

Sonoma County Water Agency - Occidental, Todd and Sebastopol Production Wells - 2005 Water Quality Report

VOLATILE ORGANIC COMPOUNDS <i>Section 64444 - Table A</i>	Units	STATE MCL	DLR	MCLG (PHG)	Todd #1	Sebastopol #2	Occidental #2
					1-Sep-05	1-Sep-05	1-Sep-05
Benzene	mg/L	0.001	0.0005	(0.00015)	ND	ND	ND
Carbon Tetrachloride	mg/L	0.0005	0.0005	(0.0001)	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	mg/L	0.6	0.0005	(0.6)	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	mg/L	0.005	0.0005	(0.006)	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/L	0.005	0.0005	(0.003)	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	mg/L	0.0005	0.0005	(0.0004)	ND	ND	ND
1,1,-Dichloroethylene (1,1-DCE)	mg/L	0.006	0.0005	(0.01)	ND	ND	ND
cis-1,2-Dichloroethylene (c-1,2-DCE)	mg/L	0.006	0.0005	0.07	ND	ND	ND
trans-1,2-Dichloroethylene (t-1,2-DCE)	mg/L	0.01	0.0005	0.1	ND	ND	ND
Dichloromethane (Methylene Chloride)	mg/L	0.005	0.0005	(0.004)	ND	ND	ND
1,2-Dichloropropane	mg/L	0.005	0.0005	(0.0005)	ND	ND	ND
1,3-Dichloropropene	mg/L	0.0005	0.0005	(0.0002)	ND	ND	ND
Ethylbenzene	mg/L	0.3	0.0005	(0.3)	ND	ND	ND
Methyl tert-butyl ether (MTBE) ⁽¹⁾	mg/L	0.013	0.003	(0.013)	ND	ND	ND
Monochlorobenzene (Chlorobenzene)	mg/L	0.07	0.0005	(0.2)	ND	ND	ND
Styrene	mg/L	0.1	0.0005	0.1	ND	ND	ND
1,1,1,2-Tetrachloroethane	mg/L	0.001	0.0005	(0.0001)	ND	ND	ND
Tetrachloroethylene (PCE)	mg/L	0.005	0.0005	(0.00006)	ND	ND	ND
Toluene	mg/L	0.15	0.0005	(0.15)	ND	ND	ND
1,2,4-Trichlorobenzene	mg/L	0.005	0.0005	(0.005)	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	mg/L	0.2	0.0005	0.2	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	mg/L	0.005	0.0005	0.003	ND	ND	ND
Trichloroethylene (TCE)	mg/L	0.005	0.0005	(0.0008)	ND	ND	ND
Trichlorofluoromethane (Freon 11)	mg/L	0.15	0.005	(0.7)	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	mg/L	1.2	0.01	(4)	ND	ND	ND
Vinyl Chloride (VC)	mg/L	0.0005	0.0005	(0.00005)	ND	ND	ND
Xylenes (m.p. & o)	mg/L	1.75		(1.8)	ND	ND	ND

⁽¹⁾ Methyl tert-butyl ether (MTBE) is listed in both the Primary (Organic Chemicals - VOCs) and Secondary standards.

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SYNTHETIC ORGANIC COMPOUNDS <i>Section 64444 - Table A</i>	Units	STATE	DLR	MCLG	Todd #1	Sebastopol #2	Occidental #2
		MCL		(PHG)	1-Sep-05	1-Sep-05	1-Sep-05
Alachlor	mg/L	0.002	0.001	(0.004)	ND	ND	ND
Atrazine	mg/L	0.001	0.0005	(0.00015)	ND	ND	ND
Bentazon	mg/L	0.018	0.002	(0.2)	ND	ND	ND
Benzo(a)pyrene	mg/L	0.0002	0.0001	(0.000004)	ND	ND	ND
Carbofuran	mg/L	0.018	0.005	(0.0017)	ND	ND	ND
Chlordane	mg/L	0.0001	0.0001	(0.00003)	ND	ND	ND
2,4 - Dichlorophenoxyacetic acid (2,4-D)	mg/L	0.07	0.01	(0.07)	ND	ND	ND
Dalapon	mg/L	0.2	0.01	(0.79)	ND	ND	ND
Dibromochloropropane (DBCP)	mg/L	0.0002	0.00001	(0.0000017)	ND	ND	ND
Di(2-ethylhexyl)adipate	mg/L	0.4	0.005	(0.2)	ND	ND	ND
Di(2-ethylhexyl)phthalate	mg/L	0.004	0.003	(0.012)	ND	ND	ND
Dinoseb	mg/L	0.007	0.002	(0.014)	ND	ND	ND
Diquat	mg/L	0.02	0.004	(0.015)	ND	ND	ND
Endothall	mg/L	0.1	0.045	(0.58)	ND	ND	ND
Endrin	mg/L	0.002	0.0001	(0.0018)	ND	ND	ND
Ethylene Dibromide (EDB)	mg/L	0.00005	0.00002	(0.00001)	ND	ND	ND
Glyphosate	mg/L	0.7	0.025	(1)	ND	ND	ND
Heptachlor	mg/L	0.00001	0.00001	(0.000008)	ND	ND	ND
Heptachlor Epoxide	mg/L	0.00001	0.00001	(0.000006)	ND	ND	ND
Hexachlorobenzene	mg/L	0.001	0.0005	(0.00003)	ND	ND	ND
Hexachlorocyclopentadiene	mg/L	0.05	0.001	(0.05)	ND	ND	ND
Lindane	mg/L	0.0002	0.002	(0.000032)	ND	ND	ND
Methoxychlor	mg/L	0.03	0.01	(0.03)	ND	ND	ND
Molinate	mg/L	0.02	0.002	NA	ND	ND	ND
Oxamyl	mg/L	0.05	0.02	(0.05)	ND	ND	ND
Pentachlorophenol	mg/L	0.001	0.0002	(0.0004)	ND	ND	ND
Picloram	mg/L	0.5	0.001	(0.5)	ND	ND	ND
Polychlorinated Biphenyls (PCBs)	mg/L	0.0005	0.0005	0	ND	ND	ND
Simazine	mg/L	0.004	0.001	(0.004)	ND	ND	ND
Thiobencarb ⁽²⁾	mg/L	0.07	0.001	(0.07)	ND	ND	ND
Toxaphene	mg/L	0.003	0.001	(0.00003)	ND	ND	ND
2,3,7,8-TCDD (Dioxin)	mg/L	3 x 10 ⁻⁸	5 x 10 ⁻⁹	0	ND	ND	ND
2,4,5-TP (Silvex)	mg/L	0.05	0.001	(0.025)	ND	ND	ND

⁽²⁾ Thiobencarb is listed in both the Primary (Organic Chemicals - SOCs) and Secondary standards.

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INORGANIC CHEMICALS <i>Section 64431 - Table A</i>	Units	STATE MCL	DLR	MCLG (PHG)	Todd #1	Sebastopol #2	Occidental #2
					1-Sep-05	1-Sep-05	1-Sep-05
Aluminum ⁽³⁾	µg/L	1000	50	(600)	< 50	< 50	< 50
Antimony	µg/L	6	6	(20)	< 6	< 6	< 6
Arsenic	µg/L	10	2	(0.004)	< 2	< 2	< 2
Asbestos	MFL	7	0.2	7	< 0.2	< 0.2	< 0.2
Barium	µg/L	1000	100	(2000)	< 100	< 100	< 100
Beryllium	µg/L	4	1	(1)	< 1	< 1	< 1
Cadmium	µg/L	5	1	(0.07)	< 1	< 1	< 1
Chromium	µg/L	50	10	100	< 2	< 2	< 2
Cyanide	mg/L	0.15	0.1	(0.15)	< 0.005	< 0.005	< 0.005
Fluoride (F) Natural-Source	mg/L	2.0	0.1	(1)	0.10	0.19	0.18
Mercury	µg/L	2	1	(1.2)	< 0.2	< 0.2	< 0.2
Nickel	µg/L	100	10	(12)	< 2	< 2	< 2
Nitrate (as NO3)	mg/L	45	2	(45)	< 1	< 1	< 1
Nitrate + Nitrite (as N)	mg/L	10	0.4	(10)	<0.4	<0.4	<0.4
Nitrite (as N)	mg/L	1	0.4	(1)	<0.2	<0.2	<0.2
Selenium	µg/L	50	5	50	< 5	< 5	< 5
Thallium	µg/L	2	1	(0.1)	< 0.5	< 0.5	< 0.5

RADIOACTIVITY - <i>Section 64441</i>	Units	STATE MCL	DLR	MCLG (PHG)	Todd #1	Sebastopol #2	Occidental #2
Gross Alpha (4 quarterly samples every 4 years)							
16-Mar-05	pCi/L	15	3	0	-0.29 ± 0.35	-0.80 ± 0.90	-0.15 ± 0.40
8-Jun-05	pCi/L	15	3	0	-0.51 ± 0.49	-0.36 ± 0.43	-0.57 ± 0.48
1-Sep-05	pCi/L	15	3	0	0.261 ± 0.770	0.000 ± 0.470	0.000 ± 0.500
5-Dec-05	pCi/L	15	3	0	0.283 ± 0.816	0.309 ± 0.736	0.432 ± 0.806
Next Sample					Due 2009	Due 2009	Due 2009

⁽³⁾ Aluminum is listed in both the Primary (Inorganic Chemicals) and Secondary standards.

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SECONDARY STANDARDS <i>Section 64449 - Table A</i>	Units	Secondary MCL	DLR	MCLG (PHG)	Todd #1	Sebastopol #2	Occidental #2
					1-Sep-05	1-Sep-05	1-Sep-05
Aluminum ⁽³⁾	µg/L	200	50	(600)	< 50	< 50	< 50
Color	Color Units	15			< 3	< 3	< 3
Copper ⁽⁴⁾	µg/L	1300 ⁽⁴⁾	50	(170)	< 2	< 2	< 2
Foaming Agents (MBAS)	mg/L	0.5			< 0.05	< 0.05	< 0.05
Iron	µg/L	300	100		< 100	< 100	< 100
Manganese	µg/L	50	20		32.0	75.0	< 20
Methyl tert-butyl ether (MTBE) ⁽¹⁾	mg/L	0.005	0.003	(0.013)	< 0.0001	< 0.0001	< 0.0001
Odor - Threshold	TON	3			< 1	< 1	400
Silver	µg/L	100	10		< 10	< 10	< 10
Thiobencarb ⁽²⁾	mg/L	0.001	0.001	(0.07)	< 0.001	< 0.001	< 0.001
Turbidity	NTU	5			0.42	0.27	0.22
Zinc	µg/L	5000	50		<10	< 10	< 10

SECONDARY STANDARDS <i>Section 64449 - Table A</i>	Units	Secondary MCL	DLR	MCLG (PHG)	Sebastopol #2 (Quarterly for Color, Odor, Manganese)			
					16-Mar-05	8-Jun-05	1-Sep-05	5-Dec-05
Color	Color Units	15			3.0	< 3.0	< 3.0	< 3.0
Manganese	µg/L	50	20		70	75	75	63
Odor - Threshold	TON	3			1.5	4.0	< 1.0	4.0

SECONDARY STANDARDS <i>Section 64449 - Table B</i>	Units	Recommended MCL	DLR	Upper MCL	Todd #1	Sebastopol #2	Occidental #2
					1-Sep-05	1-Sep-05	1-Sep-05
Total Dissolved Solids	mg/L	500		1000	200	180	160
Specific Conductance	µmhos/cm	900		1600	270	260	260
Chloride	mg/L	250		500	24	14	14
Sulfate	mg/L	250	0.5	500	4.1	5.0	2.6

⁽¹⁾ Methyl tert-butyl ether (MTBE) is listed in both the Primary (Organic Chemicals - VOCs) and Secondary standards.

⁽²⁾ Thiobencarb is listed in both the Primary (Organic Chemicals - SOCs) and Secondary standards.

⁽³⁾ Aluminum is listed in both the Primary (Inorganic Chemicals) and Secondary standards.

⁽⁴⁾ Notification Level under the Lead and Copper Rule.

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ADDITIONAL CONSTITUENTS ANALYZED	Units	STATE MCL	DLR	MCLG (PHG)	Todd #1	Sebastopol #2	Occidental #2
					1-Sep-05	1-Sep-05	1-Sep-05
pH	pH				7.1	7.6	7.4
Total Hardness as CaCO ₃	mg/L				50	61	41
Calcium	mg/L				13	18	13
Magnesium	mg/L				4.2	3.8	2.2
Sodium	mg/L				34	29	40
Potassium	mg/L				1.5	1.2	< 1.0
Total Alkalinity as CaCO ₃	mg/L				100	100	120
Hydroxide as CaCO ₃	mg/L				< 5.0	< 5.0	< 5.0
Carbonate as CaCO ₃	mg/L				< 5.0	< 5.0	< 5.0
Bicarbonate as CaCO ₃	mg/L				100	100	120
Agressiveness Index					10.59	11.29	11.02
Lead ⁽⁴⁾	µg/L	15 ⁽⁴⁾	5	(2)	< 2.0	< 2.0	< 2.0
Total Radon 222 ± Counting Error	pCi/L		100		340 ± 27	142 ± 26	141 ± 22
N-Nitrosodimethylamine (NDMA) ⁽⁵⁾	µg/L	0.01 ⁽⁵⁾	0.002		< 0.002	< 0.002	< 0.002

⁽⁴⁾ Notification Level under the Lead and Copper Rule.

⁽⁵⁾ Notification Level

