

1R - 350

GENERAL CORRESPONDENCE

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Analytical and Quality Control Report

IR-350

Donna Williams
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Report Date: 1/28/00

Project Number: N/A
Project Name: Tom Holmes
Project Location: House & Well

Order ID Number: A00012214

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
139263	1235012100	Water	1/21/00	10:35	1/22/00
139264	1310012100	Water	1/21/00	13:10	1/22/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Cation-Anion Balance Sheet

Sample #

139263

Date:

1/31/00

Cations

ppm

meq/L

Calcium

5.5

0.27445

Magnesium

2.6

0.213954

Sodium

180

7.83

Potassium

2.6

0.066508

Total Cations

8.38491 in meq/L

Anions

ppm

meq/L

Alkalinity

266

5.32

Sulfate

140

2.9148

Chloride

29

0.81809

Nitrate as N

0

0

Fluoride

1.9

0.100016

Total Anions

9.15291 in meq/L

Percentage Error

8.75815 %

(needs to be <10%)

OTHER INFORMATION

TDS

EC

Measure EC and Cation Sums

838.4912

Range should be:

#VALUE!

to

#VALUE!

Measure EC and Anion Sums

915.2906

Range should be:

#VALUE!

to

#VALUE!

Calculated TDS/Conductivity

#VALUE!

Range should be:

0.55

to

0.77

Measure TDS and Cation Sums

#VALUE!

Range should be:

0.55

to

0.77

Measure TDS and Anion Sums

#VALUE!

Range should be:

0.55

to

0.77

Analytical Results Report

Sample Number: 139263

Description: 1235012100

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Alkalinity (mg/L as CaCO ₃)									
Hydroxide Alkalinity	<1.0	1	E 310.1	1/24/00	1/24/00	MD	PB00414	QC00545	1
Carbonate Alkalinity	40	1	E 310.1	1/24/00	1/24/00	MD	PB00414	QC00545	1
Bicarbonate Alkalinity	226	1	E 310.1	1/24/00	1/24/00	MD	PB00414	QC00545	1
Total Alkalinity	266	1	E 310.1	1/24/00	1/24/00	MD	PB00414	QC00545	1
BTEX (mg/L)									
Benzene	<0.005	5	S 8021B	1/24/00	1/24/00	RC	PB00406	QC00536	0.001
Toluene	<0.005	5	S 8021B	1/24/00	1/24/00	RC	PB00406	QC00536	0.001
Ethylbenzene	<0.005	5	S 8021B	1/24/00	1/24/00	RC	PB00406	QC00536	0.001
M,P,O-Xylene	<0.005	5	S 8021B	1/24/00	1/24/00	RC	PB00406	QC00536	0.001
Total BTEX	<0.005	5	S 8021B	1/24/00	1/24/00	RC	PB00406	QC00536	0.001
Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
TFT	0.508	1	0.1	102	72 - 128	RC	PB00406	QC00536	
4-BFB	0.534	1	0.1	107	72 - 128	RC	PB00406	QC00536	
Conductivity (uMHOS/cm)									
Specific Conductance	920	1	SM 2510B	1/25/00	1/25/00	JS	PB00425	QC00553	
Dissolved Metals (mg/L)									
Dissolved Calcium	5.5	1	E 200.7	1/27/00	1/27/00	RR	PB00468	QC00610	0.5
Dissolved Magnesium	2.6	1	E 200.7	1/27/00	1/27/00	RR	PB00468	QC00610	0.5
Dissolved Potassium	2.6	1	E 200.7	1/27/00	1/27/00	RR	PB00468	QC00610	0.5
Dissolved Sodium	180	1	E 200.7	1/27/00	1/27/00	RR	PB00468	QC00610	0.5
Ion Chromatography (IC) (mg/L)									
CL	* 29	1	E 300.0	1/21/00	1/22/00	JS	PB00383	QC00509	0.5
Fluoride	1.9	1	E 300.0	1/21/00	1/22/00	JS	PB00383	QC00509	0.1
Nitrate-N	<1.0	1	E 300.0	1/21/00	1/22/00	JS	PB00383	QC00509	0.2
Sulfate	140	1	E 300.0	1/21/00	1/22/00	JS	PB00383	QC00509	0.5
* CL - Chloride re-ran on IC012400.sch (PB00412; QC00539). ICV %IA = 92; CCV %IA = 91; matrix spikes RPD = 0; matrix spikes %EA = 98.									
pH (s.u.)									
pH	8.6	1	E 150.1	1/22/00	1/22/00	JS	PB00408	QC00530	1
TDS (mg/L)									
Total Dissolved Solids	560	1	E 160.1	1/25/00	1/26/00	MD	PB00432	QC00562	10
TPH DRO (mg/L)									
DRO	7	0.1	Mod. 8015B	1/24/00	1/25/00	MA	PB00399	QC00528	50
TPH GRO (mg/L)									
GRO	<0.1	1	8015B	1/24/00	1/24/00	RC	PB00407	QC00537	0.1

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N/A

Tom Holmes

House & Well

Sample Number: 139264

Description: 1310012100

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Ion Chromatography (IC) (mg/L)									
CL	1500	1	E 300.0	1/24/00	1/24/00	JS	PB00412	QC00539	0.5

Quality Control Report Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	1/24/00	PB00414	QC00545
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	1/24/00	PB00414	QC00545
Bicarbonate Alkalinity (mg/L as CaCo3)		<1.0	1	1/24/00	PB00414	QC00545
Total Alkalinity (mg/L as CaCo3)		<1.0	1	1/24/00	PB00414	QC00545

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Benzene (mg/L)		<0.001	0.001	1/24/00	PB00406	QC00536
Toluene (mg/L)		<0.001	0.001	1/24/00	PB00406	QC00536
Ethylbenzene (mg/L)		<0.001	0.001	1/24/00	PB00406	QC00536
M,P,O-Xylene (mg/L)		<0.001	0.001	1/24/00	PB00406	QC00536
Total BTEX (mg/L)		<0.001	0.001	1/24/00	PB00406	QC00536
Surrogate		Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
TFT (mg/L)		0.082	0.1	82	72 - 128	QC00536
4-BFB (mg/L)		0.078	0.1	78	72 - 128	QC00536

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (uMHOS/cm)		8.5		1/25/00	PB00425	QC00553

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Dissolved Calcium (mg/L)		<0.50	0.5	1/27/00	PB00468	QC00610
Dissolved Magnesium (mg/L)		<0.50	0.5	1/27/00	PB00468	QC00610
Dissolved Potassium (mg/L)		<0.50	0.5	1/27/00	PB00468	QC00610
Dissolved Sodium (mg/L)		<0.50	0.5	1/27/00	PB00468	QC00610

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
CL (mg/L)		<0.5	0.5	1/22/00	PB00383	QC00509
Fluoride (mg/L)		<0.1	0.1	1/22/00	PB00383	QC00509
Nitrate-N (mg/L)		<0.2	0.2	1/22/00	PB00383	QC00509
Sulfate (mg/L)		<0.5	0.5	1/22/00	PB00383	QC00509
CL (mg/L)		<0.5	0.5	1/24/00	PB00412	QC00539

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	1/26/00	PB00432	QC00562

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Tom Holmes

House & Well

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
DRO (mg/L)		<5	50	1/25/00	PB00399	QC00528

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
GRO (mg/L)		<0.1	0.1	1/24/00	PB00407	QC00537

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Fluoride (mg/L)	11	1	125	133.74	98		80 - 120	0 - 20	QC00509
MS	Nitrate-N (mg/L)	29	1	250	250.15	88		80 - 120	0 - 20	QC00509
MS	Sulfate (mg/L)	1200	1	625	1777.00	92		80 - 120	0 - 20	QC00509
MSD	Fluoride (mg/L)	11	1	125	128.63	94	4	80 - 120	0 - 20	QC00509
MSD	Nitrate-N (mg/L)	29	1	250	249.73	88	0	80 - 120	0 - 20	QC00509
MSD	Sulfate (mg/L)	1200	1	625	1776.54	92	0	80 - 120	0 - 20	QC00509

Standard	Param		Sample Result	Dil.	Spike	Matrix	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
					Amount Added	Spike Result					
MS	CL (mg/L)	*	1500	1	1250	2673.62	94		80 - 120	0 - 20	QC00539
* CL - I spiked the *100 dilution, but reported the *50 dilution. The correct %EA = 98.											
MSD	CL (mg/L)	*	1500	1	1250	2666.94	93	1	80 - 120	0 - 20	QC00539
* CL - I spiked the *100 dilution, but reported the *50 dilution. The correct %EA = 98.											

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Dissolved Calcium (mg/L)	10.5	1	1000	1028	102		75 - 125	0 - 20	QC00610
MS	Dissolved Magnesium (mg/L)	11.6	1	1000	1024	101		75 - 125	0 - 20	QC00610
MS	Dissolved Potassium (mg/L)	10.3	1	1000	997	99		75 - 125	0 - 20	QC00610
MS	Dissolved Sodium (mg/L)	6.9	1	1000	1033	103		75 - 125	0 - 20	QC00610
MSD	Dissolved Calcium (mg/L)	10.5	1	1000	974	96	2	75 - 125	0 - 20	QC00610
MSD	Dissolved Magnesium (mg/L)	11.6	1	1000	966	95	2	75 - 125	0 - 20	QC00610
MSD	Dissolved Potassium (mg/L)	10.3	1	1000	964	95	3	75 - 125	0 - 20	QC00610
MSD	Dissolved Sodium (mg/L)	6.9	1	1000	970	96	3	75 - 125	0 - 20	QC00610

Quality Control Report Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		< 1	<1.0	1	0	0 - 20	QC00545
Duplicate	Carbonate Alkalinity (mg/L as CaCo		< 1	<1.0	1	0	0 - 20	QC00545
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		500	502	1	0	0 - 20	QC00545
Duplicate	Total Alkalinity (mg/L as CaCo3)		500	502	1	0	0 - 20	QC00545

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Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cm)		839	840	1	0	0 - 20	QC00553

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		8.7	8.6	1	1	0 - 20	QC00530

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		< 10	<10	1	0	0 - 20	QC00562

Quality Control Report

Lab Control Spikes and Duplicate Spike

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS MTBE (mg/L)	<0.001	1	0.1	0.099	99		80 - 120	0 - 20	QC00536
LCS Benzene (mg/L)	<0.001	1	0.1	0.097	97		80 - 120	0 - 20	QC00536
LCS Toluene (mg/L)	<0.001	1	0.1	0.102	102		80 - 120	0 - 20	QC00536
LCS Ethylbenzene (mg/L)	<0.001	1	0.1	0.103	103		80 - 120	0 - 20	QC00536
LCS M,P,O-Xylene (mg/L)	<0.001	1	0.3	0.301	100		80 - 120	0 - 20	QC00536
Standard Surrogate		Dil.	Spike Amount	Matrix Result	% Rec.		% Rec. Limit		QC Batch #
LCS TFT (mg/L)		1	0.1	0.109	109		72 - 128		QC00536
LCS 4-BFB (mg/L)		1	0.1	0.115	115		72 - 128		QC00536
LCSD MTBE (mg/L)	<0.001	1	0.1	0.098	98	1	80 - 120	0 - 20	QC00536
LCSD Benzene (mg/L)	<0.001	1	0.1	0.087	87	11	80 - 120	0 - 20	QC00536
LCSD Toluene (mg/L)	<0.001	1	0.1	0.091	91	11	80 - 120	0 - 20	QC00536
LCSD Ethylbenzene (mg/L)	<0.001	1	0.1	0.092	92	11	80 - 120	0 - 20	QC00536
LCSD M,P,O-Xylene (mg/L)	<0.001	1	0.3	0.27	90	11	80 - 120	0 - 20	QC00536
Standard Surrogate		Dil.	Spike Amount	Matrix Result	% Rec.		% Rec. Limit		QC Batch #
LCSD TFT (mg/L)		1	0.1	0.089	89		72 - 128		QC00536
LCSD 4-BFB (mg/L)		1	0.1	0.094	94		72 - 128		QC00536

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Dissolved Calcium (mg/L)	<0.50	1	1000	1025	102		75 - 125	0 - 20	QC00610
LCS Dissolved Magnesium (mg/L)	<0.50	1	1000	1044	104		75 - 125	0 - 20	QC00610
LCS Dissolved Potassium (mg/L)	<0.50	1	1000	998	100		75 - 125	0 - 20	QC00610
LCS Dissolved Sodium (mg/L)	<0.50	1	1000	1037	104		75 - 125	0 - 20	QC00610
LCSD Dissolved Calcium (mg/L)	<0.50	1	1000	1022	102	0	75 - 125	0 - 20	QC00610
LCSD Dissolved Magnesium (mg/L)	<0.50	1	1000	1013	101	3	75 - 125	0 - 20	QC00610
LCSD Dissolved Potassium (mg/L)	<0.50	1	1000	1009	101	1	75 - 125	0 - 20	QC00610
LCSD Dissolved Sodium (mg/L)	<0.50	1	1000	1016	102	2	75 - 125	0 - 20	QC00610

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS DRO (mg/L)	<5	1	25	< 50	100		70 - 130	0 - 20	QC00528
LCSD DRO (mg/L)	<5	1	25	< 50	112	11	70 - 130	0 - 20	QC00528

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Param			Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	GRO	(mg/L)	<0.1	1	1	1.02	102		80 - 120	0 - 20	QC00537
LCSD	GRO	(mg/L)	<0.1	1	1	0.974	97	5	80 - 120	0 - 20	QC00537

Quality Control Report

Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	0	0	80 - 120	1/24/00	QC00545
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2080	0	80 - 120	1/24/00	QC00545
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)		0	40	0	80 - 120	1/24/00	QC00545
ICV	Total Alkalinity (mg/L as CaCo3)		2400	2120	88	80 - 120	1/24/00	QC00545
CCV 1	Hydroxide Alkalinity (mg/L as CaCo3)		0	0	0	80 - 120	1/24/00	QC00545
CCV 1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	1/24/00	QC00545
CCV 1	Bicarbonate Alkalinity (mg/L as CaCo3)		0	140	0	80 - 120	1/24/00	QC00545
CCV 1	Total Alkalinity (mg/L as CaCo3)		2400	2140	89	80 - 120	1/24/00	QC00545

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Benzene (mg/L)		0.1	0.092	92	80 - 120	1/24/00	QC00536
ICV	Toluene (mg/L)		0.1	0.096	96	80 - 120	1/24/00	QC00536
ICV	Ethylbenzene (mg/L)		0.1	0.096	96	80 - 120	1/24/00	QC00536
ICV	M,P,O-Xylene (mg/L)		0.3	0.282	94	80 - 120	1/24/00	QC00536
CCV 1	Benzene (mg/L)		0.1	0.091	91	80 - 120	1/24/00	QC00536
CCV 1	Toluene (mg/L)		0.1	0.093	93	80 - 120	1/24/00	QC00536
CCV 1	Ethylbenzene (mg/L)		0.1	0.093	93	80 - 120	1/24/00	QC00536
CCV 1	M,P,O-Xylene (mg/L)		0.3	0.272	91	80 - 120	1/24/00	QC00536

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Specific Conductance (uMHOS/cm)		1413	1336	95	80 - 120	1/25/00	QC00553
CCV 1	Specific Conductance (uMHOS/cm)		1413	1346	95	80 - 120	1/25/00	QC00553

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Dissolved Calcium (mg/L)		20	21	105	75 - 125	1/27/00	QC00610
ICV	Dissolved Magnesium (mg/L)		20	21	105	75 - 125	1/27/00	QC00610
ICV	Dissolved Potassium (mg/L)		20	20.5	102	75 - 125	1/27/00	QC00610
ICV	Dissolved Sodium (mg/L)		20	21	105	75 - 125	1/27/00	QC00610
CCV 1	Dissolved Calcium (mg/L)		20	20	100	75 - 125	1/27/00	QC00610
CCV 1	Dissolved Magnesium (mg/L)		20	20	100	75 - 125	1/27/00	QC00610
CCV 1	Dissolved Potassium (mg/L)		20	19.5	98	75 - 125	1/27/00	QC00610
CCV 1	Dissolved Sodium (mg/L)		20	19	95	75 - 125	1/27/00	QC00610

Quality Control Report

Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.23	90	80 - 120	1/22/00	QC00509
ICV	Fluoride (mg/L)		2.5	2.44	98	80 - 120	1/22/00	QC00509
ICV	Nitrate-N (mg/L)		5	4.58	92	80 - 120	1/22/00	QC00509
ICV	Sulfate (mg/L)		12.5	11.79	94	80 - 120	1/22/00	QC00509
CCV 1	CL (mg/L)		12.5	11.35	91	80 - 120	1/22/00	QC00509
CCV 1	Fluoride (mg/L)		2.5	2.38	95	80 - 120	1/22/00	QC00509
CCV 1	Nitrate-N (mg/L)		5	4.63	93	80 - 120	1/22/00	QC00509
CCV 1	Sulfate (mg/L)		12.5	11.95	96	80 - 120	1/22/00	QC00509

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.44	92	80 - 120	1/24/00	QC00539
CCV 1	CL (mg/L)		12.5	11.39	91	80 - 120	1/24/00	QC00539

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	pH (s.u.)		7	7.0	100	80 - 120	1/22/00	QC00530

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mg/L)		1000	930	93	80 - 120	1/26/00	QC00562
CCV 1	Total Dissolved Solids (mg/L)		1000	1078	108	80 - 120	1/26/00	QC00562

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	DRO (mg/L)		250	198	79	70 - 130	1/25/00	QC00528
CCV 1	DRO (mg/L)		250	224	90	70 - 130	1/25/00	QC00528
CCV 2	DRO (mg/L)		250	199	80	70 - 130	1/25/00	QC00528

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	GRO (mg/L)		1	1.01	101	80 - 120	1/24/00	QC00537
CCV 1	GRO (mg/L)		1	0.999	100	80 - 120	1/24/00	QC00537

