

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 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	11.0	34.0	25.3	37.0	43.0	39.3	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.045	0.060	0.052	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	12.0	29.0	22.7	21.0	26.0	23.7	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.27	1.40	1.34	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.25	0.55	0.40	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.07	0.01	0.8
CONDUCTIVITY	µs/cm	35.1	92.3	68.8	107.3	112.3	109.8	N/A
DISSOLVED OXYGEN	mg/l	7.8	11.1	9.5	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.07	0.19	0.15	0.17	0.77	0.69	4.0/*2.0
HARDNESS (TOTAL)	mg/l	15.0	41.0	33.7	27.0	36.0	33.7	N/A
IRON	mg/l	0.03	0.26	0.11	0.00	0.02	0.01	*0.3
MANGANESE	mg/l	0.010	0.056	0.030	0.000	0.008	0.003	*0.05
pH	VALUE	6.73	8.07	7.56	8.10	8.51	8.32	*6.5-8.5
TEMPERATURE	°C	4.0	13.0	7.7	4.3	9.9	7.5	N/A
TRUE COLOR	APHA	2.0	38.0	13.3	0.0	1.0	0.3	*15.0
TURBIDITY	NTU	0.26	20.20	3.55	0.014	0.029	0.021	**<0.3 TT

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

		RESULTS	DATE	MCL
ANTIMONY	mg/l	<0.00040	6/8/2022	0.006
ARSENIC	mg/l	<0.0020	6/8/2022	0.010
BARIUM	mg/l	0.017	6/8/2022	2.000
BERYLLIUM	mg/l	<0.00030	6/8/2022	0.004
CADMIUM	mg/l	<0.00015	6/8/2022	0.005
CHROMIUM	mg/l	<0.0020	6/8/2022	0.1
FLUORIDE	mg/l	0.61	4/6/2022	4.0
MERCURY	mg/l	<0.00010	6/8/2022	0.002
NICKEL	mg/l	<0.0020	6/8/2022	N/A
SELENIUM	mg/l	<0.00070	6/8/2022	0.050
SODIUM	mg/l	12.4	6/8/2022	N/A
THALLIUM	mg/l	<0.00020	6/8/2022	0.002

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

		RESULTS	DATE	MCL
NITRATE	mg/l	<0.010	4/6/2022	10.000
NITRITE	mg/l	<0.0040	4/6/2022	1.000

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

		INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L	3.1	1.9	1.11	4/6/2022	RAA - ≥1.0
		3.2	2.0	1.07	5/4/2022	RAA - ≥1.0
		2.9	1.7	1.18	6/8/2022	RAA - ≥1.0
		INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l	30.0			4/6/2.22	N/A
		29.5			5/4/2022	N/A
		32.5			6/8/2022	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	5/4/2022	200
1,1,2-TRICHLOROETHANE	µg/L		ND	5/4/2022	5
1,1-DICHLOROETHYLENE	µg/L		ND	5/4/2022	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	5/4/2022	70
1,2-DICHLOROETHANE	µg/L		ND	5/4/2022	5
1,2-DICHLOROPROPANE	µg/L		ND	5/4/2022	5
BENZENE	µg/L		ND	5/4/2022	5
CARBON TETRACHLORIDE	µg/L		ND	5/4/2022	5
CHLOROBENZENE	µg/L		ND	5/4/2022	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	5/4/2022	70
DICHLOROMETHANE	µg/L		ND	5/4/2022	5
ETHYLBENZENE	µg/L		ND	5/4/2022	700
o-DICHLOROBENZENE	µg/L		ND	5/4/2022	600
para-DICHLOROBENZENE	µg/L		ND	5/4/2022	75
STYRENE	µg/L		ND	5/4/2022	100
TETRACHLOROETHYLENE	µg/L		ND	5/4/2022	5
TOLUENE	µg/L		ND	5/4/2022	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	5/4/2022	100
TRICHLOROETHYLENE	µg/L		ND	5/4/2022	5
VINYL CHLORIDE	µg/L		ND	5/4/2022	2
XYLENES (total)	µg/L		ND	5/4/2022	10000

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

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

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

			RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L		ND	4/6/2022	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	4/6/2022	50
LINDANE/BHC-GAMMA	µg/L		ND	4/6/2022	0.2
METHOXYCHLOR	µg/L		ND	4/6/2022	40
OXAMYL	µg/L		ND	4/6/2022	200
PENTACHLOROPHENOL	µg/L		ND	4/6/2022	1
PICLORAM	µg/L		ND	4/6/2022	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	4/6/2022	0.5
SIMAZINE	µg/L		ND	4/6/2022	4
TOXAPHENE	µg/L		ND	4/6/2022	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.31	1.15	0.91	Apr-22	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.48	1.31	0.89	May-22	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.65	1.21	0.92	Jun-22	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.39	1.17	0.76	Apr-22	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.40	1.30	0.83	May-22	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.52	1.12	0.81	Jun-22	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.54	1.01	0.86	Apr-22	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.51	1.16	0.83	May-22	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.41	0.98	0.77	Jun-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	Apr-22	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	May-22	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jun-22	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	Apr-22	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	May-22	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	Jun-22	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Apr-22	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	May-22	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Jun-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	27.9	80	19.3	60	4/19/2022
SAMPLE SITE - DBP002	µg/L	56.1	80	20.8	60	4/19/2022
SAMPLE SITE - DBP003	µg/L	23.9	80	20.0	60	4/19/2022
SAMPLE SITE - DBP004	µg/L	60.8	80	20.3	60	4/19/2022

<u>FORT COLLINS/LOVELAND WATER DISTRICT (CA)</u>						
SAMPLE SITE - DBP001	µg/L	28.7	80	24.5	60	4/20/2022
SAMPLE SITE - DBP002	µg/L	34.2	80	28.3	60	4/20/2022
SAMPLE SITE - DBP003	µg/L	29.4	80	25.5	60	4/20/2022
SAMPLE SITE - DBP004	µg/L	34.4	80	25.2	60	4/20/2022
SAMPLE SITE - DBP005	µg/L	29.2	80	26.6	60	4/20/2022
SAMPLE SITE - DBP006	µg/L	33.2	80	24.4	60	4/20/2022
SAMPLE SITE - DBP007	µg/L	34.9	80	27.8	60	4/20/2022
SAMPLE SITE - DBP008	µg/L	40.0	80	28.7	60	4/20/2022

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>						
SAMPLE SITE - DBP001	µg/L	43.76	80	33.10	60	4/20/2022
SAMPLE SITE - DBP002	µg/L	31.00	80	27.90	60	4/20/2022
SAMPLE SITE - DBP003	µg/L	30.76	80	25.90	60	4/20/2022
SAMPLE SITE - DBP004	µg/L	26.46	80	24.00	60	4/20/2022

<u>CHLORITE</u>		1ST RES	AVG RES	MAX RES	DATE	MCL
FROM DISTRIBUTION SYSTEM(S)	mg/L	0.35	0.35	0.34	5/3/2022	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

***SMCL = Secondary Maximum Contaminate Level - Recomendad**

****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 (SGS) = SGS Lab (MMS) = MMS Environmental (WCL) = Weld County Lab

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

BDL = Below Detectable Limit

ND = Not Detected

NT = Not Tested

N/A = Not applicable

VOC = Volatile Organic Chemicals

LRAA = Location Running Annual Average

MRDL = Maximum Residual Disinfectant Level

> = Greater Than