

City of San Diego Public Utilities Department, Water Purification Demonstration Project
 Advanced Water Purification Demonstration Facility (AWPF)
 First Quarter through Fourth Quarter Monitoring Results

Table A Primary Drinking Water Standards, Continued

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | | Primary Drinking Water, MCL | |
|--------------------------------|-----------|-------|--------|------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|-----------------------------|-------------|
| | | | | | 8/24/2011 | | 11/8/2011 | | 2/1/2012 | | 5/1/2012 | | Federal | California |
| | | | | | S1 | S10 | S1 | S10 | S1 | S10 | S1 | S10 | | |
| Gross Alpha ² | EPA 900.0 | pCi/L | NA | See Sample | 0.016 (MDA = 0.016) | 0.94 (MDA = 0.601) | 5.78 (MDA = 0.016) | <0.886 (MDA = 0.886) | 0.016 (MDA = 0.016) | <0.801 (MDA = 0.801) | 0.016 (MDA = 0.016) | <0.927 (MDA = 0.927) | 15 pCi/L | 15 pCi/L |
| Gross Beta ² | EPA 900.0 | pCi/L | NA | See Sample | 21 (MDA = 1.117) | <0.968 (MDA = 0.968) | 24 (MDA = 1.365) | <0.922 (MDA = 0.922) | 7.6 (MDA = 1.110) | <0.902 (MDA = 0.902) | 3.4 (MDA = 1.25) | <0.884 (MDA = 0.884) | 50 pCi/L | 50 pCi/L |
| HAA5, Total | EPA 552.2 | ug/L | NA | 1 | 2.6 | <1 | 1.5 | <1 | 4 | <1 | 2.1 | <1 | 60 | 60 |
| Heptachlor | EPA 508 | ug/L | 0.0009 | 0.01 | <0.0009 | <0.0009 | <0.0009 | <0.0009 | <0.0009 | <0.0009 | <0.0009 | <0.0009 | 0.4 | 0.01 |
| Heptachlor epoxide | EPA 508 | ug/L | 0.0011 | 0.01 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | 0.2 | 0.01 |
| Hexachlorobenzene | EPA 508 | ug/L | 0.003 | 0.01 | <0.003 | <0.003 | <0.003 | <0.003 | <0.01 | <0.003 | <0.003 | <0.003 | 1 | 1 |
| Hexachlorocyclopentadiene | EPA 508 | ug/L | 0.014 | 0.05 | <0.014 | <0.014 | <0.014 | <0.014 | <0.014 | <0.014 | <0.014 | <0.014 | 50 | 50 |
| Lead, Total | EPA 200.8 | ug/L | 0.011 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.011 | <0.2 | <0.011 | 15 | 15 |
| Mercury, Total | EPA 245.1 | ug/L | 0.0039 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.0039 | <0.0039 | <0.0039 | 2 | 2 |
| Methoxychlor | EPA 508 | ug/L | 0.0044 | 0.01 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | 40 | 30 |
| Methyl tert-butyl ether (MTBE) | EPA 524.2 | ug/L | 0.19 | 2 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | - | 13 |
| Methylene chloride | EPA 524.2 | ug/L | 0.14 | 0.5 | <0.5 | <0.5 | <0.14 | <0.14 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | 5 |
| Molinate | EPA 525.2 | ug/L | 0.039 | 0.1 | <0.039 | <0.039 | <0.039 | <0.039 | <0.039 | <0.039 | <0.039 | <0.039 | - | 20 |
| Nickel, Total | EPA 200.8 | ug/L | 0.13 | 0.8 | 3.6 | <0.13 | 3.5 | <0.13 | 4.4 | <0.13 | 3.2 | <0.13 | - | 100 |
| Nitrate as NO3 | EPA 353.2 | mg/L | 0.36 | 1 | 73 | 3.1 | 70 | 2.9 | 69 | 3 | 66 | 4.3 | (as N) 10 | (as NO3) 45 |
| Nitrite as N | EPA 353.2 | ug/L | 10 | 100 | <100 | <10 | <100 | <10 | <100 | <10 | <100 | <10 | 1000 | 1000 |
| NO2+NO3 as N | EPA 353.2 | ug/L | 20 | 200 | 17000 | 700 | 16000 | 660 | 16000 | 670 | 15000 | 970 | 10000 | 10000 |
| o-Dichlorobenzene | EPA 524.2 | ug/L | 0.19 | 0.5 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | 600 | 600 |
| Oxamyl | EPA 531.1 | ug/L | 0.48 | 2 | <0.48 | <0.48 | <0.48 | <0.48 | <0.48 | <0.48 | <0.48 | <0.48 | 200 | 50 |
| PCBs, Total | EPA 508 | ug/L | 0.049 | 0.5 | <0.049 | <0.049 | <0.049 | <0.049 | <0.049 | <0.049 | <0.049 | <0.049 | 0.5 | 0.5 |
| p-Dichlorobenzene | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 75 | 5 |
| Pentachlorophenol | EPA 515.3 | ug/L | 0.04 | 0.2 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | 1 | 1 |
| Perchlorate | EPA 314.0 | ug/L | 0.95 | 2 | 5.8 | <0.95 | 4.9 | <0.95 | 12 | <0.95 | 9.8 | <0.95 | - | 6 |
| Picloram | EPA 515.3 | ug/L | 0.05 | 0.6 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 500 | 500 |
| Radium 226 ² | EPA 903.1 | pCi/L | NA | See Sample | <0.322 (MDA = 0.439) | <0.277 (MDA = 0.439) | <0.276 (MDA = 0.439) | <0.204 (MDA = 0.439) | <0.205 (MDA = 0.439) | <0.203 (MDA = 0.439) | 0.25 (MDA = 0.354) | 0.2 (MDA = 0.354) | 5 | 5 |
| Radium 228 ² | EPA Ra-05 | pCi/L | NA | See Sample | <0.322 (MDA = 0.322) | <0.277 (MDA = 0.277) | <0.276 (MDA = 0.276) | <0.204 (MDA = 0.204) | <0.205 (MDA = 0.205) | <0.203 (MDA = 0.203) | 0.25 (MDA = 0.25) | 0.2 (MDA = 0.2) | 5 | 5 |
| Selenium, Total | EPA 200.8 | ug/L | 0.28 | 0.4 | 0.56 | <0.28 | 0.57 | <0.28 | 0.48 | <0.28 | 1.1 | <0.28 | 50 | 50 |
| Simazine | EPA 525.2 | ug/L | 0.015 | 0.1 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | 4 | 4 |
| Strontium 90 ² | EPA 905.0 | pCi/L | NA | See Sample | <0.676 (MDA = 0.676) | <0.675 (MDA = 0.675) | <0.675 (MDA = 0.675) | <0.675 (MDA = 0.675) | <0.636 (MDA = 0.636) | <0.636 (MDA = 0.636) | 0.636 (MDA = 0.636) | 0.636 (MDA = 0.636) | 8 | 8 |
| Styrene | EPA 524.2 | ug/L | 0.19 | 0.5 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | 100 | 100 |
| Tetrachloroethene | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 5 | 5 |
| Thallium, Total | EPA 200.8 | ug/L | 0.009 | 0.2 | <0.009 | <0.009 | <0.009 | <0.009 | <0.2 | <0.2 | <0.2 | <0.009 | 2 | 2 |
| Thiobencarb | EPA 525.2 | ug/L | 0.025 | 0.1 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | - | 70 |
| THMs, Total | EPA 524.2 | ug/L | 0.6 | 2 | 3 | 2.2 | <2 | <0.6 | <0.6 | <0.6 | <2 | <0.6 | 80 | 80 |
| Toluene | EPA 524.2 | ug/L | 0.14 | 0.5 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.5 | <0.14 | 1000 | 150 |
| Toxaphene | EPA 508 | ug/L | 0.066 | 1 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | <0.066 | 3 | 3 |
| trans-1,2-Dichloroethene | EPA 524.2 | ug/L | 0.11 | 0.5 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | 100 | 10 |
| Trichloroethene | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 5 | 5 |
| Trichlorofluoromethane | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | - | 150 |
| Tritium ² | EPA 906.0 | pCi/L | NA | See Sample | <423 (MDA = 423) | <423 (MDA = 423) | <714 (MDA = 714) | <714 (MDA = 714) | <437 (MDA = 437) | <437 (MDA = 437) | <505 (MDA = 505) | <505 (MDA = 505) | 20000 | 20000 |
| Uranium Rad ^{2,3} | EPA 200.8 | pCi/L | 0.019 | 0.13 | 0.17 | <0.019 | <0.13 | <0.019 | 0.16 | <0.019 | 0.31 | <0.019 | 20.1 | 20 |
| Vinyl chloride | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 2 | 0.5 |
| Xylenes, Total | EPA 524.2 | ug/L | 0.33 | 0.5 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | 10000 | 1750 |

Note: 1) Results shown as less than (<VALUE) indicate the reported result was less than the RL or DL. In some instances, the RL and/or DL varied during the testing period due to laboratory quality control procedures or changes in method procedures.

2) 'MDA' is the Minimum Detectable Activity at 95% confidence interval in a measure of radiation.

3) Uranium Rad was measured as mass and converted to picocuries.

These data cover only a portion of the full testing and monitoring program. These data are provisional. Should any transcription errors be found in the data, they will be corrected and included in the final project report. Information concerning the accuracy and appropriate uses of these data will also be included in the final project report.

City of San Diego Public Utilities Department, Water Purification Demonstration Project
Advanced Water Purification Demonstration Facility (AWPF)
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Table B Secondary Drinking Water Standards

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | | Secondary Drinking Water, MCL | |
|--------------------------------|-----------|-------------|-------|------|--------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------------|------------|
| | | | | | 8/24/2011 | | 11/8/2011 | | 2/1/2012 | | 5/1/2012 | | Federal | California |
| | | | | | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | | |
| Aluminum, Total | EPA 200.8 | ug/L | 0.61 | 5 | 11 | <5 | 8.8 | <5 | 16 | <5 | 6.1 | <5 | 50 to 200 | 200 |
| Chloride, Total | EPA 300.0 | mg/L | 1 | 5 | 250 | <5 | 240 | <5 | 260 | <5 | 270 | <5 | 250 | 250 |
| Color | SM2120B | Color Units | NA | 3 | 20 | <3 | 20 | <3 | 15 | <3 | 15 | <3 | 15 | 15 |
| Copper, Total | EPA 200.8 | ug/L | 0.27 | 0.5 | 1.6 | <0.27 | 1.8 | <0.27 | 1.7 | <0.27 | 1.6 | <0.27 | 1000 | 1000 |
| Iron, Total | EPA 200.7 | ug/L | 1.1 | 10 | 93 | <1.1 | 73 | <1.1 | 110 | <1.1 | 69 | <1.1 | 300 | 300 |
| Langelier Index @ 20 C | EPA 200.2 | NA | NA | NA | -0.697 | -6.64 | -0.831 | -6.69 | -0.832 | -6.59 | -0.784 | -6.15 | Non Corr. | Non Corr. |
| Manganese, Total | EPA 200.8 | ug/L | 0.11 | 0.2 | 110 | <0.11 | 70 | <0.11 | 93 | 0.37 | 72 | <0.2 | 50 | 50 |
| MBAS | SM 5540 C | mg/L | 0.019 | 0.05 | 0.063 | <0.019 | <0.05 | <0.019 | 0.054 | <0.019 | 0.07 | <0.019 | 0.5 | 0.5 |
| Methyl tert-butyl ether (MTBE) | EPA 524.2 | ug/L | 0.19 | 2 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | - | 5 |
| Silver, Total | EPA 200.8 | ug/L | 0.027 | 0.2 | <0.027 | <0.027 | <0.027 | <0.027 | <0.027 | <0.027 | 0.21 | <0.2 | 100 | 100 |
| Specific Conductance (EC) | SM2510B | umhos/cm | 0.47 | 4 | 1500 | 22 | 1100 | 16 | 1400 | 20 | 1500 | 26 | - | 900 |
| Sulfate as SO4 | EPA 300.0 | mg/L | 0.1 | 0.5 | 170 | <0.1 | 130 | <0.5 | 150 | <0.1 | 180 | <0.5 | 250 | 250 |
| Thiobencarb | EPA 525.2 | ug/L | 0.025 | 0.1 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | - | 1 |
| Threshold Odor Number | EPA 140.1 | T.O.N. | NA | 1 | 10 | <1 | 2 | <1 | 20 | <1 | 10 | <1 | 3 | 3 |
| Total Dissolved Solids | SM2540C | mg/L | 4 | 10 | 850 | 16 | 760 | 16 | 710 | 13 | 650 | 11 | 500 | 500 |
| Turbidity | EPA 180.1 | NTU | 0.024 | 0.1 | 0.35 | <0.024 | <0.024 | <0.024 | 0.17 | <0.024 | <0.024 | <0.024 | 5 | 5 |
| Zinc, Total | EPA 200.8 | ug/L | 1.1 | 5 | 66 | <1.1 | 48 | <1.1 | 100 | <1.1 | 36 | <1.1 | 5000 | 5000 |

Note: 1) Results shown as less than (<VALUE) indicate the reported result was less than the RL or DL. In some instances, the RL and/or DL varied during the testing period due to laboratory quality control procedures or changes in method procedures.

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These data are provisional. Should any transcription errors be found in the data, they will be corrected and included in the final project report.
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City of San Diego Public Utilities Department, Water Purification Demonstration Project
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Table C Compounds with CDPH Drinking Water Notification Levels

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | | CDPH Drinking Water Notification Level |
|-------------------------------------|--------------|-------|--------|-------|--------------------------|---------|-----------|---------|----------|---------|----------|---------|--|
| | | | | | 8/24/2011 | | 11/8/2011 | | 2/1/2012 | | 5/1/2012 | | |
| | | | | | S1 | S10 | S1 | S10 | S1 | S10 | S1 | S10 | |
| 1,2,3-Trichloropropane | SRL 524M-TCP | ug/L | 0.0012 | 0.005 | <0.0012 | <0.0012 | <0.0012 | <0.0012 | <0.0012 | <0.0012 | <0.0012 | <0.0012 | 0.005 |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ug/L | 0.2 | 0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 330 |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ug/L | 0.17 | 0.5 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | 330 |
| 1,4-Dioxane | EPA 8270M | ug/L | 0.04 | 0.5 | 1.8 | <0.04 | 5.6 | <0.04 | 1.2 | <0.04 | 1.6 | <0.04 | 1 |
| 2,4,6-Trinitrotoluene ¹ | EPA 8330A | ug/L | 0.2 | 2 | <0.2 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | 1 |
| 2-Chlorotoluene | EPA 524.2 | ug/L | 0.15 | 0.5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 140 |
| 4-Chlorotoluene | EPA 524.2 | ug/L | 0.15 | 0.5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 140 |
| Methyl isobutyl Ketone (MIBK) | EPA 524.2 | ug/L | 0.56 | 5 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | 120 |
| Boron, Total | EPA 200.8 | ug/L | 0.28 | 1 | 400 | 240 | 340 | 210 | 360 | 200 | 370 | 290 | 1000 |
| Carbon Disulfide | EPA 524.2 | ug/L | 0.13 | 0.5 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | 160 |
| Chlorate | EPA 300.1 | ug/L | 0.95 | 10 | 16 | <0.95 | 580 | <10 | 88 | <0.95 | 14 | <0.95 | 800 |
| Diazinon | EPA 525.2 | ug/L | 0.096 | 0.1 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | 1.2 |
| Dichlorodifluoromethane (Freon 12) | EPA 524.2 | ug/L | 0.12 | 0.5 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | 1000 |
| Ethylene glycol ² | EPA 8015B | mg/L | 11 | 50 | <11 | <11 | <11 | <11 | <11 | <11 | <50 | <50 | 14 |
| Formaldehyde | EPA 556 | ug/L | 0.26 | 2 | 6.8 | 8.9 | 6 | 11 | 8.2 | 5.7 | 8.5 | 6.5 | 100 |
| HM ¹ | EPA 8330A | ug/L | 3 | 10 | <3 | <0.59 | <1.5 | <0.3 | <1.5 | <0.3 | <1.5 | <0.3 | 350 |
| Isopropylbenzene | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 770 |
| Manganese, Total | EPA 200.8 | ug/L | 0.11 | 0.2 | 110 | <0.11 | 70 | <0.11 | 93 | 0.37 | 72 | <0.2 | 500 |
| Naphthalene | EPA 524.2 | ug/L | 0.42 | 0.5 | <0.42 | <0.42 | <0.42 | <0.42 | <0.42 | <0.42 | <0.42 | <0.42 | 17 |
| n-Butylbenzene | EPA 524.2 | ug/L | 0.29 | 0.5 | <0.29 | <0.29 | <0.29 | <0.29 | <0.29 | <0.29 | <0.29 | <0.29 | 260 |
| N-Nitrosodiethylamine | EPA 521 | ng/L | 0.72 | 2 | <2 | <0.72 | <0.72 | <0.72 | <2 | 5.7 | <2 | 4.9 | 10 |
| N-Nitrosodimethylamine ¹ | EPA 521 | ng/L | 0.28 | 2.2 | 2.9 | <2 | <2 | <0.28 | <2 | <2 | 5.2 | <2.2 | 10 |
| N-Nitrosodi-n-propylamine | EPA 521 | ng/L | 0.35 | 2.2 | <0.35 | <0.35 | <0.35 | <0.35 | <0.35 | <0.35 | <0.35 | <2.2 | 10 |
| n-Propylbenzene | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 260 |
| Propachlor | EPA 508 | ug/L | 0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 90 |
| RDX ¹ | EPA 8330A | ug/L | 0.32 | 2 | <0.32 | <0.32 | <0.16 | <0.16 | <0.8 | <0.16 | <0.8 | <0.16 | 0.3 |
| sec-Butylbenzene | EPA 524.2 | ug/L | 0.24 | 0.5 | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | 260 |
| Tert-butyl alcohol | EPA 524.2 | ug/L | 0.45 | 2 | <0.45 | <0.45 | <2 | <0.45 | <0.45 | <0.45 | <0.45 | <0.45 | 12 |
| tert-Butylbenzene | EPA 524.2 | ug/L | 0.18 | 0.5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 260 |
| Vanadium, Total | EPA 200.8 | ug/L | 0.047 | 0.5 | 1.1 | <0.5 | <0.047 | <0.047 | 0.8 | <0.5 | 0.81 | <0.047 | 50 |

Note: 1) Results shown as less than (<VALUE) indicate the reported result was less than the RL or DL. In some instances, the RL and/or DL varied during the testing period due to laboratory quality control procedures or changes in method procedures.

2) Additional testing was conducted for ethylene glycol at sample locations S1 and S10 using a more sensitive method (EPA 8270 C DL = 0.5 mg/L; RL = 1 mg/L). Samples from each location were collected on 8/13/12 and 8/15/12. All results were <0.5 mg/L.

These data cover only a portion of the full testing and monitoring program.

These data are provisional. Should any transcription errors be found in the data, they will be corrected and included in the final project report. Information concerning the accuracy and appropriate uses of these data will also be included in the final project report.

City of San Diego Public Utilities Department, Water Purification Demonstration Project
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Table D California Toxics Rule¹

| Parameter | Method | Units | DL | RL | Sample Date ² | | | | Fresh Water Criterion Continuous Conc. Aquatic ³ (ug/l) | Human Health Criterion for the Consumption of Water & Organisms ³ (ug/l) |
|--------------------------------|----------------|-------|--------|------|--------------------------|------------------------|------------------------|------------------------|---|---|
| | | | | | 8/24/2011 | 11/8/2011 | 2/1/2012 | 5/1/2012 | | |
| | | | | | S10 AWPF Product | S10 AWPF Product | S10 AWPF Product | S10 AWPF Product | | |
| 2,3,7,8-Tetra CDD ² | EPA 1613B mod. | pg/L | varies | 10 | <9.5 | <10 | <9.5 | <5.2 | | 0.00000013 [c] |
| Antimony, Total | EPA 200.8 | ug/L | 0.04 | 0.5 | <0.04 | <0.5 | <0.04 | <0.04 | | 14 [a,s] |
| Arsenic, Total | EPA 200.8 | ug/L | 0.036 | 0.4 | <0.036 | <0.036 | <0.036 | <0.4 | 150 [i,m,w] | |
| Asbestos | EPA 100.2 | MFL | 0 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | 7 MFL [k,s] |
| Bromodichloromethane | EPA 524.2 | ug/L | 0.09 | 0.5 | 0.78 | <0.5 | <0.5 | <0.5 | | 0.56 [a,c] |
| Chloroform | EPA 524.2 | ug/L | 0.12 | 0.5 | 1.4 | <0.5 | <0.12 | <0.5 | | Reserved |
| Diethyl phthalate | EPA 625 | ug/L | 0.15 | 1 | <1 | <0.15 | <0.15 | <0.15 | | 23000 [a,s] |
| Dimethyl phthalate | EPA 625 | ug/L | 0.18 | 1 | <1 | <0.18 | <0.18 | <0.18 | | 313000 [s] |
| Di-n-butyl phthalate | EPA 625 | ug/L | 0.24 | 1 | 2.2 | <0.24 | <0.24 | <0.24 | | 2700 [a,s] |
| Lead, Total | EPA 200.8 | ug/L | 0.011 | 0.2 | <0.2 | <0.2 | <0.011 | <0.011 | 2.5 [e,i,m] | [n] |
| Mercury, Total | EPA 245.1 | ug/L | 0.0039 | 0.05 | <0.05 | <0.05 | <0.05 | <0.0039 | Reserved | 0.050 [a] |
| Methylene chloride | EPA 524.2 | ug/L | 0.14 | 0.5 | <0.5 | <0.14 | <0.5 | <0.5 | | 4.7 [a,c] |
| Silver, Total | EPA 200.8 | ug/L | 0.027 | 0.2 | <0.027 | <0.027 | <0.027 | <0.2 | | |

Note: 1) These results are for California Toxics Rule compounds that were detected in the AWPF Product and not included in Tables A, B, or C.

2) Results shown as less than (<VALUE) indicate the reported result was less than the RL or DL. In some instances, the RL and/or DL varied during the testing period due to laboratory quality control procedures or changes in method procedures.

3) The letters [a], [c], [n], etc refer to notes in Federal Register/Vol. 65, No. 97/Thursday, May 18, 2000/Rules and Regulations.
<http://www.epa.gov/fedrgstr/EPA-WATER/2000/May/Day-18/w11106.pdf>

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City of San Diego Public Utilities Department, Water Purification Demonstration Project
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Table E Unregulated Contaminant Monitoring Rule (UCMR3)

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | |
|--|-----------------|-------|---------|--------|----------------------------|------------------------|---|-------------------------------------|----------------------------|------------------------|----------------------------|------------------------|
| | | | | | 8/24/2011 | | 11/8/2011 | | 3/8/2012 | | 5/1/2012 | |
| | | | | | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent ² | S10 AWPF Product ² | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product |
| 1,1-Dichloroethane ¹ | EPA 524.3 | ng/L | 15 | 30 | <15 | <15 | <15 | <15 | <15 | <15 | <10 | <10 |
| 1,2,3-Trichloropropane ¹ | EPA 524.3 | ng/L | 15 | 30 | <15 | <15 | <15 | <15 | <15 | <15 | <4.6 | <4.6 |
| 1,3-butadiene ¹ | EPA 524.3 | ng/L | 50 | 100 | <50 | <50 | <50 | <50 | <50 | <50 | <37 | <37 |
| 1,4-Dioxane | EPA 522 | ug/L | 0.035 | 0.07 | 0.948 | <0.035 | 4.24 | <0.035 | 0.968 | <0.035 | 1.2 | <0.035 |
| 17 alpha-ethynylestradiol | EPA 539 | ug/L | 0.0001 | 0.0004 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| 17-beta-Estradiol | EPA 539 | ug/L | 0.0001 | 0.0009 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0009 | <0.0001 | <0.0009 | <0.0001 |
| 4-androstene-3, 17-dione | EPA 539 | ug/L | 0.00004 | 0.0003 | 0.0012 | <0.00004 | 0.0018 | <0.0003 | 0.0032 | <0.00004 | 0.0032 | <0.00004 |
| Bromochloromethane ³ | EPA 524.3 | ng/L | 30 | 60 | 220 | 230 | 260 | 190 | 230 | 230 | 170 | 250 |
| Bromomethane ¹ | EPA 524.3 | ng/L | 100 | 200 | <100 | <100 | <100 | <100 | <100 | <100 | <35 | <35 |
| Chlorate | UCMR 300.1 | ug/L | 2 | 20 | <2 | <2 | 580 | <20 | 28.4 | <2 | <20 | <2 |
| Chlorodifluoromethane | EPA 524.3 | ng/L | 40 | 80 | <40 | <40 | <40 | <80 | <40 | <40 | <6.8 | <6.8 |
| Chloromethane | EPA 524.3 | ng/L | 100 | 200 | <100 | <100 | <100 | <100 | <100 | <100 | <200 | <200 |
| Chromium | UCMR 200.8 | ug/L | 0.021 | 0.3 | 1.06 | <0.021 | <0.021 | <0.021 | 0.364 | <0.021 | 0.35 | <0.021 |
| Cobalt | UCMR 200.8 | ug/L | 0.28 | 1 | <1 | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 | <1 | <0.28 |
| Equilin | EPA 539 | ug/L | 0.0004 | 0.004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Estriol | EPA 539 | ug/L | 0.0002 | 0.0008 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Estrone | EPA 539 | ug/L | 0.0002 | 0.002 | 0.0047 | <0.0002 | <0.0002 | <0.0002 | 0.0043 | <0.0002 | 0.0038 | <0.0002 |
| Hexavalent chromium (Dissolved) ³ | EPA 218.6/218.7 | ug/L | 0.009 | 0.03 | <0.009 | 0.09 | <0.009 | 0.083 | <0.009 | 0.0401 | <0.03 | 0.16 |
| Molybdenum | UCMR 200.8 | ug/L | 0.057 | 1 | 7.95 | <0.057 | 7.5 | <0.057 | 5.65 | <0.057 | 6.2 | <1 |
| n-Propylbenzene ¹ | EPA 524.3 | ng/L | 15 | 30 | <15 | <15 | <15 | <15 | <15 | <15 | <5.4 | <5.4 |
| Perfluoro octanesulfonic acid - PFOS | EPA 537 | ug/L | 0.0023 | 0.04 | <0.0023 | <0.0023 | <0.04 | <0.0023 | <0.04 | <0.0023 | <0.04 | <0.0023 |
| Perfluoro-1-butanesulfonic acid - PFBS | EPA 537 | ug/L | 0.0018 | 0.09 | <0.0018 | <0.0018 | <0.09 | <0.0018 | <0.09 | <0.0018 | <0.09 | <0.0018 |
| Perfluoro-1-hexanesulfonic acid - PFHxS | EPA 537 | ug/L | 0.002 | 0.03 | <0.002 | <0.002 | <0.03 | <0.002 | <0.03 | <0.002 | <0.03 | <0.002 |
| Perfluoroheptanoic acid - PFHpA | EPA 537 | ug/L | 0.0031 | 0.01 | 0.032 | <0.0031 | 0.036 | <0.01 | 0.023 | <0.0031 | 0.026 | <0.0031 |
| Perfluoro-n-nonanoic acid - PFNA | EPA 537 | ug/L | 0.0022 | 0.02 | <0.0022 | <0.0022 | <0.02 | <0.0022 | <0.02 | <0.0022 | <0.02 | <0.0022 |
| Perfluorooctanoic acid - PFOA | EPA 537 | ug/L | 0.0035 | 0.02 | 0.17 | <0.0035 | 0.29 | <0.0035 | 0.21 | <0.0035 | 0.23 | <0.0035 |
| sec-Butylbenzene ¹ | EPA 524.3 | ng/L | 20 | 40 | <20 | <20 | <20 | <20 | <20 | <20 | <1.5 | <1.5 |
| Strontium ³ | UCMR 200.8 | ug/L | 0.016 | 0.3 | 577 | <0.016 | 405 | <0.016 | 480 | <0.016 | 610 | 0.37 |
| Testosterone | EPA 539 | ug/L | 0.00002 | 0.0001 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Vanadium | UCMR 200.8 | ug/L | 0.011 | 0.2 | 1.24 | <0.011 | 0.77 | <0.011 | 0.97 | <0.011 | 0.79 | <0.011 |

Note: 1) Results shown as less than (<VALUE) indicate the reported result was less than the RL or DL. In some instances, the RL and/or DL varied during the testing period due to laboratory quality control procedures or changes in method procedures.

2) Results shown in **BOLD** are for samples taken on 1/18/12

3) Results of this constituent is discussed in the final project report.

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City of San Diego Public Utilities Department, Water Purification Demonstration Project
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Table F Constituents of Emerging Concern (CECs)

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | |
|-----------------------------------|----------|-------|------|-----|--------------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|
| | | | | | 8/15/2011 | | 9/14/2011 | | 10/17/2011 | | 11/8/2011 | |
| | | | | | S1 | S10 | S1 | S10 | S1 | S10 | S1 | S10 |
| | | | | | Tertiary Effluent | AWPF Product | Tertiary Effluent | AWPF Product | Tertiary Effluent | AWPF Product | Tertiary Effluent | AWPF Product |
| 1,7-Dimethylxanthine | LC-MS-MS | ng/L | 3.4 | 10 | <10 | <3.4 | <3.4 | <3.4 | <3.4 | <3.4 | <3.4 | <3.4 |
| 2,4-D | LC-MS-MS | ng/L | 5 | 5 | 49 | <5 | 2000 | <5 | <5 | <5 | <5 | <5 |
| 4-nonylphenol - semi quantitative | LC-MS-MS | ng/L | 50 | 100 | 1400 | <50 | 410 | <100 | 200 | <50 | 330 | <50 |
| 4-tert-Octylphenol | LC-MS-MS | ng/L | 6.9 | 50 | <50 | <6.9 | <50 | <6.9 | <50 | <6.9 | <6.9 | <6.9 |
| Acetulfame-K ² | LC-MS-MS | ng/L | 20 | 20 | 27000 | <20 | 29000 | 50 | 33000 | <20 | 28000 | <20 |
| Acetaminophen | LC-MS-MS | ng/L | 3 | 5 | <3 | <3 | <5 | <3 | <3 | <3 | 10 | <3 |
| Albuterol | LC-MS-MS | ng/L | 2.4 | 5 | 9.6 | <5 | 8.1 | <2.4 | 9.9 | <2.4 | 10 | <2.4 |
| Amoxicillin (semi-quantitative) | LC-MS-MS | ng/L | 6.4 | 20 | 1400 | <6.4 | 470 | <6.4 | 960 | <20 | 320 | <6.4 |
| Androstenedione | LC-MS-MS | ng/L | 1.7 | 5 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| Atenolol | LC-MS-MS | ng/L | 3.9 | 5 | 670 | <3.9 | 250 | <3.9 | 59 | <3.9 | 150 | <3.9 |
| Atrazine | LC-MS-MS | ng/L | 2.3 | 5 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 |
| Azithromycin | LC-MS-MS | ng/L | 10 | 20 | NR | NR | NR | NR | NR | NR | NR | NR |
| Bendroflumethiazide | LC-MS-MS | ng/L | 4.4 | 5 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 |
| Bezafibrate | LC-MS-MS | ng/L | 3.5 | 5 | 6 | <3.5 | 7.6 | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 |
| BPA | LC-MS-MS | ng/L | 7.2 | 10 | <7.2 | <7.2 | 74 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 |
| Bromacil | LC-MS-MS | ng/L | 3.2 | 5 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 |
| Butalbital | LC-MS-MS | ng/L | 2.9 | 5 | 16 | <2.9 | 39 | <2.9 | 25 | <2.9 | 21 | <2.9 |
| Butylparaben | LC-MS-MS | ng/L | 3.3 | 5 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 |
| Caffeine | LC-MS-MS | ng/L | 4.3 | 5 | 77 | <4.3 | 61 | <4.3 | 36 | <4.3 | 20 | <4.3 |
| Carbadox | LC-MS-MS | ng/L | 4.2 | 5 | 8.6 | <4.2 | 13 | <4.2 | 5.7 | <4.2 | <4.2 | <4.2 |
| Carbamazepine | LC-MS-MS | ng/L | 1.2 | 5 | 300 | <1.2 | 190 | <1.2 | 190 | <1.2 | 170 | <1.2 |
| Carisoprodol | LC-MS-MS | ng/L | 1.2 | 5 | 150 | <1.2 | 42 | <1.2 | 62 | <1.2 | 52 | <1.2 |
| Chloramphenicol | LC-MS-MS | ng/L | 3.1 | 10 | <3.1 | <3.1 | <10 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| Chloridazon | LC-MS-MS | ng/L | 1.6 | 5 | <5 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 |
| Chlorotoluron | LC-MS-MS | ng/L | 0.89 | 5 | <0.89 | <0.89 | <0.89 | <0.89 | <0.89 | <0.89 | <0.89 | <0.89 |
| Cimetidine | LC-MS-MS | ng/L | 2.7 | 5 | 62 | <2.7 | 22 | <2.7 | 12 | <2.7 | <2.7 | <2.7 |
| Clofibric Acid | LC-MS-MS | ng/L | 5 | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cotinine | LC-MS-MS | ng/L | 4.8 | 10 | 44 | <10 | <10 | <4.8 | 25 | <4.8 | 31 | <4.8 |
| Cyanazine | LC-MS-MS | ng/L | 1.7 | 5 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| DACT | LC-MS-MS | ng/L | 3.9 | 5 | 36 | <3.9 | 32 | <3.9 | 26 | <3.9 | 21 | <3.9 |
| DEET ² | LC-MS-MS | ng/L | 1.1 | 10 | 30 | <1.1 | 63 | <1.1 | 180 | <1.1 | 160 | <10 |
| Deethylatrazine | LC-MS-MS | ng/L | 1.5 | 5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| Dehydronifedipine | LC-MS-MS | ng/L | 1.4 | 5 | 160 | <5 | 120 | <5 | 360 | <1.4 | 40 | <1.4 |
| DIA | LC-MS-MS | ng/L | 2.4 | 5 | 5.5 | <2.4 | <5 | <2.4 | <5 | <2.4 | <5 | <2.4 |
| Diazepam | LC-MS-MS | ng/L | 2.1 | 5 | <5 | <2.1 | <5 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 |
| Diclofenac | LC-MS-MS | ng/L | 3.3 | 5 | 60 | <3.3 | 59 | <3.3 | 59 | <3.3 | 95 | <3.3 |
| Dilantin | LC-MS-MS | ng/L | 13 | 20 | 86 | <13 | 79 | <13 | 110 | <13 | 130 | <13 |
| Diuron | LC-MS-MS | ng/L | 1.8 | 5 | 42 | <5 | 60 | <1.8 | 74 | <5 | 61 | <1.8 |
| Erythromycin | LC-MS-MS | ng/L | 4 | 10 | 45 | <4 | 58 | <4 | 25 | <4 | 45 | <4 |
| Estradiol | LC-MS-MS | ng/L | 4.4 | 5 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 | <4.4 |
| Estrone | LC-MS-MS | ng/L | 3.9 | 5 | 16 | <3.9 | 10 | <3.9 | <3.9 | <3.9 | <3.9 | <3.9 |
| Ethinyl Estradiol - 17 alpha | LC-MS-MS | ng/L | 3.3 | 5 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 | <3.3 |
| Ethylparaben | LC-MS-MS | ng/L | 11 | 20 | <11 | <11 | <11 | <11 | <11 | <11 | <11 | <11 |
| Flumequine | LC-MS-MS | ng/L | 7.1 | 10 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 |
| Fluoxetine | LC-MS-MS | ng/L | 10 | 10 | 34 | <10 | 50 | <10 | 39 | <10 | 28 | <10 |
| Gemfibrozil | LC-MS-MS | ng/L | 2.5 | 5 | 68 | <2.5 | 73 | <2.5 | 34 | <2.5 | 28 | <2.5 |

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City of San Diego Public Utilities Department, Water Purification Demonstration Project
Advanced Water Purification Demonstration Facility (AWPF)
First Quarter through Fourth Quarter Monitoring Results

Table F Constituents of Emerging Concern (CECs), Continued

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | |
|----------------------------|----------|-------|-----|-----|--------------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|
| | | | | | 8/15/2011 | | 9/14/2011 | | 10/17/2011 | | 11/8/2011 | |
| | | | | | S1 | S10 | S1 | S10 | S1 | S10 | S1 | S10 |
| | | | | | Tertiary Effluent | AWPF Product | Tertiary Effluent | AWPF Product | Tertiary Effluent | AWPF Product | Tertiary Effluent | AWPF Product |
| Hydrazine | LC-MS-MS | ng/L | 2.5 | 5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Ibuprofen | LC-MS-MS | ng/L | 8.6 | 15 | <8.6 | <8.6 | 20 | <8.6 | <8.6 | <15 | <8.6 | <8.6 |
| Iohexal ² | LC-MS-MS | ng/L | 7.7 | 10 | 3100 | <7.7 | 9500 | 19 | 4500 | <7.7 | 4100 | <7.7 |
| Iopromide | LC-MS-MS | ng/L | 1.6 | 5 | 140 | <1.6 | 93 | <1.6 | <5 | <1.6 | 27 | <1.6 |
| Isobutylparaben | LC-MS-MS | ng/L | 4.2 | 5 | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 |
| Isoproturon | LC-MS-MS | ng/L | 12 | 100 | <12 | <12 | <12 | <12 | <12 | <12 | <100 | <12 |
| Ketoprofen | LC-MS-MS | ng/L | 2.6 | 5 | 10 | <2.6 | 11 | <2.6 | 38 | <2.6 | <5 | <2.6 |
| Ketorolac | LC-MS-MS | ng/L | 2.1 | 5 | 16 | <2.1 | <2.1 | <2.1 | <5 | <2.1 | <5 | <2.1 |
| Lidocaine | LC-MS-MS | ng/L | 1.1 | 5 | 78 | <1.1 | 100 | <1.1 | 90 | <1.1 | 120 | <1.1 |
| Lincomycin | LC-MS-MS | ng/L | 1.7 | 10 | <10 | <1.7 | <10 | <1.7 | <1.7 | <1.7 | <10 | <1.7 |
| Linuron | LC-MS-MS | ng/L | 2.8 | 5 | <5 | <2.8 | <2.8 | <2.8 | <2.8 | <2.8 | 6.3 | <2.8 |
| Lopressor | LC-MS-MS | ng/L | 5.1 | 20 | 400 | <5.1 | 280 | <5.1 | <5.1 | <5.1 | 270 | <5.1 |
| Meclofenamic Acid | LC-MS-MS | ng/L | 4.7 | 5 | <4.7 | <4.7 | <4.7 | <4.7 | <4.7 | <4.7 | <4.7 | <4.7 |
| Meprobamate | LC-MS-MS | ng/L | 2 | 5 | 110 | <5 | 130 | <2 | 92 | <2 | 120 | <2 |
| Metazachlor | LC-MS-MS | ng/L | 1.3 | 5 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| Methylparaben | LC-MS-MS | ng/L | 11 | 20 | <11 | <11 | <11 | <11 | <11 | <11 | <20 | <11 |
| Naproxen | LC-MS-MS | ng/L | 8.5 | 10 | <8.5 | <8.5 | <8.5 | <8.5 | 13 | <8.5 | 19 | <8.5 |
| Nifedipine | LC-MS-MS | ng/L | 12 | 20 | 48 | <12 | <12 | <12 | 40 | <12 | 57 | <12 |
| Norethisterone | LC-MS-MS | ng/L | 2.3 | 5 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <5 | <2.3 |
| Oxolinic acid ² | LC-MS-MS | ng/L | 2.5 | 10 | 19 | <10 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Pentoxifylline | LC-MS-MS | ng/L | 1.5 | 5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| Phenazone | LC-MS-MS | ng/L | 5 | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Primidone | LC-MS-MS | ng/L | 4.8 | 5 | 110 | <4.8 | 83 | <4.8 | 76 | <4.8 | 65 | <4.8 |
| Progesterone | LC-MS-MS | ng/L | 2.9 | 5 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 |
| Propazine | LC-MS-MS | ng/L | 1.8 | 5 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 |
| Propylparaben | LC-MS-MS | ng/L | 2.9 | 5 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 | <2.9 |
| Quinoline | LC-MS-MS | ng/L | 2.5 | 5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Simazine | LC-MS-MS | ng/L | 1.2 | 5 | 7.6 | <1.2 | 8.4 | <1.2 | 11 | <1.2 | 7.4 | <1.2 |
| Sucralose | LC-MS-MS | ng/L | 42 | 100 | 48000 | <42 | 34000 | <42 | 50000 | <42 | 26000 | <100 |
| Sulfachloropyridazine | LC-MS-MS | ng/L | 2.1 | 5 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <5 | <2.1 |
| Sulfadiazine | LC-MS-MS | ng/L | 3.9 | 5 | <3.9 | <3.9 | <3.9 | <3.9 | <3.9 | <3.9 | <5 | <3.9 |
| Sulfadimethoxine | LC-MS-MS | ng/L | 1.6 | 5 | <1.6 | <5 | <1.6 | <5 | <1.6 | <1.6 | <1.6 | <1.6 |
| Sulfamerazine | LC-MS-MS | ng/L | 4.6 | 5 | 16 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 |
| Sulfamethazine | LC-MS-MS | ng/L | 1.5 | 5 | <5 | <5 | <1.5 | <1.5 | <5 | <1.5 | <1.5 | <1.5 |
| Sulfamethizole | LC-MS-MS | ng/L | 3.2 | 5 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 |
| Sulfamethoxazole | LC-MS-MS | ng/L | 2.8 | 5 | 820 | <2.8 | 480 | <2.8 | 470 | <2.8 | 780 | <2.8 |
| Sulfathiazole | LC-MS-MS | ng/L | 2.4 | 5 | <2.4 | <5 | <2.4 | <2.4 | <2.4 | <2.4 | <2.4 | <2.4 |
| TCEP | LC-MS-MS | ng/L | 3.2 | 10 | 160 | <5 | 380 | <3.2 | 520 | <10 | 410 | <3.2 |
| TCPP | LC-MS-MS | ng/L | 5 | 5 | NR | NR | NR | NR | NR | NR | NR | NR |
| TDOPP | LC-MS-MS | ng/L | 20 | 100 | 500 | <20 | 650 | <20 | 710 | <20 | 320 | <20 |
| Testosterone | LC-MS-MS | ng/L | 2.5 | 5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Theobromine | LC-MS-MS | ng/L | 3.2 | 10 | <3.2 | <10 | 25 | <3.2 | <3.2 | <3.2 | <3.2 | <3.2 |
| Theophylline | LC-MS-MS | ng/L | 4.8 | 10 | <4.8 | <4.8 | 57 | <4.8 | <4.8 | <4.8 | <4.8 | <4.8 |
| Triclosan ² | LC-MS-MS | ng/L | 6.3 | 10 | 120 | <6.3 | 44 | 19 | 140 | <6.3 | 84 | <6.3 |
| Trimethoprim | LC-MS-MS | ng/L | 1.8 | 5 | 150 | <1.8 | 100 | <1.8 | 200 | <1.8 | 120 | <1.8 |
| Warfarin | LC-MS-MS | ng/L | 4.1 | 5 | <5 | <4.1 | <4.1 | <4.1 | <4.1 | <4.1 | <4.1 | <4.1 |

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City of San Diego Public Utilities Department, Water Purification Demonstration Project
Advanced Water Purification Demonstration Facility (AWPF)
First Quarter through Fourth Quarter Monitoring Results

Table G Other Radionuclides & Non-regulated Compounds

| Parameter | Method | Units | DL | RL | Sample Date ¹ | | | | | | | | | |
|---------------------------------|------------------------|-------|--------|------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|
| | | | | | 8/24/2011 | | 11/8/2011 | | 2/1/2012 | | 5/1/2012 | | 7/9/2012 | |
| | | | | | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product | S1 Tertiary Effluent | S10 AWPF Product |
| Cesium - 137 ² | Gamma Ray Spectrometry | pCi/L | NA | See Sample | <11.1 (MDA = 11.1) | <10.2 (MDA = 10.2) | <16.7 (MDA = 16.7) | <16 (MDA = 16) | <23.1 (MDA = 23.1) | <23.7 (MDA = 23.7) | <20.3 (MDA = 20.3) | <15 (MDA = 15) | Not Sampled | Not Sampled |
| Iodine - 129 ² | X-Ray Spectrometry | pCi/L | NA | See Sample | <3.86 (MDA = 3.86) | <3.25 (MDA = 3.25) | <2.4 (MDA = 2.4) | <4.17 (MDA = 4.17) | <3.86 (MDA = 3.86) | <3.47 (MDA = 3.47) | <2.16 (MDA = 2.16) | <3.73 (MDA = 3.73) | <0.57 (MDA = 0.57) | <0.64 (MDA = 0.64) |
| Iodine - 131 ² | Gamma Ray Spectrometry | pCi/L | NA | See Sample | 46.6 (MDA = 18.2) | <16 (MDA = 16) | <27.9 (MDA = 27.9) | <21.6 (MDA = 21.6) | <11.3 (MDA = 11.3) | <23.0 (MDA = 23.0) | <38.7 (MDA = 38.7) | <24.6 (MDA = 24.6) | 3.03 (MDA = 1.64) | <0.15 (MDA = 0.15) |
| Benzo (k) fluoranthene | EPA 525.2 | ug/L | 0.09 | 0.5 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 | Not Sampled | Not Sampled |
| Hexavalent chromium (Dissolved) | EPA 218.6 | ug/L | 0.0059 | 0.3 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | Not Sampled | Not Sampled |
| Lithium, Total | EPA 200.7 | ug/L | 1.4 | 10 | 26 | <1.4 | 20 | <1.4 | 23 | <10 | 28 | <10 | Not Sampled | Not Sampled |

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2) 'MDA' is the Minimum Detectable Activity at 95% confidence interval in a measure of radiation.

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