

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 2022

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	30.0	29.0	29.7	35.0	38.0	37.3	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.025	0.066	0.051	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	23.0	28.0	26.7	23.0	27.0	24.7	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.28	1.43	1.35	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.22	0.54	0.40	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.03	0.00	0.8
CONDUCTIVITY	µs/cm	74.5	76.4	75.8	96.7	103.4	99.8	N/A
DISSOLVED OXYGEN	mg/l	10.4	11.8	11.0	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.11	0.18	0.15	0.10	0.77	0.63	4.0/*2.0
HARDNESS (TOTAL)	mg/l	32.0	37.0	34.7	31.0	38.0	34.0	N/A
IRON	mg/l	0.02	0.03	0.03	0.00	0.01	0.01	*0.3
MANGANESE	mg/l	0.012	0.018	0.016	0.000	0.006	0.003	*0.05
pH	VALUE	7.66	8.06	7.86	8.24	8.41	8.33	*6.5-8.5
TEMPERATURE	°C	3.0	4.9	3.6	5.0	7.3	6.1	N/A
TRUE COLOR	APHA	4.0	22.0	11.7	0.0	1.0	0.0	*15.0
TURBIDITY	NTU	0.97	1.90	1.25	0.013	0.034	0.020	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

		RESULTS	DATE	MCL
ANTIMONY	mg/l	<0.00040	2/9/2022	0.006
ARSENIC	mg/l	<0.0020	2/9/2022	0.010
BARIUM	mg/l	0.018	2/9/2022	2.000
BERYLLIUM	mg/l	<0.00030	2/9/2022	0.004
CADMIUM	mg/l	<0.00015	2/9/2022	0.005
CHROMIUM	mg/l	<0.0020	2/9/2022	0.1
FLUORIDE	mg/l	0.63	2/9/2022	4.0
MERCURY	mg/l	<0.00010	2/9/2022	0.002
NICKEL	mg/l	<0.0020	2/9/2022	N/A
SELENIUM	mg/l	<0.00070	2/9/2022	0.050
SODIUM	mg/l	8.5	2/9/2022	N/A
THALLIUM	mg/l	<0.00020	2/9/2022	0.002

NITRATE AND/OR NITRITE AS NITROGEN (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

		RESULTS	DATE	MCL
NITRATE	mg/l	<0.010	2/9/2022	10.000
NITRITE	mg/l	<0.0040	2/9/2022	1.000

TOTAL ORGANIC CARBON (SGS) - (SCFP INFLUENT AND CF EFFLUENT)

		INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L	3.0	1.9	1.05	1/12/2022	RAA - ≥1.0
		3.1	2.0	1.01	2/9/2022	RAA - ≥1.0
		3.1	1.8	1.20	3/9/2022	RAA - ≥1.0
		INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l	25.0			1/12/2022	N/A
		30.0			2/9/2022	N/A
		29.8			3/9/2022	N/A

RADIONUCLIDE ANALYSES (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

			RESULTS	DATE	MCL
GROSS ALPHA	pCi/L		ND	9/8/2021	15
URANIUM	ppb		<0.00020	9/8/2021	30
RADIUM 226 + 228	pCi/L		ND	9/8/2021	5
GROSS BETA	pCi/L		ND	9/8/2021	50

ORGANIC CHEMICAL ANALYSES - VOC's (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

			RESULTS	DATE	MCL
1,1,1-TRICHLOROETHANE	µg/L		ND	1/12/2022	200
1,1,2-TRICHLOROETHANE	µg/L		ND	1/12/2022	5
1,1-DICHLOROETHYLENE	µg/L		ND	1/12/2022	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	1/12/2022	70
1,2-DICHLOROETHANE	µg/L		ND	1/12/2022	5
1,2-DICHLOROPROPANE	µg/L		ND	1/12/2022	5
BENZENE	µg/L		ND	1/12/2022	5
CARBON TETRACHLORIDE	µg/L		ND	1/12/2022	5
CHLOROBENZENE	µg/L		ND	1/12/2022	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	1/12/2022	70
DICHLOROMETHANE	µg/L		ND	1/12/2022	5
ETHYLBENZENE	µg/L		ND	1/12/2022	700
o-DICHLOROBENZENE	µg/L		ND	1/12/2022	600
para-DICHLOROBENZENE	µg/L		ND	1/12/2022	75
STYRENE	µg/L		ND	1/12/2022	100
TETRACHLOROETHYLENE	µg/L		ND	1/12/2022	5
TOLUENE	µg/L		ND	1/12/2022	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	1/12/2022	100
TRICHLOROETHYLENE	µg/L		ND	1/12/2022	5
VINYL CHLORIDE	µg/L		ND	1/12/2022	2
XYLENES (total)	µg/L		ND	1/12/2022	10000

ORGANIC CHEMICAL ANALYSES - SOC's (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

			RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L		ND	2/9/2022	0.2
2,4-D	µg/L		ND	2/9/2022	70
2,4,5-TP	µg/L		ND	2/9/2022	50
ALACHLOR (LASSO)	µg/L		ND	2/9/2022	2
ALDICARB	µg/L		ND	2/9/2022	N/A
ALDICARB SULFONE	µg/L		ND	2/9/2022	N/A
ALDICARB SULFOXIDE	µg/L		ND	2/9/2022	N/A
ATRAZINE	µg/L		ND	2/9/2022	3
BENZO(a)PYRENE	µg/L		ND	2/9/2022	0.2
CARBOFURAN	µg/L		ND	2/9/2022	40
CHLORDANE	µg/L		ND	2/9/2022	2
DALAPON	µg/L		ND	2/9/2022	200
DINOSEB	µg/L		ND	2/9/2022	7
DIQUAT	µg/L		ND	2/9/2022	20
DI(2-ethylhexyl)ADIPATE	µg/L		ND	2/9/2022	400
DI(2-ethylhexyl)PHTHALATE	µg/L		ND	2/9/2022	6
ENDOTHALL	µg/L		ND	2/9/2022	100
ENDRIN	µg/L		ND	2/9/2022	2
ETHYLENE DIBROMIDE	µg/L		ND	2/9/2022	0.05
HEPTACHLOR	µg/L		ND	2/9/2022	0.4
HEPTACHLOR EPOXIDE	µg/L		ND	2/9/2022	0.2

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

			RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L		ND	2/9/2022	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	2/9/2022	50
LINDANE/BHC-GAMMA	µg/L		ND	2/9/2022	0.2
METHOXYCHLOR	µg/L		ND	2/9/2022	40
OXAMYL	µg/L		ND	2/9/2022	200
PENTACHLOROPHENOL	µg/L		ND	2/9/2022	1
PICLORAM	µg/L		ND	2/9/2022	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	2/9/2022	0.5
SIMAZINE	µg/L		ND	2/9/2022	4
TOXAPHENE	µg/L		ND	2/9/2022	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.39	1.36	0.90	Jan-22	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.06	1.19	0.87	Feb-22	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.60	1.14	0.94	Mar-22	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.32	1.21	0.72	Jan-22	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.35	1.18	0.78	Feb-22	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.30	1.21	0.74	Mar-22	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.35	1.11	0.85	Jan-22	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.57	1.16	0.90	Feb-22	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.63	1.20	0.90	Mar-22	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-22	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Feb-22	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Mar-22	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	Jan-22	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	Feb-22	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	Mar-22	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Jan-22	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Feb-22	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Mar-22	NO/NO

DISTRIBUTION SYSTEMS SAMPLES - CONTINUED

<u>TOTAL TRIHALOMETHANES AND HALOACETIC ACIDS</u>		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
<u>EAST LARIMER COUNTY WATER DISTRICT (SGS)</u>						
SAMPLE SITE - DBP001	µg/L	47.3	80	30.6	60	3/15/2022
SAMPLE SITE - DBP002	µg/L	70.3	80	28.5	60	3/15/2022
SAMPLE SITE - DBP003	µg/L	70.7	80	26.3	60	3/15/2022
SAMPLE SITE - DBP004	µg/L	33.1	80	22.0	60	3/15/2022

<u>FORT COLLINS/LOVELAND WATER DISTRICT (CA)</u>						
SAMPLE SITE - DBP001	µg/L	45.1	80	33.5	60	1/14/2022
SAMPLE SITE - DBP002	µg/L	37.1	80	26.0	60	1/14/2022
SAMPLE SITE - DBP003	µg/L	35.6	80	25.1	60	1/14/2022
SAMPLE SITE - DBP004	µg/L	27.6	80	17.5	60	1/14/2022
SAMPLE SITE - DBP005	µg/L	36.6	80	29.9	60	1/14/2022
SAMPLE SITE - DBP006	µg/L	28.4	80	17.1	60	1/14/2022
SAMPLE SITE - DBP007	µg/L	37.0	80	24.8	60	1/14/2022
SAMPLE SITE - DBP008	µg/L	42.8	80	23.7	60	1/14/2022

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>						
SAMPLE SITE - DBP001	µg/L	43.80	80	27.10	60	1/11/2022
SAMPLE SITE - DBP002	µg/L	35.40	80	31.10	60	1/11/2022
SAMPLE SITE - DBP003	µg/L	37.90	80	31.10	60	1/11/2022
SAMPLE SITE - DBP004	µg/L	31.00	80	28.40	60	1/11/2022

<u>CHLORITE</u>		1ST RES	AVG RES	MAX RES	DATE	MCL
FROM DISTRIBUTION SYSTEM(S)	mg/L	0.38	0.39	0.41	1/11/2022	1.0

<u>LEAD AND COPPER</u>		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
<u>EAST LARIMER COUNTY WATER DISTRICT (AL)</u>		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0052	Jun-Jul-2021	0.015
COPPER	mg/L	0.23	Jun-Jul-2021	1.3

<u>FORT COLLINS LOVELAND WATER DISTRICT (CA)</u>		60 SAMPLES COLLECTED		
LEAD	mg/L	0.003	JAN-FEB 2022	0.015
COPPER	mg/L	0.147	JAN-FEB 2022	1.3

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>		30 SAMPLES COLLECTED		
LEAD	mg/L	0.00279	Jun-21	0.015
COPPER	mg/L	0.26	Jun-21	1.3

MCL = Maximum Contaminate Level - Enforcable	BDL = Below Detectable Limit
*SMCL = Secondary Maximum Contaminate Level - Recomendad	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 (SGS) = SGS Lab (MMS) = MMS Environmental (WCL) = Weld County Lab	
(CA) = Colorado Analytical Lab (EA) = Eurofins Eaton Analytical (SCFP) = Soldier Canyon Filter Plant	