



June 13, 2007

Entrix, Inc  
Brian Frantz  
590 Ygnacio Valley Road  
Walnut Creek, CA 94596

RE: Brooks Rand Project: ENX002; Report #: 07BR0665 & 07BR0671

Dear Mr. Frantz,

Two containers were received by Brooks Rand Labs (BRL) on May 16, 2007 and eighteen containers were received on May 17, 2007. The requested analyses listed on the chain of custody (COC) forms were for total mercury (THg), and trace metals including arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), nickel (Ni), magnesium (Mg) and lead (Pb). The samples were received, stored, prepared, and analyzed according to BRL standard operating procedures (SOPs) and EPA Methods 1631 and 1638. All samples were stored in a cabinet in a locked storage room until further processing. The sample labels for "SFLC-2-RM 2.0" and "SFLC-2 RM 2.0 QC" did not match the COC form. These samples were logged in as listed on the COC form. Please refer to the Sample Receiving Log for additional information. The water samples were field filtered by the client through pre-cleaned 0.45- $\mu$ m filtration units.

Sample results may have been evaluated using detection limits that have been adjusted to account for sample aliquot size; please refer to the Quality Assurance (QA) Summaries for a list of the sample specific method detection limits (MDLs)/practical quantitation limits (PQLs) and QA results. Results less than or equal to the MDL have been qualified "U" for non-detect and have been reported at the client requested reporting limit (CRRL). Results above the MDL and less than or equal to the PQL have been qualified "B" and should be considered estimates. Sample results were blank corrected as specified in the calculations sections of the SOP. Due to a previous contamination issue, the certified reference material (CRM) NIST 1643e is no longer certified for Fe, therefore the Fe recoveries are not applicable. All other QA criteria were met and no additional qualification was required.

If you have any questions regarding this report, please feel free to contact us at any time.

Sincerely,

Amanda Fawley  
Project Manager  
amanda@brooksrand.com

Amy Durdle  
Project Coordinator  
amy@brooksrand.com

**Reported by**

**Brooks Rand LLC**

**Contact:** Amanda Fawley

3958 6th Avenue NW

Seattle, WA 98107

Tel: 206-632-6206 Fax: 206-632-6017

**Summary of Results for**

**Entrix, Inc.**

**Contact:** Brian Frantz

590 Ygnacio Valley Road

Walnut Creek CA 94596

Tel: 925-988-1217

**Lab Project #** ENX002

**Lab Tracking #** 07BR0665

**Lab Services Agreement** ENX002

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## **Sample/Sampling/Receiving Info**

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### **Entrix, Inc.**

#### **Sample**

#### **Identification**

MFAR-10 RM9.0

MFAR-10 RM9.0

#### **Sampling Date**

5/14/2007

5/14/2007

#### **Matrix**

Water

Water

#### **Submatrix**

### **BRL**

#### **Sample Number**

07BR0665 - 01

07BR0665 - 02

#### **Receiving Date**

5/16/2007

5/16/2007

Wednesday, June 13, 2007

  
Project Manager

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**Lab Services Agreement** ENX002

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**As**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.220	µg/L	

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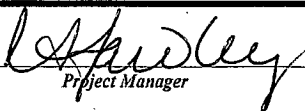
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**Cd**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U

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**Cr**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U

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**Lab Services Agreement** ENX002

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**Cu**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.410	µg/L	

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**Fe**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	8.200	µg/L	

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**Mg**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	1,200.000	µg/L	

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Lab Services Agreement ENX002


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**Ni**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.230	µg/L	

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**Lab Services Agreement** ENX002

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**Pb**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U

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**Lab Services Agreement** ENX002

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**Hg**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 01	T	5/21/2007	5/24/2007	07-0524	0.850	ng/L	

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**Lab Project #** ENX002**Lab Tracking #** 07BR0671**Lab Services Agreement** ENX002

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**Sample/Sampling/Receiving Info**

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**Entrix, Inc.****BRL**

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
LCC-1 RM 0.0	5/15/2007	Water		07BR0671 - 01	5/17/2007
SFLC -3	5/15/2007	Water		07BR0671 - 03	5/17/2007
NFLC - 3	5/15/2007	Water		07BR0671 - 05	5/17/2007
SFLC -1 RM 2.0	5/15/2007	Water		07BR0671 - 06	5/17/2007
SFLC -2 RM 2.0	5/15/2007	Water		07BR0671 - 08	5/17/2007
NFLC-1 RM 2.5	5/15/2007	Water		07BR0671 - 10	5/17/2007
NFLC-1 RM 3.0	5/15/2007	Water		07BR0671 - 11	5/17/2007
LLC-1 RM 0.0	5/15/2007	Water		07BR0671 - 12	5/17/2007
SFLC-3	5/15/2007	Water		07BR0671 - 13	5/17/2007
NFLC-3	5/15/2007	Water		07BR0671 - 14	5/17/2007
SFLC-1 RM 2.0	5/15/2007	Water		07BR0671 - 15	5/17/2007
SFLC-2 RM 2.0	5/15/2007	Water		07BR0671 - 16	5/17/2007
NFLC-1 RM 2.5	5/15/2007	Water		07BR0671 - 17	5/17/2007
NFLC-2 RM 3.0	5/15/2007	Water		07BR0671 - 18	5/17/2007

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**Lab Project #** ENX002**Lab Tracking #** 07BR0671**Lab Services Agreement** ENX002**As**

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.140	µg/L	B
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.140	µg/L	B
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.150	µg/L	B
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.080	µg/L	B
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.090	µg/L	B
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.060	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.070	µg/L	B

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Lab Services Agreement ENX002

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## Cd

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U

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**Lab Project #** ENX002**Lab Tracking #** 07BR0671**Lab Services Agreement** ENX002

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**Cr**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U

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**Lab Project #** ENX002**Lab Tracking #** 07BR0671**Lab Services Agreement** ENX002


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**Cu**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.150	µg/L	B
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.130	µg/L	B
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.200	µg/L	B
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.100	µg/L	B
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.110	µg/L	B
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.100	µg/L	B
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.090	µg/L	B

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**Lab Services Agreement** ENX002

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**Fe**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	3.600	µg/L	B
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	9.100	µg/L	
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	3.100	µg/L	B
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U

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**Hg**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-1 RM 0.0	07BR0671 - 01	T	5/21/2007	5/24/2007	07-0524	0.750	ng/L	
SFLC -3	07BR0671 - 03	T	5/21/2007	5/24/2007	07-0524	0.440	ng/L	
NFLC - 3	07BR0671 - 05	T	5/21/2007	5/24/2007	07-0524	1.010	ng/L	
SFLC -1 RM 2.0	07BR0671 - 06	T	5/21/2007	5/24/2007	07-0524	0.310	ng/L	B
SFLC -2 RM 2.0	07BR0671 - 08	T	5/21/2007	5/24/2007	07-0524	0.430	ng/L	
NFLC-1 RM 2.5	07BR0671 - 10	T	5/21/2007	5/24/2007	07-0524	0.610	ng/L	
NFLC-1 RM 3.0	07BR0671 - 11	T	5/21/2007	5/24/2007	07-0524	0.770	ng/L	

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**Mg**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	805.000	µg/L	
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	841.000	µg/L	
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	816.000	µg/L	
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	910.000	µg/L	
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	927.000	µg/L	
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	763.000	µg/L	
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	771.000	µg/L	

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Lab Services Agreement ENX002

**Ni**

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LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.050	µg/L	B
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U

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## Pb

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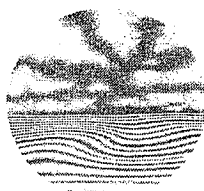
Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U

Wednesday, June 13, 2007

---

  
Project Manager

# QUALITY ASSURANCE SUMMARY



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

3958 6th Avenue NW  
Seattle, WA 98107  
Voice: 206-632-6206  
Fax: 206-632-6017

Batch #: 07-0520

Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

Matrix: Water

BIAS Independent Calibration Verification (ICV) Criterion: Recovery = 85-115%			
Analyte	Certified Value µg/L	Measured Value µg/L	Recovery %
Mg	50.00	51.34	103%
Cr	50.00	51.02	102%
Fe	50.0	50.7	101%
Ni	50.00	53.78	108%
Cu	50.00	49.41	99%
As	50.00	47.66	95%
Cd	5.000	4.747	95%
Pb	5.000	4.775	96%

BIAS Certified Reference Materials (CRM) Criteria: Recovery = 75-125%						
Analyte	NIST 1640			NIST 1643e		
	Certified Value µg/L	Measured Value µg/L	Recovery %	Certified Value µg/L	Measured Value µg/L	Recovery %
Mg	5819	6029	104%	8037	8287	103%
Cr	38.6	37.5	97%	20.4	21.2	104%
Fe	34.3	34.7	101%	98.1	138.9	N/A
Ni	27.4	28.7	105%	62.41	63.53	102%
Cu	85.2	86.7	102%	22.76	22.49	99%
As	26.67	25.80	97%	60.45	53.54	89%
Cd	22.79	22.98	101%	6.568	6.437	98%
Pb	27.89	28.81	103%	19.63	18.67	95%

BIAS Sample 07BR0665-02 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD) Criteria: Recovery = 75-125%, RPD ≤25%								
Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	1204	2000	3365	108%	2000	3277	104%	3%
Cr	0.03	25.00	24.67	99%	25.00	23.69	95%	4%
Fe	8.2	500.0	489.4	96%	500.0	471.3	93%	4%
Ni	0.23	10.00	10.23	100%	10.00	9.88	97%	3%
Cu	0.41	10.00	10.60	102%	10.00	10.36	100%	2%
As	0.22	10.00	11.34	111%	10.00	11.02	108%	3%
Cd	0.002	1.000	1.022	102%	1.000	0.984	98%	4%
Pb	-0.007	5.000	5.084	102%	5.000	4.930	99%	3%

*Nicole C. Mead*  
Quality Assurance Officer  
*P. Hawley*  
Project Manager

# QUALITY ASSURANCE SUMMARY

Batch #: 07-0520

Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

Matrix: Water

BIAS					Criteria: Recovery = 75-125%, RPD ≤25%			
Sample 07BR0671-14 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)								
Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	815.9	2000	2891	104%	2000	2854	102%	1%
Cr	-0.07	25.00	24.55	98%	25.00	24.75	99%	1%
Fe	9.1	500.0	502.8	99%	500.0	504.3	99%	0%
Ni	0.05	10.00	10.03	100%	10.00	10.16	101%	1%
Cu	0.20	10.00	10.67	105%	10.00	10.48	103%	2%
As	0.15	10.00	11.37	112%	10.00	11.29	111%	1%
Cd	0.001	1.000	1.066	107%	1.000	1.040	104%	2%
Pb	-0.005	5.000	5.479	110%	5.000	5.464	109%	0%

PRECISION		Criteria: RPD≤25% or results +/-PQL if ≤5x PQL		
Sample 07BR0665-02 Method Duplicate Analysis (MD)				
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	1204	1234	1219	2%
Cr	0.03	0.01	0.02	***
Fe	8.2	8.3	8.3	***
Ni	0.23	0.24	0.24	***
Cu	0.41	0.34	0.37	***
As	0.22	0.23	0.23	***
Cd	0.002	0.002	0.002	***
Pb	-0.007	-0.008	-0.007	***

\*\*\* Results are less than 5x the PQL and within one PQL of each other, satisfying the secondary acceptance criteria.

PRECISION		Criteria: $RPD \leq 25\%$ or results $\pm PQL$ if $\leq 5 \times PQL$		
Sample 07BR0617-14 Method Duplicate Analysis (MD)				
Analyte	Sample Value $\mu\text{g/L}$	Duplicate Value $\mu\text{g/L}$	Average Value $\mu\text{g/L}$	Duplicate RPD
Mg	815.9	831.8	823.9	2%
Cr	-0.07	-0.09	-0.08	***
Fe	9.1	9.9	9.5	***
Ni	0.05	0.04	0.04	***
Cu	0.20	0.18	0.19	***
As	0.15	0.15	0.15	***
Cd	0.001	0.001	0.001	***
Pb	-0.005	-0.004	-0.005	***

\*\*\* Results are less than 5x the PQL and within one PQL of each other, satisfying the secondary acceptance criteria.

  
 Nicole C. Mead  
 Quality Assurance Officer  
  
 J. Hawley  
 Project Manager

# QUALITY ASSURANCE SUMMARY

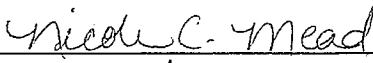
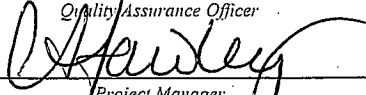
Batch #: 07-0520

Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

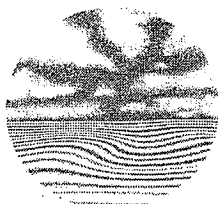
Matrix: Water

Method Blanks (MB)							Method Detection Limits	
Criteria: Avg. $\leq$ PQL and StDev $\leq$ MDL or $< 1/10$ th sample result							MDL	PQL
Analyte	MB1 $\mu\text{g/L}$	MB2 $\mu\text{g/L}$	MB3 $\mu\text{g/L}$	MB4 $\mu\text{g/L}$	Average $\mu\text{g/L}$	StDev $\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Mg	-0.18	-0.14	-0.17	-0.15	-0.16	0.02	0.60	3.00
Cr	0.00	-0.02	-0.02	-0.04	-0.02	0.01	0.03	0.15
Fe	0.8	0.6	0.4	0.3	0.5	0.2	1.4	5.0
Ni	0.00	-0.01	0.00	-0.01	0.00	0.00	0.04	0.20
Cu	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.20
As	-0.01	-0.01	0.00	-0.02	-0.01	0.01	0.06	0.20
Cd	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.010
Pb	0.015	0.023	0.007	0.006	0.013	0.008	0.010	0.050

  
 Nicole C. Mead  
 Quality Assurance Officer  
  
 J. Hawley  
 Project Manager



# QUALITY ASSURANCE SUMMARY



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

3958 6th Avenue NW

Seattle, WA 98107

Voice: 206-632-6206

Fax: 206-632-6017

Batch #: 07-0524

Method #: EPA 1631E

Analyte: Hg

Matrix: Water

BIAS Criterion: Recovery = 77-123%			
Continuing Calibration Verification (CCV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
CCV1	5.00	5.10	102%
CCV2	5.00	4.95	99%
CCV3	5.00	4.97	99%

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	16.01	100%

\* Preparation of the CRM NIST 1641d.

BIAS Criteria: Recovery = 71-125%, RPD ≤ 24%								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
Sample ID	Sample Value ng/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value ng/L	Measured Value ng/L	MS Recovery %	Spiked Value ng/L	Measured Value ng/L	MSD Recovery %	
07BR0667-04	66.2	183.5	242.9	96%	195.1	262.4	101%	8%
07BR0666-01	8.51	19.95	27.18	94%	20.15	28.65	100%	5%

1.0% BrCl Method Blanks (MB) Criterion: MB < 0.5 ng/L						Detection Limits	
MB1 ng/L	MB2 ng/L	MB3 ng/L	MB4 ng/L	Average ng/L	StDev ng/L	MB MDL ng/L	MB PQL ng/L
0.02	0.01	-0.02	-0.01	0.00	0.02	0.15	0.40

1% BrCl MB prepared in quadruplicate.

Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Sample Specific Detection Limits		
Sample ID	MDL ng/L	PQL ng/L
07BR0666-01	0.59	1.58
07BR0667-01	0.59	1.57
07BR0667-02	2.7	7.2
07BR0667-03	3.0	8.1
07BR0667-04	2.9	7.8

Sample Specific Detection Limits		
Sample ID	MDL ng/L	PQL ng/L
07BR0667-05	2.4	6.5
07BR0667-06	2.9	7.6
07BR0667-08	2.7	7.1
07BR0671-05	0.30	0.80

*Nicole C. Mead*  
Quality Assurance Officer  
*D. Hawley*  
Project Manager



# BROOKSRAND

TRACE METALS ANALYSIS & PRODUCTS

3958 6<sup>th</sup> Avenue NW

Seattle, WA 98107

www.brooksrand.com

Phone: 206-632-6206

Fax: 206-632-6017

Email: brl@brooksrand.com

## Sample Receiving Log

Tracking # **07BR0665**

Customer: Entrix, Inc.

Contact: Brian Frantz

Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

QA Level Standard

Sample Condition Intact

Shipping container intact? Yes

Shipping container type: Cooler

Shipping container temp: 3.4 °C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Due Date: 6/13/2007

Receiving Date: 5/16/2007

Receiving Time: 8:30 AM

Logged-in by: Carolyn Rosevelt

Log-in Date: 5/16/2007

Log-in Time: 12:15 PM

Airbill present? Yes

Airbill # 857329317458

Courier: FedEx

Custody seal present? Yes

Custody seal intact? Yes

COC Present? Yes

COC/Sample tag agree? Yes

COC Number: N/A

Comments:

Lab ID:

**01**

Sample Tag #: MFAR-10 RM9.0

Collection Date/Time: 5/14/2007, 3:50:00 PM

ContainerType and Lot #: FLPE bottle, 06-351

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: None

Acid Lot#: N/A

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg

EPA 1631

**02**

Sample Tag #: MFAR-10 RM9.0

Collection Date/Time: 5/14/2007, 3:50:00 PM

ContainerType and Lot #: HDPE bottle, 07-097

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: None

Acid Lot#: N/A

pH:

Filtered?: Yes

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Cd

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Cr

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Cu

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Fe

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Mg

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Ni

EPA 1638 Mod. (ICP-MS)

Analysis / Method: Pb

EPA 1638 Mod. (ICP-MS)

Lab ID:

*Admiral* 5/17/07 updated  
Sample Custodian signature Date  
*Admiral* 5/25/07  
Reviewed By signature Date

3958 6<sup>th</sup> Avenue NW

Phone: 206-632-6206

Seattle, WA 98107

Fax: 206-632-6017

www.brooksrand.com

Email: brl@brooksrand.com

## Sample Receiving Log

Tracking # 07BR0671

Customer: Entrix, Inc.

Contact: Brian Frantz

Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

Due Date: 6/14/2007

Receiving Date: 5/17/2007

Receiving Time: 8:30 AM

Logged-in by: Katie Jahanmir

Log-in Date: 5/17/2007

Log-in Time: 10:45 AM

Airbill present? Yes

Airbill # 857329316966

Courier: FedEx

QA Level Standard

Sample Condition Intact

Shipping container intact? Yes

Shipping container type: Cooler

Shipping container temp: 3.2 C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Custody seal present? Yes

Custody seal intact? Yes

COC Present? Yes

COC/Sample tag agree? No

COC Number: N/A

Comments: Samples labeled "SFLC-2 RM 2.0" and "SFLC-2 RM 2.0 QC" on the COC do not match the sample tags. Sample tags say ""SFLC-2 RM 2.5" and "SFLC-2 RM 2.5 QC". Samples logged in as on COC.

Lab ID:

01

Sample Tag #: LCC-1 RM 0.0

Collection Date/Time: 5/15/2007, 8:50:00 AM

ContainerType and Lot #: FLPE bottle, 06-325

Size: 500-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments: Extra Volume stored with sample

Analysis / Method: Hg

EPA 1631

03

Sample Tag #: SFLC -3

Collection Date/Time: 5/15/2007, 9:30:00 AM

ContainerType and Lot #: FLPE bottle, 06-351

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments: Extra Volume stored with sample

Analysis / Method: Hg

EPA 1631

05

Sample Tag #: NFLC - 3

Collection Date/Time: 5/15/2007, 10:20:00 AM

ContainerType and Lot #: FLPE bottle, 06-351

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg

EPA 1631

Lab ID:

06

Sample Tag #: SFLC -1 RM 2.0  
Collection Date/Time: 5/15/2007, 11:30:00 AM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments: Extra Volume stored with sample

Analysis / Method: Hg EPA 1631

08

Sample Tag #: SFLC -2 RM 2.0  
Collection Date/Time: 5/15/2007, 11:55:00 AM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments: Extra Volume stored with sample

Analysis / Method: Hg EPA 1631

10

Sample Tag #: NFLC-1 RM 2.5  
Collection Date/Time: 5/15/2007, 1:30:00 PM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631

11

Sample Tag #: NFLC-1 RM 3.0  
Collection Date/Time: 5/15/2007, 2:10:00 PM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631

12

Sample Tag #: LLC-1 RM 0.0  
Collection Date/Time: 5/15/2007, 8:50:00 AM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

Lab ID:

13                      Sample Tag #: SFLC-3                      Matrix/Sub-Matrix: Water,  
Collection Date/Time: 5/15/2007, 9:30:00 AM                      Preservation: none  
ContainerType and Lot #: HDPE bottle, 07-097                      Acid Lot#: n/a  
Size: 250-mL                      pH:                      Filtered?: Yes  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cd                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cr                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cu                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Fe                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Mg                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Ni                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Pb                      EPA 1638 Mod. (ICP-MS)

14                      Sample Tag #: NFLC-3                      Matrix/Sub-Matrix: Water,  
Collection Date/Time: 5/15/2007, 10:20:00 AM                      Preservation: none  
ContainerType and Lot #: HDPE bottle, 07-097                      Acid Lot#: n/a  
Size: 250-mL                      pH:                      Filtered?: Yes  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cd                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cr                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cu                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Fe                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Mg                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Ni                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Pb                      EPA 1638 Mod. (ICP-MS)

15                      Sample Tag #: SFLC-1 RM 2.0                      Matrix/Sub-Matrix: Water,  
Collection Date/Time: 5/15/2007, 11:30:00 AM                      Preservation: none  
ContainerType and Lot #: HDPE bottle, 07-097                      Acid Lot#: n/a  
Size: 250-mL                      pH:                      Filtered?: Yes  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cd                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cr                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Cu                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Fe                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Mg                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Ni                      EPA 1638 Mod. (ICP-MS)  
Analysis / Method: Pb                      EPA 1638 Mod. (ICP-MS)

16                      Sample Tag #: SFLC-2 RM 2.0                      Matrix/Sub-Matrix: Water,  
Collection Date/Time: 5/15/2007, 11:55:00 AM                      Preservation: none  
ContainerType and Lot #: HDPE bottle, 07-097                      Acid Lot#: n/a  
Size: 250-mL                      pH:                      Filtered?: Yes  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As                      EPA 1638 Mod. (ICP-MS)

## Lab ID:

Analysis / Method:	Cd	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cr	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cu	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Fe	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Mg	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Ni	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Pb	EPA 1638 Mod. (ICP-MS)

17

Sample Tag #: NFLC-1 RM 2.5  
Collection Date/Time: 5/15/2007, 1:30:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: Yes

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method:	As	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cd	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cr	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cu	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Fe	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Mg	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Ni	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Pb	EPA 1638 Mod. (ICP-MS)

18

Sample Tag #: NFLC-2 RM 3.0  
Collection Date/Time: 5/15/2007, 2:10:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: Yes

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method:	As	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cd	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cr	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cu	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Fe	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Mg	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Ni	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Pb	EPA 1638 Mod. (ICP-MS)

*C. Hawley* 5/18/07 updated  
Sample Custodian signature Date  
*C. Hawley* 5/10/07  
Reviewed By signature Date



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

## Chain Of Custody Record

Page 1 of 1

White: LAB COPY

Yellow: CUSTOMER COPY

Client: <b>ENTRIX</b>		COC receipt confirmation? (Y/N) <b>(N)</b>		Ship to: <b>Brooks Rand LLC</b>												
Contact: <b>Brian Frantz</b>		If yes, by Fax / Email (circle one)		3958 6 <sup>th</sup> Avenue NW												
Address: <b>390 Yonacio Valley rd, Ste 200</b>		Fax #: <b>925-935-5368</b>		Seattle, WA 98107												
Walnut Creek, CA 94596		Email:		Phone: 206-632-6206												
Phone #: <b>925-935-9920</b>		Sampler's name: <b>C. Dayde J Aldrin</b>		Fax: 206-632-6017												
PO #:		Client project ID: <b>ENTRIX</b>		Email: <b>samples@brooksrnd.com</b>												
		BRL project ID: <b>ENX002</b>		www.brooksrnd.com												
Collection			Miscellaneous		Analyses required				Comments							
Date	Time	Sampler (Initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / ice only	HCl/HNO <sub>3</sub> /BrCl (circle one)	Other (specify)								
Sample ID																
1	MPAR-10 RH9.0	5/14/07 15:50	DDJA	H2O	1	N	X	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify) <b>Pb, Cu, Cr, Ni, Fe, Mg, Mn</b>	Other (specify)	Other (specify)
2	MPAR-10 RH9.0	5/14/07 15:50	DDJA	H2O	1	Y	X									
3																
4																
5																
6																
7																
8																
9																
10																
Relinquished by: <b>Audrey</b>			Date: <b>5/14/07</b>		Time: <b>18:00</b>		Received by:				Date:		Time:			
Relinquished by:			Date:		Time:		Received at BRL by:				Date: <b>5/16/07</b>		Time: <b>08:30</b>			
Shipping carrier:			# of coolers:		BRL Tracking #: <b>01BKR0665</b>											





**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

## Chain Of Custody Record

Page 1 of 2  
White: LAB COPY  
Yellow: CUSTOMER COPY

Client: <b>ENTRIX</b>		COC receipt confirmation? (Y/N) <b>(N)</b>		Ship to: <b>Brooks Rand LLC</b>																															
Contact: <b>BRIAN FRANTZ</b>		If yes, by Fax / Email (circle one)		3958 6 <sup>th</sup> Avenue NW																															
Address: <b>590 YONAGO VALLEY RD STE 200</b>		Fax #:		Seattle, WA 98107																															
<b>WALNUT CREEK, CA 94596</b>		Email:		Phone: 206-632-6206																															
Phone #: <b>925-935-9920</b>		Sampler's name: <b>C. Dayde J Aldrin</b>		Fax: 206-632-6017																															
PO #:		Client project ID:		Email: <a href="mailto:samples@brooksrand.com">samples@brooksrand.com</a>																															
		BRL project ID: <b>ENX002</b>		<a href="http://www.brooksrand.com">www.brooksrand.com</a>																															
Collection		Miscellaneous		Field Preservation		Analyses required					Comments																								
Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / Ice only	HCl/HNO <sub>3</sub> /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration	Other <sup>As Cd Cr Cu Fe Ni Hg Pb</sup> (specify)	Other (specify)	Other (specify)																		
<b>Sample ID</b>																		1	LCC-1 RM10-0	5/15/07 8:50	CDJA	H <sub>2</sub> O	2		X		X								
																		2	LCC-1 RM10-0-QC	5/15 8:50	CDJA	H <sub>2</sub> O	1	N	X		X								
																		3	SFLC-3 -	5/15 9:30	CDJA	H <sub>2</sub> O	2		X		X								
																		4	SFLC-3 QC	5/15 9:30	CDJA	H <sub>2</sub> O	1		X		X								
																		5	NFLC-3 -	5/15 10:20	CDJA	H <sub>2</sub> O	2		X		X								
																		6	SFLC-1 RM12-0	5/15 11:30	CDJA	H <sub>2</sub> O	2		X		X								
																		7	SFLC-1 RM12-0-QC	5/15 11:30	CDJA	H <sub>2</sub> O	1		X		X								
																		8	SFLC-2 RM12-0	5/15 11:55	CDJA	H <sub>2</sub> O	2		X		X								
																		9	SFLC-2 RM12-0-QC	5/15 11:55	CDJA	H <sub>2</sub> O	1		X		X								
																		10	NFLC-1 RM12-5	5/15 13:30	CDJA	H <sub>2</sub> O	2		X		X								
Relinquished by: <b>CDJA</b>		Date: <b>5/15/07</b>	Time: <b>17:30</b>	Received by:		Date: <b>5/17/07</b>		Time: <b>0830</b>																											
Relinquished by:		Date:	Time:	Received at BRL by: <b>[Signature]</b>		Date: <b>5/17/07</b>		Time: <b>0830</b>																											
Shipping carrier:		# of coolers:		BRL Tracking #:		<b>07BR0671</b>																													

Page 2 of 2

**DIPOLOIN**  
TRACE METALS ANALYSIS & PRODUCTS

**White: LAB COPY**

**Yellow: CUSTOMER COPY**

Client: ENTRIX		COC receipt confirmation? (Y/N) If yes, by Fax / Email (circle one)		Ship to: Brooks Rand LLC 3958 6 <sup>th</sup> Avenue NW Seattle, WA 98107 Phone: 206-632-6206 Fax: 206-632-6017 Email: samples@brooksrand.com www.brooksrand.com														
Contact: BRIAN FRANTZ		Fax #:																
Address: 590 YAKIMO VALLEY RD STE 200 WALNUT CREEK, CA 94596		Email:																
Phone #: 925-935-9920		Sampler's name: C. Dayde J Aldrich																
PO #:		Client project ID:																
		BRL project ID: ENX002																
Collection		Miscellaneous		Field Preservation		Analyses required					Comments							
Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / ice only	HCl/HNO <sub>3</sub> /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration	Other As Cd Cr Cu Fe Ni Hg Pb	Other (specify)	Other (specify)	
1	5/15/15	RT30	h2o	2		X			X									
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
Relinquished by: C. Dayde		Date: 5/15/15		Time: 5:30pm		Received by:		Date:		Time:								
Relinquished by:		Date:		Time:		Received at BRL by: C. Dayde		Date: 5/17/15		Time: 0830								
Shipping carrier:		# of coolers:		BRL Tracking #: 02BRL0671														