# The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Location ID | SM7 | Sample Date: | 1/10/12 | Sampling Company: | TREC | Sampled By 1: | TN |
| | | | | | | Sampled By 2 | WC |
| Sample Event | Q3-2012 | | | | | Sampled By 3: | |

## Well Information:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Well Total Depth (TD) | 75 | ft | | | Well Measuring Point (MP) Location: | | North Side-Marked | | |
| Sampled From: | Monitoring Well | | Well Inside Diameter: | 4.5 | inches | Pump Type Used: | Hand bail | | |
| Screened Interval: | 55 | Feet to | 75 | Feet | | Pump Intake Depth: | n/a | ft | Tubing Type: n/a |

## Well Fluid Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time (military): | 945 | Weather: | Air Temp | 36 | (°F) | Conditions: | Sunny, very windy |

| | | |
|---|---|---|
| Water level gauged using: | Electronic tape | ft |
| Depth to Water (DTW) below MP: | 65.38 | ft |
| Water Column Height (TD-DTW): | 9.62 | ft |
| Water volume = $pr^2h$ (cf) | 7.95 | gallons |
| 3 Well Volumes: | 23.84 | gallons |

Well volume (in gal / LF) = pr2 (cf) where: p = pi (approximately 3.14); r = radius of monitoring well (feet)
cf = conversion factor (7.48 gal/ft3);

| Well ID (in) | 2 | 3 | 4 | 4.5 | 5 |
|---|---|---|---|---|---|
| Water Volume (gal/LF) | 0.163188147 | 0.367173331 | 0.652752589 | 0.826139995 | 1.01992592 |

## Purging:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Purge Date | n/a | Purge Time Begin | n/a | Low Flow Pump Controller Settings: | | Charge Time | n/a | Exhaust Time | n/a |
| Purge Pump Type: | Hand bail | Pumping Rate: | n/a | ml/min | Meter Type(1): | YSI Multi | Meter Calibration Date: | 12/19/11 | |
| Volume Purged Prior to Sampling: | 0 | gallons | | | Meter Type(2): | Hach Turbidity | Meter Calibration Date: | 12/19/11 | |
| | Direct sample; | no purge; | | | Meter Type(3): | | Meter Calibration Date: | | |

## Field Stabilization Measurements:

| Sample ID | Purge Date | Time (min.) | Purge Rate (ml/min) | Purge Rate (gal/min) | Temp (°C) | Conductivity (µmhos/cm) | DO (mg/L) | pH (su) | ORP (mV) | Turbidity (NTU) | Water Level (ft) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SM7-003-120110 | | 1000 | | | 10.15 | 2911 | 3.28 | 7.32 | -65.4 | Maxed out | 68.32 | Final water level |
| | | | | Hand bailed - Only parameters taken | | | | | | | | |
| Repeat Last Stabilization Meas. | | | | | | | | | | | | |

## Sampling:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample Date | 1/10/2012 | Sample Collection Time (MT): | 10:15 | | | | |
| Sample Pump Type: | | | | Meter Type(1): | YSI Multi | Meter 1 Calibration Date: | 12/19/11 |
| | | | | Meter Type(2): | Hach Turbidity | Meter 2 Calibration Date: | 12/19/11 |
| | | | | Meter Type(3): | | Meter 3 Calibration Date: | |

## Analysis:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| QA/QC Sample | No | QA/QC Type | None | COC#1: | RC08164 | Lab 1 | IML |
| Duplicate Name | | Duplicate Sample Time | | COC#2: | | Lab 2 | |
| | | | | COC#3: | | Lab 3 | |
| Analysis: | Table 1- 4.14, Guide 8, & Radon 222 | | | | | | |

Comments:

Hand bailed due to known low water volumn; little to no recharge

| Stablization Parameters | |
|---|---|
| Temp | = +/- 3% in celcius |
| pH | = +/- 0.1 unit |
| SC | = +/- 3% in µmhos/cm |
| ORP/Eh | = +/- 10 millivolts |
| DO | = +/- 10% in mg/L |
| Turbidity | = +/_10% for values > 5 |

## Range values for data entry

| Conductivity Range (µmhos/cm) | | Turbidity (NTU) | | Dissolve Oxygen (DO) (mg/L) | | Temperature Range (°C) | | Ox/Reduc Potential (mV) | |
|---|---|---|---|---|---|---|---|---|---|
| Min | 0 | Min | 0 | Min | 0.01 | Min | -20 | Min | -400 |
| Max | 2000 | Max | 1000 | Max | 2000 | Max | 80 | Max | 700 |