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January 28, 2015

Ms. Mindi Cross
Water Quality Compliance Section
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, Arizona 85007

Re: Groundwater Monitoring Report for the Fourth Quarter 2014
Mitigation Order on Consent No. P-121-07

Dear Ms. Cross:

Freeport-McMoRan Corporation, Copper Queen Branch herein submits one copy of the attached Groundwater Monitoring Report for monitoring activities conducted in the fourth quarter of 2014. The report was prepared by Clear Creek Associates, P.L.C for Task 2.2 of the Aquifer Characterization Plan described in the Work Plan1.

If you have any questions about this information please contact me at (520) 432-6206.

Sincerely,

William Hart
Sr. Environmental Scientist
Freeport Minerals Corporation

Enclosures

cc: Robert Quintanar/Freeport Minerals Corporation, Copper Queen Branch
    Sheila Deely/Freeport-McMoRan Copper and Gold
    Stuart Brown/Freeport-McMoRan Copper and Gold
    Lee Wilkening/Freeport-McMoRan Copper and Gold
    D. Mollenberg/Gallagher & Kennedy

FOURTH QUARTER 2014
GROUNDWATER MONITORING REPORT

TASKS 1.0 AND 2.2 OF AQUIFER CHARACTERIZATION PLAN
MITIGATION ORDER ON CONSENT DOCKET NO. P-121-07
COCHISE COUNTY, ARIZONA

Prepared for:

FREEPORT MINERALS CORPORATION
COPPER QUEEN BRANCH
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:

CLEAR CREEK ASSOCIATES, P.L.C.
221 North Court Avenue, Suite 101
Tucson, Arizona 85701

January 27, 2014
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[Signature]
James R. Norris
Arizona Registered Geologist No. 30842

January 27, 2014
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1. INTRODUCTION

This report provides the results of groundwater monitoring conducted by Freeport Minerals Corporation Copper Queen Branch (CQB) in the fourth quarter 2014 in the vicinity of the Concentrator Tailing Storage Area (CTSA). Groundwater monitoring is conducted pursuant to Tasks 1 (well inventory of drinking water wells) and 2.2 (groundwater monitoring) of the Work Plan (Hydro Geo Chem, Inc. [HGC], 2008) (and subsequent modifications) to characterize sulfate in the vicinity of the CTSA. The Work Plan was initially submitted to Arizona Department of Environmental Quality (ADEQ) on December 17, 2007 pursuant to the Mitigation Order on Consent Docket No. P-121-07 (ADEQ, 2007). CQB initiated water sampling prior to work plan approval while ADEQ was commenting on the Work Plan and CQB was responding to their comments. Revision 1 of the Work Plan was submitted to ADEQ on July 3, 2008 and ADEQ approved the Work Plan on August 3, 2008. On January 25, 2010 CQB proposed a revised groundwater monitoring program (CQB, 2010). The revised monitoring program was approved by ADEQ in April 2010 (ADEQ, 2010). Clear Creek Associates (Clear Creek) prepared this groundwater monitoring report on behalf of CQB.

1.1 Scope of Groundwater Monitoring

The objectives of groundwater monitoring are:

- Determination of the sulfate concentration in drinking water supply wells within a one-mile radius of the sulfate plume’s outer edge for the purposes of identifying the need for mitigation actions and tracking the plume margin,
- Identification of the plume margin for ongoing delineation of the plume extent and migration,
- Documentation of the sulfate concentration in the plume and at areas distal to the plume to monitor long-term concentration trends, and
- Measurement of water levels in the vicinity of the plume to document potentiometric conditions (CQB, 2010).
The groundwater sulfate plume consists of groundwater with sulfate in excess of 250 milligrams per liter (mg/L) attributable to the CTSA. The sample collection and analysis methods described in the Work Plan have been retained throughout the groundwater monitoring program. Table 1 provides the schedule for the groundwater monitoring program. Dissolved sulfate is the only constituent monitored.

Figure 1 presents a geologic map (Hayes and Landis, 1964) of the study area and well locations where data reported herein have been collected. The well locations are identified by name on Figure 2. Table 2 lists the sampling status of wells scheduled under the groundwater monitoring program for sampling in the fourth quarter 2014 and any additional wells where data were collected. The collection of groundwater samples was conducted by CQB and Clear Creek personnel. Groundwater sampling and analysis methods used by CQB and Clear Creek are described in the Quality Assurance Project Plan (QAPP) contained in Appendix F of the Work Plan (HGC, 2008). Results of groundwater monitoring are in Section 2.

The monitoring purpose listed on Table 2 was updated in the first quarter 2014 to reflect the current well usage. Current well usage was based on an updated well inventory submitted to ADEQ in June 2014 (Clear Creek, 2014). Drinking water supply wells are monitored under the Well Inventory task (Task 1.1) of the Mitigation Order Work Plan. All other wells are monitored to determine hydrologic conditions and the plume extent pursuant to the groundwater monitoring task (Task 2.2) of the Work Plan.
2. GROUNDWATER MONITORING RESULTS

2.1 Results of Monitoring

Analytical results and groundwater elevation data for the fourth quarter 2014 are tabulated in Tables 3 and 4, respectively, along with the results of previous monitoring under the Mitigation Order. Figure 3 shows the concentrations of dissolved sulfate in the well water samples. The highest sulfate concentration measured at co-located wells was used for concentration contouring. Figure 4 shows groundwater elevations in the fourth quarter 2014. Groundwater elevations were calculated using depth to water measurements made under static (non-pumping) conditions whenever possible. The most recent measuring point elevation data for each well was used to calculate groundwater elevations in Table 4. At wells with multiple samples or water levels during the fourth quarter 2014, the most recent data are shown on the figures.

2.2 Quality Assurance/Quality Control Review

Pursuant to Section 6.4 of the QAPP, a data verification report was prepared for quality assurance and quality control purposes. The data verification report, analytical laboratory reports, and groundwater sampling forms for samples collected by Clear Creek and CQB during the fourth quarter 2014 are included in Appendices A, B, and C, respectively. As determined by the data verification review, the analytical results for samples collected in the fourth quarter 2014 are of acceptable quality for use in activities conducted pursuant to the Mitigation Order.
3. FINDINGS

In the fourth quarter of 2014, groundwater samples were collected from 53 wells and depth to water measurements were collected in 49 wells. The December 2010 Aquifer Characterization Report (Clear Creek, 2010) provides detailed descriptions of the hydrogeology, water quality, and sulfate plume. Findings based on the fourth quarter 2014 and historical groundwater monitoring are described below.

- Sulfate concentration data indicate that the plume extends from the vicinity of the former evaporation pond (Figure 2) southwest to the vicinity of Naco and south to the vicinity of Bisbee Junction (Figure 3). The groundwater monitoring data indicate that the sulfate plume extends over an oblong area of approximately 2 miles by 3.9 miles and is contained primarily in the basin fill and undifferentiated Bisbee Group except near the former evaporation pond where wells in the Glance Conglomerate have sulfate concentrations greater than 250 mg/L. The extent of the sulfate plume and the sulfate contours as drawn on Figure 3 are based on both historical and current sulfate concentration data. Historical sulfate concentration data are available in this and previous groundwater monitoring reports and in the Aquifer Characterization Report (Clear Creek, 2010).

- Comparison of the fourth quarter 2014 sulfate concentrations with previous quarters indicates no large scale change in the plume geometry (represented by the position of the 250 mg/L sulfate concentration contour) since the Mitigation Order sampling began in 2008, although concentration contours within the plume have been modified to reflect current concentrations.

- Figure 5 shows sulfate concentrations through time at public drinking water supply wells. Sulfate concentrations have remained relatively stable over time at AWC-02, AWC-04, AWC-05, NWC-02, and NWC-06. The sulfate concentration at AWC-03 increased from 41 mg/L to 69.1 mg/L between 2008 and July 2014. The fourth quarter sample at AWC-03 had a sulfate concentration of 63 mg/L. There was an increasing trend in the sulfate concentrations in NWC-04 from October 2008 to February 2013; however concentrations were highly variable from month to month. Sulfate concentrations at NWC-04 have shown a decreasing trend since February 2013, and ranged between 163 and 223 mg/L in 2014.

- Groundwater elevations decrease from east to west across the study area, indicating westerly groundwater flow (Figure 4).

- Figures 6 and 7 show groundwater elevations over time for BMO monitor wells with screened intervals in basin fill and bedrock, respectively. Groundwater elevations in BMO monitor wells screened in basin fill have decreased over time. The maximum rate of decline measured in the basin fill through the most recent quarter sampled is 1.22 feet per year in BMO-2008-3B, which declined 7.31 feet between July 2008 and July 2014. Groundwater elevations in most BMO monitor wells screened in bedrock have also declined over time.
4. REFERENCES


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### TABLE 1
Schedule for Water Quality Sampling and Water Level Monitoring

<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Semiannual Sampling First Quarter</th>
<th>Quarterly Sampling Second Quarter</th>
<th>Annual Sampling Third Quarter</th>
<th>Quarterly Sampling Fourth Quarter</th>
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<td>POOL</td>
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<td>RAY</td>
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<td>TM-42</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>WEISKOPF 802</td>
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<td>✓</td>
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<td>221897</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>ZANDER</td>
<td>205126</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

Notes:
- 35-71891 = ADWR 35 Database
- ADWR = Arizona Department of Water Resources
- NR = No Record
- WLO = Water Level Only
<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bls)</th>
<th>Water Level Measured?</th>
<th>Water Sample Collected?</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANDERSON 396</td>
<td>613396</td>
<td>Anderson</td>
<td>Plume</td>
<td>236</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>ANDERSON 458</td>
<td>221458</td>
<td>Anderson</td>
<td>Well Inventory</td>
<td>734</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>ASLD 435</td>
<td>616435</td>
<td>AZ State Land</td>
<td>Regional</td>
<td>340</td>
<td>Y</td>
<td>N</td>
<td>Well identified for water level measurements only. Water level measured in November 2014.</td>
</tr>
<tr>
<td>AWC-02</td>
<td>616586</td>
<td>Arizona Water Company</td>
<td>Well Inventory</td>
<td>330</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>AWC-03</td>
<td>616585</td>
<td>Arizona Water Company</td>
<td>Well Inventory</td>
<td>269</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
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<tr>
<td>AWC-04</td>
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<td>Well Inventory</td>
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<td>AWC-05</td>
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<td>Arizona Water Company</td>
<td>Well Inventory</td>
<td>1183</td>
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<td>BANKS 986</td>
<td>647986</td>
<td>Banks</td>
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<td>435</td>
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<td>BANKS 987</td>
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<td>339</td>
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<tr>
<td>BARTON 919</td>
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<td>Barton</td>
<td>Plume</td>
<td>130</td>
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<td>BF-01</td>
<td>539783</td>
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<td>Plume</td>
<td>400</td>
<td>N</td>
<td>N</td>
<td>Well abandoned April 2013.</td>
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<tr>
<td>BIMA</td>
<td>577927</td>
<td>Bisbee Municipal Airport</td>
<td>Plume</td>
<td>465</td>
<td>N</td>
<td>Y</td>
<td>Water quality sample collected in October 2014. Unable to measure water level due to obstruction in well.</td>
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<tr>
<td>BMO-2008-1G</td>
<td>909474</td>
<td>Copper Queen Branch</td>
<td>Plume</td>
<td>310</td>
<td>N</td>
<td>N</td>
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<tr>
<td>BMO-2008-3B</td>
<td>909147</td>
<td>Copper Queen Branch</td>
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<td>260</td>
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<tr>
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<td>910096</td>
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<td>BMO-2008-5B</td>
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<td>909552</td>
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<td>BMO-2008-9M</td>
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<td>775</td>
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<td>909435</td>
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<td>810</td>
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<td>909272</td>
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<td>Plume</td>
<td>449</td>
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<tr>
<td>Well Name</td>
<td>ADWR 55 Registry Number</td>
<td>Owner</td>
<td>Monitoring Purpose</td>
<td>Casing Depth (feet bls)</td>
<td>Water Level Measured?</td>
<td>Water Sample Collected?</td>
<td>Status</td>
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<td>760</td>
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<td>909551</td>
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<td>240</td>
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<tr>
<td>BURKE</td>
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<td>Burke</td>
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<td>781</td>
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<td>Chambers</td>
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<td>N</td>
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<td>City of Bisbee</td>
<td>Plume</td>
<td>420</td>
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<td>COB MW-2</td>
<td>903984</td>
<td>City of Bisbee</td>
<td>Plume</td>
<td>170</td>
<td>N</td>
<td>N</td>
<td>Well is not scheduled for fourth quarter monitoring.</td>
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<td>COB MW-3</td>
<td>906823</td>
<td>City of Bisbee</td>
<td>Plume</td>
<td>269</td>
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<tr>
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<td>City of Bisbee</td>
<td>Plume</td>
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<td>COOPER</td>
<td>623564</td>
<td>Cooper</td>
<td>Well Inventory</td>
<td>325</td>
<td>N</td>
<td>Y</td>
<td>Water quality sample collected in October 2014. Unable to measure water level due to obstruction in well.</td>
</tr>
<tr>
<td>COOPER C</td>
<td>637069</td>
<td>Copper Queen Branch</td>
<td>Plume</td>
<td>220</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in November 2014.</td>
</tr>
<tr>
<td>DODSON</td>
<td>644927</td>
<td>Dodson</td>
<td>Well Inventory</td>
<td>200</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>DOUGLASS 791</td>
<td>592791</td>
<td>Douglass</td>
<td>Plume</td>
<td>200</td>
<td>N</td>
<td>N</td>
<td>Well is not scheduled for fourth quarter monitoring.</td>
</tr>
<tr>
<td>DOUGLASS 792</td>
<td>592792</td>
<td>Douglass</td>
<td>Plume</td>
<td>200</td>
<td>N</td>
<td>N</td>
<td>Well is not scheduled for fourth quarter monitoring.</td>
</tr>
<tr>
<td>DURAZO</td>
<td>NR</td>
<td>Durazo</td>
<td>Plume</td>
<td>ND</td>
<td>N</td>
<td>N</td>
<td>Well is not operational. Unable to measure water level because wellhead is inaccessible.</td>
</tr>
<tr>
<td>EAST</td>
<td>599796</td>
<td>East</td>
<td>Well Inventory</td>
<td>125</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>ECHAVE</td>
<td>219449</td>
<td>Echave</td>
<td>Well Inventory</td>
<td>345</td>
<td>N</td>
<td>Y</td>
<td>Water quality sample collected in October 2014. Unable to measure water level due to obstruction in well.</td>
</tr>
<tr>
<td>EPPELE 641</td>
<td>805641</td>
<td>Eppele</td>
<td>Well Inventory</td>
<td>265</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>FLEMMING</td>
<td>218386</td>
<td>Fleming</td>
<td>Plume</td>
<td>400</td>
<td>N</td>
<td>N</td>
<td>Well is not scheduled for fourth quarter monitoring.</td>
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</tbody>
</table>
## TABLE 2
Summary of Groundwater Monitoring Program for Fourth Quarter 2014

<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bls)</th>
<th>Water Level Measured?</th>
<th>Water Sample Collected?</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRANCO 101</td>
<td>500101</td>
<td>Franco</td>
<td>Plume</td>
<td>200</td>
<td>Y</td>
<td>N</td>
<td>Water level measured in November 2014. Unable to collect water quality sample because well is not operational.</td>
</tr>
<tr>
<td>FRANCO 383</td>
<td>221383</td>
<td>Franco</td>
<td>Well Inventory</td>
<td>711</td>
<td>Y</td>
<td>Y</td>
<td>Water quality sample collected in October 2014.</td>
</tr>
<tr>
<td>FULTZ</td>
<td>212447</td>
<td>Fultz</td>
<td>Well Inventory</td>
<td>300</td>
<td>N</td>
<td>N</td>
<td>Water quality sample not collected per owner request. Unable to measure water level due to obstruction in well.</td>
</tr>
<tr>
<td>GARNER 557</td>
<td>558557</td>
<td>Garner</td>
<td>Plume</td>
<td>300</td>
<td>N</td>
<td>N</td>
<td>Well is not scheduled for fourth quarter monitoring.</td>
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<tr>
<td>GARNER 635</td>
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<td>Garner</td>
<td>Well Inventory</td>
<td>680</td>
<td>N</td>
<td>N</td>
<td>Well owner was unable to participate in groundwater sampling program this quarter.</td>
</tr>
<tr>
<td>GGOOSE 547</td>
<td>628547</td>
<td>Copper Queen Branch</td>
<td>Plume</td>
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<td>Marcell</td>
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<td>N</td>
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<td>MCCONNELL 265</td>
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<td>Water quality sample collected in October 2014. Unable to measure water level because wellhead port is stuck shut.</td>
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</table>
## TABLE 2
Summary of Groundwater Monitoring Program for Fourth Quarter 2014

<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bgs)</th>
<th>Water Level Measured?</th>
<th>Water Sample Collected?</th>
<th>Status</th>
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### TABLE 2
Summary of Groundwater Monitoring Program for Fourth Quarter 2014

<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bls)</th>
<th>Water Level Measured?</th>
<th>Water Sample Collected?</th>
<th>Status</th>
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<td>TM-06 MILLER</td>
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</tbody>
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Notes:
- 35-71891 = ADWR 35 Database
- ADWR = Arizona Department of Water Resources
- bls = below land surface
- N = No
- ND = No Data
- NR = No Record
- Y = Yes
<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Sample Date</th>
<th>pH (SU)</th>
<th>Temp (deg C)</th>
<th>SC (µS/cm)</th>
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Clear Creek Associates
2014 Q4 CQG Groundwater Tables
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CITATION:

2014 Q4 CQB Groundwater Tables

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**Notes:**
- 35-71891 = ADWR 35 Database
- ADWR = Arizona Department of Water Resources
- deg C = degrees Celsius
- DUP = Blind duplicate
- M = Multi-Meter Malfunction
- mg/L = milligrams per liter
- ND = No Data
- NR = No Record
- SC = Specific Conductance
- SU = Standard Units
- µS/cm = microsiemens per centimeter

1 Verified drinking water supply well, sample collected for sulfate trend analysis and interim action evaluation.
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|            |                         |                   |                    |                                     | 10/7/09    | 50.33                | 4600.89                         |
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|            |                         |                   |                    |                                     | 1/18/11    | 52.98                | 4598.24                         |
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|            |                         |                   |                    |                                     | 7/8/14     | 45.39                | 4605.83                         |
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Notes:
- 35-71891 = ADWR 35 Database
- ADWR = Arizona Department of Water Resources
- ft amsl = feet above mean sea level
- NR = No Record
- UTM = Universal Transverse Mercator Zone 12, North American Datum 1983 (NAD83)
- 1 Depth to water measurement provided by Arizona Water Company
- 2 Depth to water measurement provided by Naco Water Company
- 3 Well previously identified as ROGERS 803
**Legend**

- **Legend**: Well ID
- **SO4 Concentration (mg/L)**
- **SO4 Concentration Contours**
- **Fault**
- **Co-located Wells**
- **Screen (ft bls): Sulfate Levels (mg/L)**

**Sulfate Concentration Contours**

- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate - Estimated
- Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Motta Formations

**Notes**

- Projection: UTM Zone
- 12N NAD83
- mg/L = milligrams per liter
- ft bls = feet below land surface
- Sulfate contours are based on fourth quarter 2014 and historical data.

**File ID**: 055038-394

**Date**: 12/22/14

**ID**: 055038-394

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**FIGURE 3**

Sulfate Concentrations in Groundwater for Fourth Quarter 2014
FIGURE 4
GROUNDWATER ELEVATIONS
FOR FOURTH QUARTER 2014

Projection: LTM Zone
12N NAD83
ft amsl = feet above mean sea level
ft bls = feet below land surface

Legend

Well ID
Groundwater Elevation (ft amsl)
Groundwater Elevation Contours (10 ft)
Groundwater Elevation Contours (50 ft)
Basin Fill
Basin Fill and Undifferentiated Bisbee Group
Faults (dashed where inferred)
CTSA Facility

Co-located Wells
Well ID
Screen (ft bls): Water Elevation (ft amsl)

Screened Formation
Basin Fill
Basin Fill and Undifferentiated Bisbee Group
Undifferentiated Bisbee Group
Undifferentiated Bisbee Group - Estimated
Undifferentiated Bisbee Group and Glance Conglomerate
Glance Conglomerate
Glance Conglomerate - Estimated

AREA OF WIDELY VARYING WATER LEVELS

Scale (Feet)
0 3,000 6,000

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FIGURE 5
SULFATE CONCENTRATION OVER TIME IN PUBLIC DRINKING WATER SUPPLY WELLS
FIGURE 6
HYDROGRAPHS FOR BMO MONITOR WELLS IN BASIN FILL
FIGURE 7
HYDROGRAPHS FOR BMO MONITOR
WELLS IN BEDROCK
APPENDIX A

DATA VERIFICATION REPORT
APPENDIX A
DATA VERIFICATION REPORT
FOURTH QUARTER 2014
GROUNDWATER MONITORING REPORT

Prepared for:
FREEPORT MINERALS CORPORATION
COPPER QUEEN BRANCH
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:
CLEAR CREEK ASSOCIATES, P.L.C.
221 North Court Avenue, Suite 101
Tucson, Arizona 85701

January 27, 2014
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1. INTRODUCTION

This report summarizes the data verification review of groundwater samples collected during the fourth quarter 2014 by Clear Creek Associates (Clear Creek) and Freeport Minerals Corporation, Copper Queen Branch (CQB) and analyzed pursuant to Mitigation Order on Consent Docket No. P-121-07 (ADEQ, 2007). Clear Creek and CQB collected groundwater samples pursuant to the groundwater monitoring program approved by ADEQ in April 2010 (CQB, 2010 and ADEQ, 2010). Analytical results for groundwater samples collected for this project during the fourth quarter 2014 were provided to Clear Creek by SVL Analytical, Inc. (SVL) of Kellogg, Idaho for preparation of the fourth quarter 2014 Groundwater Monitoring Report.

Quality assurance (QA) and quality control (QC) procedures are specified in the Quality Assurance Project Plan for Aquifer Characterization Plan (QAPP) (Appendix F of HGC, 2008) for field sampling, chain-of-custody (COC) documentation, laboratory analysis, and reporting. This report reviews field sampling for samples collected by Clear Creek and CQB. Additionally, sample handling and laboratory QA/QC data are evaluated according to the data quality indicators (DQIs) given in the QAPP.

The laboratory reports for the fourth quarter 2014 samples are in Appendix B, including COC forms, laboratory correspondence, QC summaries, data qualifiers, and internal QA/QC tests performed by the laboratory. Based on the results of laboratory control samples, matrix spike/recovery and blank spikes, SVL did not advise any modifications regarding the usability and data validation status of the laboratory test results. The analytical results for 64 samples collected by Clear Creek and CQB in fourth quarter 2014 are contained in 8 reports with the SVL laboratory identification numbers listed in the following table.
Number of wells sampled: 53
Number of well samples collected (including duplicates and multiple samples from one well): 58
Number of duplicate samples collected: 3
Number of field and equipment blanks collected: 6
Total number of samples collected: 64

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2. FIELD OPERATIONS

Field operations for this project consisted of the following for all monitoring wells sampled by Clear Creek and CQB:

- Static water level measurement if possible,
- Well purging,
- Collection of water quality field parameters (pH in standard units [SU], specific conductance [SC] in microSiemens per centimeter [µS/cm], and temperature in degrees Celsius [°C]),
- Collection of groundwater samples for water quality analysis,
- Collection of groundwater QA and QC samples per requirements in the QAPP, and
- Equipment decontamination.

Field notebook entries and sampling forms were evaluated for quality assurance and met the documentation requirements stated in the QAPP.

2.1 Water Level Monitoring

Static water level measurements were attempted at each well that was sampled (where there are no known obstructions or lack of wellhead access to prevent static water level measurement) and at all wells where water level monitoring was conducted by Clear Creek and CQB. Water levels were measured while the well pump was off. Because it is not always possible to ascertain how long the pump had been off prior to water level measurements (for wells equipped with pumps), some water levels may be affected by residual drawdown. Before measuring the water level at each well, the battery on the water level indicator was checked and the sensitivity level was adjusted, if necessary. Each measurement was collected and verified by measuring the depth to water multiple times in order to obtain a consistent reading and accurate measurement.

2.2 Groundwater Sampling

Groundwater samples were collected from operable wells designated in the monitoring program approved by ADEQ (ADEQ, 2010). Construction and location information for the wells sampled for water quality and water level measurements is listed in Tables 2 and 4 of the main text.
2.2.1 Pre-Sampling Field Activities

On each day of sampling, the pH\(^1\) and SC\(^2\) multipurpose meter was calibrated. In addition, the water level indicator was checked for a signal, which indicates a working meter and sufficient battery strength. On each day where sampling extended for more than half a day, a mid-day calibration check was performed on the pH and SC probes. In addition to calibrating the instruments each day, measures were taken to 1) properly decontaminate field equipment, 2) ensure the appropriate storage and transport temperature of the samples, and 3) document activities related to the collection of groundwater samples as part of this project. These objectives were met by 1) replenishing or obtaining supplies of distilled water and ice daily, 2) use of the proper preservative and sample collection containers, 3) properly packing the samples on ice during field activities, 4) using distilled water to properly decontaminate field equipment prior to the start of sampling each day and after sampling at each well, and 5) obtaining the appropriate field notebook in order to document field activities related to the groundwater monitoring program.

2.2.2 Well Purging, Field Measurements, and Sample Collection

Three wetted casing volumes were purged from each well prior to sampling, when possible. However, when three casing volumes could not be purged, this information was noted on the groundwater sampling form (Appendix C) at each well for which this was the case. Purge water was discharged to the ground surface.

Field measurements were collected at varying intervals during well purging at each well where a water quality sample was collected. If possible, field parameters were monitored until the measurements stabilized within 0.3 standard units for pH, \(2 ^\circ\text{C}\) for temperature and 100 µS/cm for specific conductance as described in Section 4.2.1.2 of the QAPP.

During this monitoring period, 58 groundwater samples (duplicate and multiple samples included) were collected for analysis from 53 wells. Groundwater samples were collected by filtering the sample into a 250-milliliter bottle using a clean filtration apparatus and one disposable 0.45-micron filter. All bottles were provided by the laboratory and maintained in a clean and secure work area until used in the field.

---

\(^{1}\) Field pH meters were calibrated using a three point calibration
\(^{2}\) Field SC meters were calibrated using standard stock solutions
2.2.3 Post-Sampling Field Activities

Post-sampling field activities consisted of equipment decontamination, sample storage, and sample shipping. Field equipment that came into contact with the sample was decontaminated using Alconox® detergent and distilled water. After washing, the equipment was rinsed with distilled water. After sample collection, samples from each well were placed into a plastic bag to prevent the label from becoming illegible and stored on ice until they could be packed securely for shipping to SVL.
3. SAMPLE HANDLING

All fourth quarter 2014 samples collected by Clear Creek and CQB were shipped to SVL for analysis. COC documentation accompanied all samples submitted and included the sample name, collection date, and time. Laboratory reports include the date and time the samples were received by SVL. As noted on the analytical data reports from SVL, all of the sample bottles were received intact, properly preserved, and in good condition. The samples were shipped within one to seven days of sample collection and the time between sample collection and receipt of samples by SVL was two to eight days. The samples were collected, shipped, and received by SVL within the established holding time for dissolved sulfate analysis in accordance with United States Environmental Protection Agency (EPA) Method 300.0.
4. LABORATORY QUALITY CONTROL

As specified in the QAPP, laboratory QC was maintained for all analyses through proper licensure, the use of approved analytical methods, QC measurements, appropriate turn-around-time for analysis (timeliness), method detection limits (MDLs), and practical quantitation limits (PQLs). Each of these controls is discussed in the following subsections.

The review of laboratory QC included a review to identify any qualified data and an assessment to determine their significance. Additionally, the laboratory QC summaries were reviewed to verify that results met QA criteria.

4.1 Licensure

SVL is licensed with the Arizona Department of Health Services (license number AZ0538) and is accredited in accordance with the National Environmental Laboratory Accreditation Conference.

4.2 Analytical Method

EPA method 300.0 was used for sulfate analysis during this monitoring period.

4.3 Method Detection Limit (MDL) and Reporting Limit (RL)

The MDL and RL of the analytical method used by SVL are shown in the following table. The MDL for analyses of samples is equal to or less than the target MDL identified in the QAPP.

<table>
<thead>
<tr>
<th>Lab</th>
<th>Method</th>
<th>MDL (mg/L)</th>
<th>RL (mg/L)</th>
<th>Target MDL(^1) (mg/L)</th>
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</table>

\(^{mg/L} = \text{milligrams per liter}\)
\(^{1} \text{Target MDL from Table F.2 of QAPP}\)

4.4 Timeliness

All samples submitted for sulfate analysis were analyzed within the twenty-eight day holding time specified by EPA Method 300.0
4.5 Quality Control Measurements

The following QC samples were prepared and analyzed:

- Calibration blanks and calibration verification standards
- Analytical spike samples
- Laboratory duplicate samples
- Field blank samples

4.5.1 Calibration Blanks and Calibration Verification Standards

Results from the analyses of the initial calibration blanks and initial calibration verification standards conducted by EPA Method 300.0 were reviewed. The results of each initial calibration blank analyzed showed no detections of the target analyte. All analytical results for the initial calibration verification standards and laboratory-fortified blanks showed percent recoveries that were within the acceptance criteria specified by the SVL QA Plan and the QAPP.

4.5.2 Analytical Spike

Analytical spike and spike duplicate samples were analyzed for 10 percent of the samples analyzed. The spike samples were prepared by adding a sulfate spike to one randomly chosen sample out of every ten samples analyzed. Spike recoveries for most analyses were between 90 and 110 percent. Instances in which analytical spike recoveries were high or unusable are qualified with an “M1”, or “M3” flag, respectively. The “M1” flag was used on report W4J0384. The “M3” qualifier was used on report W4J04014. In all cases where a qualifier was used, the method control sample recovery was checked by SVL to ensure that it was acceptable within the criteria specified by their QA Plan. The method control samples were prepared by adding a sulfate spike to de-ionized water.

4.5.3 Laboratory Duplicate Samples

Analyses of laboratory duplicate samples were reviewed as part of this data verification report. In all cases where the relative percent difference (RPD) could be calculated for laboratory duplicate samples, the RPD was within 20 percent, which is the tolerance range set by the laboratory. The results met QA criteria and demonstrate an appropriate level of precision in laboratory analysis of these samples. Field duplicate samples are discussed in Section 5.1.
4.5.4 Sample Re-Analysis

During the fourth quarter 2014, one field sample, ANDERSON 396, was re-analyzed by SVL at the request of Clear Creek based on comparison to historical results. The October 6, 2014 sample sulfate concentration was reported as 99.0 mg/L which was lower than the previous July 11, 2014 sample result of 272 mg/L. The result of re-analysis of the sample was 102 mg/L, confirming the original sample result.

4.5.5 Blank Samples

During the first quarter 2014, six blank samples were collected, including three field blanks (FB20141006, FB20141014, FB20141021) and three field equipment blanks (EQB20141006, EQB20141014, and EQB20141021). None of the blank samples collected in the fourth quarter 2014 had sulfate concentrations above the reporting limit of 0.30 mg/L. The results demonstrate that the sulfate concentrations reported in the fourth quarter 2014 were not affected by sample collection and sample handling procedures. Field and equipment blank samples were collected in accordance with procedures described in Section 4.2.1.5 of the QAPP. Field and equipment blank samples were collected and submitted along with other samples to evaluate the potential for contaminant introduction under field conditions. As required by Section 4.2.1.5 of the QAPP, a minimum of one field blank and one equipment blank sample was collected for every twenty samples.
5. DATA QUALITY INDICATORS

The QAPP provides several DQIs for assessing the overall quality of the data. These DQIs include the following:

- Precision
- Bias
- Accuracy
- Representativeness
- Comparability
- Completeness
- Sensitivity

Each of these DQIs is discussed below in relation to the fourth quarter 2014 groundwater sampling and analysis conducted by Clear Creek and CQB.

5.1 Precision

Precision indicates how well a measurement can be reproduced. Precision is quantified by calculating the RPD between duplicate samples and by measuring the water level multiple times before recording the result.

For the QA/QC of analytical data, precision was quantified by calculating the RPDs between duplicates among the following groups of duplicate samples:

- Laboratory duplicate samples
- Field duplicate samples

As discussed in Section 4.5.3 there were no exceedances of RPD QA criteria for any laboratory duplicates. During this monitoring period three field-filtered duplicate samples (DUP20141006, DUP20141014, and DUP20141021) were collected for analysis. The collection of six duplicate samples meets the QA/QC method and quantity goal stated in Section 4.2.1.5 of the QAPP.

Sulfate results for the duplicate samples collected are provided in the table below. The range of RPD values was between 1.43 and 3.94 percent, all within the 20 percent acceptance criteria for field duplicates, as stated in Section 3.3.1 of the QAPP. Overall, the DQI for precision is met for the analytical data.
For the QA/QC of water level monitoring, precision was met by measuring the water level repeatedly until readings were within 0.03 feet of one another. Readings within that range were obtained from all wells where groundwater measurements were collected, so the DQI for precision is met.

### 5.2 Bias

Bias is a systematic distortion of measurements causing consistent errors in one direction. Bias is managed in this data set by the consistent application of standardized sample collection and analysis procedures. As discussed in Section 4.5.5, none of the blank samples had measurable concentrations of sulfate indicating that the sampling collection and analysis procedures did not contribute sulfate to the results.

### 5.3 Accuracy

Accuracy is a measure of the agreement of a measurement to a known value and is measured using the recoveries from laboratory control samples. As discussed in Sections 4.5.1, 4.5.2, and 4.5.3 there were no significant exceedances of the recovery QA criteria for any of the calibration standards, analytical spikes, or laboratory duplicates, respectively. As discussed in Section 4.5.5, none of the blank samples had measurable concentrations of sulfate indicating that the sampling collection and analysis procedures did not significantly contribute sulfate to the results. Water level measurements for the fourth quarter 2014 were compared to previous quarters to ensure that the measurements were within the expected ranges. Based on this information, the overall accuracy of the data is judged sufficient for the purpose of aquifer characterization.

### 5.4 Representativeness

All samples and water level measurements were taken from locations specified in the revised groundwater monitoring program (ADEQ, 2010) following sampling procedures specified in the QAPP. Therefore, they provide a good representation of groundwater quality at the sampled locations.
locations. The sampling procedures are representative of groundwater quality at the sampled locations because no or little sulfate was detected in the field or equipment blanks. The analytical data are representative of groundwater conditions because the analyses used standard procedures and methods that met QA/QC guidelines of the QAPP.

5.5 Comparability

All samples were collected using standardized procedures (HGC, 2008) and were analyzed by SVL using standardized methods. Insofar as standardized sample collection and analytical methods are adhered to, the sample results should be comparable.

5.6 Completeness

All samples collected and subsequently analyzed and reported by SVL satisfy the QA/QC criteria for this project. The completeness of analytical results is 100 percent, which exceeds the minimum 90 percent completeness in Section 3.3.6 of the QAPP.

5.7 Sensitivity

The analytical method used to analyze the samples meets the MDL requirements specified in Table F.2 of the QAPP. The water level sounder was accurate to 0.01 feet as specified in Section 4 of the QAPP. Therefore, the analytical sensitivity is considered acceptable for use in aquifer characterization.
6. REFERENCES


APPENDIX B

ANALYTICAL REPORTS
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603  

**Project Name:** Copper Queen Branch Sulfate Mitigation Order  
**Work Order:** W4L0273  
**Reported:** 18-Dec-14 08:55

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<td>11-Dec-2014</td>
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Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL. Sample preparation is defined by the client as per their Data Quality Objectives.

This report supersedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4L0273
Reported: 18-Dec-14 08:55

Client Sample ID: NWC-04
SVL Sample ID: W4L0273-01 (Ground Water)
Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order  
Work Order: W4L.0273  
Reported: 18-Dec-14 08:55

Client Sample ID: NOTEMAN  
SVL Sample ID: W4L0273-02 (Ground Water)  
Sample Report Page 1 of 1

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John Kern  
Laboratory Director

SVL holds the following certifications:  
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4L0273
Reported: 18-Dec-14 08:55

Quality Control - BLANK Data

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Notes and Definitions

- **D2**: Sample required dilution due to high concentration of target analyte.
- **M3**: The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
- **LCS**: Laboratory Control Sample (Blank Spike)
- **RPD**: Relative Percent Difference
- **UDL**: A result is less than the detection limit
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable

SVL holds the following certifications:
- AZ:0538
- CA:2080
- FL(NELAC):E87993
- ID:ID00019 & ID00965 (Microbiology)
- NV:ID000192007A
- WA:C573
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4K0392
Reported: 04-Dec-14 13:09

ANALYTICAL REPORT FOR SAMPLES

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Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL. Sample preparation is defined by the client as per their Data Quality Objectives. This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section. The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4K0392
Reported: 04-Dec-14 13:09

Client Sample ID: NWC-04
SVL Sample ID: W4K0392-01 (Ground Water)

Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
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Quality Control - MATRIX SPIKE DUPLICATE Data

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Notes and Definitions

D2 Sample required dilution due to high concentration of target analyte.
M1 Matrix spike recovery was high, but the LCS recovery was acceptable.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
R > 4S % recovery not applicable, sample concentration more than four times greater than spike level
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable
## ANALYTICAL REPORT FOR SAMPLES

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Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4K0384
Reported: 24-Nov-14 09:51

Client Sample ID: BMO-2010-1M
SVL Sample ID: W4K0384-01 (Ground Water)

Sampled: 12-Nov-14 12:15
Received: 19-Nov-14
Sampled By: CLS

Dissolved Anions by Ion Chromatography

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<td>JMW</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
SVL holds the following certifications:

### Dissolved Anions by Ion Chromatography

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<tr>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

[Signature]

John Kern
Laboratory Director

---

SVL holds the following certifications:
**Client Sample ID:** HOBAN  
**SVL Sample ID:** W4K0384-04 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
## Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4K0384
Reported: 24-Nov-14 09:51

Client Sample ID: BMO-2008-5M
SVL Sample ID: W4K0384-06 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
### Dissolved Anions by Ion Chromatography

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John Kern  
Laboratory Director
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
**Client Sample ID:** BMO-2008-6B  
**SVL Sample ID:** W4K0384-09 (Ground Water)  
**Method:** Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Quality Control - BLANK Data

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<tbody>
<tr>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
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### Quality Control - LABORATORY CONTROL SAMPLE Data

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<th>% Rec.</th>
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<td>mg/L</td>
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### Quality Control - MATRIX SPIKE Data

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<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
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<tr>
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<td>mg/L</td>
<td>10.4</td>
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<td>10.0</td>
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<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>14.9</td>
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<td>90 - 110</td>
<td>W447276</td>
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### Quality Control - MATRIX SPIKE DUPLICATE Data

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<td>W447276</td>
<td>20-Nov-14</td>
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</tbody>
</table>

### Notes and Definitions

- **D2**: Sample required dilution due to high concentration of target analyte.
- **M1**: Matrix spike recovery was high, but the LCS recovery was acceptable.
- **LCS**: Laboratory Control Sample (Blank Spike)
- **RPD**: Relative Percent Difference
- **UDL**: A result is less than the detection limit
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable

---

SVL holds the following certifications:

ANALYTICAL REPORT FOR SAMPLES

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<th>Laboratory ID</th>
<th>Matrix</th>
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<th>Sampled By</th>
<th>Date Received</th>
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<td>Ground Water</td>
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<td>24-Oct-2014</td>
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<td>Thompson 341</td>
<td>W4J0564-08</td>
<td>Ground Water</td>
<td>22-Oct-14 08:54</td>
<td>DP</td>
<td>24-Oct-2014</td>
</tr>
</tbody>
</table>

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Freeport McMoRan - Bisbee  
36 West Hwy 92  
Bisbee, AZ 85603  

Project Name: Copper Queen Branch Sulfate Mitigation Order  
Work Order: W4J0564  
Reported: 05-Nov-14 11:57

Client Sample ID: EPPELE 641  
SVL Sample ID: W4J0564-01 (Ground Water)  
Sample Report Page 1 of 1  

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<td>JMW</td>
<td>10/30/14 18:02</td>
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John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0564
Reported: 05-Nov-14 11:57

Client Sample ID: BANKS 986
SVL Sample ID: W4J0564-02 (Ground Water)
Sampled: 21-Oct-14 12:37
Received: 24-Oct-14
Sampled By: DP

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

---

SVL holds the following certifications:
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Reported:
Work Order: W4J0564

Project Name: Copper Queen Branch Sulfate Mitigation Order

Client Sample ID: BURKE
SVL Sample ID: W4J0564-03 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Freeport McMoRan - Bisbee  
36 West Hwy 92  
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order  
Work Order: W4J0564  
Reported: 05-Nov-14 11:57

Client Sample ID: FB20141021  
SVL Sample ID: W4J0564-04 (Water)  
Sample Report Page 1 of 1  
Received: 24-Oct-14  
Sampled: 21-Oct-14  
Sampled By: DP

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

SVL holds the following certifications:
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Client Sample ID: **EQB20141021**
SVL Sample ID: **W4J0564-05 (Water)**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoran - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Client Sample ID: DUP20141021
SVL Sample ID: W4J0564-07 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
Client Sample ID: **THOMPSON 341**  
SVL Sample ID: **W4J0564-08 (Ground Water)**  
Sampled: 22-Oct-14 08:54  
Received: 24-Oct-14  
Sampled By: DP  
Received: 24-Oct-14  
Sampled By: DP  

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

---

John Kern  
Laboratory Director
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Reported: 05-Nov-14 11:57

Work Order: W4J0564

Client Sample ID: RAY
SVL Sample ID: W4J0564-10 (Ground Water)

Sample Report Page 1 of 1

<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
**Sample Report Page 1 of 1**

**Client Sample ID:** EAST  
**SVL Sample ID:** W4J0564-11 (Ground Water)  
**Sampled:** 22-Oct-14 14:17  
**Received:** 24-Oct-14  
**Sampled By:** DP  
**Sampled:** 22-Oct-14 14:17  

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4J0564
Reported: 05-Nov-14 11:57

Client Sample ID: WEED
SVL Sample ID: W4J0564-12 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:

Work order Report Page 13 of 18
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0564
Reported: 05-Nov-14 11:57

Client Sample ID: PALMER
SVL Sample ID: W4J0564-14 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
**Client Sample ID:** BIMA  
**SVL Sample ID:** W4J0564-15 (Ground Water)  

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
**Quality Control - BLANK Data**

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**Quality Control - LABORATORY CONTROL SAMPLE Data**

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**Quality Control - MATRIX SPIKE Data**

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**Quality Control - MATRIX SPIKE DUPLICATE Data**

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<td>30-Oct-14</td>
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</table>

SVL holds the following certifications:
Notes and Definitions

D2  Sample required dilution due to high concentration of target analyte.
M1  Matrix spike recovery was high, but the LCS recovery was acceptable.
M3  The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
R > 4S % recovery not applicable, sample concentration more than four times greater than spike level
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0455
Reported: 30-Oct-14 12:04

ANALYTICAL REPORT FOR SAMPLES

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<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
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</table>

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL. Sample preparation is defined by the client as per their Data Quality Objectives. This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order  
Work Order: W4J0455  
Reported: 30-Oct-14 12:04

Client Sample ID: PANAGAKOS  
SVL Sample ID: W4J0455-01 (Ground Water)  
Received: 21-Oct-14 15:27  
Sample Report Page 1 of 1  
Received: 21-Oct-14 15:27  
Sampled By: DP

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

SVL holds the following certifications:  
Client Sample ID: **DODSON**  
SVL Sample ID: **W4J0455-02 (Ground Water)**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Reported: 30-Oct-14 12:04

Work Order: W4J0455

---

Client Sample ID: ROGERS, E  
SVL Sample ID: W4J0455-04 (Ground Water)  
Sample Report Page 1 of 1

<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

SVL holds the following certifications:  
### Project Name: Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W4J0455  
**Reported:** 30-Oct-14 12:04

---

**Client Sample ID:** RAMIREZ  
**SVL Sample ID:** W4J0455-05 (Ground Water)  
**Sampled:** 17-Oct-14 12:48  
**Received:** 21-Oct-14  
**Sampled By:** DP

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
**Quality Control - BLANK Data**

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**Quality Control - LABORATORY CONTROL SAMPLE Data**

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**Quality Control - MATRIX SPIKE Data**

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**Quality Control - MATRIX SPIKE DUPLICATE Data**

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<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>39.8</td>
<td>39.5</td>
<td>10.0</td>
<td>104</td>
<td>0.9</td>
<td>20</td>
<td>W444068</td>
<td>27-Oct-14</td>
</tr>
</tbody>
</table>

**Notes and Definitions**

D2 Sample required dilution due to high concentration of target analyte.

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.

LCS Laboratory Control Sample (Blank Spike)

RPD Relative Percent Difference

UDL A result is less than the detection limit

R > 4S % recovery not applicable, sample concentration more than four times greater than spike level

<RL A result is less than the reporting limit

MRL Method Reporting Limit

MDL Method Detection Limit

N/A Not Applicable

---

SVL holds the following certifications:

## Analytical Report for Samples

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
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<td>DUP20141014</td>
<td>W4J0414-09</td>
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<td>DP</td>
<td>17-Oct-2014</td>
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Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL. Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

---

SVL holds the following certifications:

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<th>Analyzed</th>
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<td>JMW</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0414
Reported: 30-Oct-14 12:03

Client Sample ID: NWC-06
SVL Sample ID: W4J0414-02 (Ground Water)

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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Reported: 30-Oct-14 12:03

Client Sample ID: NWC-02
SVL Sample ID: W4J0414-03 (Ground Water)
Sampled: 13-Oct-14 11:06
Received: 17-Oct-14
Sampled By: DP

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603

<table>
<thead>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4J0414
Reported: 30-Oct-14 12:03

Client Sample ID: MOORE
SVL Sample ID: W4J0414-05 (Ground Water)

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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

[Signature]
John Kern
Laboratory Director

SVL holds the following certifications:
**Client Sample ID:** FB20141014  
**SVL Sample ID:** W4J0414-06 (Distilled water)  
**Sample Report Page 1 of 1**  

<table>
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<td>Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Client Sample ID: **EQB20141014**  
SVL Sample ID: **W4J0414-07 (Distilled water)**

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<td>EPA 300.0</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0414
Reported: 30-Oct-14 12:03

BMO-2010-3B
SVL Sample ID: W4J0414-08 (Ground Water)
Sampled: 14-Oct-14 12:51
Received: 17-Oct-14
Sampled By: DP

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<td>Sulfate as SO4</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4J0414
Reported: 30-Oct-14 12:03

---

Client Sample ID: DUP20141014
SVL Sample ID: W4J0414-09 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Reported: 30-Oct-14 12:03

**Project Name:** Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W4J0414

---

**Freeport McMoRan - Copper Queen Branch**

36 West Highway 92

Bisbee, AZ 85603

---

**Client Sample ID:** BMO-2010-3M

**SVL Sample ID:** W4J0414-10 (Ground Water)

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<table>
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</table>

---

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

---

SVL holds the following certifications:
Client Sample ID: **AWC-05**  
SVL Sample ID: **W4J0414-11 (Ground Water)**

<table>
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<th>MDL</th>
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<tbody>
<tr>
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<td>mg/L</td>
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<td>W444054</td>
<td>JMW</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Client Sample ID: **AWC-03**  
SVL Sample ID: **W4J0414-12 (Ground Water)**  
Sample Report Page 1 of 1

<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Client Sample ID: **AWC-04**  
SVL Sample ID: **W4J0414-13 (Ground Water)**  
Sampled: 15-Oct-14 11:59  
Received: 17-Oct-14  
Sampled By: DP  
Sampled: 15-Oct-14 11:59  
Received: 17-Oct-14  
Sampled By: DP

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<th>MDL</th>
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<th>Notes</th>
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<tbody>
<tr>
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<td>JMW</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

SVL holds the following certifications:  
Freeport McMoRan - Copper Queen Branch
36 West Highway 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0414
Reported: 30-Oct-14 12:03

---

Client Sample ID: AWC-02
SVL Sample ID: W4J0414-14 (Ground Water)
Sampled: 15-Oct-14 14:20
Received: 17-Oct-14
Sampled By: DP

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<tr>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
### Work Order Report Page 16 of 18

**Client Sample ID:** TM-10  
**SVL Sample ID:** W4J0414-15 (Ground Water)  
**Sample Report Page 1 of 1**

<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

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SVL holds the following certifications:

## Quality Control - BLANK Data

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<th>Notes</th>
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<tbody>
<tr>
<td><strong>Anions by Ion Chromatography</strong></td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>&lt;0.30</td>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>&lt;0.30</td>
<td>0.05</td>
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<td>27-Oct-14</td>
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<td></td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>0.30</td>
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## Quality Control - LABORATORY CONTROL SAMPLE Data

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<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>90 - 110</td>
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## Quality Control - MATRIX SPIKE Data

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<tr>
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<td>R &gt; 4S</td>
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<td>W444117</td>
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<tr>
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<tr>
<td><strong>Dissolved Anions by Ion Chromatography</strong></td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>39.5</td>
<td>29.4</td>
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<tr>
<td></td>
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<td>28-Oct-14</td>
<td>M1</td>
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<tr>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>R &gt; 4S</td>
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<td>W444068</td>
<td>28-Oct-14</td>
<td>D2,M3</td>
</tr>
<tr>
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<td>Sulfate as SO4</td>
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</table>

## Quality Control - MATRIX SPIKE DUPLICATE Data

<table>
<thead>
<tr>
<th>Method</th>
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<th>Units</th>
<th>MSD Result</th>
<th>Spike Result</th>
<th>Spike Level</th>
<th>%R</th>
<th>RPD Limit</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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<td>Sulfate as SO4</td>
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<tr>
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<tr>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>39.8</td>
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<td>20</td>
<td>W444068</td>
<td>27-Oct-14</td>
</tr>
</tbody>
</table>
Notes and Definitions

D1  Sample required dilution due to matrix.
D2  Sample required dilution due to high concentration of target analyte.
M1  Matrix spike recovery was high, but the LCS recovery was acceptable.
M3  The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
R > 4S % recovery not applicable, sample concentration more than four times greater than spike level
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable
ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
<th>Notes</th>
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</thead>
</table>

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL. Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

SVL holds the following certifications:
### Dissolved Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
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<th>Units</th>
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<th>MDL</th>
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<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
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<td>JMW</td>
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</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilation</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
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<td>W442366</td>
<td>JMW</td>
<td>10/18/14 01:08</td>
<td>D2</td>
</tr>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
Freeport McMoRan - Copper Queen Branch  
36 West Highway 92  
Bisbee, AZ 85603

Client Sample ID: **HOWARD NR**  
SVL Sample ID: **W4J0359-03 (Ground Water)**

<table>
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<th>Result</th>
<th>Units</th>
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<th>MDL</th>
<th>Dilation</th>
<th>Sampled By</th>
<th>Sampled</th>
<th>Received</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
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<td>Sulfate as SO4</td>
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<td>mg/L</td>
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</tr>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Quality Control - BLANK Data

<table>
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<th>MDL</th>
<th>MRL</th>
<th>Batch ID</th>
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<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>0.30</td>
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### Quality Control - LABORATORY CONTROL SAMPLE Data

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<th>Units</th>
<th>LCS Result</th>
<th>LCS True</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
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<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
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### Quality Control - MATRIX SPIKE Data

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<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
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<tr>
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<td>90 - 110</td>
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<td>17-Oct-14</td>
<td>D2,M3</td>
</tr>
<tr>
<td></td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>10.6</td>
<td>&lt;0.30</td>
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<td>90 - 110</td>
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### Quality Control - MATRIX SPIKE DUPLICATE Data

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<th>Notes</th>
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<td>Sulfate as SO4</td>
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<td>18-Oct-14</td>
<td>D2,M3</td>
</tr>
</tbody>
</table>

### Notes and Definitions

**D2**  
Sample required dilution due to high concentration of target analyte.

**M3**  
The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.

**LCS**  
Laboratory Control Sample (Blank Spike)

**RPD**  
Relative Percent Difference

**UDL**  
A result is less than the detection limit

**R > 4S**  
% recovery not applicable, sample concentration more than four times greater than spike level

**<RL**  
A result is less than the reporting limit

**MRL**  
Method Reporting Limit

**MDL**  
Method Detection Limit

**N/A**  
Not Applicable
## ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
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<td>ANDERSON 396</td>
<td>W4J0257-04</td>
<td>Ground Water</td>
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</tbody>
</table>

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Sample preparation is defined by the client as per their Data Quality Objectives.

This report supersedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

### Case Narrative

10/24/14 (jk) - Revised Report. Client requested reanalysis for Sulfate for Sample 4. Original results were confirmed. Original and reanalysis (in duplicate) results are reported.
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Bisbee, AZ 85603

Reported: 24-Oct-14 15:29

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W4J0257

Client Sample ID: ANDERSON 458
SVL Sample ID: W4J0257-01 (Ground Water)

Sample Report Page 1 of 1

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilation</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
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<th>Units</th>
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<th>MDL</th>
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<th>Batch</th>
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<tbody>
<tr>
<td>EPA 300.0</td>
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<td>&lt; 0.30</td>
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<td>0.30</td>
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<td>JMW</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0257
Reported: 24-Oct-14 15:29

Client Sample ID: EQB20141006
SVL Sample ID: W4J0257-03 (Distilled Water)
Sampled: 06-Oct-14 15:36
Received: 10-Oct-14
Sampled By: DP

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<th>MDL</th>
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<th>Analyst</th>
<th>Analyzed</th>
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<tbody>
<tr>
<td>Anions by Ion Chromatography</td>
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<td>EPA 300.0</td>
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<td>&lt; 0.30</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
### Dissolved Anions by Ion Chromatography

<table>
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<tr>
<th>Method</th>
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<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilation</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
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<td>7.50</td>
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<td>10/23/14 16:15</td>
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</tbody>
</table>

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John Kern  
Laboratory Director
**Freeport McMoRan - Bisbee**  
36 West Hwy 92  
Bisbee, AZ 85603

### Project Name: Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W4J0257  
**Reported:** 24-Oct-14 15:29

---

<table>
<thead>
<tr>
<th>Method</th>
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<th>Batch</th>
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</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

| Work Order: | W4J0257 |
| Reported:   | 24-Oct-14 15:29 |

Client Sample ID: **PARRA**
SVL Sample ID: **W4J0257-06 (Ground Water)**

<table>
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<tbody>
<tr>
<td>Result</td>
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<tr>
<td>Notes</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

---

John Kern  
Laboratory Director
**Freeport McMoRan - Bisbee**  
36 West Hwy 92  
Bisbee, AZ 85603  

---

**Project Name: Copper Queen Branch Sulfate Mitigation Order**  
**Work Order:** W4J0257  
**Reported:** 24-Oct-14 15:29

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<table>
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<tr>
<th>Method</th>
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<th>Result</th>
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<th>RL</th>
<th>MDL</th>
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<th>Batch</th>
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<tbody>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  

---

**Sample Report Page 1 of 1**

---

**Sampled By:** DP  
**Received:** 10-Oct-14 12:25  
**Sampled:** 07-Oct-14 12:25

---

**SVL Sample ID:** W4J0257-07 (Ground Water)  
**Client Sample ID:** PIONKE517

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**Reported: Work Order:** W4J0257  
**Reported:** 24-Oct-14 15:29

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**Sampled:** 07-Oct-14 12:25  
**Received:** 10-Oct-14  
**Sampled By:** DP  
**Sampled:** 07-Oct-14 12:25

---

**SVL Sample ID:** W4J0257-07 (Ground Water)  
**Client Sample ID:** PIONKE517

---

John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

**Project Name:** Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W4J0257

**Reported:** 24-Oct-14 15:29

---

**Client Sample ID:** McCONNELL265

**SVL Sample ID:** W4J0257-08 (Ground Water)

**Sample Report Page 1 of 1**

<table>
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<th>MDL</th>
<th>Dilation</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
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<td>Sulfate as SO4</td>
<td>968</td>
<td>mg/L</td>
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<td>JMW</td>
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</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

---

SVL holds the following certifications:

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John Kern
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0257
Reported: 24-Oct-14 15:29

Client Sample ID: COOPER
SVL Sample ID: W4J0257-10 (Ground Water)
Sample Report Page 1 of 1

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<td>by Ion Chromatography</td>
<td></td>
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John Kern
Laboratory Director
### Dissolved Anions by Ion Chromatography

**Method**
- EPA 300.0

**Sample ID**
- W4J0257-11 (Ground Water)

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<td>6.35</td>
<td>mg/L</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Reported:
Work Order: W4J0257

Project Name: Copper Queen Branch Sulfate Mitigation Order

Client Sample ID: FRANCO383
SVL Sample ID: W4J0257-12 (Ground Water)

<table>
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<td>Sulfate as SO4</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
### Dissolved Anions by Ion Chromatography

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<th>Result</th>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W4J0257
Reported: 24-Oct-14 15:29

Client Sample ID: WEISKOPF802
SVL Sample ID: W4J0257-14 (Ground Water)

Sample Report Page 1 of 1

<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
Quality Control - BLANK Data

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Dissolved Anions by Ion Chromatography

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<th>Result</th>
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<th>MRL</th>
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<td>EPA 300.0</td>
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<td>&lt;0.30</td>
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<tr>
<td>EPA 300.0</td>
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<td>mg/L</td>
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Quality Control - LABORATORY CONTROL SAMPLE Data

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<th>LCS Result</th>
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<th>% Rec.</th>
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<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>9.96</td>
<td>10.0</td>
<td>99.6</td>
<td>90 - 110</td>
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<td>16-Oct-14</td>
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<td>EPA 300.0</td>
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Quality Control - MATRIX SPIKE Data

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<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>28.2</td>
<td>18.0</td>
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<td>90 - 110</td>
<td>W442318</td>
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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>232</td>
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<td>D2,M3</td>
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<tr>
<td>EPA 300.0</td>
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<td>10.6</td>
<td>&lt;0.30</td>
<td>10.0</td>
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<td>18-Oct-14</td>
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Quality Control - MATRIX SPIKE DUPLICATE Data

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<th>MSD Result</th>
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<td>mg/L</td>
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<td>28.2</td>
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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>231</td>
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<td>D2,M3</td>
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<td>W443252</td>
<td>23-Oct-14</td>
<td>M1</td>
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</table>
Notes and Definitions

D2  Sample required dilution due to high concentration of target analyte.
M1  Matrix spike recovery was high, but the LCS recovery was acceptable.
M3  The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
N10 After reanalysis original results are confirmed.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
R > 4S % recovery not applicable, sample concentration more than four times greater than spike level
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable
## Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** Anderson 396  
**ADWR No:**  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/16/14  
**Weather:** Cloudy 75°  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>285</th>
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</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>152.7</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>345 x3 = 1035</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
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<tr>
<td>6</td>
<td>1.47</td>
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<tr>
<td>8</td>
<td>2.61</td>
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<tr>
<td>10</td>
<td>4.08</td>
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</tbody>
</table>

Total Volume Purged (gal):

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Pump On</td>
<td>3:50</td>
<td>DP</td>
<td></td>
<td>7.13</td>
<td>27.5</td>
<td>974</td>
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<td>3:50</td>
<td>DP</td>
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<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

Sample Collection Point:

**Sample ID**  
**Time**  
**Container Type**  
**Volume**  
**No. of Containers**  
**Analysis Method**  
**Preservative**  
**Filtered (y/n)**

| Anderson 396 | 16:00 | Poly | 250mL | 1 | 300.0 | NP | Y |

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:** Duplicate 2014 1006 @ 16:05 DP 16:05  
**labeled as DUP 2014 1006**


---

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet 2013-07-9
# Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** Anderson 458  
**ADWR No:** 221458  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/6/14  
**Weather:** Cloudy 70°-80°F  
**Sampler:** DEP

## WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>Casing Diameter (ft)</th>
<th>Casing Depth (ft)</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
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</thead>
<tbody>
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<td>8.0</td>
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<td>734</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):** 640

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
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<td>14:05</td>
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<td>8</td>
<td>160</td>
<td>8.03</td>
<td>24.7</td>
<td>393</td>
<td></td>
</tr>
<tr>
<td>14:25</td>
<td>40 m</td>
<td>8</td>
<td>400</td>
<td>8.04</td>
<td>25.6</td>
<td>387</td>
<td></td>
</tr>
<tr>
<td>14:45</td>
<td>60 m</td>
<td>8</td>
<td>600</td>
<td>8.05</td>
<td>25.4</td>
<td>383</td>
<td></td>
</tr>
<tr>
<td>15:05</td>
<td>80 m</td>
<td>8</td>
<td>800</td>
<td>8.06</td>
<td>25.6</td>
<td>384</td>
<td></td>
</tr>
</tbody>
</table>

**Pump Off**

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm)

## SAMPLE INFORMATION

**Sample Collection Point:** Spigot near pressure tanks in shed

**Sample ID**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson 458</td>
<td>15:41</td>
<td>Poly</td>
<td>500 mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Purge minimum 1 well volume, and stable parameters

**Additional Comments:**
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: AW-C-02  
ADWR No: 614586  
Client: Freeport Copper Queen Branch  
Date: 10/15/14  
Weather: Mostly Sunny, high 70's  
Sampler: DEP

WELL DATA

Well Depth (ft bgs): 333  
Casing Diameter (in): 20  
Static Water Level (ft bgs): 122.52  
Casing Volume (gal): 3403 x 3 = 10,209  
Total Volume Purged (gal): 11,500

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:55</td>
<td>20 m</td>
<td>115</td>
<td>2300</td>
<td>7.24</td>
<td>23.2</td>
<td>528</td>
<td></td>
</tr>
<tr>
<td>13:15</td>
<td>40 m</td>
<td>115</td>
<td>4600</td>
<td>7.28</td>
<td>22.4</td>
<td>517</td>
<td></td>
</tr>
<tr>
<td>13:35</td>
<td>60 m</td>
<td>115</td>
<td>6900</td>
<td>7.29</td>
<td>23.1</td>
<td>522</td>
<td></td>
</tr>
<tr>
<td>13:55</td>
<td>80 m</td>
<td>115</td>
<td>9200</td>
<td>7.27</td>
<td>22.9</td>
<td>519</td>
<td></td>
</tr>
<tr>
<td>14:15</td>
<td>100 m</td>
<td>115</td>
<td>11500</td>
<td>7.26</td>
<td>23.2</td>
<td>520</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot in pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-C-02</td>
<td>14:30</td>
<td>Poly</td>
<td>2.50ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments:

- Spigot near well head
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: AWG-03  
ADWR No: 616585  
Client: Freeport Copper Queen Branch  
Date: 10/15/14  
Weather: Sunny 70°F  
Sampler: DEP

**WELL DATA**

- Well Depth (ft bsl): 270
- Casing Diameter (in): 16
- Static Water Level (ft bsl): 119.6
- Casing Volume (gal): 1530 x 3 = 4590
- Total Volume Purged (gal): 6570

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:50 Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:53</td>
<td>3 min</td>
<td>730</td>
<td>2190</td>
<td>7.38</td>
<td>22.4</td>
<td>513</td>
<td></td>
</tr>
<tr>
<td>10:56</td>
<td>6 min</td>
<td>730</td>
<td>4380</td>
<td>7.40</td>
<td>22.2</td>
<td>516</td>
<td></td>
</tr>
<tr>
<td>10:59</td>
<td>9 min</td>
<td>730</td>
<td>6570</td>
<td>7.38</td>
<td>22.2</td>
<td>506</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm)

**SAMPLE INFORMATION**

- Sample Collection Point: Spigot in pressure tanks in shed
- Sample ID: AWG-03
- Time: 11:05
- Container Type: Poly
- Volume: 250ml
- No. of Containers: 1
- Analysis Method: 300.0
- Preservative: N/A
- Filtered: Y

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

Spigot off main pipe after check valve.

N:\Projects\G & K\201203\Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: AWC-04
ADWR No: 016584

Client: Freeport Copper Queen Branch
Date: 10/15/14
Weather: Sunny 70°
Sampler: DEP

WELL DATA

Well Depth (ft bgs): 337
Casing Diameter (in): 16
Static Water Level (ft bgs): 114.29
Casing Volume (gal): 2283 x 3 = 6849

Total Volume Purged (gal): 9240

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:44</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:47</td>
<td>3m</td>
<td>770</td>
<td>2310</td>
<td>6.97</td>
<td>22.2</td>
<td>12180</td>
<td>687</td>
</tr>
<tr>
<td>11:50</td>
<td>6m</td>
<td>770</td>
<td>4620</td>
<td>6.98</td>
<td>21.6</td>
<td>684</td>
<td></td>
</tr>
<tr>
<td>11:53</td>
<td>9m</td>
<td>770</td>
<td>6930</td>
<td>6.98</td>
<td>21.5</td>
<td>692</td>
<td></td>
</tr>
<tr>
<td>11:56</td>
<td>12m</td>
<td>770</td>
<td>9240</td>
<td>7.01</td>
<td>21.9</td>
<td>688</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Sprigat near pressure tanks in shed

Sample ID: AWC-04

<table>
<thead>
<tr>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:59</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300-0</td>
<td>N</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:
Sprigat off main pipe near pump
## Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Date:** 10/15/14  
**Well ID:** AWC-05  
**Weather:** Sunny 70°F  
**ADWR No:** 590620  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bgs)</td>
<td>1183</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>16</td>
</tr>
<tr>
<td>Static Water Level (ft bwp)</td>
<td>316.16</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>8739 x3 = 26,217</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td></td>
</tr>
</tbody>
</table>

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:40</td>
<td>15m</td>
<td>600</td>
<td>9000</td>
<td>7.29</td>
<td>22.1</td>
<td>473</td>
<td></td>
</tr>
<tr>
<td>9:55</td>
<td>30m</td>
<td>600</td>
<td>18000</td>
<td>7.34</td>
<td>22.5</td>
<td>451</td>
<td></td>
</tr>
<tr>
<td>10:10</td>
<td>45m</td>
<td>600</td>
<td>27000</td>
<td>7.38</td>
<td>23.0</td>
<td>452</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

### SAMPLE INFORMATION

- **Sample Collection Point:** Spigot near pressure tanks in shed
- **Sample ID:** AWC-05  
  **Time:** 10:14  
  **Container Type:** Poly  
  **Volume:** 250ml  
  **No. of Containers:** 1  
  **Analysis Method:** 300.0  
  **Preservative:** NP  
  **Filtered (y/n):** Y

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

Spigot off main pipe after check valve.

---

N:\Projects\G & K255038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Format\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Banks 986
ADWR No: 047986

Client: Freeport Copper Queen Branch
Date: 10/21/14
Weather: Sunny 70's
Sampler: DEP

WELL DATA

Well Depth (ft bgs): 435
Casing Diameter (in): 2 233.96
Static Water Level (ft bgs): 303
Casing Volume (gal): 920

Total Volume Purged (gal): 920
Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45</td>
<td>15m</td>
<td>8</td>
<td>120</td>
<td>7.41</td>
<td>21.8</td>
<td>1184</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>30m</td>
<td>8</td>
<td>240</td>
<td>7.42</td>
<td>21.9</td>
<td>1185</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>45m</td>
<td>8</td>
<td>360</td>
<td>7.39</td>
<td>22.0</td>
<td>1179</td>
<td></td>
</tr>
<tr>
<td>11:30</td>
<td>60m</td>
<td>8</td>
<td>480</td>
<td>7.41</td>
<td>21.7</td>
<td>1161</td>
<td></td>
</tr>
<tr>
<td>11:45</td>
<td>75m</td>
<td>8</td>
<td>600</td>
<td>7.37</td>
<td>22.1</td>
<td>1164</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>90m</td>
<td>8</td>
<td>720</td>
<td>7.37</td>
<td>22.3</td>
<td>1157</td>
<td></td>
</tr>
<tr>
<td>12:15</td>
<td>105m</td>
<td>8</td>
<td>840</td>
<td>7.33</td>
<td>23.3</td>
<td>1165</td>
<td></td>
</tr>
<tr>
<td>12:25</td>
<td>115m</td>
<td>8</td>
<td>920</td>
<td>7.37</td>
<td>22.7</td>
<td>1158</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pump Off</td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

SAMPLE INFORMATION

Sample Collection Point: Wellhead spigot

Sample ID: Banks 986
Time: 12:37
Container Type: Poly
Volume: 250ml
No. of Containers: 1
Analysis Method: 300.0
Preservative: N
Filtered (y/n): Y

WATER LEVEL MEASUREMENT COLLECTION

☐ Water level measurement collected.
☒ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☒ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: Banks 987  
ADWR No: 647987  
Client: Freeport Copper Queen Branch  
Date: 10/21/14  
Weather: Sunny 70°

WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Water Level (ft bmg):</td>
<td>233.96</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>3 x 0 = 0</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch

Task No: 1  
Date: 10/23/14

Well ID: Bima  
Weather: Sunny 70°

ADWR No: 577927  
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>460</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>4</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>x3 =</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): No purge

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td>10:28</td>
<td></td>
<td>6.25</td>
<td>2.9</td>
<td>17.04</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 unit pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bima</td>
<td>Poly</td>
<td>250mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.

Other: No purge per owner request, 1 field reading

Additional Comments: Decom spigot
# Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Date:** 11/13/14  
**Well ID:** BMO 2008-5B  
**Weather:** Sunny  
**ADWR No:**  
**Sampler:** Christopher L. Swenson

## WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bgs)</td>
<td>285</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>5&quot;</td>
</tr>
<tr>
<td>Static Water Level (ft bgs)</td>
<td>150.78</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>$137 \times 3 = 411$</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td>675</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.06</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:55</td>
<td>5</td>
<td>27</td>
<td>138</td>
<td>6.90</td>
<td>21.9</td>
<td>757</td>
<td></td>
</tr>
<tr>
<td>12:01</td>
<td>14</td>
<td>27</td>
<td>405</td>
<td>2.82</td>
<td>21.8</td>
<td>756</td>
<td></td>
</tr>
<tr>
<td>12:10</td>
<td>25</td>
<td>27</td>
<td>175</td>
<td>2.92</td>
<td>21.9</td>
<td>755</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

## SAMPLE INFORMATION

**Sample Collection Point:**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO 2008-5B</td>
<td>12:10</td>
<td>S1</td>
<td>25.0</td>
<td>1</td>
<td>300</td>
<td>Te</td>
<td>Y</td>
</tr>
</tbody>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

## WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

**Additional Comments:** 134
## Groundwater Sampling Form

**Project No:** 267030  
**Well ID:** BM-2008-5M  
**Sampler:** Christopher L. Scarran

### WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl)</td>
<td>450</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bsl)</td>
<td>152.27</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>304 x 3 = 912</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td>920</td>
</tr>
</tbody>
</table>

### Field Sampling Data

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1055</td>
<td>5</td>
<td>18</td>
<td>90</td>
<td>7.15</td>
<td>22.4</td>
<td>611</td>
<td></td>
</tr>
<tr>
<td>1125</td>
<td>25</td>
<td>18</td>
<td>450</td>
<td>7.17</td>
<td>22.4</td>
<td>619</td>
<td></td>
</tr>
<tr>
<td>1155</td>
<td>45</td>
<td>18</td>
<td>810</td>
<td>7.14</td>
<td>22.3</td>
<td>610</td>
<td></td>
</tr>
<tr>
<td>1195</td>
<td>55</td>
<td>18</td>
<td>990</td>
<td>7.18</td>
<td>22.2</td>
<td>?</td>
<td></td>
</tr>
</tbody>
</table>

*FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm*

### Sample Information

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-2008-5M</td>
<td>1145</td>
<td>WC</td>
<td>250</td>
<td>1</td>
<td>300</td>
<td>I24</td>
<td>x</td>
</tr>
</tbody>
</table>

### Water Level Measurement Collection

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### Well Purging Information

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

298
**Groundwater Sampling Form**

**Project No:** 287030  
**Task No:**  
**Well ID:** BM-2008-6B  
**ADWR No:**  

**WELL DATA**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Casing Capacity per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.05</td>
</tr>
</tbody>
</table>

- **Well Depth (ft bgs):** 265
- **Casing Diameter (in):** 5
- **Static Water Level (ft bsm):** 195.74
- **Casing Volume (gal):**  72.6 x 3 = 212
- **Total Volume Purged (gal):** 225  

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1240</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1245</td>
<td>5</td>
<td>5.1</td>
<td>25</td>
<td>7.25</td>
<td>21.5</td>
<td>312</td>
<td></td>
</tr>
<tr>
<td>1255</td>
<td>15</td>
<td>5.1</td>
<td>75</td>
<td>7.22</td>
<td>21.4</td>
<td>309</td>
<td></td>
</tr>
<tr>
<td>1410</td>
<td>3</td>
<td>5.1</td>
<td>150</td>
<td>7.27</td>
<td>21.5</td>
<td>303</td>
<td></td>
</tr>
<tr>
<td>1425</td>
<td>45</td>
<td>5.1</td>
<td>225</td>
<td>7.23</td>
<td>21.6</td>
<td>308</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

**SAMPLE INFORMATION**

- **Sample Collection Point:**
  - **Sample ID:** BM-2008-6B  
  - **Time:** 1425  
  - **Container Type:** PL  
  - **Volume:** 250  
  - **No. of Containers:** 1  
  - **Analysis Method:** 800  
  - **Preservative:** Fe  
  - **Filtered (g/l):** x

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:  

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:  

**Additional Comments:**

- □
Groundwater Sampling Form

Project No: 287030  
Task No:  
Well ID: BMO-2008-BM  
ADWR No:  
Client: Freeport Copper Queen Branch  
Date: 11-13-14  
Weather: Sunny  
Sampler: Christopher L. Stewart

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Casing Volume (gal):** 258.7 x 3 = 776

**Total Volume Purged (gal):**

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time</th>
<th>Discharge Rate</th>
<th>Total Discharge</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:55</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:05</td>
<td>5</td>
<td>71</td>
<td>21</td>
<td>7.15</td>
<td>22.0</td>
<td>242</td>
<td></td>
</tr>
<tr>
<td>13:15</td>
<td>20</td>
<td>71</td>
<td>210</td>
<td>7.13</td>
<td>22.1</td>
<td>241</td>
<td></td>
</tr>
<tr>
<td>13:25</td>
<td>30</td>
<td>21</td>
<td>630</td>
<td>7.10</td>
<td>22.0</td>
<td>240</td>
<td></td>
</tr>
<tr>
<td>13:35</td>
<td>40</td>
<td>21</td>
<td>840</td>
<td>7.14</td>
<td>22.0</td>
<td>240</td>
<td></td>
</tr>
</tbody>
</table>

**Pump Off**

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

**SAMPLE INFORMATION**

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2008-BM</td>
<td>13:25</td>
<td>L</td>
<td>250</td>
<td>1</td>
<td>300</td>
<td>Tris</td>
<td>X</td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- [ ] Water level measurement collected.
- □ No water level measurement collected. No access to wellhead/No port in wellhead
- □ No water level measurement collected. Obstruction in well.
- □ No water level measurement collected. Well is pumping.
- □ Other:

**WELL PURGING INFORMATION**

- [X] Purged 3 well volumes and field parameters stabilized.
- □ Purged 3 well volumes based on previous water level and field parameters stabilized.
- □ Purged well until field parameters stabilized.
- □ Other:

Additional Comments:

257.7
Groundwater Sampling Form

Project No: 287030
Task No: 
Well ID: BMO-2010-1M7
ADWR No: 
Client: Freeport Copper Queen Branch
Date: 11-12-14
Weather: Sunny
Sampler: Christopher L. Sherman

WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>2.81</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td></td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gals)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0740</td>
<td>15</td>
<td>10</td>
<td>1.50</td>
<td>7.22</td>
<td>22.8</td>
<td>711</td>
<td></td>
</tr>
<tr>
<td>0840</td>
<td>60</td>
<td>5</td>
<td>3.75</td>
<td>7.42</td>
<td>23.0</td>
<td>728</td>
<td></td>
</tr>
<tr>
<td>0940</td>
<td>120</td>
<td>3</td>
<td>5.55</td>
<td>7.43</td>
<td>23.3</td>
<td>725</td>
<td></td>
</tr>
<tr>
<td>1040</td>
<td>180</td>
<td>3</td>
<td>7.33</td>
<td>7.42</td>
<td>23.4</td>
<td>729</td>
<td></td>
</tr>
<tr>
<td>1140</td>
<td>240</td>
<td>3</td>
<td>9.15</td>
<td>7.44</td>
<td>23.2</td>
<td>736</td>
<td></td>
</tr>
<tr>
<td>1240</td>
<td>300</td>
<td>3</td>
<td>10.20</td>
<td>7.43</td>
<td>23.4</td>
<td>733</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2010-1M7</td>
<td>12:15</td>
<td>FL</td>
<td>250</td>
<td>1</td>
<td>300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☒ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:

330.5
Groundwater Sampling Form

Project No: 287030
Task No:
Well ID: BM0-2010-2m
ADWR No:
Client: Freeport Copper Queen Branch
Date: 11-12-14
Weather:
Sampler: Christopher L. Shepman

WELL DATA

Well Depth (ft bsl): 380
Casing Diameter (in): 5
Static Water Level (ft bmsl): 263.19
Casing Volume (gal): 119 x 3 = 357
Total Volume Purged (gal):

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.06</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1230</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1240</td>
<td>10</td>
<td>27</td>
<td>270</td>
<td>5.55</td>
<td>21.3</td>
<td>2210</td>
<td></td>
</tr>
<tr>
<td>1250</td>
<td>20</td>
<td>27</td>
<td>540</td>
<td>4.88</td>
<td>21.9</td>
<td>2210</td>
<td></td>
</tr>
<tr>
<td>1300</td>
<td>30</td>
<td>27</td>
<td>810</td>
<td>6.59</td>
<td>21.3</td>
<td>2200</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 au pH, 2 degrees C, and 100 μS/cm

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (yn)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM0-2010-2m</td>
<td>1500</td>
<td>0L</td>
<td>2.50</td>
<td>1</td>
<td>300.0</td>
<td>Fe</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☒ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:

117
Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch  
Task No: 1  
Date: 10/14/14  
Well ID: BMO-2010-3B  
Weather: Sunny 70°F  
ADWR No: 219970  
Sampler: DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>119.16</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>214 \times 3 = 642</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>650</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot \times water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:35 PM</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>20 m</td>
<td>5</td>
<td>100</td>
<td>7.33</td>
<td>22.1</td>
<td>423</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>40 m</td>
<td>5</td>
<td>200</td>
<td>7.48</td>
<td>22.0</td>
<td>395</td>
<td></td>
</tr>
<tr>
<td>11:35</td>
<td>60 m</td>
<td>5</td>
<td>300</td>
<td>7.49</td>
<td>22.1</td>
<td>398</td>
<td></td>
</tr>
<tr>
<td>11:55</td>
<td>80 m</td>
<td>5</td>
<td>400</td>
<td>7.46</td>
<td>22.2</td>
<td>398</td>
<td></td>
</tr>
<tr>
<td>12:15</td>
<td>100 m</td>
<td>5</td>
<td>500</td>
<td>7.45</td>
<td>22.3</td>
<td>398</td>
<td></td>
</tr>
<tr>
<td>12:35</td>
<td>120 m</td>
<td>5</td>
<td>600</td>
<td>7.47</td>
<td>22.6</td>
<td>398</td>
<td></td>
</tr>
<tr>
<td>12:45</td>
<td>130 m</td>
<td>5</td>
<td>650</td>
<td>7.48</td>
<td>22.6</td>
<td>395</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

Sample Collection Point: Spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2010-3B</td>
<td>12:51</td>
<td>Poly</td>
<td>250 ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
<tr>
<td>DUP 2014_10_14</td>
<td>16:00</td>
<td>Poly</td>
<td>250 ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.

- [ ] No water level measurement collected. No access to wellhead/No port in wellhead

- [ ] No water level measurement collected. Obstruction in well.

- [ ] No water level measurement collected. Well is pumping.

- [ ] Other:

### WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.

- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.

- [ ] Purged well until field parameters stabilized.

- [ ] Other:

**Additional Comments:**

- [x] Spigot on wellhead under vault

- [ ] Duplicate taken at same time as 3B (false time)
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: BMO-2010-3M  
ADWR No: 219969  
Client: Freeport Copper Queen Branch  
Date: 10/14/14  
Weather: Sunny 70°

WELL DATA

Well Depth (ft bgs): 532
Casing Diameter (in): 5
Static Water Level (ft bgs): 121.87
Casing Volume (gal): 418 x 3 = 1255
Total Volume Purged (gal): 1450

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:09</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:29</td>
<td>20m</td>
<td>5</td>
<td>100</td>
<td>7.72</td>
<td>23.8</td>
<td>342</td>
<td>Faint Yellow, Faintsulfur</td>
</tr>
<tr>
<td>13:49</td>
<td>40m</td>
<td>5</td>
<td>200</td>
<td>7.58</td>
<td>24.4</td>
<td>370</td>
<td>Faint Yellow, odorless</td>
</tr>
<tr>
<td>14:09</td>
<td>60m</td>
<td>5</td>
<td>300</td>
<td>7.01</td>
<td>24.1</td>
<td>372</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>14:29</td>
<td>80m</td>
<td>5</td>
<td>400</td>
<td>7.42</td>
<td>24.4</td>
<td>364</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>14:39</td>
<td>90m</td>
<td>5</td>
<td>450</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:49</td>
<td>100m</td>
<td>5</td>
<td>500</td>
<td>7.61</td>
<td>24.6</td>
<td>368</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>15:09</td>
<td>120m</td>
<td>5</td>
<td>600</td>
<td>7.55</td>
<td>24.5</td>
<td>368</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>15:29</td>
<td>140m</td>
<td>5</td>
<td>700</td>
<td>7.57</td>
<td>24.9</td>
<td>367</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>15:49</td>
<td>160m</td>
<td>5</td>
<td>800</td>
<td>7.56</td>
<td>24.8</td>
<td>368</td>
<td>Pump Off 11</td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2010-3M</td>
<td>17:34</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

* Water level measurement collected.
  □ No water level measurement collected. No access to wellhead/No port in wellhead
  □ No water level measurement collected. Obstruction in well.
  □ No water level measurement collected. Well is pumping.
  □ Other:

WELL PURGING INFORMATION

□ Purged 3 well volumes and field parameters stabilized.
□ Purged 3 well volumes based on previous water level and field parameters stabilized.
□ Purged well until field parameters stabilized.
□ Other:

Additional Comments:
Spigot on well head under vault

N:\Projects\G & K\055C08_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet 2013-07-9
## WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>Casing Volume (gal)</th>
<th>Total Volume Purged (gal)</th>
</tr>
</thead>
</table>

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:09</td>
<td>180m</td>
<td>5</td>
<td>900</td>
<td>7.56</td>
<td>24.4</td>
<td>368</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>16:29</td>
<td>200m</td>
<td>5</td>
<td>1000</td>
<td>7.57</td>
<td>24.3</td>
<td>367</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>16:49</td>
<td>220m</td>
<td>5</td>
<td>1100</td>
<td>7.60</td>
<td>23.8</td>
<td>367</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>17:09</td>
<td>240m</td>
<td>5</td>
<td>1200</td>
<td>7.57</td>
<td>24.1</td>
<td>369</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>17:29</td>
<td>260m</td>
<td>5</td>
<td>1300</td>
<td>7.57</td>
<td>24.1</td>
<td>367</td>
<td>Clear, odorless</td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

## SAMPLE INFORMATION

Sample Collection Point: see page 1

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments:
**Groundwater Sampling Form**

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** BM0-2012-1M  
**Date:** 11-13-14  
**Weather:** Sunny  
**Sampler:** Christopher L. Stewin

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>405</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>225.37</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>183 x 3 = 549</td>
</tr>
</tbody>
</table>

#### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.55</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal):  
Casing Volume = gallons/foot x water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Conductance (uS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0710</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0720</td>
<td>10</td>
<td>10</td>
<td>6.0</td>
<td>7.09</td>
<td>22.6</td>
<td>834</td>
<td></td>
</tr>
<tr>
<td>0740</td>
<td>30</td>
<td>4</td>
<td>180</td>
<td>7.18</td>
<td>22.8</td>
<td>830</td>
<td></td>
</tr>
<tr>
<td>0750</td>
<td>60</td>
<td>6</td>
<td>360</td>
<td>7.12</td>
<td>22.7</td>
<td>837</td>
<td></td>
</tr>
<tr>
<td>0845</td>
<td>95</td>
<td>4</td>
<td>570</td>
<td>7.10</td>
<td>22.6</td>
<td>839</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 uS/cm

### SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM0-2012-1M</td>
<td>0845</td>
<td>PL</td>
<td>250</td>
<td>1</td>
<td>300.0</td>
<td>Yes</td>
<td>X</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments:

179.6
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Burke
ADWR No: 212248

Client: Freeport Copper Queen Branch
Date: 10/21/14
Weather: Sunny 70°
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft b.s.)</th>
<th>781</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft b.m.)</td>
<td>594.68</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>x3 =</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td></td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:50</td>
<td>5 min</td>
<td>~3</td>
<td>15</td>
<td>8.01</td>
<td>24.8</td>
<td>469</td>
<td></td>
</tr>
<tr>
<td>13:05</td>
<td>10 min</td>
<td>~3</td>
<td>30</td>
<td>8.03</td>
<td>21.5</td>
<td>461</td>
<td></td>
</tr>
<tr>
<td>13:00</td>
<td>15 min</td>
<td>~3</td>
<td>45</td>
<td>8.05</td>
<td>22.0</td>
<td>459</td>
<td></td>
</tr>
<tr>
<td>13:05</td>
<td>20 min</td>
<td>~3</td>
<td>60</td>
<td>8.06</td>
<td>22.2</td>
<td>456</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot near pressure tank at large green tank

Sample ID: Burke

<table>
<thead>
<tr>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:05</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

X Water level measurement collected.

□ No water level measurement collected. No access to wellhead/No port in wellhead

□ No water level measurement collected. Obstruction in well.

□ No water level measurement collected. Well is pumping.

□ Other:

WELL PURGING INFORMATION

□ Purged 3 well volumes and field parameters stabilized.

□ Purged 3 well volumes based on previous water level and field parameters stabilized.

□ Purged well until field parameters stabilized.

Other: Purge from 20,000 gall tank, and stable parameters

Additional Comments:

N:\Projects\G & K0355038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet 2013-07-9
**Groundwater Sampling Form**

| Project No: | 287030 |
| Task No: | 1 |
| Well ID: | Chambers |
| ADWR No: | 629807 |
| Client: | Freeport Copper Queen Branch |
| Date: | 10/17/14 |
| Weather: | Sunny 70°F start 60°F |
| Sampler: | DEP |

### WELL DATA

| Well Depth (ft bis): | 245 |
| Casing Diameter (in): | 6 |
| Static Water Level (ft bmp): | x3 |
| Casing Volume (gal): | Total Volume Purged (gal): 144 |

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Size (inches)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:03</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:00</td>
<td>3 m</td>
<td>12</td>
<td>36</td>
<td>7.04</td>
<td>21.6</td>
<td>547</td>
</tr>
<tr>
<td>09:06</td>
<td>6 m</td>
<td>12</td>
<td>72</td>
<td>7.26</td>
<td>22.2</td>
<td>466</td>
</tr>
<tr>
<td>09:09</td>
<td>9 m</td>
<td>12</td>
<td>108</td>
<td>7.29</td>
<td>22.4</td>
<td>457</td>
</tr>
<tr>
<td>09:12</td>
<td>12 m</td>
<td>12</td>
<td>144</td>
<td>7.31</td>
<td>22.5</td>
<td>456</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Spigot in yard south of house east side

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chambers</td>
<td>09:23</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>y</td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

Previsus sampling spigot, sink, counter no longer exists.
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Cooper
ADWR No: 623564

Client: Freeport Copper Queen Branch
Date: 10/8/14
Weather: Mostly cloudy ~ 70°F
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>325</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>120</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>120</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:40</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45</td>
<td>5m</td>
<td>8</td>
<td>40</td>
<td>7.08</td>
<td>23.0</td>
<td>496</td>
<td></td>
</tr>
<tr>
<td>10:50</td>
<td>10m</td>
<td>8</td>
<td>80</td>
<td>7.34</td>
<td>23.1</td>
<td>406</td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>15m</td>
<td>8</td>
<td>120</td>
<td>7.37</td>
<td>23.5</td>
<td>408</td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot north side of house

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooper</td>
<td>10:59</td>
<td>Poly</td>
<td>500ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☐ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☒ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☒ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:
Groundwater Sampling Form

Project No: 287030
Task No:  
Well ID: Cooper C
ADWR No:  

Client: Freeport Copper Queen Branch
Date: 11-13-19
Weather: Sunny
Sampler: Christopher L. Shumway

**WELL DATA**

<table>
<thead>
<tr>
<th>Well Depth (ft lbs)</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
<td>1.02</td>
</tr>
<tr>
<td>Static Water Level (ft bmg):</td>
<td>162.48</td>
<td>2.61</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>84 x3 = 252</td>
<td></td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:10</td>
<td>10</td>
<td>8.5</td>
<td>85</td>
<td>6.88</td>
<td>28.2</td>
<td>1520</td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>20</td>
<td>8.5</td>
<td>120</td>
<td>6.85</td>
<td>22.5</td>
<td>1520</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>30</td>
<td>8.5</td>
<td>120</td>
<td>6.87</td>
<td>22.4</td>
<td>1520</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

**SAMPLE INFORMATION**

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooper C</td>
<td>10:30</td>
<td>PL</td>
<td>250</td>
<td>1</td>
<td>300</td>
<td>Ice</td>
<td>X</td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

☑ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

**WELL PURGING INFORMATION**

☑ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:

575
## Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Date:** 10/14/14  
**Well ID:**  
**Weather:** Sunny high 70\(^\circ\)  
**ADWR No:** 644927  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Well Depth (ft bgs):** 200  
**Casing Diameter (in):** 6  
**Static Water Level (ft bnp):** 97.22  
**Casing Volume (gal):** 154 \( \times 3 = 461 \)  
**Total Volume Purged (gal):** 650  

**Casing Volume = gallons/foot \times \text{water column (feet)}**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp ((^\circ)C)</th>
<th>Specific Conductance ((\mu S/cm))</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:05</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:15</td>
<td></td>
<td>10</td>
<td>13</td>
<td>130</td>
<td>7.02</td>
<td>22.3</td>
<td>1861</td>
</tr>
<tr>
<td>16:25</td>
<td></td>
<td>20</td>
<td>13</td>
<td>260</td>
<td>7.06</td>
<td>22.0</td>
<td>1812</td>
</tr>
<tr>
<td>16:35</td>
<td></td>
<td>30</td>
<td>13</td>
<td>390</td>
<td>7.10</td>
<td>21.8</td>
<td>1758</td>
</tr>
<tr>
<td>16:45</td>
<td></td>
<td>40</td>
<td>13</td>
<td>520</td>
<td>7.08</td>
<td>21.6</td>
<td>1729</td>
</tr>
<tr>
<td>16:55</td>
<td></td>
<td>50</td>
<td>13</td>
<td>650</td>
<td>7.12</td>
<td>21.3</td>
<td>1706</td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 \(\mu S/cm\)

### SAMPLE INFORMATION

**Sample Collection Point:** Well head spigot  

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodson</td>
<td>16:59</td>
<td>Poly</td>
<td>250mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

✓ Water level measurement collected.  
☐ No water level measurement collected. No access to wellhead/No port in wellhead  
☐ No water level measurement collected. Obstruction in well.  
☐ No water level measurement collected. Well is pumping.  
☐ Other:

### WELL PURGING INFORMATION

✓ Purged 3 well volumes and field parameters stabilized.  
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.  
☐ Purged well until field parameters stabilized.  
☐ Other:

### Additional Comments:
# Groundwater Sampling Form

**Project No:** 055038  
**Task No:** 1  
**Well ID:** Durazo  
**ADWR No:** NR  
**Date:** 12/19/14  
**Weather:** Sunny, 70°

## WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: NO PURGE

Additional Comments: Well is disconnected, no purge trouble to get sampler. Down well an port is twisted shut.
Groundwater Sampling Form

Project No: 287030
Client: Freeport Copper Queen Branch
Task No: 1
Date: 10/22/14
Well ID: East
Weather: Sunny 70°
Sampler: DEP
ADWR No: 599769

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>12.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>67.75</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>84 x3 = 252</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>260</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): 260
Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:45</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:53</td>
<td>Pump On</td>
<td>8</td>
<td>80</td>
<td>7.25</td>
<td>21.1</td>
<td>614</td>
<td></td>
</tr>
<tr>
<td>14:01</td>
<td></td>
<td>16</td>
<td>160</td>
<td>7.21</td>
<td>20.9</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>14:11</td>
<td></td>
<td>26</td>
<td>260</td>
<td>7.23</td>
<td>22.8</td>
<td>601</td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

Pump Off

SAMPLE INFORMATION

Sample Collection Point: Wellhead spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>East</td>
<td>14:17</td>
<td>Poly</td>
<td>250mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☑ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☑ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments:
**Groundwater Sampling Form**

**Client:** Freeport Copper Queen Branch  
**Date:** 10/22/14  
**Weather:** Sunny 70°

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in.)</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Well Depth (ft bsl):** 345  
**Static Water Level (ft bsl):** Use 218.41 from 1/18/13  
**Casing Diameter (in.):** 6  
**Casing Volume (gal):** $184 \times 3 = 552$  
**Total Volumes Purged (gal):** 560  

**Casing Volume = gallons/foot * water column (feet)**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>16:30</td>
<td>7</td>
<td>140</td>
<td>7.32</td>
<td>22.5</td>
<td>421</td>
<td></td>
</tr>
<tr>
<td>16:50</td>
<td>40</td>
<td>7</td>
<td>280</td>
<td>7.39</td>
<td>21.7</td>
<td>405</td>
<td></td>
</tr>
<tr>
<td>17:10</td>
<td>60</td>
<td>7</td>
<td>420</td>
<td>7.41</td>
<td>21.4</td>
<td>403</td>
<td></td>
</tr>
<tr>
<td>17:30</td>
<td>80</td>
<td>7</td>
<td>560</td>
<td>7.43</td>
<td>21.4</td>
<td>406</td>
<td></td>
</tr>
</tbody>
</table>

**Pump Off**

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Wellhead spigot hand filter

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Echave</td>
<td>17:54</td>
<td>Poly</td>
<td>250mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y(hand)</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:** Place tank fill hose end high so tank doesn't siphon.
Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch

Task No: 1  
Date: 10/21/14

Well ID: Epple 641  
Weather: Sunny 60°

ADWR No: 805641  
Sampler: DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bils):</th>
<th>265</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bmrp):</td>
<td>24.56</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>6.24 ( \times 3 = 18.78 )</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>600</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot \* water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:45</td>
<td>15m</td>
<td>10</td>
<td>150</td>
<td>7.07</td>
<td>22.0</td>
<td>673</td>
<td></td>
</tr>
<tr>
<td>09:00</td>
<td>30m</td>
<td>10</td>
<td>300</td>
<td>7.15</td>
<td>21.9</td>
<td>668</td>
<td></td>
</tr>
<tr>
<td>09:15</td>
<td>45m</td>
<td>10</td>
<td>450</td>
<td>7.14</td>
<td>21.7</td>
<td>660</td>
<td></td>
</tr>
<tr>
<td>09:30</td>
<td>60m</td>
<td>10</td>
<td>600</td>
<td>7.22</td>
<td>22.2</td>
<td>659</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

Sample Collection Point: wellhead spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPEP009</td>
<td>08:30</td>
<td>Poly</td>
<td>250 ml</td>
<td>1</td>
<td>300.0</td>
<td>N/A</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other: Purge minimum 1 well volume, and stable parameters

### WELL PURGING INFORMATION

- Purge 3 well volumes and field parameters stabilized.
- Purge 3 well volumes based on previous water level and field parameters stabilized.
- Purge well until field parameters stabilized.
- Other: Purge minimum 1 well volume, and stable parameters

Additional Comments:

---

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Orders\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch  
Task No: 1  
Date: 10/8/14  
Well ID: Franco 101  
Weather: Mostly cloudy, windy, 72°F  
ADWR No: 500101  
Sampler: DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>2</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Capacity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gallons per Linear Foot</td>
<td>0.16</td>
<td>0.65</td>
<td>1.02</td>
<td>1.47</td>
<td>2.61</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

Sample Collection Point:

| Sample ID | Time | Container Type | Volume | No. of Containers | Analysis Method | Preservative | Filtered (y/n) |
|-----------|------|----------------|--------|-------------------|-----------------|--------------|----------------|----------------|
| WLO       |      |                |        |                   |                 |              |                |

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments: WLO
**Groundwater Sampling Form**

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Date:** 10/18/14  
**Well ID:** Franco 383  
**Weather:** Cloudy, 68°F

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>711</td>
<td>Nominal Size (inches)</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>196.86</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>524 x3 = 1573</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>440</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:25</td>
<td>14</td>
<td>15m</td>
<td>210</td>
<td>7.39</td>
<td>24.2</td>
<td>949</td>
<td>Pump On</td>
</tr>
<tr>
<td>14:40</td>
<td>14</td>
<td>30m</td>
<td>420</td>
<td>7.43</td>
<td>23.8</td>
<td>956</td>
<td></td>
</tr>
<tr>
<td>14:55</td>
<td>14</td>
<td>45m</td>
<td>630</td>
<td>7.41</td>
<td>23.5</td>
<td>955</td>
<td></td>
</tr>
<tr>
<td>15:10</td>
<td>14</td>
<td>60m</td>
<td>840</td>
<td>7.47</td>
<td>23.5</td>
<td>954</td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Franco 383</td>
<td>15:18</td>
<td>Poly</td>
<td>500ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: Purge minimum 2 volumes, and stable parameters

**Additional Comments:**
**Groundwater Sampling Form**

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Date:** 11-13-14  
**Weather:** Sunny  
**Sampler:** Christopher L. Stromer

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bsl):</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>5'</td>
</tr>
<tr>
<td>Static Water Level (ft bsl):</td>
<td>170.81</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>$132 \times 3 = 396$</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>528</td>
</tr>
</tbody>
</table>

**Nominal Size (inches) | Gallons per Linear Foot**
---|---
2 | 0.18
4 | 0.65
5 | 1.02
6 | 1.47
8 | 2.61
10 | 4.08

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (GU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0940</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0920</td>
<td>10</td>
<td>17.6</td>
<td>17.6</td>
<td>6.90</td>
<td>21.4</td>
<td>1970</td>
<td></td>
</tr>
<tr>
<td>0910</td>
<td>20</td>
<td>17.6</td>
<td>352</td>
<td>6.86</td>
<td>21.3</td>
<td>194</td>
<td></td>
</tr>
<tr>
<td>0900</td>
<td>30</td>
<td>17.4</td>
<td>528</td>
<td>6.88</td>
<td>21.3</td>
<td>1965</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 au pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

**Sample Collection Point:**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoban</td>
<td>0940</td>
<td>PL</td>
<td>250</td>
<td>1</td>
<td>300.0</td>
<td>ICP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

[29]
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Howard 312
ADWR No: 221312

Client: Freeport Copper Queen Branch
Date: 10/10/14
Weather: Clear, 60°, fog in valley
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
<th>Well Depth (ft lbs):</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>980</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing Volume (gal):</th>
</tr>
</thead>
<tbody>
<tr>
<td>788 x 3 = 2365</td>
</tr>
</tbody>
</table>

Nominal Size (inches) | Gallons per Linear Foot |
2                   | 0.16 |
4                   | 0.65 |
5                   | 1.02 |
6                   | 1.47 |
8                   | 2.61 |
10                  | 4.08 |

Total Volume Purged (gal): 800

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:05</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:25</td>
<td></td>
<td>20 m</td>
<td>8</td>
<td>160</td>
<td>7.90</td>
<td>23.1</td>
<td>636</td>
</tr>
<tr>
<td>08:45</td>
<td></td>
<td>40 m</td>
<td>8</td>
<td>320</td>
<td>8.00</td>
<td>24.3</td>
<td>630</td>
</tr>
<tr>
<td>09:05</td>
<td></td>
<td>60 m</td>
<td>8</td>
<td>480</td>
<td>8.01</td>
<td>25.8</td>
<td>629</td>
</tr>
<tr>
<td>09:25</td>
<td></td>
<td>80 m</td>
<td>8</td>
<td>640</td>
<td>7.99</td>
<td>26.7</td>
<td>628</td>
</tr>
<tr>
<td>09:45</td>
<td></td>
<td>100 m</td>
<td>8</td>
<td>800</td>
<td>7.99</td>
<td>26.4</td>
<td>621</td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 uS, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot near pressure tank in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Howard 312</td>
<td>09:53</td>
<td>Poly</td>
<td>500ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☒ Other: Purge minimum 1 well volume, and stable parameters

Additional Comments:
### Groundwater Sampling Form

#### WELL DATA

<table>
<thead>
<tr>
<th>Depth (ft bgs)</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:25</td>
<td>10 m</td>
<td>11</td>
<td>110</td>
<td>6.99</td>
<td>22.3</td>
<td>12.44</td>
<td>faint yellow, odorless</td>
</tr>
<tr>
<td>10:35</td>
<td>20 m</td>
<td>11</td>
<td>220</td>
<td>6.97</td>
<td>22.9</td>
<td>12.89</td>
<td>clear, odorless</td>
</tr>
<tr>
<td>10:45</td>
<td>30 m</td>
<td>11</td>
<td>330</td>
<td>6.95</td>
<td>23.3</td>
<td>13.12</td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>40 m</td>
<td>11</td>
<td>440</td>
<td>6.93</td>
<td>23.2</td>
<td>13.39</td>
<td></td>
</tr>
</tbody>
</table>

### FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

#### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point: Well head spigot</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Howard NR</td>
<td>11:02</td>
<td>Poly</td>
<td>500 ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

#### Additional Comments:
# Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Date:** 10/8/14  
**Well ID:** Keefer  
**Weather:** Partly cloudy  
**ADWR No:**  
**Sampler:** DEP

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bsl)</th>
<th>245</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bsl):</td>
<td>141, 45</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>151 x 3 = 454</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>450</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

| Casing Volume = gallons/foot * water column (feet) |

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:15 15m</td>
<td></td>
<td>10</td>
<td>150</td>
<td>7.26</td>
<td>22.6</td>
<td>418</td>
<td></td>
</tr>
<tr>
<td>12:30 30m</td>
<td></td>
<td>10</td>
<td>300</td>
<td>7.25</td>
<td>22.7</td>
<td>426</td>
<td></td>
</tr>
<tr>
<td>12:45 45m</td>
<td></td>
<td>10</td>
<td>450</td>
<td>7.32</td>
<td>22.3</td>
<td>429</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

## SAMPLE INFORMATION

**Sample Collection Point:** Well head spigot  
**Sample ID:** Keefer  
**Time:** 12:48  
**Container Type:** Poly  
**Volume:** 500mL  
**No. of Containers:** 1  
**Analysis Method:** 300-0  
**Preservative:** NP  
**Filtered:** Y

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

---

N:\Projects\G & K005608_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9

---
**Groundwater Sampling Form**

**Project No:** 287030  
**Task No:** 1  
**Well ID:** McConnell 265  
**ADWR No:** 539265

**Client:** Freeport Copper Queen Branch  
**Date:** 10/7/14  
**Weather:** Mostly Cloudy 80°

**WELL DATA**
- **Well Depth (ft bgs):** 216
- **Casing Diameter (in):** 6
- **Static Water Level (ft bmg):** 163.89
- **Casing Volume (gal):** 76 x 3 = 229

**Casing Capacity**
<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):** Casing Volume = gallons/foot * water column (feet)

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:05</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:15</td>
<td>10 m</td>
<td>9</td>
<td>90</td>
<td>6.78</td>
<td>23.5</td>
<td>2016</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>14:25</td>
<td>20 m</td>
<td>9</td>
<td>180</td>
<td>6.83</td>
<td>22.6</td>
<td>1985</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>14:35</td>
<td>30 m</td>
<td>9</td>
<td>270</td>
<td>6.84</td>
<td>22.2</td>
<td>1976</td>
<td>Clear, odorless</td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

**SAMPLE INFORMATION**

- **Sample Collection Point:** Wellhead Spigot

- **Sample ID:** McConnell 11265

<table>
<thead>
<tr>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:45</td>
<td>Poly</td>
<td>500mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: Purge minimum well volume, and stable parameters

**Additional Comments:**
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: McConnell 459
ADWR No: 221459
Client: Freeport Copper Queen Branch
Date: 10/7/14
Weather: Thunderstorm off/on 74°
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>863</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>167.24</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>710 \times 3 = 2130</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>960</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot \times water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:35</td>
<td>Pump On</td>
<td>15:55</td>
<td>20 m</td>
<td>12</td>
<td>240</td>
<td>7.87</td>
<td>24.1</td>
</tr>
<tr>
<td>16:15</td>
<td>40 m</td>
<td>12</td>
<td>480</td>
<td>7.95</td>
<td>25.1</td>
<td>468</td>
<td></td>
</tr>
<tr>
<td>16:35</td>
<td>60 m</td>
<td>12</td>
<td>720</td>
<td>7.95</td>
<td>25.4</td>
<td>476</td>
<td></td>
</tr>
<tr>
<td>16:55</td>
<td>80 m</td>
<td>12</td>
<td>960</td>
<td>7.94</td>
<td>25.7</td>
<td>478</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: well head spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McConnell 459 17:03 Poly</td>
<td>500 ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☑ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☒ Other: Purge minimum 1 well volume, and stable parameters

Additional Comments:
# Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** Metzler  
**ADWR No:** 35-71891  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/8/14  
**Weather:** Partly cloudy  

## WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bis)</td>
<td>351</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bglp)</td>
<td>293.62</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>x3 =</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- [X] Water level measurement collected.
  - No water level measurement collected. No access to wellhead/No port in wellhead
  - No water level measurement collected. Obstruction in well.
  - No water level measurement collected. Well is pumping.
  - Other:

## WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

## Additional Comments:

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N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Format\Groundwater Sampling Sheet 2013-07-9

CLEAR CREEK ASSOCIATES
# Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** Moore  
**ADWR No:** 538847  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/13/14  
**Weather:** Sunny, high 70's  
**Sampler:** DEP

## WELL DATA

<table>
<thead>
<tr>
<th>WELL DATA</th>
<th>Cassing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Well Depth (ft bgs):</strong></td>
<td></td>
</tr>
<tr>
<td>220</td>
<td></td>
</tr>
<tr>
<td><strong>Casing Diameter (in):</strong></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Static Water Level (ft bwp):</strong></td>
<td>No access</td>
</tr>
<tr>
<td>419 from previous</td>
<td>x3 =</td>
</tr>
<tr>
<td><strong>Casing Volume (gal):</strong></td>
<td></td>
</tr>
<tr>
<td>419</td>
<td></td>
</tr>
<tr>
<td><strong>Total Volume Purged (gal):</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Casing Volume = gallons/foot * water column (feet)**

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:45</td>
<td>10</td>
<td>12</td>
<td>120</td>
<td>7.40</td>
<td>23.2</td>
<td>436</td>
<td></td>
</tr>
<tr>
<td>15:55</td>
<td>20</td>
<td>12</td>
<td>240</td>
<td>7.46</td>
<td>22.2</td>
<td>434</td>
<td></td>
</tr>
<tr>
<td>16:05</td>
<td>30</td>
<td>12</td>
<td>360</td>
<td>7.45</td>
<td>22.1</td>
<td>431</td>
<td></td>
</tr>
<tr>
<td>16:15</td>
<td>40</td>
<td>12</td>
<td>480</td>
<td>7.47</td>
<td>22.0</td>
<td>433</td>
<td></td>
</tr>
</tbody>
</table>

**Pump Off**

### FIELD PARAMETER STABILIZATION

Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

## SAMPLE INFORMATION

**Sample Collection Point:** Old fashion pump handle sprout NEC of pump house

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moore</td>
<td>16:19</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: **Purge minimum 1 well volume, and stable parameters**

### Additional Comments:
**Groundwater Sampling Form**

**Project No:** 055038

**Well ID:** NOTEMAN

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**WELL DATA**

- **Well Depth (ft bgs):** 470
- **Casing Diameter (in):** 5
- **Static Water Level (ft bgs):** N/A
- **Casing Volume (gal):** $14.5 \times 3 = 43.5$
- **Total Volume Purged (gal):** Casing Volume = gallons/foot * water column (feet)

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1145</td>
<td>Pump On</td>
<td>11</td>
<td>110</td>
<td>0.63</td>
<td>22.9</td>
<td>15.71</td>
<td></td>
</tr>
<tr>
<td>1155</td>
<td>10</td>
<td>11</td>
<td>110</td>
<td>0.63</td>
<td>22.9</td>
<td>15.71</td>
<td></td>
</tr>
<tr>
<td>1205</td>
<td>20</td>
<td>220</td>
<td>440</td>
<td>0.60</td>
<td>22.7</td>
<td>15.45</td>
<td></td>
</tr>
<tr>
<td>1215</td>
<td>30</td>
<td>330</td>
<td>990</td>
<td>0.60</td>
<td>22.8</td>
<td>15.28</td>
<td></td>
</tr>
<tr>
<td>1225</td>
<td>40</td>
<td>440</td>
<td>1320</td>
<td>0.60</td>
<td>22.8</td>
<td>15.28</td>
<td>Pump Off</td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOTEMAN</td>
<td>12:30</td>
<td>Poly</td>
<td>250 mL</td>
<td>1</td>
<td>300.0</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:** sampling from here under fake rock in front yard
Client: Freeport Copper Queen Branch  
Date: Dec 22, 2014  
Weather: Sunny, 40s  
Sampler: VNH

### Field Sampling Data

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### Sample Information

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Water Level Measurement Collection

- X Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### Well Purging Information

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: Pumped dry, stable parameters

**Additional Comments:**

WLO
### Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** NSD-03  
**ADWR No:** 527586  
**Client:** Freeport Copper Queen Branch  
**Date:** Dec 22, 2014  
**Weather:** Sunny, 40s

#### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>100</th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Nominal Size (inches)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>86.80</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>x3 = 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):**

Casing Volume = gallons/foot * water column (feet)

#### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (ºC)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

#### SAMPLE INFORMATION

**Sample Collection Point:**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative Filtered (y/n)</th>
</tr>
</thead>
</table>

#### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

#### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: Pumped dry, stable parameters

**Additional Comments:** WLO
# Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** NWG-02  
**ADWR No:** 562944  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/13/14  
**Weather:** Sunny, 70°F

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>Nominal Size (inches)</th>
<th>Casing Capacity</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>312</td>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
<td></td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td>7.50</td>
<td>23.0</td>
<td>426</td>
<td></td>
</tr>
<tr>
<td>10:50</td>
<td>10:55</td>
<td></td>
<td></td>
<td>7.48</td>
<td>23.1</td>
<td>424</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

## SAMPLE INFORMATION

Sample Collection Point: Hand filter from wellhead spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWG-02</td>
<td>11:06</td>
<td>Poly</td>
<td>250 mL</td>
<td>2</td>
<td>NP</td>
<td>Y (hand)</td>
<td></td>
</tr>
</tbody>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

## Additional Comments:
## Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 4  
**Well ID:** NWJC-04  
**ADWR No:** 551849  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/13/14  
**Weather:** Clear, 60°F  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bls):</th>
<th>462</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>10</td>
</tr>
<tr>
<td>Static Water Level (ft bsl):</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
</tr>
</tbody>
</table>

#### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.51</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:10</td>
<td>Pump On</td>
<td>3</td>
<td></td>
<td>7.27</td>
<td>24.8</td>
<td>821</td>
<td></td>
</tr>
<tr>
<td>09:15</td>
<td></td>
<td></td>
<td></td>
<td>7.36</td>
<td>24.9</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>09:20</td>
<td></td>
<td></td>
<td></td>
<td>7.39</td>
<td>24.5</td>
<td>802</td>
<td></td>
</tr>
<tr>
<td>09:25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pump Off</td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

Sample Collection Point: Hand filter from wellhead spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWJC-04</td>
<td>09:32</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y (hand)</td>
<td></td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- [X] Water level measurement collected.
- [X] No water level measurement collected. No access to wellhead/No port in wellhead.
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

### WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [X] Purged well until field parameters stabilized.
- [ ] Other:

### Additional Comments:

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
**Groundwater Sampling Form**

**Project No:** 287030

**Client:** Freeport Copper Queen Branch

**Task No:** 1.0

**Date:** 11/14/14

**Well ID:** NWG-04

**Weather:** Sunny 70's

**Sampler:** Beal D

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bsl):</th>
<th>Nominal Size (inches)</th>
<th>Casing Capacity (gallons per linear foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):**

**Casing Volume = gallons/foot * water column (feet)**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>5</td>
<td>20</td>
<td>100</td>
<td>7.26</td>
<td>22.9</td>
<td>838.8</td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>10</td>
<td>20</td>
<td>200</td>
<td>7.45</td>
<td>22.8</td>
<td>842.7</td>
<td></td>
</tr>
<tr>
<td>10:25</td>
<td>15</td>
<td>20</td>
<td>300</td>
<td>7.46</td>
<td>22.9</td>
<td>835.9</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>
| NWG-04    | 10:28| Poly           | 250ml  | 1                 | 500.0           | /            | /

### WATER LEVEL MEASUREMENT COLLECTION

- [ ] Water level measurement collected.
- [x] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

### WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

**Additional Comments:** Well has been pumping on and off
## Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1.0  
**Date:** 12/10/14  
**Well ID:** NWJC-04  
**Weather:** Sunny, Lois  
**ADWR No:** 651849  
**Sampler:** MMN

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Well Depth (ft bgl):**  
**Casing Diameter (in):**  
**Static Water Level (ft bgl):** N/A  
**Casing Volume (gal):** x3 =  

**Total Volume Purged (gal):**  
**Casing Volume = gallons/foot * water column (feet)**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
</table>
| Pump On:  
1108 | -                  | -                    | -                         | 7.43    | 23.3      | 836.4                       |          |
| 1113 |                    |                      |                           | 7.38    | 22.9      | 836.5                       |          |
| 1118 |                    |                      |                           | 7.33    | 23.3      | 840.7                       | foul odor|

**Pump Off**

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 SU pH, 2 degrees C., and 100 µS/cm

### SAMPLE INFORMATION

**Sample Collection Point:**

| Sample ID | Time | Container Type | Volume | No. of Containers | Analysis Method | Preservative | Filtered (y/n) |
|-----------|------|----------------|--------|-------------------|-----------------|--------------|----------------|----------------|
| NWJC-04   | 1120 | Poly           | 250mL  | 1                 | 300.00         | n            | y              |

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

---

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---

CLEAR CREEK ASSOCIATES
Groundwater Sampling Form

<table>
<thead>
<tr>
<th>Project No:</th>
<th>287030</th>
<th>Client:</th>
<th>Freeport Copper Queen Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task No:</td>
<td>1</td>
<td>Date:</td>
<td>10/13/14</td>
</tr>
<tr>
<td>Well ID:</td>
<td>NWC-06</td>
<td>Weather:</td>
<td>Clear, low 70°</td>
</tr>
<tr>
<td>ADWR No:</td>
<td>575 700</td>
<td>Sampler:</td>
<td>DEP</td>
</tr>
</tbody>
</table>

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bis):</th>
<th>340</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bmg):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td></td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
<td></td>
</tr>
</tbody>
</table>

**Casing Volume = gallons/foot * water column (feet)**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td></td>
<td></td>
<td></td>
<td>7.56</td>
<td>23.0</td>
<td>401</td>
<td>Pump On</td>
</tr>
<tr>
<td>10:25</td>
<td></td>
<td></td>
<td></td>
<td>7.59</td>
<td>22.9</td>
<td>388</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td></td>
<td></td>
<td></td>
<td>7.59</td>
<td>23.4</td>
<td>383</td>
<td></td>
</tr>
</tbody>
</table>

**Pump Off**

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Hand filter from well head spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWC-06</td>
<td>10:33</td>
<td>Poly</td>
<td>250mL</td>
<td>1</td>
<td>NP</td>
<td>Y(hand)</td>
<td></td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- X No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

---

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CLEAR CREEK ASSOCIATES
## Groundwater Sampling Form

### WELL DATA

<table>
<thead>
<tr>
<th></th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bis):</td>
<td>220</td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bmf):</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>x3 = 90</td>
</tr>
</tbody>
</table>

### Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:25</td>
<td>5</td>
<td>6</td>
<td>30</td>
<td>7.94</td>
<td>18.8</td>
<td>521</td>
<td></td>
</tr>
<tr>
<td>09:30</td>
<td>10</td>
<td>6</td>
<td>60</td>
<td>7.82</td>
<td>19.3</td>
<td>536</td>
<td></td>
</tr>
<tr>
<td>09:35</td>
<td>15</td>
<td>6</td>
<td>90</td>
<td>7.86</td>
<td>19.6</td>
<td>536</td>
<td></td>
</tr>
</tbody>
</table>

**Pump Off**

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

Sample Collection Point: Spigot on east side of house

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palmer</td>
<td>09:47</td>
<td>Poly</td>
<td>250mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Panagakos
ADWR No: 35-76413
Client: Freeport Copper Queen Branch
Date: 10/10/14
Weather: Sunny 80s
Sampler: DEP

WELL DATA

Well Depth (ft bgs): 200
Casing Diameter (in): 8
Static Water Level (ft bgs): 159.28
Casing Volume (gal): 105 x 3 = 315
Total Volume Purged (gal): 315

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:50</td>
<td>15m</td>
<td>7</td>
<td>105</td>
<td>6.82</td>
<td>22.3</td>
<td>1048</td>
<td></td>
</tr>
<tr>
<td>15:05</td>
<td>30m</td>
<td>7</td>
<td>210</td>
<td>6.87</td>
<td>22.1</td>
<td>1084</td>
<td></td>
</tr>
<tr>
<td>15:20</td>
<td>45m</td>
<td>7</td>
<td>315</td>
<td>6.90</td>
<td>22.1</td>
<td>1104</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot 150' SE of wellhead
Sample ID: Panagakos
Time: 15:27
Container Type: Poly
Volume: 250 ml
No. of Containers: 1
Analysis Method: 300-0
Preservative: N P
Filtered (y/n): Y

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☒ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments: Returned ball valve to off
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: 900-445-00
ADWR No: 55-576415

Client: Freeport Copper Queen Branch
Date: 12/16/14
Weather: Cloudy 75°F
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Depth (ft bis):</td>
<td>355</td>
<td></td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft bmp):</td>
<td>281 from 7/20/09</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>109 x3 = 327</td>
<td></td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>360</td>
<td></td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:55</td>
<td>10m</td>
<td>9</td>
<td>90</td>
<td>7.05</td>
<td>22.9</td>
<td>142</td>
<td>Pump On</td>
</tr>
<tr>
<td>15:05</td>
<td>20m</td>
<td>9</td>
<td>180</td>
<td>7.04</td>
<td>22.0</td>
<td>139</td>
<td></td>
</tr>
<tr>
<td>15:15</td>
<td>30m</td>
<td>9</td>
<td>270</td>
<td>7.10</td>
<td>21.8</td>
<td>134</td>
<td></td>
</tr>
<tr>
<td>15:25</td>
<td>40m</td>
<td>9</td>
<td>360</td>
<td>7.12</td>
<td>21.5</td>
<td>133</td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

SAMPLE INFORMATION

Sample Collection Point: well plumb spigot +

Sample ID | Time | Container Type | Volume | No of Containers | Analysis Method | Preservative | Filtered (y/n)
-----------|------|----------------|--------|------------------|-----------------|--------------|----------------|
Para       | 5:30 | Poly           | 2.5dm | 1                | 360.0           | NP           | Y

WATER LEVEL MEASUREMENT COLLECTION

☐ Water level measurement collected.
☒ No water level measurement collected. No access to wellhead/No port in wellhead
☒ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☒ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.

☐ Other:

Additional Comments:

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Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch

Task No: 1  
Date: 10/7/14

Well ID: Pionke 395  
Weather: Portly Cloudly

ADWR No: 55-613395  
Sampler: DEP ~ 74°F

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal):

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments:
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: Pionke 517  
ADWR No: 221517  
Client: Freeport Copper Queen Branch  
Date: 10/7/14  
Weather: Partly cloudy ~ 72°F  
Sampler: DEP

**WELL DATA**

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Well Depth (ft bgs): 604  
Casing Diameter (in): 5  
Static Water Level (ft bgs): 153.31  
Casing Volume (gal): 460 \( \times 3 = 1379 \)  
Total Volume Purged (gal): 1440

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:35</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:35</td>
<td>20m</td>
<td>12</td>
<td>240</td>
<td>7.14</td>
<td>24.8</td>
<td>418</td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>40m</td>
<td>12</td>
<td>480</td>
<td>7.46</td>
<td>25.0</td>
<td>402</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>60m</td>
<td>12</td>
<td>720</td>
<td>7.45</td>
<td>25.3</td>
<td>407</td>
<td></td>
</tr>
<tr>
<td>11:35</td>
<td>80m</td>
<td>12</td>
<td>960</td>
<td>7.47</td>
<td>25.7</td>
<td>402</td>
<td></td>
</tr>
<tr>
<td>11:55</td>
<td>100m</td>
<td>12</td>
<td>1200</td>
<td>7.55</td>
<td>24.7</td>
<td>401</td>
<td></td>
</tr>
<tr>
<td>12:15</td>
<td>120m</td>
<td>12</td>
<td>1440</td>
<td>7.46</td>
<td>25.8</td>
<td>406</td>
<td></td>
</tr>
<tr>
<td>12:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pump Off</td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

**SAMPLE INFORMATION**

Sample Collection Point: Spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pionke 517</td>
<td>12:25</td>
<td>Poly</td>
<td>500ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

☐ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other: Purged minimum 1 well volume, and stable parameters

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other: Purge minimum 1 well volume, and stable parameters

Additional Comments:
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Power 639
ADWR No: 222639
Client: Freeport Copper Queen Branch
Date: 10/15/14
Weather: partly cloudy 65°F
Sampler: DEP

**WELL DATA**

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.18</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bwp):</td>
<td>294.49</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>2.73 x3 = 818</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>800</td>
</tr>
</tbody>
</table>

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

<p>| Sample Collection Point: Wellhead spigot |</p>
<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (μg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO sample collected</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other: No power to house

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: No power to house

Additional Comments:

- Immediately north of Parva
- When spigot turned on very little water flow than zero flow.
- Contacted April Power she said electricity is turned off.

N:\Projects\G & K\055038_Copper Queen Branch Mitigation\Ordin\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
**Groundwater Sampling Form**

**Project No:** 287030  
**Well ID:** Ramirez  
**ADWR No.:** 21642.5  
**Task No.:** 1  
**Date:** 10/17/14  
**Client:** Freeport Copper Queen Branch  
**Weather:** Clouds moving in 70's  
**Sampler:** DEP  
**Light sprinkle for 5 min.**

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Static Water Level (ft bgs):** Use 164.85 from 4/14/14  
**Casing Volume (gallons):** 199 x 3 = 597  
**Total Volume Purged (gallons):**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>15m</td>
<td>10</td>
<td>150</td>
<td>7.37</td>
<td>23.2</td>
<td>413</td>
<td></td>
</tr>
<tr>
<td>12:15</td>
<td>30m</td>
<td>10</td>
<td>300</td>
<td>7.36</td>
<td>23.3</td>
<td>416</td>
<td></td>
</tr>
<tr>
<td>12:30</td>
<td>45m</td>
<td>10</td>
<td>450</td>
<td>7.35</td>
<td>23.1</td>
<td>421</td>
<td></td>
</tr>
<tr>
<td>12:45</td>
<td>60m</td>
<td>10</td>
<td>600</td>
<td>7.36</td>
<td>23.0</td>
<td>422</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Wellhead Spigot  
**Sample ID:** Ramirez  
**Time:** 12:48  
**Container Type:** Poly  
**Volume:** 250ml

<table>
<thead>
<tr>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

- Be aware in NWC of shed next to well shed.
- Bee hire in Bisbee.
## Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Date:** 10/22/14  
**Well ID:** Ray  
**Weather:** Sunny 70°  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>44.65</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>148 x3 = 444</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>455</td>
</tr>
</tbody>
</table>

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:05</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:18</td>
<td>13 m</td>
<td>7</td>
<td>91</td>
<td>6.90</td>
<td>21.8</td>
<td>1453</td>
<td></td>
</tr>
<tr>
<td>12:31</td>
<td>26 m</td>
<td>7</td>
<td>182</td>
<td>6.92</td>
<td>21.4</td>
<td>1431</td>
<td></td>
</tr>
<tr>
<td>12:44</td>
<td>39 m</td>
<td>7</td>
<td>273</td>
<td>6.90</td>
<td>21.4</td>
<td>1429</td>
<td></td>
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<tr>
<td>12:57</td>
<td>52 m</td>
<td>7</td>
<td>364</td>
<td>6.91</td>
<td>21.5</td>
<td>1435</td>
<td></td>
</tr>
<tr>
<td>13:10</td>
<td>65 m</td>
<td>7</td>
<td>455</td>
<td>6.88</td>
<td>21.6</td>
<td>1422</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Wellhead spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ray</td>
<td>13:14</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: Rogers 596  
ADWR No: 573596

Client: Freeport Copper Queen Branch  
Date: 10/15/14  
Weather: Sunny, high 70's  
Sampler: DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bgs)</td>
<td>290</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bgs)</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td></td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td></td>
</tr>
</tbody>
</table>

#### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.10</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
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<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (gpm)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
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<tr>
<td>Pump Off</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample ID</td>
</tr>
<tr>
<td>Time</td>
</tr>
<tr>
<td>Container Type</td>
</tr>
<tr>
<td>Volume</td>
</tr>
<tr>
<td>No. of Containers</td>
</tr>
<tr>
<td>Analysis Method</td>
</tr>
<tr>
<td>Preservative</td>
</tr>
<tr>
<td>Filtered (y/n)</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.

Other: No measurement

No sample from Rogers 803

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.

Other:

Additional Comments: Gates locked. Called David Rogers 15:24 10/15/14. David said he does not own this property anymore. Also David said Brian Loun owns property now.
### Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Well ID:** Rogers, E  
**Date:** 10/17/14  
**Weather:** Sunny low 80°F  
**Sampler:** DEP

#### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>285</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bgs)</td>
<td>Use 155.97 from 4/14/14</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>190 x 3 = 570</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td>600</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

#### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>15m</td>
<td>10</td>
<td>150</td>
<td>7.37</td>
<td>22.2</td>
<td>447</td>
<td></td>
</tr>
<tr>
<td>10:35</td>
<td>30m</td>
<td>10</td>
<td>300</td>
<td>7.34</td>
<td>22.4</td>
<td>452</td>
<td></td>
</tr>
<tr>
<td>10:50</td>
<td>45m</td>
<td>10</td>
<td>450</td>
<td>7.33</td>
<td>22.4</td>
<td>450</td>
<td></td>
</tr>
<tr>
<td>11:05</td>
<td>60m</td>
<td>10</td>
<td>600</td>
<td>7.31</td>
<td>22.6</td>
<td>452</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

#### SAMPLE INFORMATION

**Sample Collection Point:** well head Spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rogers, E</td>
<td>11:12</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

#### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- Water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

#### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

---

N:\Projects\G & K055036_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet 2013-07-9
# Groundwater Sampling Form

## WELL DATA

<table>
<thead>
<tr>
<th>Data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project No.</td>
<td>287030</td>
</tr>
<tr>
<td>Task No.</td>
<td>1</td>
</tr>
<tr>
<td>Well ID</td>
<td>Ruiz</td>
</tr>
<tr>
<td>ADWR No.</td>
<td>531770</td>
</tr>
<tr>
<td>Client</td>
<td>Freeport Copper Queen Branch</td>
</tr>
<tr>
<td>Date</td>
<td>10/21/14</td>
</tr>
<tr>
<td>Weather</td>
<td>Sunny 70°F</td>
</tr>
<tr>
<td>Nominal Size (inches)</td>
<td></td>
</tr>
<tr>
<td>Casing Capacity</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td>60</td>
</tr>
</tbody>
</table>

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30 Pump On</td>
<td>5 min</td>
<td>4</td>
<td>20</td>
<td>7.09</td>
<td>21.8</td>
<td>895</td>
<td></td>
</tr>
<tr>
<td>16:35 10m</td>
<td>4</td>
<td>4</td>
<td>40</td>
<td>7.08</td>
<td>21.6</td>
<td>888</td>
<td></td>
</tr>
<tr>
<td>16:40 15m</td>
<td>4</td>
<td>4</td>
<td>60</td>
<td>7.09</td>
<td>21.4</td>
<td>884</td>
<td></td>
</tr>
</tbody>
</table>

## FIELD PARAMETER STABILIZATION

Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point</th>
<th>Wellhead Sprigot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample ID</td>
<td>Ruiz</td>
</tr>
<tr>
<td>Time</td>
<td>16:38</td>
</tr>
<tr>
<td>Container Type</td>
<td>Poly</td>
</tr>
<tr>
<td>Volume</td>
<td>250ml</td>
</tr>
<tr>
<td>No. of Containers</td>
<td>1</td>
</tr>
<tr>
<td>Analysis Method</td>
<td>NP</td>
</tr>
<tr>
<td>Preservative</td>
<td>Y</td>
</tr>
</tbody>
</table>

| Sample ID               | DUP20141021      |
| Time                    | 12:00            |
| Container Type          | Poly             |
| Volume                  | 250ml            |
| No. of Containers       | 1                |
| Analysis Method         | NP               |
| Preservative            | Y                |

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:
Groundwater Sampling Form

Project No: 287030
Task No: 1
Well ID: Schwartz
ADWR No: 210865
Client: Freeport Copper Queen Branch
Date: 10/23/14
Weather: sunny 70°
Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>305</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bmp):</td>
<td>129.66</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>257 x3 = 772</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>800</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (ppm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:40</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>20 m</td>
<td>10</td>
<td>200</td>
<td>7.24</td>
<td>21.9</td>
<td>650</td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>40 m</td>
<td>10</td>
<td>400</td>
<td>7.24</td>
<td>21.9</td>
<td>646</td>
<td></td>
</tr>
<tr>
<td>10:40</td>
<td>60 m</td>
<td>10</td>
<td>600</td>
<td>7.28</td>
<td>21.8</td>
<td>645</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>80 m</td>
<td>10</td>
<td>800</td>
<td>7.28</td>
<td>22.0</td>
<td>646</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Wellhead Spigot

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schwartz</td>
<td>11:06</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☒ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☐ Other:

Additional Comments: No problem with sounder.
### Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** Thompson 151  
**ADWR No:** 61251  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/22/14  
**Weather:** Sunny 60°

#### WELL DATA

| Parameter                          | Value  
|------------------------------------|--------
| Well Depth (ft b.s.)               | 210    
| Casing Diameter (in)               | 7      
| Static Water Level (ft b.m)        | 167.56 
| Casing Volume (gal)                | x3 =   

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.81</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

<table>
<thead>
<tr>
<th>Field Sampling Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Pump On</td>
</tr>
<tr>
<td>Pump Off</td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

#### SAMPLE INFORMATION

**Sample Collection Point:**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

#### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

#### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

---

N:\Projects\G & K055039_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: Thompson 341  
ADWR No: 218341

Client: Freeport Copper Queen Branch  
Date: 10/22/14  
Weather: sunny 60°

Sampler: DEP

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>285</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>7</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>167.56 from Thompson 101 (10/24/14)</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>234 ( \times 3 = 702 )</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot \( \times \) water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:40</td>
<td></td>
<td></td>
<td></td>
<td>7.22</td>
<td>22.3</td>
<td>432</td>
<td></td>
</tr>
<tr>
<td>08:43</td>
<td></td>
<td></td>
<td></td>
<td>7.21</td>
<td>22.4</td>
<td>425</td>
<td></td>
</tr>
<tr>
<td>08:46</td>
<td></td>
<td></td>
<td></td>
<td>7.23</td>
<td>22.3</td>
<td>430</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 au pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Wellhead spigat, hand filter

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume (ml)</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thompson341</td>
<td>08:54</td>
<td>Poly</td>
<td>250</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y (hand)</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other: Intermittent purge as tank is very full

Additional Comments:

Owner request we do not overfill tank during purge; intermittent pumping.
# Groundwater Sampling Form

<table>
<thead>
<tr>
<th>Project No:</th>
<th>287030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task No:</td>
<td>1</td>
</tr>
<tr>
<td>Well ID:</td>
<td>TM-10</td>
</tr>
<tr>
<td>ADWR No:</td>
<td>522696</td>
</tr>
</tbody>
</table>

**WELL DATA**

<table>
<thead>
<tr>
<th>Well Depth (ft lbs):</th>
<th>290</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>4</td>
</tr>
<tr>
<td>Static Water Level (ft bmp):</td>
<td>235.11</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>36 x 3 = 108</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>4</td>
<td>0.86</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:35</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:40</td>
<td>5m</td>
<td>10</td>
<td>50</td>
<td>7.45</td>
<td>21.9</td>
<td>440</td>
<td></td>
</tr>
<tr>
<td>08:45</td>
<td>10m</td>
<td>10</td>
<td>100</td>
<td>7.35</td>
<td>22.0</td>
<td>435</td>
<td></td>
</tr>
<tr>
<td>08:50</td>
<td>15m</td>
<td>10</td>
<td>150</td>
<td>7.57</td>
<td>22.0</td>
<td>439</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm.

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
<th>Spigot near pressure tanks in shed</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-10</td>
<td>08:57</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y (hand)</td>
<td></td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

**WELL PURGING INFORMATION**

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

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N:\Projects\G & K0055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: TVI 713  
ADWR No: 567713

Client: Freeport Copper Queen Branch  
Date: 10/7/14  
Weather: Mostly Cloudy, breezy, ~ 68°

Sampler: DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl)</td>
<td>200</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bmp)</td>
<td>132.29</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>x3 =</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):**

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

Pump Off

### SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- X Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments: WLO
Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch  
Task No: 1  
Date: 10/9/14  
Well ID: TVI 875  
Weather: Mostly cloudy, breezy, ~68°F  
ADWR No: 568875  
Sampler: DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bsl)</th>
<th>330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bsl)</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal): x3 =</td>
<td>4,500</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): 4,500  
Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:03</td>
<td>3 m</td>
<td>500</td>
<td>1500</td>
<td>7.12</td>
<td>21.7</td>
<td>1003</td>
<td>Pump On</td>
</tr>
<tr>
<td>16:06</td>
<td>6 m</td>
<td>500</td>
<td>3000</td>
<td>7.13</td>
<td>21.3</td>
<td>971</td>
<td></td>
</tr>
<tr>
<td>16:09</td>
<td>9 m</td>
<td>500</td>
<td>4500</td>
<td>7.12</td>
<td>21.2</td>
<td>963</td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

**Sample Collection Point:** Spigot under green box  
**Sample ID:** TVI 875  
**Time:** 16:19  
**Container Type:** Poly  
**Volume:** 500 ml  
**No. of Containers:** 1  
**Analysis Method:** N/A  
**Preservative:** Y

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: Weed  
ADWR No: 544335  

Client: Freeport Copper Queen Branch  
Date: 10/22/14  
Weather: Sunny high 70°

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bsl):</th>
<th>320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bsl):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>22.5</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:20</td>
<td>5</td>
<td>15</td>
<td>75</td>
<td>7.49</td>
<td>22.7</td>
<td>393</td>
<td>Pump On</td>
</tr>
<tr>
<td>15:25</td>
<td>10</td>
<td>15</td>
<td>150</td>
<td>7.49</td>
<td>22.4</td>
<td>394</td>
<td></td>
</tr>
<tr>
<td>15:30</td>
<td>15</td>
<td>15</td>
<td>225</td>
<td>7.50</td>
<td>22.7</td>
<td>394</td>
<td>Pump Off</td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed</td>
<td>15:41</td>
<td>Poly</td>
<td>250 mL</td>
<td>1</td>
<td>300.0</td>
<td>N.P.</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments:

N:\Projects\G & K0055038_Copper Queen Branch Mitigation Orden\Groundwater Monitoring\Forms\Groundwater Sampling Sheet. 2013-07-9
## Groundwater Sampling Form

**Project No:** 287030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Well ID:** Weiskopf 802  
**Date:** 10/9/14  
**Weather:** Partly cloudy, breezy, ~70°F  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>Static Water Level (ft bpm)</th>
<th>Casing Volume (gal)</th>
<th>Total Volume Purged (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>150.89</td>
<td>72 x3 = 217</td>
<td>0.35 x 480</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Casing Volume = gallons/foot * water column (feet)**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:05</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>15m</td>
<td>4</td>
<td>60</td>
<td>7.42</td>
<td>29.8</td>
<td>331</td>
<td>Noticably warmer</td>
</tr>
<tr>
<td>10:35</td>
<td>30m</td>
<td>4</td>
<td>120</td>
<td>7.45</td>
<td>26.8</td>
<td>361</td>
<td></td>
</tr>
<tr>
<td>10:50</td>
<td>45m</td>
<td>4</td>
<td>180</td>
<td>7.30</td>
<td>25.8</td>
<td>541</td>
<td></td>
</tr>
<tr>
<td>11:05</td>
<td>60m</td>
<td>4</td>
<td>240</td>
<td>7.18</td>
<td>25.8</td>
<td>758</td>
<td></td>
</tr>
<tr>
<td>11:20</td>
<td>75m</td>
<td>4</td>
<td>300</td>
<td>7.12</td>
<td>25.2</td>
<td>911</td>
<td></td>
</tr>
<tr>
<td>11:35</td>
<td>90m</td>
<td>4</td>
<td>360</td>
<td>7.06</td>
<td>25.3</td>
<td>1009</td>
<td></td>
</tr>
<tr>
<td>11:50</td>
<td>105m</td>
<td>4</td>
<td>420</td>
<td>7.07</td>
<td>25.0</td>
<td>1060</td>
<td></td>
</tr>
<tr>
<td>12:05</td>
<td>120m</td>
<td>4</td>
<td>480</td>
<td>7.08</td>
<td>24.5</td>
<td>1094</td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

**Sample Collection Point:** Spigot off garage, near wellhead

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weiskopf 802</td>
<td>12:12</td>
<td>Poly</td>
<td>500ml</td>
<td>1</td>
<td>300</td>
<td>NP</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

**Additional Comments:**

---

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-07-9
Groundwater Sampling Form

Project No: 287030  
Client: Freeport Copper Queen Branch

Task No: 1  
Date: 10/9/14

Well ID: Weiskopf 897  
Weather: Partly cloudy, breezy, 65°F

ADWR No: 221897  
Sampler: DEP

<table>
<thead>
<tr>
<th>WELL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Capacity</td>
</tr>
<tr>
<td>Nominal Size (inches)</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIELD SAMPLING DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
</tr>
<tr>
<td>08:20</td>
</tr>
<tr>
<td>Pump On</td>
</tr>
<tr>
<td>08:35</td>
</tr>
<tr>
<td>08:50</td>
</tr>
<tr>
<td>09:05</td>
</tr>
<tr>
<td>09:20</td>
</tr>
<tr>
<td>Pump Off</td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Spigot near pressure tanks in shed

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weiskopf 897 09:24</td>
<td>Poly</td>
<td>500mL</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

☒ Water level measurement collected.
☐ No water level measurement collected. No access to wellhead/No port in wellhead
☐ No water level measurement collected. Obstruction in well.
☐ No water level measurement collected. Well is pumping.
☐ Other:

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☒ Other: Purge 1 well volume, and stable parameters

Additional Comments:
Groundwater Sampling Form

Project No: 287030  
Task No: 1  
Well ID: Zander  
ADWR No: 205126

Client: Freeport Copper Queen Branch  
Date: 10/13/14  
Weather: Sunny 70°

WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Well Depth (ft. bsl): 280  
Casing Diameter (in): 6

Static Water Level (ft bsl): 3152.02  
Casing Volume (gal): 188 x 3 = 564

Total Volume Purged (gal): 688

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:30</td>
<td>15 m</td>
<td>10</td>
<td>150</td>
<td>7.53</td>
<td>24.6</td>
<td>428</td>
<td></td>
</tr>
<tr>
<td>13:45</td>
<td>30 m</td>
<td>10</td>
<td>300</td>
<td>7.54</td>
<td>23.7</td>
<td>425</td>
<td></td>
</tr>
<tr>
<td>14:00</td>
<td>45 m</td>
<td>10</td>
<td>450</td>
<td>7.57</td>
<td>23.6</td>
<td>426</td>
<td></td>
</tr>
<tr>
<td>14:15</td>
<td>60 m</td>
<td>10</td>
<td>600</td>
<td>7.52</td>
<td>23.8</td>
<td>422</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION

Sample Collection Point: Wellhead Spigot

Sample ID: Zander  
Time: 14:19  
Container Type: Poly  
Volume: 500ml  
No. of Containers: 1  
Analysis Method: 300.0  
Preservative: NP  
Filtered: Y

WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well
- No water level measurement collected. Well is pumping
- Other: No water level measurement collected - Obstruction at 25'

WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments: Not able to lower sounder past 25' obstruction.

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CLEAR CREEK ASSOCIATES
**Groundwater Sampling Form**

**Project No:** 287030  
**Task No:** 1  
**Well ID:** EQB 2014 10 14  
**Date:** 10/14/14  
**Weather:** Sunny, 70°F  
**Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Volume Purged (gal):</td>
<td>x3 =</td>
<td>Casing Volume = gallons/foot * water column (feet)</td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FIELD PARAMETER STABILIZATION:** Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQB 2014 10 14</td>
<td>10:51</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300, 0</td>
<td>N</td>
<td>P</td>
<td></td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- □ Water level measurement collected.
- □ No water level measurement collected. No access to wellhead/No port in wellhead.
- □ No water level measurement collected. Obstruction in well.
- □ No water level measurement collected. Well is pumping.
- □ Other:

### WELL PURGING INFORMATION

- □ Purged 3 well volumes and field parameters stabilized.
- □ Purged 3 well volumes based on previous water level and field parameters stabilized.
- □ Purged well until field parameters stabilized.
- □ Other:

**Additional Comments:**
Project No: 287030
Task No: 1
Well ID: FB 2014 10 14
ADWR No: 
Client: Freeport Copper Queen Branch
Date: 
Weather: 
Sampler: 

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
<th>[Nominal Size (inches)]</th>
<th>Casing Capacity (gallons per linear foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume (gal): \( x3 = \) Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

Sample Collection Point:

**Sample ID:** FB 2014 10 14
**Time:** 09:30
**Container Type:** Poly
**Volume:** 250 ml
**No. of Containers:** 1
**Analysis Method:** 300.0
**Preservative:** NP
**Filtered (y/n):** N

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead.
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments:
## Groundwater Sampling Form

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Water Level (ft bgs):</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>x3</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
</tr>
</tbody>
</table>

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.15</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

### SAMPLE INFORMATION

| Sample ID | Time    | Container Type | Volume | No. of Containers | Analysis Method | Preservative | Filtered (y/n) |
|-----------|---------|----------------|--------|-------------------|-----------------|--------------|----------------|---------------|
| FB20141021 | 16:19   | Poly           | 250ml  | 1                 | 300.0           | NP           | N              |
| EQB20141021| 16:17   | Poly           | 250ml  | 1                 | 300.0           | NP           | N              |

### WATER LEVEL MEASUREMENT COLLECTION

- [ ] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

### WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

### Additional Comments:

- EQB blank
- EQB 20141021
- Field Blank FB20141021
**Groundwater Sampling Form**

- **Project No:** 287030
- **Task No:** 1
- **Well ID:** FB2014 1004
- **Weather:** Cloudy 75°
- **Sampler:** DEP

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
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<tr>
<td></td>
<td>6</td>
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<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Pump On</td>
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FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
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<tbody>
<tr>
<td>FB2014 1004</td>
<td>3:30</td>
<td>Poly</td>
<td>250ml</td>
<td>1</td>
<td>300.0</td>
<td>NP</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

### WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

### Additional Comments:

Field Blank
# Groundwater Sampling Form

**Project No:** 287030  
**Task No:** 1  
**Well ID:** EQB 2014 1006  
**ADWR No:**  
**Client:** Freeport Copper Queen Branch  
**Date:** 10/4/14  
**Weather:** Cloudy 75°  
**Sampler:** DEP

## WELL DATA

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>0.16</td>
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<td>4</td>
<td>0.65</td>
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<tr>
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<td></td>
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<td>1.02</td>
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<td></td>
<td></td>
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<td>4.08</td>
</tr>
</tbody>
</table>

Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
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<th>Temp (°C)</th>
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<td></td>
</tr>
</tbody>
</table>

Pump On

Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

## SAMPLE INFORMATION

**Sample Collection Point:**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time (h)</th>
<th>Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQB 2014 1006</td>
<td>2:36</td>
<td>Poly</td>
<td>250 ml</td>
<td>1</td>
<td>300</td>
<td>NP</td>
<td>N</td>
</tr>
<tr>
<td>15:36</td>
<td>500 ml</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

## WATER LEVEL MEASUREMENT COLLECTION

- Water level measurement collected.
- No water level measurement collected. No access to wellhead/No port in wellhead
- No water level measurement collected. Obstruction in well.
- No water level measurement collected. Well is pumping.
- Other:

## WELL PURGING INFORMATION

- Purged 3 well volumes and field parameters stabilized.
- Purged 3 well volumes based on previous water level and field parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

## Additional Comments:

**Equipment Blank**

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N:\Projects\K & K055036_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formt\Groundwater Sampling Sheet 2013-07-9