

# TRI DISTRICT/SOLDIER CANYON FILTER PLANT

(East Larimer County Water District; Fort Collins/Loveland Water District; North Weld County Water District)

## WATER QUALITY REPORT

**3RD QUARTER 2013**

ANALYSIS PARAMETER <small>Monitored at SCFP (not a certified lab)</small>	report values	PLANT INFLUENT			PLANT EFFLUENT			MCL
		MIN	MAX	AVG	MIN	MAX	AVG	*SMCL
ALKALINITY	mg/l	21	30	25.0	31	44	37.8	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.007	0.034	0.02	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	21	25	23.1	19	27	22.2	N/A
CHLORINE	mg/l	N/A	N/A	N/A	0.73	0.90	0.80	4.0
CHLORITE	mg/l	N/A	N/A	N/A	0.18	0.40	0.26	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0	0.08	0.0	0.8
CONDUCTIVITY	uS/cm	48.1	68.3	60.9	51.8	102.5	87.9	N/A
DISSOLVED OXYGEN	mg/l	5.6	8.5	6.9	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.12	0.28	0.20	0.10	0.68	0.26	4.0/*2.0
HARDNESS	mg/l	26	33	29.5	24	32	28.7	N/A
IRON	mg/l	0	0.09	0.05	0	0.02	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.78	-2.35	-2.17	-1.11	-1.52	-1.27	N/A
MANGANESE	mg/l	0.021	0.065	0.030	0.003	0.011	0.006	*0.05
pH	VALUE	7.00	7.55	7.22	7.82	8.21	8.00	N/A
TEMPERATURE	°C	7.0	8.9	8.0	7.1	9.2	8.1	N/A
TOTAL DISSOLVED SOLIDS	mg/l	29.3	38.4	32.9	36.6	81.1	49.9	*500
TRUE COLOR	APHA	5.0	35.0	13.3	0	14.0	2.7	*15.0
TURBIDITY	NTU	2.13	4.01	2.78	0.018	0.044	0.020	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
ANTIMONY	mg/l		<0.0010	2/12/2013	0.006
ARSENIC	mg/l		<0.0020	2/12/2013	0.010
BARIUM	mg/l		0.019	2/12/2013	2.000
BERYLLIUM	mg/l		<0.0003	2/12/2013	0.004
CADMIUM	mg/l		<0.0010	2/12/2013	0.005
CHROMIUM	mg/l		<0.0020	2/12/2013	0.1
CYANIDE	mg/l		<0.02	2/12/2013	0.2
FLUORIDE	mg/l		0.7	2/12/2013	4.0
MERCURY	mg/l		<0.0001	2/12/2013	0.002
NICKEL	mg/l		<0.0010	2/12/2013	*SMCL
SELENIUM	mg/l		<0.0020	2/12/2013	0.050
SODIUM	mg/l		7.9	2/12/2013	*SMCL
THALLIUM	mg/l		<0.0004	2/12/2013	0.002

NITRATE AND/OR NITRITE AS NITROGEN (UL) - (ENTER INTO DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
NITRATE	mg/l		0.1	2/12/2013	10.000
NITRITE	mg/l		<0.01	2/12/2013	1.000

TOTAL ORGANIC CARBON (AL) - (PLANT INFLUENT AND EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		3.5	2.1	1.14	7/24/2013	RAA - ≥1.0
			3.4	1.9	1.26	8/13/2013	RAA - ≥1.0
			3.4	2.2	1.01	9/17/2013	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (PLANT INFLUENT ONLY)	mg/l		25.5			7/24/2013	N/A
			29			8/13/2013	N/A
			25.9			9/17/2013	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 (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)**

			RESULTS	DATE	MCL
1,1-DICHLOROETHYLENE	µg/L		ND	2/12/2013	7
1,1,1-TRICHLOROETHANE	µg/L		ND	2/12/2013	200
1,1,2-TRICHLOROETHANE	µg/L		ND	2/12/2013	5
1,2-DICHLOROETHANE	µg/L		ND	2/12/2013	5
1,2-DICHLOROPROPANE	µg/L		ND	2/12/2013	5
1,2,4-TRICHLOROBENZENE	µg/L		ND	2/12/2013	70
BENZENE	µg/L		ND	2/12/2013	5
CARBON TETRACHLORIDE	µg/L		ND	2/12/2013	5
cis-1,2-DICHLOROETHYLENE	µg/L		ND	2/12/2013	70
DICHLOROMETHANE	µg/L		ND	2/12/2013	5
ETHYLBENZENE	µg/L		ND	2/12/2013	700
MONOCHLOROBENZENE	µg/L		ND	2/12/2013	100
o-DICHLOROBENZENE	µg/L		ND	2/12/2013	600
para-DICHLOROBENZENE	µg/L		ND	2/12/2013	75
STYRENE	µg/L		ND	2/12/2013	100
TETRACHLOROETHYLENE	µg/L		ND	2/12/2013	5
TOLUENE	µg/L		ND	2/12/2013	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	2/12/2013	100
TRICHLOROETHYLENE	µg/L		ND	2/12/2013	5
VINYL CHLORIDE	µg/L		ND	2/12/2013	2
XYLENES (total)	µg/L		ND	2/12/2013	1000

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

					RESULTS	DATE	MCL
2,4-D	µg/L		ND	7/5/2011	ND	10/25/2011	70
2,4,5-TP	µg/L		ND	7/5/2011	ND	10/25/2011	50
ALACHLOR	µg/L		ND	7/5/2011	ND	10/25/2011	2
ATRAZINE	µg/L		ND	7/5/2011	ND	10/25/2011	3
BENZO(a)PYRENE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
CARBOFURAN	µg/L		ND	7/5/2011	ND	10/25/2011	40
CHLORDANE	µg/L		ND	7/5/2011	ND	10/25/2011	2
DALAPON	µg/L		ND	7/5/2011	ND	10/25/2011	200
DIBROMOCHLOROPROPANE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
DINOSEB	µg/L		ND	7/5/2011	ND	10/25/2011	7
DIQUAT	µg/L		ND	7/5/2011	ND	10/25/2011	20
DI(2-ethylhexyl)ADIPATE	µg/L		ND	7/5/2011	ND	10/25/2011	400
DI(2-ethylhexyl)PHTHALATE	µg/L		ND	7/5/2011	ND	10/25/2011	6
ENDOTHALL	µg/L		ND	7/5/2011	ND	10/25/2011	100
ENDRIN	µg/L		ND	7/5/2011	ND	10/25/2011	2
ETHYLENE DIBROMIDE	µg/L		ND	7/5/2011	ND	10/25/2011	0.05
HEPTACHLOR	µg/L		ND	7/5/2011	ND	10/25/2011	0.4
HEPTACHLOR EPOXIDE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
HEXACHLOROBENZENE	µg/L		ND	7/5/2011	ND	10/25/2011	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	7/5/2011	ND	10/25/2011	50
LINDANE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
METHOXYCHLOR	µg/L		ND	7/5/2011	ND	10/25/2011	40

**ORGANIC CHEMICAL ANALYSES - SOC's (UL) (con't) - (ENTRY INTO THE DISTRIBUTION SYSTEM)**

						RESULTS	DATE	MCL
OXAMYL	µg/L		ND	7/5/2011		ND	10/25/2011	200
PENTACHLOROPHENOL	µg/L		ND	7/5/2011		ND	10/25/2011	1
PICLORAM	µg/L		ND	7/5/2011		ND	10/25/2011	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	7/5/2011		ND	10/25/2011	0.5
SIMAZINE	µg/L		ND	7/5/2011		ND	10/25/2011	4
TOXAPHENE	µg/L		ND	7/5/2011		ND	10/25/2011	3

**UNREGULATED ORGANIC CHEMICALS - SOC'S (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)**

						RESULTS	DATE	MCL
3-HYDROXYCARBOFURAN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDICARB	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDICARB SULFONE	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDICARB SULFOXIDE	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDRIN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
BUTACHLOR	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
CARBARYL	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
DICAMBA	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
DIELDRIN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
METHOMYL	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
METOLACHLOR	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
METRIBUZIN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
PROPACHLOR	µg/L		ND	7/5/2011		ND	10/25/2011	N/A

**UNREGULATED ORGANIC CHEMICALS - VOC's (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)**

						RESULTS	DATE	MCL
1,1-DICHLOROETHANE	µg/L					ND	2/12/2013	N/A
1,1-DICHLOROPROPENE	µg/L					ND	2/12/2013	N/A
1,1,1,2-TETRACHLOROETHANE	µg/L					ND	2/12/2013	N/A
1,1,2,2-TETRACHLOROETHANE	µg/L					ND	2/12/2013	N/A
1,2,3-TRICHLOROBENZENE	µg/L					ND	2/12/2013	N/A
1,2,3-TRICHLOROPROPANE	µg/L					ND	2/12/2013	N/A
1,2,4-TRIMETHYLBENZENE	µg/L					ND	2/12/2013	N/A
1,3-DICHLOROPROPANE	µg/L					ND	2/12/2013	N/A
1,3-DICHLOROPROPENE	µg/L					ND	2/12/2013	N/A
1,3,5-TRIMETHYLBENZENE	µg/L					ND	2/12/2013	N/A
2,2-DICHLOROPROPANE	µg/L					ND	2/12/2013	N/A
BROMOBENZENE	µg/L					ND	2/12/2013	N/A
BROMOCHLOROMETHANE	µg/L					ND	2/12/2013	N/A
BROMOMETHANE	µg/L					ND	2/12/2013	N/A
CHLOROETHANE	µg/L					ND	2/12/2013	N/A
CHLOROMETHANE	µg/L					ND	2/12/2013	N/A
DIBROMOMETHANE	µg/L					ND	2/12/2013	N/A
DICHLORODIFLUOROMETHANE	µg/L					ND	2/12/2013	N/A
FLUOROTRICHLOROMETHANE	µg/L					ND	2/12/2013	N/A
HEXACHLOROBUTADIENE	µg/L					ND	2/12/2013	N/A
ISOPROPYLBENZENE	µg/L					ND	2/12/2013	N/A
m-DICHLOROBENZENE	µg/L					ND	2/12/2013	N/A
NAPHTHALENE	µg/L					ND	2/12/2013	N/A
n-BUTYLBENZENE	µg/L					ND	2/12/2013	N/A

UNREGULATED ORGANIC CHEMICALS-VOC's (UL) (con't)-(ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
n-PROPYLBENZENE	µg/L		ND	2/12/2013	N/A
o-CHLOROTOLUENE	µg/L		ND	2/12/2013	N/A
p-CHLOROTOLUENE	µg/L		ND	2/12/2013	N/A
p-ISOPROPYLTOLUENE	µg/L		ND	2/12/2013	N/A
sec-BUTYLBENZENE	µg/L		ND	2/12/2013	N/A
tert-BUTYLBENZENE	µg/L		ND	2/12/2013	N/A

CHLORITE (AL) - (FROM DISTRIBUTION SYSTEM)			MIN	MAX	AVG	DATE	MCL
CHLORITE	mg/L		0.23	0.28	0.26	7/23/2013	1.0

TOTAL COLIFORMS (SE/WCL) - (FROM DISTRIBUTION SYSTEM)		TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jul-13	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Aug-13	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Sep-13	>1 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		45	0	45	Jul-13	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		45	0	45	Aug-13	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		45	0	45	Sep-13	>2 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Jul-13	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Aug-13	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Sep-13	>1 POSITIVE

TTHM AND HAA (UL) - (FROM DISTRIBUTION SYSTEM)		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
EAST LARIMER COUNTY WATER DISTRICT						
SAMPLE SITE - ELC SM4	µg/L	24	80	19.8	60	3 QTR LRAA
SAMPLE SITE - ELC SM6	µg/L	36.9	80	16.1	60	3 QTR LRAA
SAMPLE SITE - ELC SM2	µg/L	23	80	19.3	60	3 QTR LRAA
FORT COLLINS/LOVELAND WATER DISTRICT						
SAMPLE SITE - FCL SM4	µg/L	20.9	80	17.6	60	3 QTR LRAA
SAMPLE SITE - FCL SM6	µg/L	27.6	80	15.8	60	3 QTR LRAA
NORTH WELD COUNTY WATER DISTRICT						
SAMPLE SITE - NWC SM1	µg/L	40.2	80	19.8	60	3 QTR LRAA
SAMPLE SITE - NWC SM4	µg/L	39.2	80	29	60	3 QTR LRAA
SAMPLE SITE - NWC MAX RES 1	µg/L	39.3	80	26	60	3 QTR LRAA

MCL = Maximum Contaminate Level - Enforcable	BDL = Below Detectable Limit
*SMCL = Secondary Maximum Contaminate Level - Reccomended	ND = Not Detected
**TT = Treatment Technique	N/A = Not applicable
RAA = Running Annual Average	LRAA = Location Running Annual Average
(FCL) = Fort Collins Lab (UL) = United Lab (AL) = Accutest Lab (SE) = Stewart Environmental Lab (WCL) = Weld County Lab	