

TRI DISTRICT/SOLDIER CANYON FILTER PLANT

(East Larimer County Water District; Fort Collins/Loveland Water District; North Weld County Water District)

WATER QUALITY REPORT

2ND QUARTER 2015

ANALYSIS PARAMETER <small>Monitored at SCFP (not a certified lab)</small>	Report	PLANT INFLUENT			PLANT EFFLUENT			MCL *SMCL
	Values	MIN	MAX	AVG	MIN	MAX	AVG	
ALKALINITY	mg/l	14.0	36.0	27.5	31.0	45.0	36.0	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.027	0.054	0.044	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	13.0	31.0	24.0	22.0	29.0	24.0	N/A
CHLORINE	mg/l	N/A	N/A	N/A	0.95	1.58	1.27	4.0
CHLORITE	mg/l	N/A	N/A	N/A	0.27	0.48	0.36	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.0	0.03	0.0	0.8
CONDUCTIVITY	µs/cm	42.8	99.2	76.8	85.6	115.8	99.5	N/A
DISSOLVED OXYGEN	mg/l	7.4	12.0	9.4	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.16	0.26	0.20	0.53	0.76	0.65	4.0/*2.0
HARDNESS (TOTAL)	mg/l	16.0	39.0	29.8	25.0	33.0	30.0	N/A
IRON	mg/l	0.03	0.27	0.12	0.01	0.01	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.51	-2.43	-1.83	-1.23	-1.48	-1.36	N/A
MANGANESE	mg/l	0.005	0.063	0.032	0.000	0.005	0.003	*0.05
pH	VALUE	7.12	7.89	7.54	7.74	8.04	7.92	N/A
TEMPERATURE	°C	4.0	13.6	7.3	4.8	9.3	6.6	N/A
TOTAL DISSOLVED SOLIDS	mg/l	21.1	49.4	38.3	45.2	57.9	51.6	*500
TRUE COLOR	APHA	5.0	61.0	21.3	0.0	1.0	1.0	*15.0
TURBIDITY	NTU	0.90	20.50	3.64	0.018	0.05	0.020	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (AL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
ANTIMONY	mg/l		BDL	6/18/2014	0.006
ARSENIC	mg/l		BDL	6/18/2014	0.010
BARIUM	mg/l		0.016	6/18/2014	2.000
BERYLLIUM	mg/l		BDL	6/18/2014	0.004
CADMIUM	mg/l		BDL	6/18/2014	0.005
CHROMIUM	mg/l		BDL	6/18/2014	0.1
CYANIDE	mg/l		NT	6/18/2014	0.2
FLUORIDE	mg/l		0.66	6/18/2014	4.0
MERCURY	mg/l		BDL	6/18/2014	0.002
NICKEL	mg/l		BDL	6/18/2014	*SMCL
SELENIUM	mg/l		BDL	6/18/2014	0.050
SODIUM	mg/l		10.6	6/18/2014	*SMCL
THALLIUM	mg/l		BDL	6/18/2014	0.002

NITRATE AND/OR NITRITE AS NITROGEN (AL) (UL) - (ENTRY INTO DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
NITRATE	mg/l		0.079	6/18/2014	10.000
NITRITE	mg/l		<0.01	2/12/2013	1.000

TOTAL ORGANIC CARBON (AL) - (PLANT INFLUENT AND EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		4.5	2.8	0.84	4/22/2015	RAA - ≥1.0
			3.8	2.1	1.28	5/6/2015	RAA - ≥1.0
			3.6	2.0	1.27	6/12/2015	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (PLANT INFLUENT ONLY)	mg/l		29.3			4/22/2015	N/A
			29.9			5/6/2015	N/A
			29.5			6/12/2015	N/A

RADIONUCLIDE ANALYSES (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

			RESULTS	DATE	MCL
GROSS ALPHA	pCi/L		1.7	8/24/2011	15
URANIUM	ppb		0.01	8/24/2011	30
RADIUM 226 + 228	pCi/L		0.76	8/24/2011	5
GROSS BETA	pCi/L		2.1	8/24/2011	50

ORGANIC CHEMICAL ANALYSES - VOC's (AL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

			RESULTS	DATE	MCL
1,1-DICHLOROETHYLENE	µg/L		BDL	6/18/2014	7
1,1,1-TRICHLOROETHANE	µg/L		BDL	6/18/2014	200
1,1,2-TRICHLOROETHANE	µg/L		BDL	6/18/2014	5
1,2-DICHLOROETHANE	µg/L		BDL	6/18/2014	5
1,2-DICHLOROPROPANE	µg/L		BDL	6/18/2014	5
1,2,4-TRICHLOROBENZENE	µg/L		BDL	6/18/2014	70
BENZENE	µg/L		BDL	6/18/2014	5
CARBON TETRACHLORIDE	µg/L		BDL	6/18/2014	5
cis-1,2-DICHLOROETHYLENE	µg/L		BDL	6/18/2014	70
DICHLORORMETHANE	µg/L		BDL	6/18/2014	5
ETHYLBENZENE	µg/L		BDL	6/18/2014	700
CHLOROBENZENE	µg/L		BDL	6/18/2014	100
o-DICHLOROBENZENE	µg/L		BDL	6/18/2014	600
para-DICHLOROBENZENE	µg/L		BDL	6/18/2014	75
STYRENE	µg/L		BDL	6/18/2014	100
TETRACHLOROETHYLENE	µg/L		BDL	6/18/2014	5
TOLUENE	µg/L		BDL	6/18/2014	1000
trans-1,2-DICHLOROETHYLENE	µg/L		BDL	6/18/2014	100
TRICHLOROETHYLENE	µg/L		BDL	6/18/2014	5
VINYL CHLORIDE	µg/L		BDL	6/18/2014	2
XYLENES (total)	µg/L		BDL	6/18/2014	1000

ORGANIC CHEMICAL ANALYSES - SOC's (AL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

			RESULTS	DATE	MCL	
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	BDL	6/18/2014	BDL	9/10/2014	0.2
2,4-D	µg/L	BDL	6/18/2014	BDL	9/10/2014	70
2,4,5-TP	µg/L	BDL	6/18/2014	BDL	9/10/2014	50
ALACHLOR (LASSO)	µg/L	BDL	6/18/2014	BDL	9/10/2014	2
ALDICARB	µg/L	BDL	6/18/2014	BDL	9/10/2014	N/A
ALDICARB SULFONE	µg/L	BDL	6/18/2014	BDL	9/10/2014	N/A
ALDICARB SULFOXIDE	µg/L	BDL	6/18/2014	BDL	9/10/2014	N/A
ATRAZINE	µg/L	BDL	6/18/2014	BDL	9/10/2014	3
BENZO(a)PYRENE	µg/L	BDL	6/18/2014	BDL	9/10/2014	0.2
CARBOFURAN	µg/L	BDL	6/18/2014	BDL	9/10/2014	40
CHLORDANE	µg/L	BDL	6/18/2014	BDL	9/10/2014	2
DALAPON	µg/L	BDL	6/18/2014	BDL	9/10/2014	200
DINOSEB	µg/L	BDL	6/18/2014	BDL	9/10/2014	7
DIQUAT	µg/L	BDL	6/18/2014	BDL	9/10/2014	20
DI(2-ethylhexyl)ADIPATE	µg/L	BDL	6/18/2014	BDL	9/10/2014	400
DI(2-ethylhexyl)PHTHALATE	µg/L	BDL	6/18/2014	BDL	9/10/2014	6
ENDOTHALL	µg/L	BDL	6/18/2014	BDL	9/10/2014	100
ENDRIN	µg/L	BDL	6/18/2014	BDL	9/10/2014	2
ETHYLENE DIBROMIDE	µg/L	BDL	6/18/2014	BDL	9/10/2014	0.05
HEPTACHLOR	µg/L	BDL	6/18/2014	BDL	9/10/2014	0.4
HEPTACHLOR EPOXIDE	µg/L	BDL	6/18/2014	BDL	9/10/2014	0.2
HEXACHLOROBENZENE	µg/L	BDL	6/18/2014	BDL	9/10/2014	1

ORGANIC CHEMICAL ANALYSES - SOC's (AL) (con't) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

						RESULTS	DATE	MCL
HEXACHLOROCYCLOPENTADIENE	µg/L		BDL	6/18/2014		BDL	9/10/2014	50
LINDANE/BHC-GAMMA	µg/L		BDL	6/18/2014		BDL	9/10/2014	0.2
METHOXYCHLOR	µg/L		BDL	6/18/2014		BDL	9/10/2014	40
OXAMYL	µg/L		BDL	6/18/2014		BDL	9/10/2014	200
PENTACHLOROPHENOL	µg/L		BDL	6/18/2014		BDL	9/10/2014	1
PICLORAM	µg/L		BDL	6/18/2014		BDL	9/10/2014	500
POLYCHLORINATED BIPHENYLS	µg/L		BDL	6/18/2014		BDL	9/10/2014	0.5
SIMAZINE	µg/L		BDL	6/18/2014		BDL	9/10/2014	4
TOXAPHENE	µg/L		BDL	6/18/2014		BDL	9/10/2014	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORITE (AL)

			MIN	MAX	AVG	DATE	MCL
CHLORITE	mg/L		0.617	0.737	0.684	4/7/2015	1.0

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MCL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.1	0.7	0.5	Apr-15	Low <trace High >4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.1	0.7	0.4	May-15	Low <trace High >4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.1	0.8	0.5	Jun-15	Low <trace High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	42	0.20	0.85	0.55	Apr-15	Low <trace High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	42	0.20	0.80	0.51	May-15	Low <trace High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	42	0.20	0.85	0.63	Jun-15	Low <trace High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.38	0.91	0.64	Apr-15	Low <trace High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.29	0.78	0.55	May-15	Low <trace High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.37	0.85	0.58	Jun-15	Low <trace High >4.0

TOTAL COLIFORMS (SE/WCL)

		TOTAL SAMPLES	# POSITIVE	# NEGITIVE	DATE	MCL
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Apr-15	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	May-15	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jun-15	>1 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		42	0	42	Apr-15	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		42	0	42	May-15	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		42	0	42	Jun-15	>2 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Apr-15	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	May-15	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jun-15	>1 POSITIVE

DISTRIBUTION SYSTEMS SAMPLES

<u>Total Trihalomethanes and Haloacetic Acids (AL)</u>		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
EAST LARIMER COUNTY WATER DISTRICT						
SAMPLE SITE - DBP001-ELCSM4	µg/L	35.4	80	18.7	60	2 QTR 2015
SAMPLE SITE - DBP002-ELCSM6	µg/L	48.7	80	3.8	60	2 QTR 2015
SAMPLE SITE - DBP003-ELCSM2	µg/L	22.5	80	12.9	60	2 QTR 2015
FORT COLLINS/LOVELAND WATER DISTRICT						
SAMPLE SITE - DBP001-FCLSM4	µg/L	27.1	80	15.8	60	2 QTR 2015
SAMPLE SITE - DBP002-FCLSM6	µg/L	34.9	80	7.2	60	2 QTR 2015
NORTH WELD COUNTY WATER DISTRICT						
SAMPLE SITE - DBP001-NWCMS1	µg/L	39.5	80	12.0	60	2 QTR 2015
SAMPLE SITE - DBP002-NWCMS4	µg/L	36.4	80	21.9	60	2 QTR 2015
SAMPLE SITE - DBP003-NWC MAX RES 1	µg/L	33.3	80	21.7	60	2 QTR 2015

<p>MCL = Maximum Contaminate Level - Enforcable</p> <p>*SMCL = Secondary Maximum Contaminate Level - Recommended</p> <p>**TT = Treatment Technique</p> <p>SOC = Synthetic Organic Chemicals</p> <p>RAA = Running Annual Average</p> <p>< = Less Than</p> <p>(FCL) = Fort Collins Lab (UL) = United Lab (AL) = Accutest Lab (SE) = Stewart Environmental Lab (WCL) = Weld County Lab</p>	<p>BDL = Below Detectable Limit</p> <p>ND = Not Detected</p> <p>N/A = Not applicable</p> <p>VOC = Volatile Organic Chemicals</p> <p>LRAA = Location Running Annual Average</p> <p>> = Greater Than</p>
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