

TRI DISTRICT/SOLDIER CANYON FILTER PLANT

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

WATER QUALITY REPORT

1ST QUARTER 2013

ANALYSIS PARAMETER <small>Monitored at Tri District (not a certified lab)</small>	report values	PLANT INFLUENT			PLANT EFFLUENT			MCL
		MIN	MAX	AVG	MIN	MAX	AVG	*SMCL
ALKALINITY	mg/l	22	31	25.6	28	37	32.6	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.005	0.042	0.02	*0.05 - 0.2
CALCIUM	mg/l	23	26	24.8	22	26	24.4	N/A
CHLORINE	mg/l	N/A	N/A	N/A	0.82	0.95	0.88	4.0
CHLORITE	mg/l	N/A	N/A	N/A	0.13	0.29	0.19	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0	0.04	0.0	0.8
CONDUCTIVITY	uS/cm	51	86	66.4	82	93	84.8	N/A
DISSOLVED OXYGEN	mg/l	8.4	12.4	10.1	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.16	0.25	0.20	0.63	0.93	0.75	4.0/*2.0
HARDNESS	mg/l	25	38	29.8	26	38	29.5	N/A
IRON	mg/l	0.07	0.1	0.08	0	0.01	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.71	-2.23	-1.95	-1.28	-1.55	-1.38	N/A
MANGANESE	mg/l	0.028	0.054	0.040	0.001	0.009	0.005	*0.05
pH	VALUE	7.18	7.86	7.50	7.78	8.13	7.94	N/A
TEMPERATURE	°C	3.3	5.3	4.1	3.8	5.2	4.4	N/A
TOTAL DISSOLVED SOLIDS	mg/l	29	44	33.8	41	46.5	42.4	*500
TRUE COLOR	APHA	4	41	15.2	0	10.0	2.5	*15.0
TURBIDITY	NTU	3.17	5.8	4.24	0.019	0.067	0.022	**<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 (FCL/AL) - (PLANT INFLUENT AND EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		3.31	2.05	1.09	1/15/2013	RAA - ≥1.0
			3.58	2.01	1.25	2/12/2013	RAA - ≥1.0
			3.5	2.2	1.06	3/12/2013	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (PLANT INFLUENT ONLY)	mg/l		30.7			1/15/2013	N/A
			30.3			2/12/2013	N/A
			32.6			3/12/2013	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 (FCL) - (FROM DISTRIBUTION SYSTEM)		MIN	MAX	AVG	DATE	MCL
CHLORITE	mg/L	0.21	0.22	0.21	1/16/2013	1.0

TOTAL COLIFORMS (SE/WCL) - (FROM DISTRIBUTION SYSTEM)	TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL
EAST LARIMER COUNTY WATER DISTRICT	20	0	20	Jan-13	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT	20	0	20	Feb-13	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT	20	0	20	Mar-13	>1 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT	45	0	45	Jan-13	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT	45	0	45	Feb-13	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT	45	0	45	Mar-13	>2 POSITIVE
NORTH WELD COUNTY WATER DISTRICT	10	0	10	Jan-13	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT	10	0	10	Feb-13	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT	10	0	10	Mar-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	31.9	80	30	60	1st QTR LRAA
SAMPLE SITE - ELC SM6	µg/L	55.3	80	21.7	60	1st QTR LRAA
SAMPLE SITE - ELC SM2	µg/L	23.2	80	24	60	1st QTR LRAA
FORT COLLINS/LOVELAND WATER DISTRICT						
SAMPLE SITE - FCL SM4	µg/L	26.4	80	26	60	1st QTR LRAA
SAMPLE SITE - FCL SM6	µg/L	31.9	80	18.5	60	1st QTR LRAA
NORTH WELD COUNTY WATER DISTRICT						
SAMPLE SITE - NWC SM1	µg/L	36	80	23.8	60	1st QTR LRAA
SAMPLE SITE - NWC SM4	µg/L	28.8	80	31	60	1st QTR LRAA
SAMPLE SITE - NWC MAX RES 1	µg/L	28.7	80	30	60	1st QTR LRAA

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