# The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

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|---|---|---|---|---|---|---|---|
| Location ID | PZM6 | Sample Date: | 11/3/10 | Sampling Company: | TREC | Sampled By 1: | TN |
| | | | | | | Sampled By 2 | JS2 |
| Sample Event | Q1-2010 | | | | | Sampled By 3: | RD |

## Well Information:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Well Total Depth (TD) | 359 | ft | | | Well Measuring Point (MP) Location: | | North Side-Marked | | |
| Sampled From: | Monitoring Well | | Well Inside Diameter: | 4.5 | inches | Pump Type Used: | Non-Dedicated Low Flow Bladder | | |
| Screened Interval: | 335 | Feet to | 355 | Feet | Pump Intake Depth: | 345 | ft | Tubing Type: | Non-dedicated Plastic |

## Well Fluid Measurements:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Time (military): | 1032 | | Weather: | Air Temp | 40 | (°F) | Conditions: | Sunny, Breezy | |
| Water level gauged using: | | Electronic tape | ft | | | | | | |
| Depth to Water (DTW) below MP: | | 196.42 | ft | | | | | | |
| Water Column Height (TD-DTW): | | 162.58 | ft | | | | | | |
| Water volume = $pr^2h$ (cf) | | 134.31 | gallons | | | | | | |
| 3 Well Volumes: | 402.94 | 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 | 11/3/10 | | Purge Time Begin | 1033 | | Low Flow Pump Controller Settings: | | Charge Time | 12 | Exhaust Time | 21 |
| Purge Pump Type: | Non-Dedicated Low Flow Bladder | | Pumping Rate: | 225 | ml/min | Meter Type(1): | YSI Multi | Meter Calibration Date: | | 10/19/10 | |
| Volume Purged Prior to Sampling: | 4 | gallons | | | | Meter Type(2): | Hach Turbidity | Meter Calibration Date: | | 11/3/10 | |
| | | | | | | 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 (mS/cm) | DO (mg/L) | pH (su) | ORP (mV) | Turbidity (NTU) | Water Level (ft) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PZM6 | 11/03/10 | 1042 | 225 | | 10.70 | 1.34 | 7.30 | 7.52 | -94.3 | 2.75 | 197.42 | |
| | | 1045 | 175 | | 10.49 | 1.33 | 3.50 | 7.59 | -118.5 | 1.74 | 197.48 | |
| | | 1048 | 200 | | 10.45 | 1.32 | 2.80 | 7.60 | -121.4 | 3.18 | 197.60 | |
| | | 1051 | 225 | | 10.46 | 1.31 | 2.8 | 7.62 | -127.1 | 2.51 | 197.68 | |
| | | 1054 | 200 | | 10.48 | 1.29 | 2.3 | 7.62 | -130.8 | 4.9 | 197.80 | |
| | | 1057 | 200 | | 10.74 | 1.29 | 3.2 | 7.61 | -131.4 | 3.11 | 197.91 | |
| | | 1100 | 200 | | 10.8 | 1.27 | 3.2 | 7.63 | -135.6 | 3.02 | 197.98 | |
| | | 1103 | 200 | | 10.83 | 1.26 | 2.3 | 7.65 | -140.5 | 4.47 | 198.04 | |
| | | 1106 | 175 | | 10.81 | 1.25 | 1.6 | 7.67 | -143.3 | 4.33 | 198.12 | |
| | | 1109 | 175 | | 10.97 | 1.24 | 1.4 | 7.63 | -144.4 | 4.87 | 198.03 | |
| | | 1112 | 175 | | 10.83 | 1.24 | 1.5 | 7.63 | -144.6 | 4.36 | 198.03 | |
| | | | | | | | | | | | | |
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| Repeat Last Stabilization Meas. | | | | | | | | | | | | |

## Sampling:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample Date | 11/3/2010 | Sample Collection Time (MT): | 1115 | | | | |
| Sample Pump Type: | Non-Dedicated Low Flow Bladder | | | Meter Type(1): | YSI Multi | Meter 1 Calibration Date: | 10/19/10 |
| | | | | Meter Type(2): | Hach Turbidity | Meter 2 Calibration Date: | 11/3/10 |
| | | | | Meter Type(3): | | Meter 3 Calibration Date: | |

## Analysis:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| QA/QC Sample | No | QA/QC Type | None | COC#1: | 005 | Lab 1 | IML |
| Duplicate Name | | Duplicate Sample Time | | COC#2: | 136288 | Lab 2 | ALS |
| | | | | COC#3: | | Lab 3 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis: | Table 1- 4.14, Guide 8, & Radon 222 | | | | | | |

Comments:

| 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 (mS/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 |