

SOLDIER CANYON WATER TREATMENT AUTHORITY

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

WATER QUALITY REPORT

2ND 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	9.0	38.0	24.7	30.0	48.0	38.3	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.030	0.052	0.044	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	11.0	29.0	21.2	18.0	26.0	21.5	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.12	1.26	1.25	4.0
CHLORITE	mg/l	N/A	N/A	N/A	0.34	0.79	0.55	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.00	0.00	0.8
CONDUCTIVITY	µs/cm	33.7	93.6	64.5	105.9	121.1	111.7	N/A
DISSOLVED OXYGEN	mg/l	7.2	12.1	9.1	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.08	0.22	0.16	0.14	0.82	0.70	4.0/*2.0
HARDNESS (TOTAL)	mg/l	13.0	35.0	26.7	23.0	33.0	28.8	N/A
IRON	mg/l	0.00	0.28	0.09	0.00	0.02	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.40	-2.60	-1.98	-1.08	-1.49	-1.31	N/A
MANGANESE	mg/l	0.01	0.05	0.02	0.001	0.005	0.004	*0.05
pH	VALUE	6.87	8.01	7.50	7.86	8.17	7.98	N/A
TEMPERATURE	°C	3.2	13.3	7.9	4.7	11.4	7.6	N/A
TOTAL DISSOLVED SOLIDS	mg/l	16.7	46.8	32.4	53.0	60.5	55.8	*500
TRUE COLOR	APHA	4.0	61.0	22.3	0.0	3.0	1.3	*15.0
TURBIDITY	NTU	0.53	16.50	2.65	0.018	0.029	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		3.2	2.0	1.07	4/6/2017	RAA - ≥1.0
			3.3	1.9	1.21	5/9/2017	RAA - ≥1.0
			3.6	1.9	1.35	6/6/2017	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l		31.3			4/6/2017	N/A
			26.1			5/9/2017	N/A
			38.8			6/6/2017	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	3/8/2017	BDL	6/6/2017	0.2
2,4-D	µg/L	BDL	3/8/2017	BDL	6/6/2017	70
2,4,5-TP	µg/L	BDL	3/8/2017	BDL	6/6/2017	50
ALACHLOR (LASSO)	µg/L	BDL	3/8/2017	BDL	6/6/2017	2
ALDICARB	µg/L	BDL	3/8/2017	BDL	6/6/2017	N/A
ALDICARB SULFONE	µg/L	BDL	3/8/2017	BDL	6/6/2017	N/A
ALDICARB SULFOXIDE	µg/L	BDL	3/8/2017	BDL	6/6/2017	N/A
ATRAZINE	µg/L	BDL	3/8/2017	BDL	6/6/2017	3
BENZO(a)PYRENE	µg/L	BDL	3/8/2017	BDL	6/6/2017	0.2
CARBOFURAN	µg/L	BDL	3/8/2017	BDL	6/6/2017	40
CHLORDANE	µg/L	BDL	3/8/2017	BDL	6/6/2017	2
DALAPON	µg/L	1.9	3/8/2017	1.7	6/6/2017	200
DINOSEB	µg/L	BDL	3/8/2017	BDL	6/6/2017	7
DIQUAT	µg/L	BDL	3/8/2017	BDL	6/6/2017	20
DI(2-ethylhexyl)ADIPATE	µg/L	BDL	3/8/2017	BDL	6/6/2017	400
DI(2-ethylhexyl)PHTHALATE	µg/L	BDL	3/8/2017	0.96	6/6/2017	6
ENDOTHALL	µg/L	BDL	3/8/2017	BDL	6/6/2017	100
ENDRIN	µg/L	BDL	3/8/2017	BDL	6/6/2017	2
ETHYLENE DIBROMIDE	µg/L	BDL	3/8/2017	BDL	6/6/2017	0.05
HEPTACHLOR	µg/L	BDL	3/8/2017	BDL	6/6/2017	0.4
HEPTACHLOR EPOXIDE	µg/L	BDL	3/8/2017	BDL	6/6/2017	0.2
HEXACHLOROBENZENE	µg/L	BDL	3/8/2017	BDL	6/6/2017	1

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

						RESULTS	DATE	MCL
HEXACHLOROCYCLOPENTADIENE	µg/L		BDL	3/8/2017		BDL	6/6/2017	50
LINDANE/BHC-GAMMA	µg/L		BDL	3/8/2017		0.034	6/6/2017	0.2
METHOXYCHLOR	µg/L		BDL	3/8/2017		BDL	6/6/2017	40
OXAMYL	µg/L		BDL	3/8/2017		BDL	6/6/2017	200
PENTACHLOROPHENOL	µg/L		BDL	3/8/2017		BDL	6/6/2017	1
PICLORAM	µg/L		BDL	3/8/2017		BDL	6/6/2017	500
POLYCHLORINATED BIPHENYLS	µg/L		BDL	3/8/2017		BDL	6/6/2017	0.5
SIMAZINE	µg/L		BDL	3/8/2017		BDL	6/6/2017	4
TOXAPHENE	µg/L		BDL	3/8/2017		BDL	6/6/2017	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	0.75	Apr-17	Low <0.2 High >4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.30	1.00	0.83	May-17	Low <0.2 High >4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.50	1.10	0.86	Jun-17	Low <0.2 High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.20	1.50	0.69	Apr-17	Low <0.2 High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	41	0.20	1.10	0.65	May-17	Low <0.2 High >4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	41	0.20	1.10	0.71	Jun-17	Low <0.2 High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.34	1.01	0.82	Apr-17	Low <0.2 High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.25	1.01	0.81	May-17	Low <0.2 High >4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.19	1.07	0.82	Jun-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	Apr-17	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	May-17	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jun-17	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Apr-17	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		41	0	41	May-17	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		41	0	41	Jun-17	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Apr-17	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	May-17	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jun-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	36.6	80	37.4	60	Apr-17
SAMPLE SITE - DBP002	µg/L	46.5	80	36.2	60	Apr-17
SAMPLE SITE - DBP003	µg/L	39.0	80	36.5	60	Apr-17
SAMPLE SITE - DBP004	µg/L	35.5	80	33.5	60	Apr-17

FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	18.0	80	32.5	60	4/12/2017
SAMPLE SITE - DBP002	µg/L	34.1	80	25.0	60	4/12/2017
SAMPLE SITE - DBP003	µg/L	23.4	80	29.3	60	4/12/2017
SAMPLE SITE - DBP004	µg/L	37.4	80	28.7	60	4/12/2017

NORTH WELD COUNTY WATER DISTRICT (AL)						
SAMPLE SITE - DBP001	µg/L	43.8	80	25.3	60	4/11/2017
SAMPLE SITE - DBP002	µg/L	31.9	80	35.3	60	4/11/2017
SAMPLE SITE - DBP003	µg/L	33.7	80	28.6	60	4/11/2017
SAMPLE SITE - DBP004	µg/L	30.7	80	28.6	60	4/11/2017

CHLORITE

		1ST RES	AVG RES	MAX RES	DATE	MCL
EAST LARIMER COUNTY WD (FCL)	mg/L	0.57	0.54	0.38	4/24/2017	1.0
FORT COLLINS/LOVELAND WD (EA)	mg/L	0.13	0.52	0.51	4/12/2017	1.0
NORTH WELD COUNTY WD (AL)	mg/L	ND	ND	ND	5/25/2017	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