

Colorado Dept. of Transportation 222 S 6th St., Rm 317, Grand Junction, CO 81501 douglas.killerud@state.co.us

June 23rd, 2015

Attn: Doug Killerud

Re: Alpensee Water District - Results of Special Purposes Sampling (Well #1 / Well #2)

P.O. #411005225

Dear Mr. Killerud,

We have received the results of the special purposes raw water sampling, which was performed at the request of the Colorado Dept. of Transportation, as a means of establishing the existing water quality at the potable drinking water supply wells, which supply the Alpensee Water District.

The spreadsheet below provides a break-down of the results of each parameter, and the established human-health implications, and/or aesthetic considerations, associated with elevated levels of each analyte.

Our review has established that there are naturally elevated levels, for the following analytes:

- Well #1 Iron (highlighted in the associated spreadsheet, below)
- Well #2 Iron (highlighted in the associated spreadsheet, below)

All other analytes were within acceptable concentration limits.

Sample Type / Result:		Established Li	mit:	Level of Concern w- Results / Human Health		
(expressed @ ug/L, unless otherwise				Implications & Aesthetics		
specified)	Result	Primary	Secondary			
1,1,1,2 - Tetrachloroethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,1,1, - Trichloroethane	< 0.5	200 ug/L	N/A	Liver, nervous system, or circulatory problems		
1,1,2,2, - Tetrachloroethane	< 0.6	N/A	N/A	May have long term health effects, with continued exposure		
1,1,2 - Trichloroethane	< 0.5	5 ug/L	N/A	Liver, kidney, or immune system problems		
1,1 - Dichloroethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,1 - Dichloroethylene	< 0.5	7 ug/L	N/A	Liver problems		
1,1 - Dichloropropene	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,2,3, - Trichlorobenzene	< 0.5	70 ug/L	N/A	Changes in adrenal glands		
1,2,3 - Tricholorpropane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,2,4 - Trichlorobenzene	< 0.5	70 ug/L	N/A	Changes in adrenal glands		
1,2,4 - Trimethylbenzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
1,2 - Dichloroethane	< 0.5	5 ug/L	N/A	Increased risk of cancer		
1,2 - Dichloropropane	< 0.5	5 ug/L	N/A	Increased of cancer		
1,3,5 - Trimethylbenzene	< 0.5	5 ug/L	N/A	Increased of cancer		
1,3 - Dichloropropane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,3 - Dichloropropene	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
Alachlor	< 0.2	2 ug/L	N/A	Eye, liver, kidney or spleen problems, anemia. Increased		
				risk of cancer.		
Artazine	< 0.1	N/A	N/A	May have long term health effects, with continued exposure		
Benzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
Benzo(a)pyrene	< 0.02	N/A	N/A	May have long term health effects, with continued exposure		
Bromobenzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
Bromochloromethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
Bromodichloromethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Bromoform	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Bromomethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Butachlor	<0.25	N/A	N/A	May have long term health effects, with continued exposure		
Carbon Tetrachloride	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer		
Chlorodibromomethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Chloroethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Chloroform	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Chloromethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Cis-1,2-Dichloroethylene	<0.5	7 ug/L	N/A	Liver problems		
Di(2-thylhexyl)adipate	<0.6	400 ug/L	N/A	Weight loss, liver problems, or possible reproductive difficulties		
Di(2-thylhexyl)phlalate	<0.6	6 ug/L	N/A	Weight loss, liver problems, or possible reproductive difficulties		
Dibromomethane	<0.8	N/A	N/A	May have long term health effects, with continued exposure		
Dichlorodifluoromethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Dichloromethane	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer		
Ethylbenzene	<0.5	700 ug/L	N/A	Liver or kidney problems		
Fluorotricholomethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Hexachlorobutadiene	<0.5	N/A	N/A	May have long term health effects, with continued exposure		
Isopropylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
m-Dichlorobenzene	< 0.5	100 ug/L	N/A	Liver or Kidney problems		
Metolachlor	< 0.25	N/A	N/A	May have long term health effects, with continued exposure		
Monochlorobenzene	<0.5	100 ug/L	N/A	Liver or Kidney problems		
Naphthalene	<0.5	N/A	N/A	May have long term health effects, with continued exposure		

n-Butylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
n-Propylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
o-Chlorotoluene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
o-Dichlorobenzene	<0.5	600 ug/L	N/A	Anemia; liver, kidney or spleen damage; changes in blood
Para-Dichlorobenzene	<0.5	100 ug/L	N/A	Liver or Kidney problems
p-Chlorotoluene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
p-Isolpropyltoluene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Propachlor	<0.25			<u> </u>
	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Sec-Butylbenzene	5.2000000	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
Simazine	<0.07	4 ug/L	N/A	Problems with blood
Styrene	<0.5	100 ug/L	N/A	Liver, kidney, or circulatory system problems
Tert-Butylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
Tetrachloroethylene	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer
Toluene	<0.5	1000 ug/L	N/A	Nervous system, kidney, or liver problems
Trans-1,2-Dichloroethylene	<0.5	100 ug/L	N/A	Liver problems
Trichloroethylene	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer
Vinyl Chloride	<0.5	2 ug/L	N/A	Increased risk of cancer
Xylenes (total)	<0.5	10,000 ug/L	N/A	Nervous system damage
Radium - 226	0.1 (+/- 0.1)	5 ug/L (w/228)	N/A	Increased risk of cancer
Radium - 228	0.0 (+/- 0.7)	5 ug/L (w/226)	N/A	Increased risk of cancer
Radon	1300 (+/- 44)	4,000 ug/L	N/A	Increased risk of cancer
e-Coli	< 1 mpn/100	Absent	N/A	Bacteria is indicative of contamination of the water supply
У	ml			with human and/or animal waste
Nitrite Nitrogen	<0.03 mg/L	1 mg/L	N/A	Infants under 6 months may become ill & die. Symptoms
0.1 0 0	40 F /I	N//	21/4	include shortness of breath, and "blue baby" syndrome.
Oil & Grease	<0.5 mg/L	N/A	N/A	May have long term health effects, with continued exposure
Total Organic Carbon	1.5 mg/L	N/A	N/A	May have long term health effects, with continued exposure
Antimony	<0.0001 mg/L	6 ug/L		Increase in blood cholesterol, decrease in blood sugar
Arsenic	<0.0001 mg/L	N/A	N/A	May have long term health effects, with continued exposure
Barium	0.095 mg/L	2 mg/L	N/A	Increase in blood pressure
Beryllium	<0.001 mg/L	0.004 mg/L	N/A	Intestinal lesions
Cadmium	<0.001 mg/L	0.005 mg/L	N/A	Kidney damage
Chromium	<0.001 mg/L	100 ug/L	N/A	Allergic dermatitis
Copper	0.0398 mg/L	1.3 mg/L	N/A	Short Term – Gastrointestinal distress / Long term – Liver or Kidney damage.
Lead	0.0079 mg/L	0.015 mg/L	N/A	Infants & Children may experience developmental delays.
				Adults may experience kidney problems and/or high blood
	40 0001 /I	0.002 //	N / A	pressure
Mercury	<0.0001 mg/L	0.002 ug/L	N/A	Kidney damage
Nickel	<0.001 mg/L	N/A	N/A	May have long term health effects, with continued exposure
Selenium	<0.001 mg/L	0.05 mg/L	N/A	Hair or fingernail loss, numbness in fingers or toes, circulatory problems
Sodium	9.8 mg/L	N/A	100 mg/L	May elevate blood pressure in some individuals
Thallium	<0.001 mg/L	0.002 mg/L	N/A	Hair loss, changes on blood; kidney, intestine, or liver problems
Uranium	<0.0002 mg/L	30 ug/L	N/A	Increased risk of cancer, kidney toxicity
Total Alkalinity (A CaCO3)	92.2 mg/L	N/A	N/A	May affect taste and/or odor in water
Bicarbonate	112.5 mg/l	N/A	N/A	May affect taste and/or odor in water
Carbonate	<0.1 mg/L	N/A	N/A	May affect taste and/or odor in water
Chloride	10.6 mg/L	N/A	250 mg/L	May affect taste and/or odor in water
Iron	1.529 mg/L	N/A	0.3 mg/L	May affect taste and/or odor in water
Fluoride	<0.09	4 mg/L	2 mg/L	Bone disease,(pain & tenderness of the bones), children may have mottled teeth.
Potassium	1.5 mg/L	N/A	N/A	May affect taste and/or odor in water
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Nitrate Nitrogen	.48 mg/L	10 mg/L	N/A	Infants under 6 months may become ill & die. Symptoms include shortness of breath, and "blue baby" syndrome.
рН	6.48 units	N/A	6-9 units	May affect the softness or hardness of water, may also affect piping
Calcium	27.5 mg/L	N/A	N/A	May affect the softness or hardness of water, may also affect piping
Magnesium	6.1mg/L	N/A	N/A	May affect the softness or hardness of water, may also affect piping. May also create a staining effect on fixtures, and in laundry
Sodium Adsorption Ratio	0.4 units	N/A	N/A	May affect the softness or hardness of water, may also affect piping & outside landscaping.
Total Hardness (ACaCO3)	93.6 mg/L	N/A	N/A	May affect the softness or hardness of water, may also affect piping
Sulfate	10.0 mg/L	N/A	250 mg/L	May affect taste and/or odor in water
Total Dissolved Solids	147 mg/L	N/A	500 mg/L	May affect taste and/or odor in water
Total Coliform	Absent	Absent	N/A	Bacteria is indicative of contamination of the water supply with human and/or animal waste

END OF WELL #1 REPORT

Sample Type / Result: (expressed @ ug/L, unless otherwise specified) Result		Established 1	<u>Limit:</u>	Level of Concern w- Results / Human Health Implications & Aesthetics		
		Primary Secondary		Implications & Acstrictics		
1,1,1,2 - Tetrachloroethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,1,1, - Trichloroethane	< 0.5	200 ug/L	N/A	Liver, nervous system, or circulatory problems		
1,1,2,2, - Tetrachloroethane	< 0.6	N/A	N/A	May have long term health effects, with continued exposure		
1,1,2 - Trichloroethane	< 0.5	5 ug/L	N/A	Liver, kidney, or immune system problems		
1,1 - Dichloroethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,1 - Dichloroethylene	< 0.5	7 ug/L	N/A	Liver problems		
1,1 - Dichloropropene	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,2,3, - Trichlorobenzene	< 0.5	70 ug/L	N/A	Changes in adrenal glands		
1,2,3 - Tricholorpropane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,2,4 - Trichlorobenzene	< 0.5	70 ug/L	N/A	Changes in adrenal glands		
1,2,4 - Trimethylbenzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
1,2 - Dichloroethane	< 0.5	5 ug/L	N/A	Increased risk of cancer		
1,2 - Dichloropropane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,3,5 - Trimethylbenzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
1,3 - Dichloropropane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
1,3 - Dichloropropene	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		
Alachlor	< 0.2	2 ug/L	N/A	Eye, liver, kidney or spleen problems, anemia. Increased risk of cancer.		
Artazine	< 0.1	N/A	N/A	May have long term health effects, with continued exposure		
Benzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
Benzo(a)pyrene	< 0.02	N/A	N/A	May have long term health effects, with continued exposure		
Bromobenzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer		
Bromochloromethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure		

Bromodichloromethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Bromoform	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Bromomethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Butachlor	<0.25	N/A	N/A	May have long term health effects, with continued exposure
Carbon Tetrachloride	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer
Chlorodibromomethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Chloroethane	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Chloroform	<0.5	N/A	-	
Chloromethane	<0.5		N/A	May have long term health effects, with continued exposure
Cis-1,2-Dichloroethylene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
	<0.6	7 ug/L	N/A	Liver problems
Di(2-thylhexyl)adipate	₹0.6	400 ug/L	N/A	Weight loss, liver problems, or possible reproductive difficulties
Di(2-thylhexyl)phlalate	<0.6	6 ug/L	N/A	Weight loss, liver problems, or possible reproductive difficulties
Dibromomethane	<0.8	N/A	N/A	May have long term health effects, with continued exposure
Dichlorodifluoromethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure
Dichloromethane	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer
Ethylbenzene	<0.5	700 ug/L	N/A	Liver or kidney problems
Fluorotricholomethane	< 0.5	N/A	N/A	May have long term health effects, with continued exposure
Hexachlorobutadiene	< 0.5	N/A	N/A	May have long term health effects, with continued exposure
Isopropylbenzene	< 0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
m-Dichlorobenzene	<0.5	100 ug/L	N/A	Liver or Kidney problems
Metolachlor	<0.25	N/A	N/A	May have long term health effects, with continued exposure
Monochlorobenzene	<0.5	100 ug/L	N/A	Liver or Kidney problems
Naphthalene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
n-Butylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
n-Propylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
o-Chlorotoluene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
o-Dichlorobenzene	<0.5	600 ug/L	N/A	Anemia; liver, kidney or spleen damage; changes in blood
Para-Dichlorobenzene	<0.5	100 ug/L	N/A	Liver or Kidney problems
p-Chlorotoluene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
p-Isolpropyltoluene	<0.5	N/A	N/A	May have long term health effects, with continued exposure
Propachlor	<0.25	N/A	N/A	May have long term health effects, with continued exposure
Sec-Butylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
Simazine	< 0.07	4 ug/L	N/A	Problems with blood
Styrene	<0.5	100 ug/L	N/A	Liver, kidney, or circulatory system problems
Tert-Butylbenzene	<0.5	5 ug/L	N/A	Anemia, decrease in blood platelets, increase of cancer
Tetrachloroethylene	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer
Toluene	<0.5	1000 ug/L	N/A	Nervous system, kidney, or liver problems
Trans-1,2-Dichloroethylene	<0.5	100 ug/L	N/A	Liver problems
Trichloroethylene	<0.5	5 ug/L	N/A	Liver problems, increased risk of cancer
Vinyl Chloride	<0.5	2 ug/L	N/A	Increased risk of cancer
Xylenes (total)	<0.5	10,000 ug/L	N/A	Nervous system damage
Radium - 226	0.1 (+/- 0.1)	5 ug/L (w/228)	N/A	Increased risk of cancer
Radium - 228	0.0 (+/- 0.7)	5 ug/L (w/226)	N/A	Increased risk of cancer
Radon	1730 (+/- 44)	4,000 ug/L	N/A	Increased risk of cancer
e-Coli	< 1 mpn/100	Absent	N/A	Bacteria is indicative of contamination of the water supply
Nitrite Nitrogen	ml <0.03 mg/L	1 mg/L	N/A	with human and/or animal waste Infants under 6 months may become ill & die. Symptoms
0:1.0.0	∠0 ° //	NI / A	N1 / A	include shortness of breath, and "blue baby" syndrome.
Oil & Grease	<0.5 mg/L	N/A	N/A	May have long term health effects, with continued exposure
Total Organic Carbon	1.5 mg/L	N/A	N/A	May have long term health effects, with continued exposure
Antimony	<0.0001 mg/L	6 ug/L		Increase in blood cholesterol, decrease in blood sugar

Arsenic	<0.0001 mg/L	N/A	N/A	May have long term health effects, with continued exposure		
Barium	0.090 mg/L	2 mg/L	N/A	Increase in blood pressure		
Beryllium	<0.001 mg/L	0.004 mg/L	N/A	Intestinal lesions		
Cadmium	<0.001 mg/L	0.005 mg/L	N/A	Kidney damage		
Chromium	0.001 mg/L	100 ug/L	N/A	Allergic dermititis		
Copper	0.0047 mg/L	1.3 mg/L	N/A	Short Term – Gastrointestinal distress / Long term – Liver or Kidney damage.		
Lead	0.0008 mg/L	0.015 mg/L	N/A	Infants & Children may experience developmental delays. Adults may experience kidney problems and/or high blood pressure		
Mercury	<0.0001 mg/L	0.002 ug/L	N/A	Kidney damage		
Nickel	<0.001 mg/L	N/A	N/A	May have long term health effects, with continued exposure		
Selenium	<0.001 mg/L	0.05 mg/L	N/A	Hair or fingernail loss, numbness in fingers or toes, circulatory problems		
Sodium	10.7 mg/L	N/A	100 mg/L	May elevate blood pressure in some individuals		
Thallium	<0.001 mg/L	0.002 mg/L	N/A	Hair loss, changes on blood; kidney, intestine, or liver problems		
Uranium	0.0002 mg/L	30 ug/L	N/A	Increased risk of cancer, kidney toxicity		
Total Alkalinity (A CaCO3)	95.3 mg/L	N/A	N/A	May affect taste and/or odor in water		
Bicarbonate	116.3 mg/l	N/A	N/A	May affect taste and/or odor in water		
Carbonate	<0.1 mg/L	N/A	N/A	May affect taste and/or odor in water		
Chloride	8.8 mg/L	N/A	250 mg/L	May affect taste and/or odor in water		
Iron	0.870 mg/L	N/A	0.3 mg/L	May affect taste and/or odor in water		
Fluoride	0.11	4 mg/L	2 mg/L	Bone disease,(pain & tenderness of the bones), children may have mottled teeth.		
Potassium	1.5 mg/L	N/A	N/A	May affect taste and/or odor in water		
Nitrate Nitrogen	0.43 mg/L	10 mg/L	N/A	Infants under 6 months may become ill & die. Symptoms include shortness of breath, and "blue baby" syndrome.		
рН	6.44 units	N/A	6-9 units	May affect the softness or hardness of water, may also affect piping		
Calcium	26.8 mg/L	N/A	N/A	May affect the softness or hardness of water, may also affect piping		
Magnesium	6.0 mg/L	N/A	N/A	May affect the softness or hardness of water, may also affect piping. May also create a staining effect on fixtures, and in laundry		
Sodium Adsorption Ratio	0.5 units	N/A	N/A	May affect the softness or hardness of water, may also affec piping & outside landscaping.		
Total Hardness (ACaCO3)	91.8 mg/L	N/A	N/A	May affect the softness or hardness of water, may also affect piping		
Sulfate	10.5 mg/L	N/A	250 mg/L	May affect taste and/or odor in water		
Total Dissolved Solids	146 mg/L	N/A	500 mg/L	May affect taste and/or odor in water		
Total Coliform	Absent	Absent	N/A	Bacteria is indicative of contamination of the water supply with human and/or animal waste		

END OF WELL #2 REPORT

	Ark.	PHYS	ICAL WELL INSPI	ECTIO	N REPORT		
DATE	WELL #1			WELL #2			
4/22/15	STATIC WATER LEVEL	7' 2"		STATIC WATER LEVEL		6' 4"	
4/22/15	DRAWDOWN LEVEL	14' 5" @ 1 min. 14' 9" @ 2 min. (sucking air)		DRAWDOWN LEVEL		22' 1" 22' 1"	@ 1min. (1st test) @ 1 min. (2nd test)
4/22/15	RECHARGE LEVEL	7'7" @ 2 min. 7'3" @ 5 min. 10 sec.		RECHARGE LEVEL		6' 6" 6' 6" 6' 4.5"	@ 35 sec. (1st test) @ 1min. 21 sec. (2nd test) @ 3 min. (2nd test)
4/22/15	VISUAL INSPECTION	Oil shee	n & bubbles visible	VISUAL INSPECTION		Slight oil sheen & bubbles visible	
4/22/15	рН	7.08		рН		7.03	
4/22/15	Temp	7º (cel)		Temp		10.2°	
4/22/15	 Comments: Sampling performed prior to draw down test. Draw down test taken while water is in static mode. Well casing is 10" nominal = 4.04 gal/ft. Top of casing to ground = 16" Water level measurements are from top of casing. 			Comments: Sampling performed prior to draw down test. Draw down test taken while water is in static mode. Well casing is 8" nominal = 2.64 gal/ft. Top of casing to ground = 17" Water level measurements are from top of casing.			

If you have any questions, or concerns, please do not hesitate to contact us.

Kind regards,

Hope Dibble, CWP

Compliance Manager / Design Treatment Consultant

Alberts Water & Wastewater Specialists, Inc.

Main Office - 425 John Deere Dr., Fort Collins, Co. 80524

Mailing - 737 S. Lemay Ave. B4-411, Fort Collins, Co. 80524

(970) 494-1610 ext. 2 / (970) 494-1611 fax

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