EARTHCON®

*Environmental Challenges*
***BUSINESS SOLUTIONS®***

## Groundwater Sampling Record

| WELL No. | OWNER | ADDRESS | DATE |
|---|---|---|---|
| WW #7 | Jeff W. Merryman | 317 S. Ridge Oak Ct. | 2/18/13 |

| | |
|---|---|
| SAMPLE ID: WW07 – MER- 021813 | SAMPLER NAME: JB/RM SH |
| SAMPLE TIME: 0838 | FIELD CONDITIONS/WEATHER: Overcast 55° S @ 15-20 |

**Well/ Sample Condition (circle one)**

| | | |
|---|---|---|
| Pump operating | yes | no |
| Owner Present | yes | no |
| Sampled Water Treated | yes | no |

**Well Purging**

Pumping rate 5 gallons/minute

Volume pumped _____ gallons

Clarity _____ Other observations

| TIME 24:00 hr | CUMULATIVE VOLUME (gal) | Temp °C | pH S.U. | Conductivity mS/cm) | DO (mg/L) | ORP (mV) | Turbidity (NTU) | ODOR/COLOR/ REMARKS |
|---|---|---|---|---|---|---|---|---|
| 0820 | 0 | | | | | | | PURGE START |
| 0823 | 1.0 | 17.71 | 8.43 | 1.65 | 3.16 | -244 | 50.0 | |
| 0826 | 2.0 | 17.68 | 8.40 | 1.61 | 2.13 | -252 | 159 | air bubbles |
| 0829 | 3.0 | 18.01 | 8.39 | 1.59 | 1.94 | -255 | 37.8 | air bubbles |
| 0832 | 4.0 | 18.05 | 8.39 | 1.58 | 1.87 | -257 | 36.5 | |
| 0835 | 5.0 | 18.04 | 8.39 | 1.58 | 1.79 | -257 | 45.4 | air bubbles |

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**Well ID:** WW #7
**Owner:** Jeff W. Merryman
**Address:** 317 S. Ridge Oak Ct.
**Date:**

LEL – lower explosive level
LFL – lower flammable level
NIOSH – National Institute for Occupational Safety and Health
O2 – oxygen
OSHA – Occupational Safety and Health Administration
ppm – parts per million
REL – recommended exposure limit
TWA – time-weighted average
TLV – time-limited value
UEL – upper explosive level
UFL – upper flammable level

| | LEL (Calibrated for Methane) % | $O_2$ % | $H_2S$ ppm | CO ppm | Time of Reading |
|---|---|---|---|---|---|
| | Alarm Level | Alarm Level | Alarm Level | Alarm Level | |
| | 10 % LEL | 19.50% | 10 ppm | 35 ppm | |
| | UEL/UFL | OSHA $O_2$ Enriched | NIOSH REL-TWA | NIOSH REL-TWA | |
| | 15% | 22% | 10 ppm/10 min | 35 ppm | |
| | LEL/LFL | OSHA $O_2$ Deficient | OSHA PEL-TWA | OSHA PEL-TWA | |
| | 5% | 19.50% | 10 ppm | 50 ppm | |
| **Location & Coordinates** | **#** | Value % LEL | Value % | Value ppm | Value ppm | Time 24:00 hr |
| **Background** | 1 | 0 | 20.9 | 0 | 0 | 0757 |
| | 2 | 0 | 20.9 | 0 | 0 | 0802 |
| | 3 | 0 | 20.9 | 0 | 0 | 0807 |
| | 4 | 0 | 20.9 | 0 | 0 | 0812 |
| **Well Head** | 1 | 0 | 20.9 | 0 | 0 | 0757 |
| | 2 | 0 | 20.9 | 0 | 0 | 0802 |
| | 3 | 0 | 20.9 | 0 | 0 | 0807 |
| | 4 | 0 | 20.9 | 0 | 0 | 0812 |
| **Sampling Location** | 1 | 0 | 20.9 | 0 | 0 | 0757 |
| | 2 | 0 | 20.9 | 0 | 0 | 0802 |
| | 3 | 0 | 20.9 | 0 | 0 | 0807 |
| | 4 | 0 | 20.9 | 0 | 0 | 0812 |

**CONFIDENTIAL / ATTORNEY WORK PRODUCT**

**DATE:** 2/15/13

**WELL #** WW 7

**NOTES TAKEN BY:**

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onsite 0745
Start pursing 0747
Parameters 0820
Sampled 0838

# CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST Laboratories

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

| FED-EX Tracking # | Bottle Order Control # |
|---|---|
| Accutest Quote # | Accutest Job # |

**Client / Reporting Information**

Company Name: EarthCon Consultants, Inc.
Street Address: 4800 Sugar Grove Blvd., Suite 390
City: Stafford State: TX Zip: 77477
Project Contact: Gabriela Floreslovo E-mail:
Phone #: 281-201-3513 Fax #:
Sampler(s) Name(s): RM/SH/JB Phone #:

**Project Information**

Project Name: Fourth Quarterly Well Sampling, Parker County, Texas
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

**Billing Information ( if different from Report to)**

Company Name:
Street Address:
City: State: Zip:
Attention:

**Requested Analyses**

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

| Accutest Sample # | Field ID / Point of Collection | Collection: Date | Time | Sampled By | Matrix | # of bottles | HCl | NaOH | ZA/NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | TSP | NaHSO4 | ENCORE | OTHER | BTEX 8260B | Butane, Ethane, Ethene, Isobutane, Methane, Propane by RSK-175 | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW07-MER-022813 | 2/28/13 | 0838 | RM | DW | 6 | ✓ | | | | | | | | | | | | X | X | |

**Turnaround Time ( Business days)**

- [X] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

**Data Deliverable Information**

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" ( Level 2)
- [ ] FULT1 ( Level 3+4 )
- [ ] REDT1 ( Level 3+4 )
- [ ] Commercial "C"
- [X] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

**Comments / Special Instructions**

Packed in (2) Coolers

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 | 2-28-13 1100 | 1 | 2 | | 2 |
| Relinquished by Sampler: 3 | Date Time: | Received By: 3 | Relinquished By: 4 | Date Time: | Received By: 4 |
| Relinquished by: 5 | Date Time: | Received By: 5 | Custody Seal # | [ ] Intact [ ] Not intact | Preserved where applicable [ ] |

On Ice [ ] Cooler Temp.

ISOTECH

**Send Data and Invoice to**

Name: Alan Koranckl

Company: Weatherford Laboratories

Address: 5200 N San Houston Parkway Suite 500 Houston TX 77086

Phone: 832-515-5137

Fax:

Email: alan.koranck@weatherfordlabs.com

Project: Fourth Quarter Well Sampling

Location: Parker County Texas

Sampled by: JB/SH/RM

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

## Sample Description

| Container Number | Sample Identification | Date Sampled | Analyses Requested: molecular comp of HC gases and Nonetic gases | C1 Isotopic Comp of Methane, ethane, propane | Dystopic Comp of Methane CO2 | Isotopic comp N2 | Comments |
|---|---|---|---|---|---|---|---|
| | WW07-MER-021813 | 2/18/13 | X | X | X | | |
| | | | | | | | |
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| | | | | | | | |

## Chain-of-Custody Record

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Earthcon | 2-19-13 | 1100 |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |