

Complaint: 200113299

Date: 04/26/2007



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9.
PAGES, INCLUDING
COVER

Northeast Colorado Health Department
District Headquarters
700 Columbine Street
Sterling, Colorado 80751
970-522-3741
FAX 970-522-1412

FACSIMILE TRANSMITTAL SHEET

TO:

John
Oil & Gas Commission
COMPANY:

FROM:

Cynthia Kiser

DATE:

5/31/75

FAX NUMBER:

PHONE NUMBER

970-522-3741 ex 234

RE:

☐ URGENT☒ FOR REVIEW☐ PLEASE REPLY

CONFIDENTIALITY NOTICE: The information contained in this message is confidential information intended for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any release, dissemination, distribution, or copying of this communication is prohibited. If you have received this communication in error, please notify the author immediately by replying to this message and delete the original message. Thank you.

CORAL PRODUCTION CORP.**1600 STOUT STREET, SUITE 1500
DENVER, COLORADO 80202****Phone (303) 623-3573
Fax (303) 623-2870**

May 16, 2007

Mr. Melvin Nelson
P.O. Box 117
Peetz, CO 80747Re. Results of groundwater sampling at Nelson Farm well
NENE Section 6 T11N R52W, Logan County, CO

Dear Mr. Nelson:

In response to your phone call to our office in April, 2007 regarding concern for the potential impact of groundwater contamination resulting from Coral Production Corporation's (CPC) oil production operations, we have conducted field samplings of your well and the injection water from our lease. That sampling was performed on April 26, 2007 and information obtained from the sampling was reviewed along with an evaluation of our operations to determine if there was any connection.

CPC took over as operator of the adjacent oil lease in early 1999 and we have operated an injection well for produced water on the lease to this day. We have performed mechanical integrity tests on the injection well in accordance with state rules which is intended to verify that there are no leaks in the well casing. The most recent test conducted in May, 2006 under the supervision of the Colorado Oil & Gas Commission was successful. The depth that water is injected into the formation is 5265' or approximately one-mile below the ground. The location of the injection well is approximately ¼ mile to the southwest.

The groundwater analyses were selected to develop a profile of the water constituents in both the shallow aquifer and the produced water to determine if there is a connection. The following table summarizes our findings (laboratory results attached):

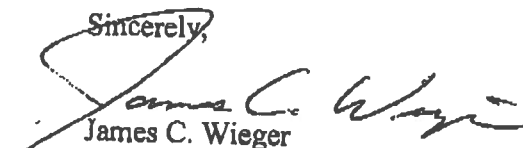
Constituent	Sample 1	Sample 2
Calcium	14.2	630
Magnesium	2.77	222
Potassium	13.9	33.7
Sodium	3280	178
Nitrate (N)	n/d	1.85
Sulfate	580	42.1
Chloride	3790	2070
Alkalinity	1810	264

The results of our sampling do not indicate any correlation between the produced water and the domestic groundwater source. This is determined by the comparison of the Calcium and Magnesium content and reviewing data obtained from Pease Oil & Gas files which were turned over to Coral at the time of our acquisition. Those records indicate that the Calcium and Magnesium levels have been increasing in the domestic water well, whereas the produced water has remained fairly constant.

While Coral Production Corp. sympathizes with your situation we do not see any connection between the oil operations and the declining groundwater quality. The Groundwater Atlas of Colorado states that the water quality in the High Plains Aquifer has declined significantly since the early 1900's and may be the result of agricultural irrigation recharge and evaporative concentration of dissolved solids (Chapter 6.9, pg 4). It appears that this may be the cause.

If you have any questions, feel free to contact me at (303) 623-3573 extension 101.

Sincerely,



James C. Wiegner
Geologist/ Environmental Coordinator

Evergreen Analytical, Inc.4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021Client Sample ID: SWD *Disposal Well*
Client Project ID: Schwake Lease
Date Collected: 4/26/07
Date Received: 4/26/07Lab Work Order: 07-2565
Lab Sample ID: 07-2565-01
Sample Matrix: Groundwater**DISSOLVED METALS**

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 5/3/07

Lab File ID: 050307PM

Dilution Factor: 1

Date Analyzed: 5/4/07

Method Blank: MB-12458

Lab Fraction ID: 07-2565-01C

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	14.2	0.387	mg/L
Magnesium	7439-95-4	2.77	0.150	mg/L
Potassium	7440-09-7	13.9	0.340	mg/L
Sodium	7440-23-5	3280	0.400	mg/L

MB
Analyst*UW*
Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
E - Extrapolated value. Value exceeds calibration range
H - Sample analysis exceeded analytical holding time
J - Indicates an estimated value when the compound is detected, but is below the LQL
S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 5/8/07

Evergreen Analytical, Inc.
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: SWD
Client Project ID: Schwake Lease
Date Collected: 4/26/07 1140
Date Received: 4/26/07

Lab Work Order 07-2563
Lab Sample ID: 07-2565-01
Sample Matrix: Groundwater

Method: E300.0**ANIONS BY IC****Prep Method:**

Date Prepared: 4/27/07				Dilution Factor: 20	
Date Analyzed: 4/27/07 1112		Method Blank: METHOD BLANK		Lab Fraction ID: 07-2565-01A	
Analytes	CAS Number	Result		LQL	Units
Nitrate-N		U		1.1	mg/L
Sulfate	7778-80-2	580		5.0	mg/L

Date Prepared: 4/27/07				Dilution Factor: 200	
Date Analyzed: 4/27/07 1422		Method Blank: METHOD BLANK		Lab Fraction ID: 07-2565-01A	
Analytes	CAS Number	Result		LQL	Units
Chloride	7647-14-5	3790		50	mg/L



Analyst



Approved

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LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 4/30/07

Evergreen Analytical, Inc.4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: SWD

Client Project ID: Schwake Lease

Date Collected: 4/26/07

Date Received: 4/26/07

Lab Work Order 07-2565

Lab Sample ID: 07-2565-01

Sample Matrix: Groundwater

Method: SM2320B

ALKALINITY

Prep Method:

Date Prepared: 5/8/07

Date Analyzed: 5/8/07

Lab File ID: 3

Method Blank: MBLK

Dilution Factor: 1

Lab Fraction ID: 07-2565-01B

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		1810	5.0	mg/L CaCO ₃
Bicarbonate		1810	5.0	mg/L CaCO ₃
Carbonate		U	5.0	mg/L CaCO ₃


Analyst
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S - Spike Recovery outside accepted limits
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LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 5/8/2007

012

Evergreen Analytical, Inc.
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: Nelson
Client Project ID: Schwake Lease
Date Collected: 4/26/07
Date Received: 4/26/07

Lab Work Order: 07-2565
Lab Sample ID: 07-2565-03
Sample Matrix: Groundwater

Method: E200.7, Rev. 4.4

DISSOLVED METALS

Prep Method: E200.7/SW3010A

Date Prepared: 5/3/07

Lab File ID: 050307PM

Dilution Factor: 1

Date Analyzed: 5/4/07

Method Blank: MB-12458

Lab Fraction ID: 07-2565-03C

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	630	0.387	mg/L
Magnesium	7439-95-4	222	0.150	mg/L
Potassium	7440-09-7	33.7	0.340	mg/L
Sodium	7440-23-5	178	0.400	mg/L


Analyst


Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
E - Extrapolated value. Value exceeds calibration range
H - Sample analysis exceeded analytical holding time
I - Indicates an estimated value when the compound is detected, but is below the LQL
S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
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Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 5/8/07

Evergreen Analytical, Inc.
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
 (303) 425-6021

Client Sample ID: Nelson
 Client Project ID: Schwake Lease
 Date Collected: 4/26/07 1215
 Date Received: 4/26/07

Lab Work Order 07-2565
 Lab Sample ID: 07-2565-03
 Sample Matrix: Groundwater

Method: E300.0

ANIONS BY IC

Prep Method:

Date Prepared: 4/27/07

Date Analyzed: 4/27/07 1150

Method Blank: METHOD BLANK

Dilution Factor: 5

Lab Fraction ID: 07-2565-03A

Analytes	CAS Number	Result	LQL	Units
Nitrate-N		1.85	0.28	mg/L
Sulfate	7778-80-2	42.1	1.3	mg/L

Date Prepared: 4/27/07

Date Analyzed: 4/27/07 1348

Method Blank: METHOD BLANK

Dilution Factor: 250

Lab Fraction ID: 07-2565-03A

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	2070	63	mg/L


Analyst

Approved

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 J - Indicates an estimated value when the compound is detected, but is below the LQL
 S - Spike Recovery outside accepted limits
 U - Compound analyzed for but not detected
 X - See case narrative
 * - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable
 LQL - Lower Quantitation Limit
 Surr - Surrogate

Print Date: 4/30/07

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021Client Sample ID: Nelson
Client Project ID: Schwake Lease
Date Collected: 4/26/07
Date Received: 4/26/07Lab Work Order 07-2565
Lab Sample ID: 07-2565-03
Sample Matrix: Groundwater

Method: SM2320B

ALKALINITY

Prep Method:

Date Prepared: 5/1/07

Lab File ID: 22

Dilution Factor: 1

Date Analyzed: 5/1/07

Method Blank: MBLK

Lab Fraction ID: 07-2565-03B

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		264	5.0	mg/L CaCO3
Bicarbonate		264	5.0	mg/L CaCO3
Carbonate		U	5.0	mg/L CaCO3


Analyst
Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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J - Indicates an estimated value when the compound is detected, but is below the LQL
S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 5/8/2007