

SOLDIER CANYON WATER TREATMENT AUTHORITY

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

WATER QUALITY REPORT

1ST QUARTER 2017

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	22.0	33.0	27.4	28.0	39.0	33.8	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.000	0.055	0.033	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	22.0	27.0	24.0	20.0	29.0	23.8	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.11	1.24	1.22	4.0
CHLORITE	mg/l	N/A	N/A	N/A	0.35	0.64	0.49	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.03	0.00	0.8
CONDUCTIVITY	µs/cm	69.8	73.4	71.1	89.2	101.3	94.8	N/A
DISSOLVED OXYGEN	mg/l	9.7	11.5	10.5	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.17	0.21	0.19	0.55	0.84	0.70	4.0/*2.0
HARDNESS (TOTAL)	mg/l	25.0	34.0	29.1	27.0	35.0	28.9	N/A
IRON	mg/l	0.01	0.02	0.02	0.00	0.02	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.70	-1.90	-1.77	-0.87	-1.54	-1.37	N/A
MANGANESE	mg/l	0.01	0.03	0.02	0.001	0.009	0.004	*0.05
pH	VALUE	7.40	7.99	7.73	7.84	8.10	7.98	N/A
TEMPERATURE	°C	2.5	4.6	3.5	2.6	4.9	3.7	N/A
TOTAL DISSOLVED SOLIDS	mg/l	34.2	36.3	35.5	44.8	50.7	47.4	*500
TRUE COLOR	APHA	2.0	9.0	5.0	0.0	2.0	1.0	*15.0
TURBIDITY	NTU	0.76	1.27	0.97	0.018	0.040	0.019	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (AL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

	RESULTS	DATE	MCL	
ANTIMONY	mg/l	BDL	3/8/2017	0.006
ARSENIC	mg/l	BDL	3/8/2017	0.010
BARIUM	mg/l	0.017	3/8/2017	2.000
BERYLLIUM	mg/l	BDL	3/8/2017	0.004
CADMIUM	mg/l	BDL	3/8/2017	0.005
CHROMIUM	mg/l	BDL	3/8/2017	0.1
FLUORIDE	mg/l	0.74	3/8/2017	4.0
MERCURY	mg/l	BDL	3/8/2017	0.002
NICKEL	mg/l	BDL	3/8/2017	N/A
SELENIUM	mg/l	BDL	3/8/2017	0.050
SODIUM	mg/l	8.6	3/8/2017	N/A
THALLIUM	mg/l	BDL	3/8/2017	0.002

NITRATE AND/OR NITRITE AS NITROGEN (AL) (UL) - (ENTRY INTO DISTRIBUTION SYSTEM)

	RESULTS	DATE	MCL	
NITRATE	mg/l	BDL	3/8/2017	10.000
NITRITE	mg/l	<0.01	2/12/2013	1.000

TOTAL ORGANIC CARBON (AL) (FCL) - (SCFP INFLUENT AND EFFLUENT)

	INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT	
TOTAL ORGANIC CARBON - TOC	mg/L	3.5	2.3	1.16	1/11/2017	RAA - ≥1.0
		3.57	2.02	1.17	2/7/2017	RAA - ≥1.0
		3.2	1.9	1.18	3/8/2017	RAA - ≥1.0
	INFLUENT			DATE	MCL	
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l	27.8		1/11/2017	N/A	
		28.0		2/7/2017	N/A	
		28.2		3/8/2017	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
1,1,1-TRICHLOROETHANE	µg/L		BDL	3/8/2017	200
1,1,2-TRICHLOROETHANE	µg/L		BDL	3/8/2017	5
1,1-DICHLOROETHYLENE	µg/L		BDL	3/8/2017	7
1,2,4-TRICHLOROBENZENE	µg/L		BDL	3/8/2017	70
1,2-DICHLOROETHANE	µg/L		BDL	3/8/2017	5
1,2-DICHLOROPROPANE	µg/L		BDL	3/8/2017	5
BENZENE	µg/L		BDL	3/8/2017	5
CARBON TETRACHLORIDE	µg/L		BDL	3/8/2017	5
CHLOROBENZENE	µg/L		BDL	3/8/2017	100
cis-1,2-DICHLOROETHYLENE	µg/L		BDL	3/8/2017	70
DICHLOROMETHANE	µg/L		BDL	3/8/2017	5
ETHYLBENZENE	µg/L		BDL	3/8/2017	700
o-DICHLOROBENZENE	µg/L		BDL	3/8/2017	600
para-DICHLOROBENZENE	µg/L		BDL	3/8/2017	75
STYRENE	µg/L		BDL	3/8/2017	100
TETRACHLOROETHYLENE	µg/L		BDL	3/8/2017	5
TOLUENE	µg/L		BDL	3/8/2017	1000
trans-1,2-DICHLOROETHYLENE	µg/L		BDL	3/8/2017	100
TRICHLOROETHYLENE	µg/L		BDL	3/8/2017	5
VINYL CHLORIDE	µg/L		BDL	3/8/2017	2
XYLENES (total)	µg/L		BDL	3/8/2017	10000

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

					RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L		BDL	9/10/2014	BDL	3/8/2017	0.2
2,4-D	µg/L		BDL	9/10/2014	BDL	3/8/2017	70
2,4,5-TP	µg/L		BDL	9/10/2014	BDL	3/8/2017	50
ALACHLOR (LASSO)	µg/L		BDL	9/10/2014	BDL	3/8/2017	2
ALDICARB	µg/L		BDL	9/10/2014	BDL	3/8/2017	N/A
ALDICARB SULFONE	µg/L		BDL	9/10/2014	BDL	3/8/2017	N/A
ALDICARB SULFOXIDE	µg/L		BDL	9/10/2014	BDL	3/8/2017	N/A
ATRAZINE	µg/L		BDL	9/10/2014	BDL	3/8/2017	3
BENZO(a)PYRENE	µg/L		BDL	9/10/2014	BDL	3/8/2017	0.2
CARBOFURAN	µg/L		BDL	9/10/2014	BDL	3/8/2017	40
CHLORDANE	µg/L		BDL	9/10/2014	BDL	3/8/2017	2
DALAPON	µg/L		BDL	9/10/2014	1.9	3/8/2017	200
DINOSEB	µg/L		BDL	9/10/2014	BDL	3/8/2017	7
DIQUAT	µg/L		BDL	9/10/2014	BDL	3/8/2017	20
DI(2-ethylhexyl)ADIPATE	µg/L		BDL	9/10/2014	BDL	3/8/2017	400
DI(2-ethylhexyl)PHTHALATE	µg/L		BDL	9/10/2014	BDL	3/8/2017	6
ENDOTHALL	µg/L		BDL	9/10/2014	BDL	3/8/2017	100
ENDRIN	µg/L		BDL	9/10/2014	BDL	3/8/2017	2
ETHYLENE DIBROMIDE	µg/L		BDL	9/10/2014	BDL	3/8/2017	0.05
HEPTACHLOR	µg/L		BDL	9/10/2014	BDL	3/8/2017	0.4
HEPTACHLOR EPOXIDE	µg/L		BDL	9/10/2014	BDL	3/8/2017	0.2
HEXACHLOROBENZENE	µg/L		BDL	9/10/2014	BDL	3/8/2017	1

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

						RESULTS	DATE	MCL
HEXACHLOROCYCLOPENTADIENE	µg/L		BDL	9/10/2014		BDL	3/8/2017	50
LINDANE/BHC-GAMMA	µg/L		BDL	9/10/2014		BDL	3/8/2017	0.2
METHOXYCHLOR	µg/L		BDL	9/10/2014		BDL	3/8/2017	40
OXAMYL	µg/L		BDL	9/10/2014		BDL	3/8/2017	200
PENTACHLOROPHENOL	µg/L		BDL	9/10/2014		BDL	3/8/2017	1
PICLORAM	µg/L		BDL	9/10/2014		BDL	3/8/2017	500
POLYCHLORINATED BIPHENYLS	µg/L		BDL	9/10/2014		BDL	3/8/2017	0.5
SIMAZINE	µg/L		BDL	9/10/2014		BDL	3/8/2017	4
TOXAPHENE	µg/L		BDL	9/10/2014		BDL	3/8/2017	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MCL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.30	1.00	0.76	Jan-17	Low <0.2 High >4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.30	0.90	0.72	Feb-17	Low <0.2 High >4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.30	1.00	0.80	Mar-17	Low <0.2 High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.25	1.10	0.74	Jan-17	Low <0.2 High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	42	0.25	1.05	0.70	Feb-17	Low <0.2 High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.25	1.20	0.77	Mar-17	Low <0.2 High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.37	0.96	0.76	Jan-17	Low <0.2 High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.42	1.00	0.81	Feb-17	Low <0.2 High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.28	1.00	0.79	Mar-17	Low <0.2 High >4.0

TOTAL COLIFORMS (SE/WCL)

		TOTAL SAMPLES	# POSITIVE	# NEGITIVE	DATE	MCL **TT LEVEL 1 or 2
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jan-17	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Feb-17	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Mar-17	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Jan-17	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		42	0	42	Feb-17	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Mar-17	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jan-17	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Feb-17	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Mar-17	NO/NO

DISTRIBUTION SYSTEMS SAMPLES

Total Trihalomethanes and Haloacetic Acids

		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
EAST LARIMER COUNTY WATER DISTRICT (AL)						
SAMPLE SITE - DBP001	µg/L	30.3	80	33.5	60	1/26/2017
SAMPLE SITE - DBP002	µg/L	46.2	80	26.6	60	1/26/2017
SAMPLE SITE - DBP003	µg/L	30.7	80	33.7	60	1/26/2017
SAMPLE SITE - DBP004	µg/L	45.6	80	24.0	60	1/26/2017

FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	18.5	80	19.9	60	1/11/2017
SAMPLE SITE - DBP002	µg/L	37.8	80	25.5	60	1/11/2017
SAMPLE SITE - DBP003	µg/L	28.3	80	26.6	60	1/11/2017
SAMPLE SITE - DBP004	µg/L	35.2	80	25.6	60	1/11/2017

NORTH WELD COUNTY WATER DISTRICT (AL)						
SAMPLE SITE - DBP001	µg/L	43.0	80	24.6	60	1/24/2017
SAMPLE SITE - DBP002	µg/L	31.1	80	30.6	60	1/24/2017
SAMPLE SITE - DBP003	µg/L	30.9	80	29.0	60	1/24/2017
SAMPLE SITE - DBP004	µg/L	27.2	80	25.1	60	1/24/2017

CHLORITE

		1ST RES	AVG RES	MAX RES	DATE	MCL
EAST LARIMER COUNTY WD (FCL)	mg/L	0.45	0.44	0.42	3/8/2017	1.0
FORT COLLINS/LOVELAND WD (EA)	mg/L	0.46	0.46	0.34	1/13/2017	1.0
NORTH WELD COUNTY WD (AL)	mg/L	0.45	0.43	0.44	2/14/2017	1.0

LEAD AND COPPER (AL)

		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
LEAD	mg/L	0.0085	Jun-15	0.015
COPPER	mg/L	0.34	Jun-15	1.3

MCL = Maximum Contaminate Level - Enforcable

*SMCL = Secondary Maximum Contaminate Level - Reccomended

**TT = Treatment Technique

SOC = Synthetic Organic Chemicals

RAA = Running Annual Average

ACTION LEVEL = Addition treatment required if exceeded

< = Less Than

(FCL) = Fort Collins Lab (UL) = United Lab (AL) = Accutest Lab (SE) = Stewart Environmental Lab (WCL) = Weld County Lab

(CA) = Colorado Analytical Lab (EA) = Eurofins Eaton Analytical (SCFP) = Soldier Canyon Filter Plant

BDL = Below Detectable Limit

ND = Not Detected

N/A = Not applicable

VOC = Volatile Organic Chemicals

LRAA = Location Running Annual Average

> = Greater Than