



November 2, 2007

Entrix, Inc
Jillian Aldrin
701 University Ave, Suite 200
Sacramento, CA 95825

RE: Brooks Rand Project: ENX002; Report #: 07BR1389 & 07BR1397

Dear Ms. Aldrin,

Six containers were received by Brooks Rand Labs (BRL) on September 28, 2007 and were assigned the BRL internal tracking number 07BR1389. Another eight containers were received on October 3, 2007 and were assigned the BRL internal tracking number 07BR1397. 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). Upon notification from the client, manganese (Mn) was added to the requested analyses of these samples and will be reported separately at a later date.

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 water samples were field filtered by the client through pre-cleaned 0.45- μ m filtration units.

Results less than or equal to the method detection limit (MDL) have been qualified "U" for non-detect and have been reported at the MDL. Results above the MDL and less than or equal to the practical quantitation limit (PQL) have been qualified "B" and should be considered estimates. Please refer to the Quality Assurance (QA) Summaries for QA details. All QA criteria were met with the exception detailed below.

Batch 07-1139a

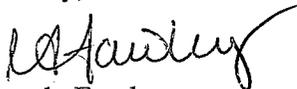
Several samples analyzed for Fe in batch #07-1139a produced highly negative results most likely due to a polyatomic interference. When comparing the field blank samples submitted (DI water supplied by the lab) to the native samples, an apparent matrix constituent in the native samples caused an over-correction of the results, leading to negative final calculated concentrations. High levels of calcium in the samples could cause such an over-correction. All results for Fe are reported as non-detects and, therefore, there is no reason to believe that the inference masks what might have been an otherwise quantifiable level of Fe.

-i-

Three matrix spike/matrix spike duplicate (MS/MSD) sets were prepared with this batch. Two yielded acceptable recoveries for Fe; however, the third MS/MSD set prepared on sample "LCC-2 RM0.0" (07BR1389-04) produced low recoveries for Fe. This sample displayed the greatest influence of possible polyatomic interferences indicating potentially stronger matrix effects with this sample. As such, the Fe result for this sample has been qualified "N" for not meeting the spike recovery criteria. All other QA criteria were met including the analyses of four continuing calibration verification (CCV) standards, an independent calibration verification (ICV) standard, and two other MS/MSD sets. Therefore, no further qualification of the data was required. No additional qualification of the data 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 Manager
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: Jillian Aldrin

701 University Ave Suite 200

Sacramento CA 95825

Tel: 916-386-3824

Lab Project # ENX002

Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
LCC-2 RM0.0	9/27/2007	Water		07BR1389 - 01	9/28/2007
RR-5 RM3.5	9/27/2007	Water		07BR1389 - 02	9/28/2007
RR-6 RM3.0	9/27/2007	Water		07BR1389 - 03	9/28/2007
LCC-2 RM0.0	9/27/2007	Water		07BR1389 - 04	9/28/2007
RR-5 RM3.5	9/27/2007	Water		07BR1389 - 05	9/28/2007
RR-6 RM3.0	9/27/2007	Water		07BR1389 - 06	9/28/2007

Friday, November 02, 2007


Project Manager

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Lab Project # ENX002
Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Hg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 01	T	10/10/2007	10/17/2007	07-1142	0.360	ng/L	
RR-5 RM3.5	07BR1389 - 02	T	10/10/2007	10/17/2007	07-1142	0.150	ng/L	U
RR-6 RM3.0	07BR1389 - 03	T	10/10/2007	10/17/2007	07-1142	0.170	ng/L	B

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Lab Services Agreement ENX002

As

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/17/2007	07-1139	0.210	µg/L	
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/17/2007	07-1139	0.120	µg/L	B
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/17/2007	07-1139	0.130	µg/L	B

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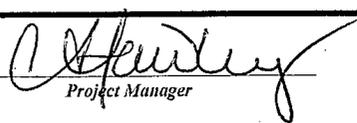
Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Cd

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/17/2007	07-1139	0.004	µg/L	U
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/17/2007	07-1139	0.004	µg/L	U
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/17/2007	07-1139	0.004	µg/L	U

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Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Cr

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/17/2007	07-1139	0.030	µg/L	U
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/17/2007	07-1139	0.060	µg/L	B
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/17/2007	07-1139	0.060	µg/L	B

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Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Cu

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/17/2007	07-1139	0.300	µg/L	
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/17/2007	07-1139	0.280	µg/L	
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/17/2007	07-1139	0.270	µg/L	

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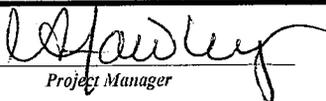
Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Fe

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U, N
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U

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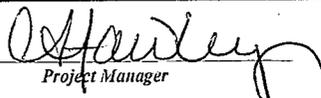
Lab Project # ENX002
Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Mg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/17/2007	07-1139	2,010.000	µg/L	
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/17/2007	07-1139	905.000	µg/L	
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/17/2007	07-1139	972.000	µg/L	

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Lab Project # ENX002

Lab Tracking # 07BR1389

Lab Services Agreement ENX002

Ni

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U

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Lab Project # ENX002

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Lab Services Agreement ENX002

Pb

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-2 RM0.0	07BR1389 - 04	D	10/16/2007	10/18/2007	07-1139a	0.015	µg/L	B
RR-5 RM3.5	07BR1389 - 05	D	10/16/2007	10/18/2007	07-1139a	0.010	µg/L	U
RR-6 RM3.0	07BR1389 - 06	D	10/16/2007	10/18/2007	07-1139a	0.011	µg/L	B

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Lab Project # ENX002

Lab Tracking # 07BR1397

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
HH-1	10/1/2007	Water		07BR1397 - 01	10/3/2007
HH-1 (S)	10/1/2007	Water		07BR1397 - 02	10/3/2007
HH-2	10/1/2007	Water		07BR1397 - 03	10/3/2007
HH-2 (S)	10/1/2007	Water		07BR1397 - 04	10/3/2007
HH-1	10/1/2007	Water		07BR1397 - 05	10/3/2007
HH-1 (S)	10/1/2007	Water		07BR1397 - 06	10/3/2007
HH-2	10/1/2007	Water		07BR1397 - 07	10/3/2007
HH-2 (S)	10/1/2007	Water		07BR1397 - 08	10/3/2007

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Lab Services Agreement ENX002

Hg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 01	T	10/10/2007	10/17/2007	07-1142	0.430	ng/L	
HH-1 (S)	07BR1397 - 02	T	10/10/2007	10/17/2007	07-1142	0.350	ng/L	B
HH-2	07BR1397 - 03	T	10/10/2007	10/17/2007	07-1142	0.400	ng/L	B
HH-2 (S)	07BR1397 - 04	T	10/10/2007	10/17/2007	07-1142	0.320	ng/L	B

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Tel: 916-386-3824

Lab Project # ENX002
Lab Tracking # 07BR1397

Lab Services Agreement ENX002

As

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/17/2007	07-1139	0.210	µg/L	
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/17/2007	07-1139	0.210	µg/L	
HH-2	07BR1397 - 07	D	10/16/2007	10/17/2007	07-1139	0.190	µg/L	B
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/17/2007	07-1139	0.220	µg/L	

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Lab Project # ENX002

Lab Tracking # 07BR1397

Lab Services Agreement ENX002

Cd

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/17/2007	07-1139	0.004	µg/L	U
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/17/2007	07-1139	0.004	µg/L	U
HH-2	07BR1397 - 07	D	10/16/2007	10/17/2007	07-1139	0.014	µg/L	
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/17/2007	07-1139	0.004	µg/L	U

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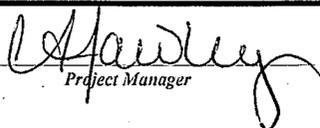
Lab Tracking # 07BR1397

Lab Services Agreement ENX002

Cr

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/17/2007	07-1139	0.030	µg/L	U
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/17/2007	07-1139	0.030	µg/L	U
HH-2	07BR1397 - 07	D	10/16/2007	10/17/2007	07-1139	0.050	µg/L	B
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/17/2007	07-1139	0.030	µg/L	U

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Lab Services Agreement ENX002

Cu

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/17/2007	07-1139	0.280	µg/L	
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/17/2007	07-1139	0.270	µg/L	
HH-2	07BR1397 - 07	D	10/16/2007	10/17/2007	07-1139	0.350	µg/L	
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/17/2007	07-1139	0.260	µg/L	

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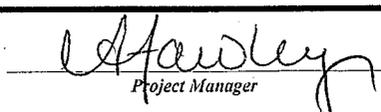
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Lab Services Agreement ENX002

Fe

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U
HH-2	07BR1397 - 07	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/18/2007	07-1139a	1.400	µg/L	U

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Mg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/17/2007	07-1139	614.000	µg/L	
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/17/2007	07-1139	613.000	µg/L	
HH-2	07BR1397 - 07	D	10/16/2007	10/17/2007	07-1139	628.000	µg/L	
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/17/2007	07-1139	643.000	µg/L	

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Lab Services Agreement ENX002

Ni

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-1	07BR1397 - 05	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U
HH-2	07BR1397 - 07	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/18/2007	07-1139a	0.040	µg/L	U

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Pb

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HH-1	07BR1397 - 05	D	10/16/2007	10/18/2007	07-1139a	0.010	µg/L	U
HH-1 (S)	07BR1397 - 06	D	10/16/2007	10/18/2007	07-1139a	0.010	µg/L	U
HH-2	07BR1397 - 07	D	10/16/2007	10/18/2007	07-1139a	0.025	µg/L	B
HH-2 (S)	07BR1397 - 08	D	10/16/2007	10/18/2007	07-1139a	0.010	µg/L	U

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Project Manager

QUALITY ASSURANCE SUMMARY



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

3958 6th Avenue NW
Seattle, WA 98107
Voice: 206-632-6206
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Batch #: 07-1142

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	4.93	99%
CCV2	5.00	4.89	98%
CCV3	5.00	5.12	102%
CCV4	5.00	4.72	94%

BIAS *Criterion: Recovery = 85-115%*
Independent Calibration Verification (ICV)

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	15.83	99%

* 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 %	
07BR1388-01	7.13	35.31	47.39	114%	35.35	47.12	113%	1%
07BR1397-02	0.35	1.81	2.34	110%	1.81	2.39	113%	2%

1.0% BrCl Method Blanks (MB) *Criterion: MB ≤ 0.5 ng/L, StDev ≤ 2/3 MDL* Method 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
0.03	0.06	0.03	0.00	0.03	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
07BR1374-02	3.0	8.1
07BR1403-05	3.1	8.2
07BR1403-06	3.0	8.1

J. M. Brooksrand
Quality Assurance Officer

C. 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 #: 07-1139

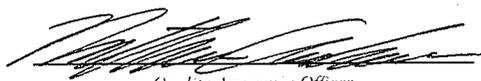
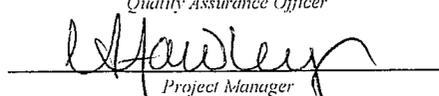
Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

Matrix: Water

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
Analyte	Certified Value µg/L	Measured Value µg/L	Recovery %
Mg	50.00	52.01	104%
Cr	50.00	48.91	98%
Cu	50.00	50.06	100%
As	50.00	47.01	94%
Cd	5.000	5.055	101%

BIAS Criteria: Recovery = 75-125%						
Certified Reference Materials (CRM)						
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	5361	92%	8037	7388	92%
Cr	38.60	37.03	96%	20.40	20.72	102%
Cu	85.20	87.27	102%	22.76	22.87	100%
As	26.67	24.95	94%	60.45	53.03	88%
Cd	22.79	22.79	100%	6.57	6.43	98%


 Quality Assurance Officer

 Project Manager

QUALITY ASSURANCE SUMMARY

Batch #: 07-1139 (Cont.)

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

Analyte: Trace Metals

Matrix: Water

BIAS Criteria: Recovery = 75-125%, RPD ≤25%

Sample 07BR1389-04 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	2012	2000	3959	97%	2000	3951	97%	0%
Cr	0.03	1.00	0.80	77%	1.00	0.80	77%	0%
Cu	0.30	1.00	1.26	95%	1.00	1.24	94%	1%
As	0.21	1.00	1.06	85%	1.00	1.05	84%	1%
Cd	0.001	0.500	0.472	94%	0.500	0.458	91%	3%

PRECISION Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL

Sample 07BR1389-04 Method Duplicate Analysis (MD)

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	2012	2029	2020	1%
Cr	0.03	0.05	0.04	*
Cu	0.30	0.33	0.32	*
As	0.21	0.23	0.22	*
Cd	0.001	0.001	0.001	*

* Results are < 5x PQL and +/- PQL

BIAS Criteria: Recovery = 75-125%, RPD ≤25%

Sample 07BR1397-07 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

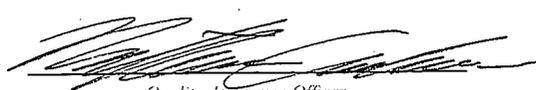
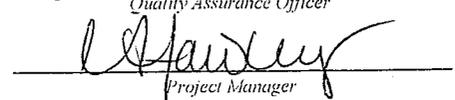
Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	628.3	2000	2701	104%	2000	2609	99%	3%
Cr	0.05	1.00	0.84	79%	1.00	0.81	76%	4%
Cu	0.35	1.00	1.35	100%	1.00	1.32	97%	2%
As	0.19	1.00	1.08	89%	1.00	1.03	84%	5%
Cd	0.014	0.500	0.475	92%	0.500	0.466	91%	2%

PRECISION Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL

Sample 07BR1397-07 Method Duplicate Analysis (MD)

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	628.3	636.4	632.4	1%
Cr	0.05	0.05	0.05	*
Cu	0.35	0.37	0.36	*
As	0.19	0.22	0.20	*
Cd	0.014	0.014	0.014	*

* Results are < 5x PQL and +/- PQL


 Quality Assurance Officer

 Project Manager

QUALITY ASSURANCE SUMMARY

Batch #: 07-1139 (Cont.)

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

Analyte: Trace Metals

Matrix: Water

Criteria: Recovery = 75-125%, RPD ≤ 25%

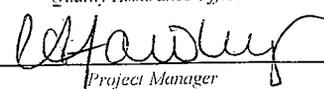
BIAS Sample 07BR1399-30 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)								
Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	681.5	2000	2789	105%	2000	2835	108%	2%
Cr	-0.09	1.00	0.69	78%	1.00	0.70	79%	1%
Cu	0.22	1.00	1.25	103%	1.00	1.22	100%	2%
As	0.15	1.00	0.99	84%	1.00	1.04	89%	5%
Cd	0.002	0.500	0.474	94%	0.500	0.483	96%	2%

Criteria: RPD ≤ 25% or results +/- PQL if ≤ 5x PQL

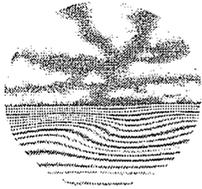
PRECISION Sample 07BR1399-30 Method Duplicate Analysis (MD)				
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	681.5	659.9	670.7	3%
Cr	-0.09	-0.10	-0.09	*
Cu	0.22	0.21	0.21	*
As	0.15	0.14	0.15	*
Cd	0.002	0.003	0.002	*

* Results are < 5x PQL and +/- PQL

Method Blanks (MB)							Method Detection Limits	
Analyte	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L	MDL	PQL
							µg/L	µg/L
Mg	-1.1	-1.2	-1.1	-1.2	-1.2	0.043	0.6	3.0
Cr	-0.04	-0.03	-0.03	-0.03	-0.03	0.003	0.03	0.15
Cu	0.00	0.00	0.00	0.00	0.00	0.001	0.04	0.20
As	0.00	-0.01	0.01	0.01	0.00	0.010	0.06	0.20
Cd	0.000	0.000	0.0002	-0.0001	0.000	0.000	0.004	0.010


 Quality Assurance Officer

 Project Manager

QUALITY ASSURANCE SUMMARY



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TRACE METALS ANALYSIS & PRODUCTS

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Seattle, WA 98107
Voice: 206-632-6206
Fax: 206-632-6017

Batch #: 07-1139a

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

Analyte: Trace Metals

Matrix: Water

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
Analyte	Certified Value µg/L	Measured Value µg/L	Recovery %
Fe	50.0	46.5	93%
Ni	50.00	50.97	102%
Pb	5.000	5.072	101%

The ICV recovery for Pb is reported from the analysis of ICV1. All other recoveries are reported from the analysis of ICV2.

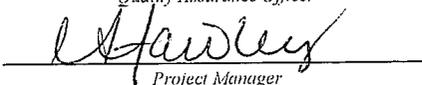
BIAS Criteria: Recovery = 75-125%						
Certified Reference Materials (CRM)						
Analyte	NIST 1640			NIST 1643e		
	Certified Value µg/L	Measured Value µg/L	Recovery %	Certified Value µg/L	Measured Value µg/L	Recovery %
Fe	34.3	25.8	75%	98.1	100.4	102%
Ni	27.4	28.0	102%	62.41	65.13	104%
Pb	27.89	27.76	100%	19.63	19.99	102%

BIAS Criteria: Recovery = 75-125%, RPD ≤25%								
Sample 07BR1389-04 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 %	
Fe	-5.0	20.0	9.9	74%	20.0	9.6	73%	4%
Ni	0.01	1.00	0.82	81%	1.00	0.78	77%	5%
Pb	0.015	0.500	0.510	99%	0.500	0.493	96%	3%

Low MS/MSD recoveries for Fe, see narrative.

PRECISION Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL				
Sample 07BR1389-04 Method Duplicate Analysis (MD)				
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Fe	-5.0	-6.4	-5.7	*
Ni	0.01	0.05	0.03	*
Pb	0.015	0.010	0.013	*

*Results are < 5x PQL and +/- PQL.


 Quality Assurance Officer

 Project Manager

QUALITY ASSURANCE SUMMARY

Batch #: 07-1139a (continued)

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

Analyte: Trace Metals

Matrix: Water

BIAS		Criteria: Recovery = 75-125%, RPD ≤25%						
Sample 07BR1397-07 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 %	
Fe	-1.5	20.0	15.8	86%	20.0	14.5	80%	8%
Ni	0.02	1.00	0.86	83%	1.00	0.84	82%	2%
Pb	0.025	0.500	0.506	96%	0.500	0.506	96%	0%

PRECISION		Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL		
Sample 07BR1397-07 Method Duplicate Analysis (MD)				
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Fe	-1.5	-1.6	-1.5	*
Ni	0.02	0.02	0.02	*
Pb	0.025	0.025	0.025	*

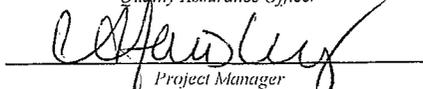
*Results are < 5x PQL and +/- PQL.

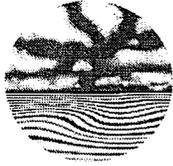
BIAS		Criteria: Recovery = 75-125%, RPD ≤25%						
Sample 07BR1399-30 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)								
Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Fe	-0.2	20.0	17.3	88%	20.0	15.9	81%	8%
Ni	0.01	1.00	0.90	88%	1.00	0.86	85%	4%
Pb	0.009	0.500	0.485	95%	0.500	0.480	94%	1%

PRECISION		Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL		
Sample 07BR1399-30 Method Duplicate Analysis (MD)				
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Fe	-0.2	-0.7	-0.4	*
Ni	0.01	0.01	0.01	*
Pb	0.009	0.008	0.008	*

*Results are < 5x PQL and +/- PQL.

Method Blanks (MB)							Method Detection Limits	
Criteria: Avg. ≤PQL and StDev ≤MDL or < 1/10th sample result							MDL	PQL
Analyte	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L	µg/L	µg/L
Fe	0.3	-0.5	0.6	-0.7	-0.1	0.6	1.4	5.0
Ni	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.04	0.20
Pb	0.000	0.001	0.003	0.001	0.001	0.001	0.010	0.050


 Quality Assurance Officer

 Project Manager



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

3958 6 th Avenue NW	Phone: 206-632-6206
Seattle, WA 98107	Fax: 206-632-6017
www.brooksrand.com	Email: brl@brooksrand.com

Sample Receiving Log

Tracking # **07BR1389**

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: 10.4 °C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Due Date: 10/26/2007

Receiving Date: 9/28/2007

Receiving Time: 8:45 AM

Logged-in by: Carolyn Rosevelt

Log-in Date: 9/28/2007

Log-in Time: 3:11 PM

Airbill present? Yes

Airbill # 862166296351

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 #: LCC-2 RM0.0	Matrix/Sub-Matrix: Water,
	Collection Date/Time: 9/27/2007, 10:00:00 AM	Preservation: None
	ContainerType and Lot #: FLPE bottle, 07-199	Acid Lot#: N/A
	Size: 250-mL	pH: Filtered?: No
		Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

02	Sample Tag #: RR-5 RM3.5	Matrix/Sub-Matrix: Water,
	Collection Date/Time: 9/27/2007, 9:45:00 AM	Preservation: None
	ContainerType and Lot #: FLPE bottle, 07-199	Acid Lot#: N/A
	Size: 250-mL	pH: Filtered?: No
		Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

03	Sample Tag #: RR-6 RM3.0	Matrix/Sub-Matrix: Water,
	Collection Date/Time: 9/27/2007, 10:20:00 AM	Preservation: None
	ContainerType and Lot #: FLPE bottle, 07-199	Acid Lot#: N/A
	Size: 250-mL	pH: Filtered?: No
		Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

Lab ID:

04

Sample Tag #: LCC-2 RM0.0
Collection Date/Time: 9/27/2007, 10:00:00 AM
ContainerType and Lot #: HDPE bottle, 07-215
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: None
Acid Lot#: N/A
pH: Filtered?: Yes
Sample Storage Location: Cabinet #5

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)

05

Sample Tag #: RR-5 RM3.5
Collection Date/Time: 9/27/2007, 9:45:00 AM
ContainerType and Lot #: HDPE bottle, 07-215
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: None
Acid Lot#: N/A
pH: Filtered?: Yes
Sample Storage Location: Cabinet #5

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)

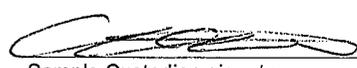
06

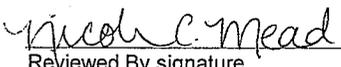
Sample Tag #: RR-6 RM3.0
Collection Date/Time: 9/27/2007, 10:20:00 AM
ContainerType and Lot #: HDPE bottle, 07-215
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: None
Acid Lot#: N/A
pH: Filtered?: Yes
Sample Storage Location: Cabinet #5

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)


Sample Custodian signature
Date: 9/28/07


Reviewed By signature
Date: 10/1/07



Sample Receiving Log

Tracking # **07BR1397**

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: 6.0 C
Shipping container coolant: Ice

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 10/31/2007
Receiving Date: 10/3/2007
Receiving Time: 9:00 AM
Logged-in by: Katie Jahanmir
Log-in Date: 10/3/2007
Log-in Time: 11:01 AM

Airbill present? Yes
Airbill # 862166296031
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 #: HH-1	Matrix/Sub-Matrix: Water,
Collection Date/Time: 10/1/2007, 2:15:00 PM	Preservation: none	Acid Lot#: n/a
Container Type and Lot #: FLPE bottle, 07-199	pH:	Filtered?: No
Size: 250-mL	Sample Storage Location: Cabinet #5	

Comments:

Analysis / Method: Hg EPA 1631

02	Sample Tag #: HH-1 (S)	Matrix/Sub-Matrix: Water,
Collection Date/Time: 10/1/2007, 2:55:00 PM	Preservation: none	Acid Lot#: n/a
Container Type and Lot #: FLPE bottle, 07-162	pH:	Filtered?: No
Size: 500-mL	Sample Storage Location: Cabinet #5	

Comments:

Analysis / Method: Hg EPA 1631

03	Sample Tag #: HH-2	Matrix/Sub-Matrix: Water,
Collection Date/Time: 10/1/2007, 12:50:00 PM	Preservation: none	Acid Lot#: n/a
Container Type and Lot #: FLPE bottle, 07-199	pH:	Filtered?: No
Size: 250-mL	Sample Storage Location: Cabinet #5	

Comments:

Analysis / Method: Hg EPA 1631

Lab ID:

08

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-2 (S)

Preservation: none

Collection Date/Time: 10/1/2007, 12:00:00 PM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-215

pH:

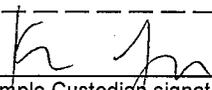
Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

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)


Sample Custodian signature

10/3/07
Date


Reviewed By signature

10/1/07
Date



Chain Of Custody Record

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

Client: ENTRIX
 Contact: CORALIE DAYDE
 Address: 2300 CLAYTON RD, Ste 200
 CONCORD, CA 94520
 Phone #: 925-988-1234
 PO #:

COC receipt confirmation? (Y/N)
 If yes, by Fax / Email (circle one)
 Fax #:
 Email:
 Sampler's name: C. DAYDE / J. ALDRIN
 Client project ID: FCWA WQ
 BRL project ID: ENX002

Ship to: Brooks Rand LLC
 3958 6th Avenue NW
 Seattle, WA 98107
 Phone: 206-632-6206
 Fax: 206-632-6017
 Email: samples@brooksrand.com
 www.brooksrand.com

Sample ID	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 ₃ /BCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids		Filtration	Other (specify) Cu, Fe, Ni, Pb, As, Cd, Cr	Other (specify)	Other (specify)		
1	9/27/00	1000	CD, JA	H ₂ O	2	Y/N*	X		X											*Hg not filtered, other metals field filtered	
2	9/27/04	0745	CD, JA	H ₂ O	2	Y/N*	X		X												
3	9/27/00	0800	CD, JA	H ₂ O	2	Y/N*	X		X												
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: Coralie Dayde Date: 9/27/07 Time: 1330
 Relinquished by: Date: Time:
 Shipping carrier: # of coolers:
 Received by: Date: Time:
 Received at BRL by: Date: 7/28/07 Time: 0845
 BRL Tracking #: 07P84389



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

Chain Of Custody Record

Client: ENTRIX	COC receipt confirmation? (Y / N) If yes, by Fax / Email (circle one)	Ship to: Brooks Rand LLC
Contact: CORALIE DAYDE	Fax #:	3958 6 th Avenue NW
Address: 2300 CLAYTON RD, Ste 200 CONCORD, CA 94520	Email:	Seattle, WA 98107
Phone #: 925-988-1234	Sampler's name: C. DAYDE / J. ALDRIN	Phone: 206-632-6206
PO #:	Client project ID: PCWA WP	Fax: 206-632-6017
	BRL project ID: ENX002	Email: samples@brooksrand.com
		www.brooksrand.com

Sample ID	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 ₃ /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)		% Solids	Filtration	Other (specify) <i>As, Cd, Cr, Pb, Cu, Fe, Ni, Hg</i>	Other (specify)	Other (specify)		
1 HH-1	11/07	1415	CD,JA	H ₂ O	2	Y/N ^W	X		X							X				*Hg not filtered, other metals field filtered	
2 HH-1 (S)	11/07	1455	CD,JA	H ₂ O	2	Y/N ^W	X		X							X					
3 HH-2	11/07	1250	CD,JA	H ₂ O	2	Y/N ^W	X		X							X					
4 HH-2 (S)	11/07	1200	CD,JA	H ₂ O	2	Y/N ^W	X		X							X					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: Julia Wade	Date: 11/07	Time: 1900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL by: [Signature]	Date: 10/31/17	Time: 9000
Shipping carrier:	# of coolers:		BRL Tracking #: 076R1397		