

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 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	9.0	37.0	23.9	27.0	41.0	33.8	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.036	0.061	0.049	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	9.0	30.0	20.6	19.0	28.0	23.2	N/A
CHLORINE	mg/l	N/A	N/A	N/A	0.91	1.28	1.08	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.30	0.68	0.53	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.02	0.00	0.8
CONDUCTIVITY	µs/cm	33.0	91.6	63.7	69.3	108.3	100.6	N/A
DISSOLVED OXYGEN	mg/l	7.8	11.4	9.4	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.16	0.24	0.21	0.60	0.81	0.71	4.0/*2.0
HARDNESS (TOTAL)	mg/l	13.0	37.0	26.4	22.0	33.0	28.4	N/A
IRON	mg/l	0.00	0.25	0.07	0.01	0.02	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.00	-2.80	-2.03	-1.17	-1.51	-1.33	N/A
MANGANESE	mg/l	0.00	0.05	0.02	0.001	0.008	0.005	*0.05
pH	VALUE	7.15	8.18	7.53	7.65	8.31	8.01	*6.5-8.5
TEMPERATURE	°C	4.4	15.8	7.7	4.8	9.6	7.4	N/A
TOTAL DISSOLVED SOLIDS	mg/l	16.5	91.6	39.3	32.9	54.4	50.2	*500
TRUE COLOR	APHA	0.0	63.0	19.5	0.0	3.0	1.3	*15.0
TURBIDITY	NTU	0.42	13.30	2.17	0.018	0.067	0.022	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (AL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
ANTIMONY	mg/l		ND	5/10/2018	0.006
ARSENIC	mg/l		ND	5/10/2018	0.010
BARIUM	mg/l		0.018	5/10/2018	2.000
BERYLLIUM	mg/l		ND	5/10/2018	0.004
CADMIUM	mg/l		ND	5/10/2018	0.005
CHROMIUM	mg/l		ND	5/10/2018	0.1
FLUORIDE	mg/l		0.64	5/10/2018	4.0
MERCURY	mg/l		ND	5/10/2018	0.002
NICKEL	mg/l		ND	5/10/2018	N/A
SELENIUM	mg/l		ND	5/10/2018	0.050
SODIUM	mg/l		9.7	5/10/2018	N/A
THALLIUM	mg/l		ND	5/10/2018	0.002

NITRATE AND/OR NITRITE AS NITROGEN (AL) - (ENTRY INTO DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
NITRATE	mg/l		<0.010	5/10/2018	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	3.1	2.0	1.01	4/4/2018	RAA - ≥1.0
		3.7	2.1	1.24	5/10/2018	RAA - ≥1.0
		3.4	1.8	1.34	6/13/2018	RAA - ≥1.0
		INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l	27.7			4/4/2018	N/A
		26.7			5/10/2018	N/A
		25.0			6/13/2018	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	5/10/2018	200
1,1,2-TRICHLOROETHANE	µg/L		ND	5/10/2018	5
1,1-DICHLOROETHYLENE	µg/L		ND	5/10/2018	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	5/10/2018	70
1,2-DICHLOROETHANE	µg/L		ND	5/10/2018	5
1,2-DICHLOROPROPANE	µg/L		ND	5/10/2018	5
BENZENE	µg/L		ND	5/10/2018	5
CARBON TETRACHLORIDE	µg/L		ND	5/10/2018	5
CHLOROBENZENE	µg/L		ND	5/10/2018	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	5/10/2018	70
DICHLOROMETHANE	µg/L		ND	5/10/2018	5
ETHYLBENZENE	µg/L		ND	5/10/2018	700
o-DICHLOROENZENE	µg/L		ND	5/10/2018	600
para-DICHLOROENZENE	µg/L		ND	5/10/2018	75
STYRENE	µg/L		ND	5/10/2018	100
TETRACHLOROETHYLENE	µg/L		ND	5/10/2018	5
TOLUENE	µg/L		ND	5/10/2018	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	5/10/2018	100
TRICHLOROETHYLENE	µg/L		ND	5/10/2018	5
VINYL CHLORIDE	µg/L		ND	5/10/2018	2
XYLENES (total)	µg/L		ND	5/10/2018	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	9/7/2017	ND	12/5/2017	0.2
2,4-D	µg/L	ND	9/7/2017	ND	12/5/2017	70
2,4,5-TP	µg/L	ND	9/7/2017	ND	12/5/2017	50
ALACHLOR (LASSO)	µg/L	ND	9/7/2017	ND	12/5/2017	2
ALDICARB	µg/L	ND	9/7/2017	ND	12/5/2017	N/A
ALDICARB SULFONE	µg/L	ND	9/7/2017	ND	12/5/2017	N/A
ALDICARB SULFOXIDE	µg/L	ND	9/7/2017	ND	12/5/2017	N/A
ATRAZINE	µg/L	ND	9/7/2017	ND	12/5/2017	3
BENZO(a)PYRENE	µg/L	ND	9/7/2017	ND	12/5/2017	0.2
CARBOFURAN	µg/L	ND	9/7/2017	ND	12/5/2017	40
CHLORDANE	µg/L	ND	9/7/2017	ND	12/5/2017	2
DALAPON	µg/L	ND	9/7/2017	ND	12/5/2017	200
DINOSEB	µg/L	ND	9/7/2017	ND	12/5/2017	7
DIQUAT	µg/L	ND	9/7/2017	ND	12/5/2017	20
DI(2-ethylhexyl)ADIPATE	µg/L	ND	9/7/2017	ND	12/5/2017	400
DI(2-ethylhexyl)PHTHALATE	µg/L	ND	9/7/2017	ND	12/5/2017	6
ENDOTHALL	µg/L	ND	9/7/2017	ND	12/5/2017	100
ENDRIN	µg/L	ND	9/7/2017	ND	12/5/2017	2
ETHYLENE DIBROMIDE	µg/L	ND	9/7/2017	ND	12/5/2017	0.05
HEPTACHLOR	µg/L	ND	9/7/2017	ND	12/5/2017	0.4
HEPTACHLOR EPOXIDE	µg/L	ND	9/7/2017	ND	12/5/2017	0.2

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

		RESULTS	DATE	RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L	ND	9/7/2017	ND	12/5/2017	1
HEXACHLOROCYCLOPENTADIENE	µg/L	ND	9/7/2017	ND	12/5/2017	50
LINDANE/BHC-GAMMA	µg/L	ND	9/7/2017	ND	12/5/2017	0.2
METHOXYCHLOR	µg/L	ND	9/7/2017	ND	12/5/2017	40
OXAMYL	µg/L	ND	9/7/2017	ND	12/5/2017	200
PENTACHLOROPHENOL	µg/L	ND	9/7/2017	ND	12/5/2017	1
PICLORAM	µg/L	ND	9/7/2017	ND	12/5/2017	500
POLYCHLORINATED BIPHENYLS	µg/L	ND	9/7/2017	ND	12/5/2017	0.5
SIMAZINE	µg/L	ND	9/7/2017	ND	12/5/2017	4
TOXAPHENE	µg/L	ND	9/7/2017	ND	12/5/2017	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	2/7/2018	ND	5/10/2018	0.2
2,4-D	µg/L	ND	2/7/2018	ND	5/10/2018	70
2,4,5-TP	µg/L	ND	2/7/2018	ND	5/10/2018	50
ALACHLOR (LASSO)	µg/L	ND	2/7/2018	ND	5/10/2018	2
ALDICARB	µg/L	ND	2/7/2018	ND	5/10/2018	N/A
ALDICARB SULFONE	µg/L	ND	2/7/2018	ND	5/10/2018	N/A
ALDICARB SULFOXIDE	µg/L	ND	2/7/2018	ND	5/10/2018	N/A
ATRAZINE	µg/L	ND	2/7/2018	ND	5/10/2018	3
BENZO(a)PYRENE	µg/L	NT	2/7/2018	NT	5/10/2018	0.2
CARBOFURAN	µg/L	ND	2/7/2018	ND	5/10/2018	40
CHLORDANE	µg/L	ND	2/7/2018	ND	5/10/2018	2
DALAPON	µg/L	ND	2/7/2018	ND	5/10/2018	200
DINOSEB	µg/L	ND	2/7/2018	ND	5/10/2018	7
DIQUAT	µg/L	ND	2/7/2018	ND	5/10/2018	20
DI(2-ethylhexyl)ADIPATE	µg/L	ND	2/7/2018	ND	5/10/2018	400
DI(2-ethylhexyl)PHTHALATE	µg/L	ND	2/7/2018	ND	5/10/2018	6
ENDOTHALL	µg/L	ND	2/7/2018	ND	5/10/2018	100
ENDRIN	µg/L	ND	2/7/2018	ND	5/10/2018	2
ETHYLENE DIBROMIDE	µg/L	ND	2/7/2018	ND	5/10/2018	0.05
HEPTACHLOR	µg/L	ND	2/7/2018	ND	5/10/2018	0.4
HEPTACHLOR EPOXIDE	µg/L	ND	2/7/2018	ND	5/10/2018	0.2
HEXACHLOROBENZENE	µg/L	ND	2/7/2018	ND	5/10/2018	1
HEXACHLOROCYCLOPENTADIENE	µg/L	ND	2/7/2018	ND	5/10/2018	50
LINDANE/BHC-GAMMA	µg/L	ND	2/7/2018	ND	5/10/2018	0.2
METHOXYCHLOR	µg/L	ND	2/7/2018	ND	5/10/2018	40
OXAMYL	µg/L	ND	2/7/2018	ND	5/10/2018	200
PENTACHLOROPHENOL	µg/L	ND	2/7/2018	ND	5/10/2018	1
PICLORAM	µg/L	ND	2/7/2018	ND	5/10/2018	500
POLYCHLORINATED BIPHENYLS	µg/L	ND	2/7/2018	ND	5/10/2018	0.5
SIMAZINE	µg/L	ND	2/7/2018	ND	5/10/2018	4
TOXAPHENE	µg/L	ND	2/7/2018	ND	5/10/2018	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.28	0.90	0.58	Apr-18	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.34	1.00	0.69	May-18	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.62	1.05	0.85	Jun-18	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT							
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.20	1.00	0.63	Apr-18	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.20	1.05	0.58	May-18	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	40	0.30	1.15	0.69	Jun-18	4.0
NORTH WELD COUNTY WATER DISTRICT							
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.46	0.85	0.68	Apr-18	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.17	0.96	0.67	May-18	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	10	0.61	0.99	0.82	Jun-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	Apr-18	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	May-18	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jun-18	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT						
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Apr-18	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	May-18	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		40	0	40	Jun-18	NO/NO
NORTH WELD COUNTY WATER DISTRICT						
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Apr-18	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	May-18	NO/NO
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jun-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	25.2	80	24.1	60	4/11/2018
SAMPLE SITE - DBP002	µg/L	50.0	80	24.0	60	4/11/2018
SAMPLE SITE - DBP003	µg/L	34.0	80	26.2	60	4/11/2018
SAMPLE SITE - DBP004	µg/L	36.7	80	24.4	60	4/11/2018
FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	18.5	80	22.4	60	4/10/2018
SAMPLE SITE - DBP002	µg/L	38.4	80	21.5	60	4/10/2018
SAMPLE SITE - DBP003	µg/L	29.4	80	29.5	60	4/10/2018
SAMPLE SITE - DBP004	µg/L	35.2	80	27.1	60	4/10/2018

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	35.3	80	27.9	60	4/10/2018
SAMPLE SITE - DBP002	µg/L	30.4	80	31.4	60	4/10/2018
SAMPLE SITE - DBP003	µg/L	33.0	80	32.0	60	4/10/2018
SAMPLE SITE - DBP004	µg/L	30.3	80	27.6	60	4/10/2018

CHLORITE

		1ST RES	AVG RES	MAX RES	DATE	MCL
EAST LARIMER COUNTY WD (FCL)	mg/L	0.46	0.49	0.45	4/19/2018	1.0
FORT COLLINS/LOVELAND WD (EA)	mg/L	0.44	0.42	0.21	4/10/2018	1.0
NORTH WELD COUNTY WD (WCL)	mg/L	0.54	0.58	0.52	5/8/2018	1.0

LEAD AND COPPER

EAST LARIMER COUNTY WATER DISTRICT (AL)

		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
		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		
LEAD	mg/L	0.004	Jun-18	0.015
COPPER	mg/L	0.257	Jun-18	1.3

NORTH WELD COUNTY WATER DISTRICT (AL)

		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0039	Jul-17	0.015
COPPER	mg/L	0.27	Jul-17	1.3

MCL = Maximum Contaminate Level - Enforcable

*SMCL = Secondary Maximum Contaminate Level - Reccomended

**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 (AL) = Accutest 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

N/A = Not applicable

VOC = Volatile Organic Chemicals

LRAA = Location Running Annual Average

MRDL = Maximum Residual Disinfectant Level

> = Greater Than