

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 2021

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	12.0	38.0	28.4	33.0	45.0	38.6	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.014	0.051	0.035	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	15.0	45.0	29.9	20.0	33.0	26.3	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.16	1.53	1.31	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.32	0.63	0.45	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	<0.02	0.03	<0.02	0.8
CONDUCTIVITY	µs/cm	42.5	125.0	79.7	92.5	132.9	112.6	N/A
DISSOLVED OXYGEN	mg/l	7.7	12.7	10.0	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.17	0.25	0.22	0.14	0.78	0.67	4.0/*2.0
HARDNESS (TOTAL)	mg/l	20.0	49.0	35.8	29.0	43.0	35.8	N/A
IRON	mg/l	0.03	0.18	0.08	0.01	0.02	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.10	-2.00	-1.72	-1.06	-1.25	-1.18	N/A
MANGANESE	mg/l	0.01	0.06	0.02	0.001	0.018	0.005	*0.05
pH	VALUE	6.72	8.01	7.58	7.47	8.67	8.07	*6.5-8.5
TEMPERATURE	°C	3.5	14.4	7.0	3.8	12.8	7.6	N/A
TOTAL DISSOLVED SOLIDS	mg/l	21.2	62.4	39.8	46.2	66.5	56.4	*500
TRUE COLOR	APHA	6.0	40.0	18.5	0.0	2.0	1.0	*15.0
TURBIDITY	NTU	0.95	9.95	2.22	0.011	0.075	0.016	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
ANTIMONY	mg/l		ND	4/7/2021	0.006
ARSENIC	mg/l		ND	4/7/2021	0.010
BARIUM	mg/l		0.015	4/7/2021	2.000
BERYLLIUM	mg/l		ND	4/7/2021	0.004
CADMIUM	mg/l		ND	4/7/2021	0.005
CHROMIUM	mg/l		ND	4/7/2021	0.1
FLUORIDE	mg/l		0.69	4/7/2021	4.0
MERCURY	mg/l		ND	4/7/2021	0.002
NICKEL	mg/l		ND	4/7/2021	N/A
SELENIUM	mg/l		ND	4/7/2021	0.050
SODIUM	mg/l		8.2	4/7/2021	N/A
THALLIUM	mg/l		ND	4/7/2021	0.002

NITRATE AND/OR NITRITE AS NITROGEN (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
NITRATE	mg/l		0.014	4/7/2021	10.000
NITRITE	mg/l		ND	4/7/2021	1.000

TOTAL ORGANIC CARBON (SGS) - (SCFP INFLUENT AND CF EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		3.2	1.4	1.61	4/7/2021	RAA - ≥1.0
			4.4	2.9	0.76	5/5/2021	RAA - ≥1.0
			3.5	1.9	1.31	6/9/2021	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l		39.0			4/7/2021	N/A
			35.0			5/5/2021	N/A
			37.5			6/9/2021	N/A

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

			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 (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

			RESULTS	DATE	MCL
1,1,1-TRICHLOROETHANE	µg/L		ND	4/7/2021	200
1,1,2-TRICHLOROETHANE	µg/L		ND	4/7/2021	5
1,1-DICHLOROETHYLENE	µg/L		ND	4/7/2021	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	4/7/2021	70
1,2-DICHLOROETHANE	µg/L		ND	4/7/2021	5
1,2-DICHLOROPROPANE	µg/L		ND	4/7/2021	5
BENZENE	µg/L		ND	4/7/2021	5
CARBON TETRACHLORIDE	µg/L		ND	4/7/2021	5
CHLOROBENZENE	µg/L		ND	4/7/2021	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	4/7/2021	70
DICHLOROMETHANE	µg/L		ND	4/7/2021	5
ETHYLBENZENE	µg/L		ND	4/7/2021	700
o-DICHLOROBENZENE	µg/L		ND	4/7/2021	600
para-DICHLOROBENZENE	µg/L		ND	4/7/2021	75
STYRENE	µg/L		ND	4/7/2021	100
TETRACHLOROETHYLENE	µg/L		ND	4/7/2021	5
TOLUENE	µg/L		ND	4/7/2021	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	4/7/2021	100
TRICHLOROETHYLENE	µg/L		ND	4/7/2021	5
VINYL CHLORIDE	µg/L		ND	4/7/2021	2
XYLENES (total)	µg/L		ND	4/7/2021	10000

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

			RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L		ND	5/5/2021	0.2
2,4-D	µg/L		ND	5/5/2021	70
2,4,5-TP	µg/L		ND	5/5/2021	50
ALACHLOR (LASSO)	µg/L		ND	5/5/2021	2
ALDICARB	µg/L		ND	5/5/2021	N/A
ALDICARB SULFONE	µg/L		ND	5/5/2021	N/A
ALDICARB SULFOXIDE	µg/L		ND	5/5/2021	N/A
ATRAZINE	µg/L		ND	5/5/2021	3
BENZO(a)PYRENE	µg/L		ND	5/5/2021	0.2
CARBOFURAN	µg/L		ND	5/5/2021	40
CHLORDANE	µg/L		ND	5/5/2021	2
DALAPON	µg/L		ND	5/5/2021	200
DINOSEB	µg/L		ND	5/5/2021	7
DIQUAT	µg/L		ND	5/5/2021	20
DI(2-ethylhexyl)ADIPATE	µg/L		ND	5/5/2021	400
DI(2-ethylhexyl)PHTHALATE	µg/L		ND	5/5/2021	6
ENDOTHALL	µg/L		ND	5/5/2021	100
ENDRIN	µg/L		ND	5/5/2021	2
ETHYLENE DIBROMIDE	µg/L		ND	5/5/2021	0.05
HEPTACHLOR	µg/L		ND	5/5/2021	0.4
HEPTACHLOR EPOXIDE	µg/L		ND	5/5/2021	0.2

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

			RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L		ND	5/5/2021	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	5/5/2021	50
LINDANE/BHC-GAMMA	µg/L		ND	5/5/2021	0.2
METHOXYCHLOR	µg/L		ND	5/5/2021	40
OXAMYL	µg/L		ND	5/5/2021	200
PENTACHLOROPHENOL	µg/L		ND	5/5/2021	1
PICLORAM	µg/L		ND	5/5/2021	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	5/5/2021	0.5
SIMAZINE	µg/L		ND	5/5/2021	4
TOXAPHENE	µg/L		ND	5/5/2021	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.61	1.56	0.88	Apr-21	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.62	1.35	0.94	May-21	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.55	1.94	1.05	Jun-21	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	50	0.28	1.21	0.65	Apr-21	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.33	1.23	0.66	May-21	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	60	0.38	1.12	0.77	Jun-21	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.53	1.03	0.78	Apr-21	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.50	1.13	0.78	May-21	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.55	1.02	0.77	Jun-21	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-21	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	May-21	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jun-21	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		50	0	50	Apr-21	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	May-21	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		60	0	60	Jun-21	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Apr-21	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	May-21	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Jun-21	NO/NO

DISTRIBUTION SYSTEMS SAMPLES - CONTINUED

<u>TOTAL TRIHALOMETHANES AND HALOACETIC ACIDS</u>		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
EAST LARIMER COUNTY WATER DISTRICT (SGS)						
SAMPLE SITE - DBP001	µg/L	42.9	80	28.6	60	4/28/2021
SAMPLE SITE - DBP002	µg/L	60.6	80	37.3	60	4/28/2021
SAMPLE SITE - DBP003	µg/L	26.9	80	18.2	60	4/28/2021
SAMPLE SITE - DBP004	µg/L	54.1	80	32.2	60	4/28/2021

FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	31.5	80	21.7	60	4/12/2021
SAMPLE SITE - DBP002	µg/L	36.9	80	21.7	60	4/12/2021
SAMPLE SITE - DBP003	µg/L	32.0	80	23.2	60	4/12/2021
SAMPLE SITE - DBP004	µg/L	37.8	80	25.9	60	4/12/2021

NORTH WELD COUNTY WATER DISTRICT (WCL)						
SAMPLE SITE - DBP001	µg/L	35.00	80	32.90	60	4/13/2021
SAMPLE SITE - DBP002	µg/L	24.97	80	30.70	60	4/13/2021
SAMPLE SITE - DBP003	µg/L	28.42	80	30.20	60	4/13/2021
SAMPLE SITE - DBP004	µg/L	22.45	80	29.20	60	4/13/2021

<u>CHLORITE</u>		1ST RES	AVG RES	MAX RES	DATE	MCL
FROM DISTRIBUTION SYSTEM(S)	mg/L	0.46	0.44	0.44	4/6/2021	1.0

<u>LEAD AND COPPER</u>		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
EAST LARIMER COUNTY WATER DISTRICT (AL)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0032	Jun-Jul-2020	0.015
COPPER	mg/L	0.22	Jun-Jul-2020	1.3

FORT COLLINS LOVELAND WATER DISTRICT (CA)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.002	Jun-20	0.015
COPPER	mg/L	0.211	Jun-20	1.3

NORTH WELD COUNTY WATER DISTRICT (WCL)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0024	Jul-20	0.015
COPPER	mg/L	<0.2	Jul-20	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