

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 2018

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	20.0	34.0	25.4	22.0	42.0	31.4	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.033	0.052	0.043	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	22.0	28.0	24.6	20.0	28.0	24.8	N/A
CHLORINE	mg/l	N/A	N/A	N/A	0.87	1.30	1.12	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.17	0.55	0.45	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	<0.02	<0.02	<0.02	0.8
CONDUCTIVITY	µs/cm	65.8	108.0	74.6	91.1	105.4	97.9	N/A
DISSOLVED OXYGEN	mg/l	10.1	11.8	10.7	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.14	0.29	0.20	0.63	0.83	0.73	4.0/*2.0
HARDNESS (TOTAL)	mg/l	26.0	32.0	30.0	25.0	35.0	29.5	N/A
IRON	mg/l	0.02	0.05	0.04	0.00	0.01	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.20	-2.00	-1.83	-1.25	-1.64	-1.43	N/A
MANGANESE	mg/l	0.02	0.04	0.03	0.000	0.006	0.004	*0.05
pH	VALUE	7.46	7.78	7.66	7.82	8.17	7.99	N/A
TEMPERATURE	°C	2.2	4.6	3.0	2.4	4.7	3.1	N/A
TOTAL DISSOLVED SOLIDS	mg/l	33.4	53.8	37.3	45.8	53.0	48.9	*500
TRUE COLOR	APHA	3.0	10.0	6.3	0.0	4.0	0.3	*15.0
TURBIDITY	NTU	1.73	3.16	2.31	0.020	0.054	0.023	**<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) - (ENTRY INTO DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
NITRATE	mg/l		<0.010	3/8/2017	10.000
NITRITE	mg/l		<0.01	2/12/2013	1.000

TOTAL ORGANIC CARBON (AL) - (SCFP INFLUENT AND EFFLUENT)		INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L	3.4	1.9	1.26	1/11/2018	RAA - ≥1.0
		3.3	1.9	1.21	2/7/2018	RAA - ≥1.0
		3.5	2.3	0.98	3/22/2018	RAA - ≥1.0
		INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l	27.9			1/11/2018	N/A
		43.2			2/7/2018	N/A
		26.7			3/22/2018	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		ND	3/8/2017	200
1,1,2-TRICHLOROETHANE	µg/L		ND	3/8/2017	5
1,1-DICHLOROETHYLENE	µg/L		ND	3/8/2017	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	3/8/2017	70
1,2-DICHLOROETHANE	µg/L		ND	3/8/2017	5
1,2-DICHLOROPROPANE	µg/L		ND	3/8/2017	5
BENZENE	µg/L		ND	3/8/2017	5
CARBON TETRACHLORIDE	µg/L		ND	3/8/2017	5
CHLOROBENZENE	µg/L		ND	3/8/2017	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	3/8/2017	70
DICHLOROMETHANE	µg/L		ND	3/8/2017	5
ETHYLBENZENE	µg/L		ND	3/8/2017	700
o-DICHLOROBENZENE	µg/L		ND	3/8/2017	600
para-DICHLOROBENZENE	µg/L		ND	3/8/2017	75
STYRENE	µg/L		ND	3/8/2017	100
TETRACHLOROETHYLENE	µg/L		ND	3/8/2017	5
TOLUENE	µg/L		ND	3/8/2017	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	3/8/2017	100
TRICHLOROETHYLENE	µg/L		ND	3/8/2017	5
VINYL CHLORIDE	µg/L		ND	3/8/2017	2
XYLENES (total)	µg/L		ND	3/8/2017	10000

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

		RESULTS	DATE	RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	ND	6/6/2017	ND	9/7/2017	0.2
2,4-D	µg/L	ND	6/6/2017	ND	9/7/2017	70
2,4,5-TP	µg/L	ND	6/6/2017	ND	9/7/2017	50
ALACHLOR (LASSO)	µg/L	ND	6/6/2017	ND	9/7/2017	2
ALDICARB	µg/L	ND	6/6/2017	ND	9/7/2017	N/A
ALDICARB SULFONE	µg/L	ND	6/6/2017	ND	9/7/2017	N/A
ALDICARB SULFOXIDE	µg/L	ND	6/6/2017	ND	9/7/2017	N/A
ATRAZINE	µg/L	ND	6/6/2017	ND	9/7/2017	3
BENZO(a)PYRENE	µg/L	ND	6/6/2017	ND	9/7/2017	0.2
CARBOFURAN	µg/L	ND	6/6/2017	ND	9/7/2017	40
CHLORDANE	µg/L	ND	6/6/2017	ND	9/7/2017	2
DALAPON	µg/L	1.7	6/6/2017	ND	9/7/2017	200
DINOSEB	µg/L	ND	6/6/2017	ND	9/7/2017	7
DIQUAT	µg/L	ND	6/6/2017	ND	9/7/2017	20
DI(2-ethylhexyl)ADIPATE	µg/L	ND	6/6/2017	ND	9/7/2017	400
DI(2-ethylhexyl)PHTHALATE	µg/L	0.96	6/6/2017	ND	9/7/2017	6
ENDOTHALL	µg/L	ND	6/6/2017	ND	9/7/2017	100
ENDRIN	µg/L	ND	6/6/2017	ND	9/7/2017	2
ETHYLENE DIBROMIDE	µg/L	ND	6/6/2017	ND	9/7/2017	0.05
HEPTACHLOR	µg/L	ND	6/6/2017	ND	9/7/2017	0.4
HEPTACHLOR EPOXIDE	µg/L	ND	6/6/2017	ND	9/7/2017	0.2

ORGANIC CHEMICAL ANALYSES - SOC's (AL) (con't)

		RESULTS	DATE	RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L	ND	6/6/2017	ND	9/7/2017	1
HEXACHLOROCYCLOPENTADIENE	µg/L	ND	6/6/2017	ND	9/7/2017	50
LINDANE/BHC-GAMMA	µg/L	0.034	6/6/2017	ND	9/7/2017	0.2
METHOXYCHLOR	µg/L	ND	6/6/2017	ND	9/7/2017	40
OXAMYL	µg/L	ND	6/6/2017	ND	9/7/2017	200
PENTACHLOROPHENOL	µg/L	ND	6/6/2017	ND	9/7/2017	1
PICLORAM	µg/L	ND	6/6/2017	ND	9/7/2017	500
POLYCHLORINATED BIPHENYLS	µg/L	ND	6/6/2017	ND	9/7/2017	0.5
SIMAZINE	µg/L	ND	6/6/2017	ND	9/7/2017	4
TOXAPHENE	µg/L	ND	6/6/2017	ND	9/7/2017	3

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

		RESULTS	DATE	RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	ND	12/5/2017	ND	2/7/2018	0.2
2,4-D	µg/L	ND	12/5/2017	ND	2/7/2018	70
2,4,5-TP	µg/L	ND	12/5/2017	ND	2/7/2018	50
ALACHLOR (LASSO)	µg/L	ND	12/5/2017	ND	2/7/2018	2
ALDICARB	µg/L	ND	12/5/2017	ND	2/7/2018	N/A
ALDICARB SULFONE	µg/L	ND	12/5/2017	ND	2/7/2018	N/A
ALDICARB SULFOXIDE	µg/L	ND	12/5/2017	ND	2/7/2018	N/A
ATRAZINE	µg/L	ND	12/5/2017	ND	2/7/2018	3
BENZO(a)PYRENE	µg/L	ND	12/5/2017	NT	2/7/2018	0.2
CARBOFURAN	µg/L	ND	12/5/2017	ND	2/7/2018	40
CHLORDANE	µg/L	ND	12/5/2017	ND	2/7/2018	2
DALAPON	µg/L	ND	12/5/2017	ND	2/7/2018	200
DINOSEB	µg/L	ND	12/5/2017	ND	2/7/2018	7
DIQUAT	µg/L	ND	12/5/2017	ND	2/7/2018	20
DI(2-ethylhexyl)ADIPATE	µg/L	ND	12/5/2017	ND	2/7/2018	400
DI(2-ethylhexyl)PHTHALATE	µg/L	ND	12/5/2017	ND	2/7/2018	6
ENDOTHALL	µg/L	ND	12/5/2017	ND	2/7/2018	100
ENDRIN	µg/L	ND	12/5/2017	ND	2/7/2018	2
ETHYLENE DIBROMIDE	µg/L	ND	12/5/2017	ND	2/7/2018	0.05
HEPTACHLOR	µg/L	ND	12/5/2017	ND	2/7/2018	0.4
HEPTACHLOR EPOXIDE	µg/L	ND	12/5/2017	ND	2/7/2018	0.2
HEXACHLOROBENZENE	µg/L	ND	12/5/2017	ND	2/7/2018	1
HEXACHLOROCYCLOPENTADIENE	µg/L	ND	12/5/2017	ND	2/7/2018	50
LINDANE/BHC-GAMMA	µg/L	ND	12/5/2017	ND	2/7/2018	0.2
METHOXYCHLOR	µg/L	ND	12/5/2017	ND	2/7/2018	40
OXAMYL	µg/L	ND	12/5/2017	ND	2/7/2018	200
PENTACHLOROPHENOL	µg/L	ND	12/5/2017	ND	2/7/2018	1
PICLORAM	µg/L	ND	12/5/2017	ND	2/7/2018	500
POLYCHLORINATED BIPHENYLS	µg/L	ND	12/5/2017	ND	2/7/2018	0.5
SIMAZINE	µg/L	ND	12/5/2017	ND	2/7/2018	4
TOXAPHENE	µg/L	ND	12/5/2017	ND	2/7/2018	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.22	1.03	0.76	Jan-18	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.43	1.01	0.72	Feb-18	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.23	0.90	0.56	Mar-18	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT							
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.20	1.20	0.71	Jan-18	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.30	1.20	0.68	Feb-18	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.30	0.95	0.57	Mar-18	4.0
NORTH WELD COUNTY WATER DISTRICT							
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.30	1.02	0.83	Jan-18	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.68	0.98	0.86	Feb-18	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.51	1.13	0.73	Mar-18	4.0

TOTAL COLIFORMS (MMS/WCL)

		TOTAL SAMPLES	# POSITIVE	# NEGITIVE	DATE	MCL **TT LEVEL 1 or 2
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jan-18	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Feb-18	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Mar-18	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT						
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Jan-18	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Feb-18	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Mar-18	NO/NO
NORTH WELD COUNTY WATER DISTRICT						
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jan-18	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Feb-18	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Mar-18	NO/NO

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	28.1	80	33.1	60	1/24/2018
SAMPLE SITE - DBP002	µg/L	38.2	80	24.3	60	1/24/2018
SAMPLE SITE - DBP003	µg/L	13.7	80	21.8	60	1/24/2018
SAMPLE SITE - DBP004	µg/L	36.5	80	23.0	60	1/24/2018
FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	14.6	80	16.6	60	1/9/2018
SAMPLE SITE - DBP002	µg/L	26.9	80	21.4	60	1/9/2018
SAMPLE SITE - DBP003	µg/L	19.8	80	19.3	60	1/9/2018
SAMPLE SITE - DBP004	µg/L	23.7	80	15.2	60	1/9/2018

Total Trihalomethanes and Haloacetic Acids (cont)

		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
NORTH WELD COUNTY WATER DISTRICT (AL)						
SAMPLE SITE - DBP001	µg/L	31.4	80	19.5	60	1/9/2018
SAMPLE SITE - DBP002	µg/L	26.6	80	29.0	60	1/9/2018
SAMPLE SITE - DBP003	µg/L	29.3	80	28.1	60	1/9/2018
SAMPLE SITE - DBP004	µg/L	25.7	80	22.5	60	1/9/2018

CHLORITE

		1ST RES	AVG RES	MAX RES	DATE	MCL
EAST LARIMER COUNTY WD (FCL)	mg/L	0.42	0.42	0.40	1/11/2018	1.0
FORT COLLINS/LOVELAND WD (EA)	mg/L	0.41	0.42	0.27	1/9/2018	1.0
NORTH WELD COUNTY WD (AL)	mg/L	0.40	0.39	0.36	2/13/2018	1.0

LEAD AND COPPER

		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
EAST LARIMER COUNTY WATER DISTRICT (AL)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0033	JUN/JUL 2017	0.015
COPPER	mg/L	0.28	JUN/JUL 2017	1.3

FORT COLLINS LOVELAND WATER DISTRICT (CA)

		30 SAMPLES COLLECTED	DATE	90th% ACTION LEVEL mg/L
LEAD	mg/L	0.003	Jun-17	0.015
COPPER	mg/L	0.24	Jun-17	1.3

NORTH WELD COUNTY WATER DISTRICT (AL)

		30 SAMPLES COLLECTED	DATE	90th% ACTION LEVEL mg/L
LEAD	mg/L	0.0039	Jul-17	0.015
COPPER	mg/L	0.27	Jul-17	1.3

MCL = Maximum Contaminate Level - Enforcable	BDL = Below Detectable Limit
*SMCL = Secondary Maximum Contaminate Level - Reccomended	ND = Not Detected
**TT = Treatment Technique	N/A = Not applicable
SOC = Synthetic Organic Chemicals	VOC = Volatile Organic Chemicals
RAA = Running Annual Average	LRAA = Location Running Annual Average
ACTION LEVEL = Addition treatment required if exceeded	MRDL = Maximum Residual Disinfectant Level
< = Less Than	> = Greater Than
(FCL) = Fort Collins Lab (UL) = United Lab (AL) = Accutest Lab (MMS) = MMS Environmental (WCL) = Weld County Lab	
(CA) = Colorado Analytical Lab (EA) = Eurofins Eaton Analytical (SCFP) = Soldier Canyon Filter Plant	