

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 2020

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	21.0	29.0	25.1	25.0	38.0	30.3	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.031	0.048	0.038	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	20.0	24.0	22.0	19.0	24.0	21.6	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.01	1.65	1.29	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.29	0.64	0.48	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	<0.02	<0.02	<0.02	0.8
CONDUCTIVITY	µs/cm	50.2	64.9	61.7	68.6	90.1	83.6	N/A
DISSOLVED OXYGEN	mg/l	10.1	11.7	11.0	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.12	0.17	0.15	0.63	0.84	0.71	4.0/*2.0
HARDNESS (TOTAL)	mg/l	24.0	33.0	31.0	23.0	33.0	27.6	N/A
IRON	mg/l	0.03	0.06	0.04	0.01	0.03	0.02	*0.3
LANGLIER INDEX	S.I.#	-1.60	-1.80	-1.77	-1.11	-1.50	-1.34	N/A
MANGANESE	mg/l	0.01	0.02	0.02	0.001	0.005	0.003	*0.05
pH	VALUE	7.51	8.05	7.79	7.82	8.31	8.14	*6.5-8.5
TEMPERATURE	°C	2.5	4.4	3.2	2.7	4.7	3.4	N/A
TOTAL DISSOLVED SOLIDS	mg/l	26.5	32.6	30.8	34.7	44.1	41.5	*500
TRUE COLOR	APHA	3.0	7.0	4.7	0.0	1.0	1.0	*15.0
TURBIDITY	NTU	0.90	2.10	1.19	0.013	0.127	0.016	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (AL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
ANTIMONY	mg/l		ND	8/14/2019	0.006
ARSENIC	mg/l		ND	8/14/2019	0.010
BARIUM	mg/l		0.0122	8/14/2019	2.000
BERYLLIUM	mg/l		ND	8/14/2019	0.004
CADMIUM	mg/l		ND	8/14/2019	0.005
CHROMIUM	mg/l		ND	8/14/2019	0.1
FLUORIDE	mg/l		0.62	8/14/2019	4.0
MERCURY	mg/l		ND	8/14/2019	0.002
NICKEL	mg/l		ND	8/14/2019	N/A
SELENIUM	mg/l		ND	8/14/2019	0.050
SODIUM	mg/l		11.4	8/14/2019	N/A
THALLIUM	mg/l		ND	8/14/2019	0.002

NITRATE AND/OR NITRITE AS NITROGEN (AL) - (ENTRY INTO DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
NITRATE	mg/l		0.068	8/14/2019	10.000
NITRITE	mg/l		<0.04	8/14/2019	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	1.8	1.25	1/15/2020	RAA - ≥1.0
			3.0	1.7	1.24	2/12/2020	RAA - ≥1.0
			3.1	1.8	1.20	3/4/2020	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l		22.4			1/15/2020	N/A
			27.5			2/12/2020	N/A
			26.3			3/4/2020	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 (FCL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

			RESULTS	DATE	MCL
1,1,1-TRICHLOROETHANE	µg/L		<0.5	8/14/2019	200
1,1,2-TRICHLOROETHANE	µg/L		<0.5	8/14/2019	5
1,1-DICHLOROETHYLENE	µg/L		<0.5	8/14/2019	7
1,2,4-TRICHLOROBENZENE	µg/L		<0.5	8/14/2019	70
1,2-DICHLOROETHANE	µg/L		<0.5	8/14/2019	5
1,2-DICHLOROPROPANE	µg/L		<0.5	8/14/2019	5
BENZENE	µg/L		<0.5	8/14/2019	5
CARBON TETRACHLORIDE	µg/L		<0.5	8/14/2019	5
CHLOROBENZENE	µg/L		<0.5	8/14/2019	100
cis-1,2-DICHLOROETHYLENE	µg/L		<0.5	8/14/2019	70
DICHLOROMETHANE	µg/L		<0.5	8/14/2019	5
ETHYLBENZENE	µg/L		<0.5	8/14/2019	700
o-DICHLOROENZENE	µg/L		<0.5	8/14/2019	600
para-DICHLOROENZENE	µg/L		<0.5	8/14/2019	75
STYRENE	µg/L		<0.5	8/14/2019	100
TETRACHLOROETHYLENE	µg/L		<0.5	8/14/2019	5
TOLUENE	µg/L		<0.5	8/14/2019	1000
trans-1,2-DICHLOROETHYLENE	µg/L		<0.5	8/14/2019	100
TRICHLOROETHYLENE	µg/L		<0.5	8/14/2019	5
VINYL CHLORIDE	µg/L		<0.5	8/14/2019	2
XYLENES (total)	µg/L		<0.5	8/14/2019	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	8/8/2018	ND	11/7/2018	0.2
2,4-D	µg/L	ND	8/8/2018	ND	11/7/2018	70
2,4,5-TP	µg/L	ND	8/8/2018	ND	11/7/2018	50
ALACHLOR (LASSO)	µg/L	ND	8/8/2018	ND	11/7/2018	2
ALDICARB	µg/L	ND	8/8/2018	ND	11/7/2018	N/A
ALDICARB SULFONE	µg/L	ND	8/8/2018	ND	11/7/2018	N/A
ALDICARB SULFOXIDE	µg/L	ND	8/8/2018	ND	11/7/2018	N/A
ATRAZINE	µg/L	ND	8/8/2018	ND	11/7/2018	3
BENZO(a)PYRENE	µg/L	ND	8/8/2018	NT	11/7/2018	0.2
CARBOFURAN	µg/L	ND	8/8/2018	ND	11/7/2018	40
CHLORDANE	µg/L	ND	8/8/2018	ND	11/7/2018	2
DALAPON	µg/L	ND	8/8/2018	ND	11/7/2018	200
DINOSEB	µg/L	ND	8/8/2018	ND	11/7/2018	7
DIQUAT	µg/L	ND	8/8/2018	ND	11/7/2018	20
DI(2-ethylhexyl)ADIPATE	µg/L	ND	8/8/2018	ND	11/7/2018	400
DI(2-ethylhexyl)PHTHALATE	µg/L	ND	8/8/2018	ND	11/7/2018	6
ENDOTHALL	µg/L	ND	8/8/2018	ND	11/7/2018	100
ENDRIN	µg/L	ND	8/8/2018	ND	11/7/2018	2
ETHYLENE DIBROMIDE	µg/L	ND	8/8/2018	ND	11/7/2018	0.05
HEPTACHLOR	µg/L	ND	8/8/2018	ND	11/7/2018	0.4
HEPTACHLOR EPOXIDE	µg/L	ND	8/8/2018	ND	11/7/2018	0.2

ORGANIC CHEMICAL ANALYSES - SOC's (AL) (con't)			RESULTS	DATE	RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L		ND	8/8/2018	ND	11/7/2018	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	8/8/2018	ND	11/7/2018	50
LINDANE/BHC-GAMMA	µg/L		ND	8/8/2018	ND	11/7/2018	0.2
METHOXYCHLOR	µg/L		ND	8/8/2018	ND	11/7/2018	40
OXAMYL	µg/L		ND	8/8/2018	ND	11/7/2018	200
PENTACHLOROPHENOL	µg/L		ND	8/8/2018	ND	11/7/2018	1
PICLORAM	µg/L		ND	8/8/2018	ND	11/7/2018	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	8/8/2018	ND	11/7/2018	0.5
SIMAZINE	µg/L		ND	8/8/2018	ND	11/7/2018	4
TOXAPHENE	µg/L		ND	8/8/2018	ND	11/7/2018	3

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

		RESULTS	DATE	RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	NT	2/6/2019	ND	2/12/2020	0.2
2,4-D	µg/L	NT	2/6/2019	ND	2/12/2020	70
2,4,5-TP	µg/L	NT	2/6/2019	ND	2/12/2020	50
ALACHLOR (LASSO)	µg/L	NT	2/6/2019	ND	2/12/2020	2
ALDICARB	µg/L	NT	2/6/2019	ND	2/12/2020	N/A
ALDICARB SULFONE	µg/L	NT	2/6/2019	ND	2/12/2020	N/A
ALDICARB SULFOXIDE	µg/L	NT	2/6/2019	ND	2/12/2020	N/A
ATRAZINE	µg/L	NT	2/6/2019	ND	2/12/2020	3
BENZO(a)PYRENE	µg/L	NT	2/6/2019	ND	2/12/2020	0.2
CARBOFURAN	µg/L	NT	2/6/2019	ND	2/12/2020	40
CHLORDANE	µg/L	NT	2/6/2019	ND	2/12/2020	2
DALAPON	µg/L	ND	2/6/2019	ND	2/12/2020	200
DINOSEB	µg/L	NT	2/6/2019	ND	2/12/2020	7
DIQUAT	µg/L	NT	2/6/2019	ND	2/12/2020	20
DI(2-ethylhexyl)ADIPATE	µg/L	NT	2/6/2019	ND	2/12/2020	400
DI(2-ethylhexyl)PHTHALATE	µg/L	ND	5/8/2019	ND	2/12/2020	6
ENDOTHALL	µg/L	NT	2/6/2019	ND	2/12/2020	100
ENDRIN	µg/L	NT	2/6/2019	ND	2/12/2020	2
ETHYLENE DIBROMIDE	µg/L	NT	2/6/2019	ND	2/12/2020	0.05
HEPTACHLOR	µg/L	NT	2/6/2019	ND	2/12/2020	0.4
HEPTACHLOR EPOXIDE	µg/L	NT	2/6/2019	ND	2/12/2020	0.2
HEXACHLOROBENZENE	µg/L	NT	2/6/2019	ND	2/12/2020	1
HEXACHLOROCYCLOPENTADIENE	µg/L	NT	2/6/2019	ND	2/12/2020	50
LINDANE/BHC-GAMMA	µg/L	ND	5/8/2019	ND	2/12/2020	0.2
METHOXYCHLOR	µg/L	NT	2/6/2019	ND	2/12/2020	40
OXAMYL	µg/L	NT	2/6/2019	ND	2/12/2020	200
PENTACHLOROPHENOL	µg/L	NT	2/6/2019	ND	2/12/2020	1
PICLORAM	µg/L	NT	2/6/2019	ND	2/12/2020	500
POLYCHLORINATED BIPHENYLS	µg/L	NT	2/6/2019	ND	2/12/2020	0.5
SIMAZINE	µg/L	NT	2/6/2019	ND	2/12/2020	4
TOXAPHENE	µg/L	NT	2/6/2019	ND	2/12/2020	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.31	1.06	0.81	Jan-20	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.37	1.07	0.83	Feb-20	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.49	1.04	0.78	Mar-20	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT							
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.35	1.05	0.67	Jan-20	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.40	1.20	0.76	Feb-20	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.45	1.30	0.78	Mar-20	4.0
NORTH WELD COUNTY WATER DISTRICT							
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.48	0.97	0.77	Jan-20	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.53	0.91	0.79	Feb-20	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.63	1.07	0.84	Mar-20	4.0

TOTAL COLIFORMS (MMS/WCL)

		TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL **TT LEVEL 1 or 2
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jan-20	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Feb-20	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Mar-20	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT						
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Jan-20	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Feb-20	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Mar-20	NO/NO
NORTH WELD COUNTY WATER DISTRICT						
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jan-20	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Feb-20	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Mar-20	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	41.2	80	30.5	60	1/21/2020
SAMPLE SITE - DBP002	µg/L	54.4	80	27.6	60	1/21/2020
SAMPLE SITE - DBP003	µg/L	40.2	80	32.2	60	1/21/2020
SAMPLE SITE - DBP004	µg/L	54.1	80	31.8	60	1/21/2020
FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	33.8	80	24.6	60	1/8/2020
SAMPLE SITE - DBP002	µg/L	36.4	80	18.8	60	1/8/2020
SAMPLE SITE - DBP003	µg/L	32.2	80	21.2	60	1/8/2020
SAMPLE SITE - DBP004	µg/L	32.5	80	18.6	60	1/8/2020

Total Trihalomethanes and Haloacetic Acids (cont)

		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
NORTH WELD COUNTY WATER DISTRICT (WCL)						
SAMPLE SITE - DBP001	µg/L	42.3	80	22.50	60	1/14/2020
SAMPLE SITE - DBP002	µg/L	29.2	80	26.50	60	1/14/2020
SAMPLE SITE - DBP003	µg/L	33.9	80	26.90	60	1/14/2020
SAMPLE SITE - DBP004	µg/L	33.3	80	27.00	60	1/14/2020

CHLORITE

		1ST RES	AVG RES	MAX RES	DATE	MCL
EAST LARIMER COUNTY WD (FCL)	mg/L	0.41	0.40	0.40	1/16/2020	1.0
FORT COLLINS/LOVELAND WD (EA)	mg/L	0.43	0.42	0.27	1/8/2020	1.0
NORTH WELD COUNTY WD (WCL)	mg/L	0.54	0.53	0.51	3/4/2020	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	0.0035	JUN-SEP 2019	0.015
COPPER	mg/L	0.2	JUN-SEP 2019	1.3

FORT COLLINS LOVELAND WATER DISTRICT (CA)

		30 SAMPLES COLLECTED	DATE	90th% ACTION LEVEL mg/L
LEAD	mg/L	0.003	Jun-19	0.015
COPPER	mg/L	0.296	Jun-19	1.3

NORTH WELD COUNTY WATER DISTRICT (AL)

		30 SAMPLES COLLECTED	DATE	90th% ACTION LEVEL mg/L
LEAD	mg/L	0.0038	Jul-19	0.015
COPPER	mg/L	0.26	Jul-19	1.3

MCL = Maximum Contaminate Level - Enforcable	BDL = Below Detectable Limit
*SMCL = Secondary Maximum Contaminate Level - Recomendend	ND = Not Detected NT = Not Tested
**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	