

**DATA VERIFICATION OF THE AQUEOUS SAMPLES COLLECTED AT THE  
ARCO YERINGTON MINE SITE BETWEEN OCTOBER 5 AND 30, 2008 AND THE MWME  
SAMPLES COLLECTED/PREPARED BETWEEN OCTOBER 5 AND NOVEMBER 4, 2008**

**Laboratory:** TestAmerica-Irvine

**Field Duplicates:** OU4-LEP-GW and OU4-LEP-GW-FD

**Field Blanks:** OU4-FB-01, OU4-FB-02

**Equipment Blanks:** OU4-EQ-01, OU4-EQ-02, OU4-EQ-03

**Filter Blanks:** FILTER BLANK-01, FILTER BLANK-02

**Parameters & Methods:** Dissolved Metals (200.7/200.8); Cl, F, NO<sub>3</sub>, NO<sub>2</sub>, NO<sub>3</sub>/NO<sub>2</sub>, SO<sub>4</sub> (300.0); TOC (5310B); Alkalinity (2320B); TDS, pH (2540C)

**Samples:**

Field Sample Identification	Date Sample Collected	SDG
OU4-LEP-01-GW	10/5/08	IRJ0582
OU4-LEP-02-GW	10/6/08	IRJ0582
OU4-LEP-03-GW	10/6/08	IRJ0759
OU4-LEP-04-GW	10/7/08	IRJ0759
OU4-LEP-04-GW-FD	10/7/08	IRJ0759
OU4-LEP-05-GW	10/7/08	IRJ0886
OU4-UEP-07-GW	10/8/08	IRJ0886
OU4-EQ-01	10/9/08	IRJ1213
OU4-FEP-12-GW	10/13/08	IRJ1480
OU4-UEP-11-GW	10/14/08	IRJ1480
OU4-UEP-09-GW	10/14/08	IRJ1480
OU4-UEP-06-GW	10/14/08	IRJ1655
OU4-EQ-02	10/15/08	IRJ1655
OU4-FB-01	10/17/08	IRJ1930
OU4-FB-02	10/20/08	IRJ2038
OU4-EQ-03	10/20/08	IRJ2038
OU4-LEP-01A-MW	10/5/08	IRJ2815
OU4-LEP-03A-MW	10/6/08	IRJ2815
OU4-LEP-05A-MW	10/7/08	IRJ2815
OU4-FEP-13A-MW	10/12/08	IRJ2815
OU4-UEP-07A-MW	10/8/08	IRJ2815
OU4-UEP-08A-MW	10/8/08	IRJ2815

Field Sample Identification	Date Sample Collected	SDG
OU4-UEP-10A-MW	10/12/08	IRJ2815
FILTER BLANK-01	10/22/08	IRJ2815
OU4-FEP-16-GW	10/28/08	IRJ3037
OU4-FEP-14-GW	10/29/08	IRJ3047
OU4-FEP-15-GW	10/30/08	IRJ3047
OU4-FEP-15A-MW	10/29/08	IRK2203
FILTER BLANK-02	11/4/08	IRK2203

Items Reviewed
Holding Times
Chain-of-Custody and Case Narratives
Blank Results
MS/MSD Results
LCS Results
Field and Laboratory Duplicate Results

**Qualifiers Summary Table**

Analyte(s)	SDG(s)	Sample(s)	Validation Qualifier	Reason(s) for Qualification
pH	IRJ0582 IRJ0759 IRJ0886 IRJ1213 IRJ1480 IRJ1655 IRJ1930 IRJ2038 IRJ3037 IRJ3047	All samples	J	1 – Exceeded Holding Time
nitrite, nitrate, and total nitrate/nitrite	IRJ1480 IRJ0582 IRJ0759 IRJ1213	OU4-FEP-12-GW OU4-LEP-01-GW OU4-LEP-03-GW	UJ	1 – Exceeded Holding Time
nitrite, nitrate, and total nitrate/nitrite	IRJ3037	OU4-FEP-16-GW	J	1 – Exceeded Holding Time
zinc	IRJ2815	OU4-LEP-05A-MW and OU4-UEP-10A-MW	UJ	7 – Filter Blank Contamination
barium and nickel	IRJ0582 IRJ0759	OU4-LEP-02-GW All samples	J	4L – Low MS Recovery

Analyte(s)	SDG(s)	Sample(s)	Validation Qualifier	Reason(s) for Qualification
cobalt	IRJ1480	All samples	J	5 – MS/MSD Imprecision
chromium	IRJ1480	OU4-FEP-12-GW	J	5 – MS/MSD Imprecision
mercury	IRJ2815 IRJ3037 IRJ3047	All samples except Filter Blank OU4-FEP-16-GW All samples	J/UJ	4L – Low MS/MSD Recoveries

Quantitation of Results: Based on standard project reporting requirements, all positive results reported at concentrations greater than the method detection limit but less than the reporting limit were qualified as estimated and have been flagged “J” on the data tables. (Valid Reason Code: T)

**Notes:**

The collection time for SDG IRJ0582 sample OU4-LEP-02-GW was not recorded on the Chain-of-Custody record. The collection time for this sample was included in the EDD provided.

The collection times for all SDG IRJ2815 samples were not recorded on the Chain-of-Custody record and the collection date for these samples was recorded as 10/22/08 on the Chain-of-Custody record. The collection dates/times for these samples were included in the EDD provided but they were different than the ones listed on the Chain-of-Custody record. It appears that the date listed on the Chain-of-Custody record is the date that the leachate samples were prepared by the Sierra Environmental Monitoring.

**Data Validator:** Kathy Zvarick

**Senior Reviewer:** Konstadina Vlahogiani

**Principal In-Charge:** Rock J. Vitale

**Report No:** Verification\_Report\_206\_OU4\_aqueous\_metals

**Date:** January 12, 2009