



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

June 25, 2007

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

RE: Brooks Rand Project: ENX002; Report #: 07BR0763 & 07BR0771

Dear Mr. Frantz,

Four containers were received by Brooks Rand Labs (BRL) on May 31, 2007 and were assigned the BRL internal tracking number 07BR0763. Another fourteen containers, including two field blanks, were received on June 1, 2007 and were assigned the BRL internal tracking number 07BR0761. 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 water samples were field filtered by the client through pre-cleaned 0.45- μ m filtration units. Please refer to the Quality Assurance (QA) Summaries for QA details.

Due to an analytical error, the fourth method blank (MB) was not used to MB correct the results in Hg batch #07-0620. These results were blank-corrected with the average of the three remaining MBs.

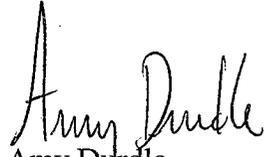
The Cu concentration in the "Field Blank" (07BR0771-14) sample was above the method detection limit (MDL) and below the practical quantitation limit (PQL). Although this result was above the MDL, it was unquantifiable and not representative of contamination in the associated samples.

Due to a previous contamination issue, the certified reference material (CRM) NIST 1643e is no longer certified for Fe, therefore the Fe recovery was not applicable. Results less than or equal to the 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 PQL have been qualified "B" and should be considered estimates. All QA criteria were met. 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@brooksrands.com


Amy Durdle
Project Coordinator
amy@brooksrands.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 # 07BR0763

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
RA-1	5/28/2007	Water		07BR0763 - 01	5/31/2007
RA-1 (S)	5/28/2007	Water		07BR0763 - 02	5/31/2007
RA-1	5/28/2007	Water		07BR0763 - 03	5/31/2007
RA-1 (S)	5/28/2007	Water		07BR0763 - 04	5/31/2007

Friday, June 22, 2007


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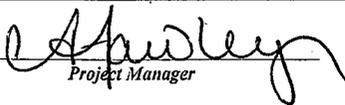
Lab Project # ENX002
Lab Tracking # 07BR0763

Lab Services Agreement ENX002

As

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.200	µg/L	B
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.220	µg/L	

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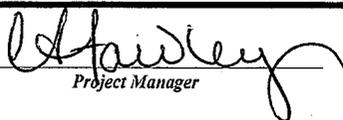
Lab Tracking # 07BR0763

Lab Services Agreement ENX002

Cd

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U

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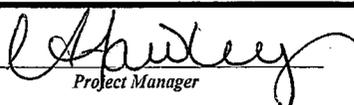
Lab Tracking # 07BR0763

Lab Services Agreement ENX002

Cr

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U

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Cu

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.390	µg/L	
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.340	µg/L	

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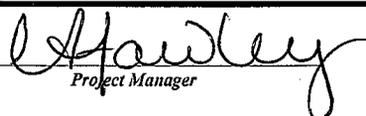
Lab Tracking # 07BR0763

Lab Services Agreement ENX002

Fe

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	8.300	µg/L	
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	5.400	µg/L	

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Hg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 01	T	6/1/2007	6/5/2007	07-0567	0.680	ng/L	
RA-1 (S)	07BR0763 - 02	T	6/1/2007	6/5/2007	07-0567	0.340	ng/L	B

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Mg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	862.000	µg/L	
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	1,020.000	µg/L	

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Ni

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.090	µg/L	B
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.090	µg/L	B

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U

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Lab Tracking # 07BR0771

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
FM-1	5/31/2007	Water		07BR0771 - 01	6/1/2007
FM-1 (S)	5/31/2007	Water		07BR0771 - 02	6/1/2007
FM-2	5/31/2007	Water		07BR0771 - 03	6/1/2007
FM-2 (S)	5/31/2007	Water		07BR0771 - 04	6/1/2007
FM-3	5/31/2007	Water		07BR0771 - 05	6/1/2007
FM-3 (S)	5/31/2007	Water		07BR0771 - 06	6/1/2007
Field Blank	5/31/2007	Water	Blank	07BR0771 - 07	6/1/2007
FM-1	5/31/2007	Water		07BR0771 - 08	6/1/2007
FM-1 (S)	5/31/2007	Water		07BR0771 - 09	6/1/2007
FM-2	5/31/2007	Water		07BR0771 - 10	6/1/2007
FM-2 (S)	5/31/2007	Water		07BR0771 - 11	6/1/2007
FM-3	5/31/2007	Water		07BR0771 - 12	6/1/2007
FM-3 (S)	5/31/2007	Water		07BR0771 - 13	6/1/2007
Field Blank	5/31/2007	Water	Blank	07BR0771 - 14	6/1/2007

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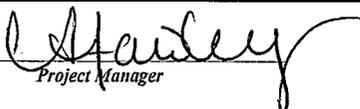
Lab Tracking # 07BR0771

Lab Services Agreement ENX002

As

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.120	µg/L	B
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.130	µg/L	B
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.110	µg/L	B
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.130	µg/L	B
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.120	µg/L	B
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.110	µg/L	B
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.060	µg/L	U

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Lab Services Agreement ENX002

Cd

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U

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Lab Services Agreement ENX002

Cr

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.220	µg/L	
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.190	µg/L	B
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.180	µg/L	B
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.190	µg/L	B
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.180	µg/L	B
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.180	µg/L	B
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.090	µg/L	B

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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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	2.200	µg/L	B
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	4.100	µg/L	B
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U

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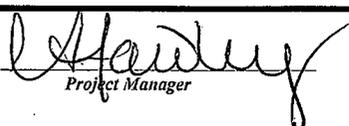
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Lab Services Agreement ENX002

Hg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 01	T	6/14/2007	6/15/2007	07-0620	0.860	ng/L	
FM-1 (S)	07BR0771 - 02	T	6/14/2007	6/15/2007	07-0620	0.290	ng/L	B
FM-2	07BR0771 - 03	T	6/14/2007	6/15/2007	07-0620	0.420	ng/L	
FM-2 (S)	07BR0771 - 04	T	6/14/2007	6/15/2007	07-0620	0.350	ng/L	B
FM-3	07BR0771 - 05	T	6/14/2007	6/15/2007	07-0620	0.610	ng/L	
FM-3 (S)	07BR0771 - 06	T	6/14/2007	6/15/2007	07-0620	0.340	ng/L	B
Field Blank	07BR0771 - 07	T	6/14/2007	6/15/2007	07-0620	0.150	ng/L	U

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Lab Services Agreement ENX002

Mg

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FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	608.000	µg/L	
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	626.000	µg/L	
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	582.000	µg/L	
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	641.000	µg/L	
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	585.000	µg/L	
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	593.000	µg/L	
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.600	µg/L	U

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Ni

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FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U

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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

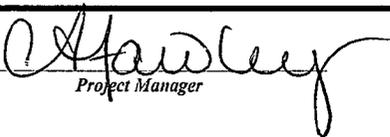
Lab Project # ENX002
Lab Tracking # 07BR0771

Lab Services Agreement ENX002

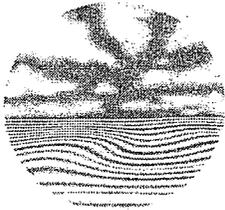
Pb

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U

Friday, June 22, 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 #: 07-0567

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	5.37	107%
CCV2	5.00	4.80	96%
CCV3	5.00	4.87	97%

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	15.81	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 %	
07BR0741-01	0.41	2.03	2.34	95%	1.99	2.41	100%	3%
07BR0758-01	7.14	25.35	30.30	91%	26.14	30.60	90%	1%

1.0% BrCl Method Blanks (MB)					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	0.05	0.02	0.04	0.03	0.01	0.15	0.40

1% BrCl MB prepared in quadruplicate.

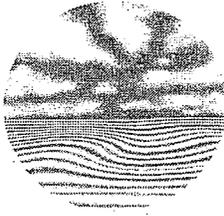
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Sample Specific Detection Limits		
Sample ID	MDL ng/L	PQL ng/L
07BR0758-01	0.77	2.04

Nicole C. Mead
Quality Assurance Officer

L. Spawley
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 #: 07-0620

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	4.64	93%
CCV2	5.00	4.90	98%
CCV3	5.00	4.32	86%
CCV4	5.00	4.30	86%

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	15.13	95%

* 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 %	
07BR0771-06	0.34	1.00	1.28	94%	1.02	1.28	93%	0%
07BR0793-01	1.17	2.53	3.58	95%	2.52	3.56	95%	1%

1.0% BrCl Method Blanks (MB) Criterion: MB < 0.5 ng/L					Method Detection Limits	
MB1 ng/L	MB2 ng/L	MB3 ng/L	Average ng/L	StDev ng/L	MB MDL ng/L	MB PQL ng/L
0.03	0.01	0.03	0.02	0.01	0.15	0.40

1% BrCl MB prepared in quadruplicate, MB4 not analyzed due to analytical error. See narrative.

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
07BR0772-01	0.27	0.72

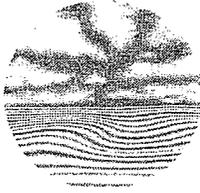
Nicole C. Mead

Quality Assurance Officer

L. Hawley

Project Manager

QUALITY ASSURANCE SUMMARY



BROOKSTRAND
TRACE METALS ANALYSIS & PRODUCTS

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

Batch #: 07-0586

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	55.83	112%
Cr	50.00	50.38	101%
Fe	50.0	51.9	104%
Ni	50.00	53.03	106%
Cu	50.00	50.44	101%
As	50.00	49.97	100%
Cd	5.000	4.983	100%
Pb	5.00	5.14	103%

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	6111	105%	8037	8423	105%
Cr	38.6	39.2	102%	20.4	21.5	106%
Fe	34.3	37.6	110%	98.1	*	N/A
Ni	27.4	29.3	107%	62.41	66.28	106%
Cu	85.2	88.2	104%	22.76	23.11	102%
As	26.67	26.43	99%	60.45	57.06	94%
Cd	22.79	23.19	102%	6.568	6.778	103%
Pb	27.89	31.16	112%	19.63	20.31	103%

* NIST 1643e is not appropriate for the analysis of iron due to contamination of the source. See case narrative.

BIAS Criteria: Recovery = 75-125%, RPD ≤25%								
Sample 07BR0771-08 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	607.7	2000	2658	102%	2000	2776	108%	4%
Cr	-0.07	1.00	0.87	94%	1.00	0.88	95%	2%
Fe	2.2	20.0	20.9	93%	20.0	21.6	97%	3%
Ni	0.04	1.00	1.00	96%	1.00	1.03	99%	3%
Cu	0.22	1.00	1.25	102%	1.00	1.38	116%	10%
As	0.12	1.00	1.08	96%	1.00	1.08	96%	0%
Cd	0.002	0.500	0.518	103%	0.500	0.541	108%	4%
Pb	0.01	0.50	0.58	113%	0.50	0.58	114%	1%


 Quality Assurance Officer

 Project Manager

QUALITY ASSURANCE SUMMARY

Batch #: 07-0586 (continued)

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

Analyte: Trace Metals

Matrix: Water

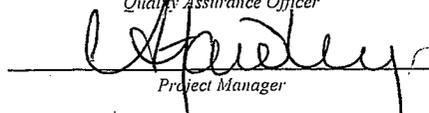
PRECISION		Criteria: $RPD \leq 25\%$ or results $\pm PQL$ if $\leq 5x PQL$		
Sample 07BR0771-08 Method Duplicate Analysis (MD)				
Analyte	Sample Value $\mu\text{g/L}$	Duplicate Value $\mu\text{g/L}$	Average Value $\mu\text{g/L}$	Duplicate RPD
Mg	607.7	582.6	595.2	4%
Cr	-0.07	-0.10	-0.08	***
Fe	2.2	1.8	2.0	***
Ni	0.04	0.04	0.04	***
Cu	0.22	0.22	0.22	***
As	0.12	0.10	0.11	***
Cd	0.002	0.002	0.002	***
Pb	0.01	0.01	0.01	***

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

Method Blanks (MB)							Method Detection Limits	
Criteria: $Avg \leq PQL$ and $StDev \leq MDL$ or $< 1/10th$ sample result								
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 $\mu\text{g/L}$	MDL $\mu\text{g/L}$	PQL $\mu\text{g/L}$
Mg	-0.21	-0.08	-0.21	-0.20	-0.17	0.06	0.60	3.00
Cr	0.00	0.00	-0.01	0.03	0.01	0.01	0.03	0.15
Fe	0.2	0.3	-0.1	1.3	0.4	0.6	1.4	5.0
Ni	-0.16	-0.13	-0.16	-0.16	-0.15	0.01	0.04	0.20
Cu	-0.01	0.00	-0.01	-0.01	-0.01	0.00	0.04	0.20
As	-0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.20
Cd	0.000	0.000	-0.001	0.000	0.000	0.000	0.004	0.010
Pb	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05



Quality Assurance Officer



Project Manager



Sample Receiving Log

Tracking # **07BR0763**

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: 8.6 C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Due Date: 6/28/2007

Receiving Date: 5/31/2007

Receiving Time: 8:45 AM

Logged-in by: Katie Jahanmir

Log-in Date: 5/31/2007

Log-in Time: 10:18 AM

Airbill present? Yes

Airbill # 857329316771

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:

<p>01</p> <p>Sample Tag #: RA-1</p> <p>Collection Date/Time: 5/28/2007, 10:40:00 AM</p> <p>ContainerType and Lot #: FLPE bottle, 06-351</p> <p>Size: 250-mL</p>	<p>Matrix/Sub-Matrix: Water,</p> <p>Preservation: none</p> <p>Acid Lot#: n/a</p> <p>pH:</p> <p>Sample Storage Location: Cabinet #5</p>	<p>Filtered?: No</p>
--	--	----------------------

Comments:

Analysis / Method: Hg EPA 1631

<p>02</p> <p>Sample Tag #: RA-1 (S)</p> <p>Collection Date/Time: 5/28/2007, 12:30:00 PM</p> <p>ContainerType and Lot #: FLPE bottle, 06-351</p> <p>Size: 250-mL</p>	<p>Matrix/Sub-Matrix: Water,</p> <p>Preservation: none</p> <p>Acid Lot#: n/a</p> <p>pH:</p> <p>Sample Storage Location: Cabinet #5</p>	<p>Filtered?: No</p>
--	--	----------------------

Comments:

Analysis / Method: Hg EPA 1631

<p>03</p> <p>Sample Tag #: RA-1</p> <p>Collection Date/Time: 5/28/2007, 10:40:00 AM</p> <p>ContainerType and Lot #: HDPE bottle, 07-097</p> <p>Size: 250-mL</p>	<p>Matrix/Sub-Matrix: Water,</p> <p>Preservation: none</p> <p>Acid Lot#: n/a</p> <p>pH:</p> <p>Sample Storage Location: Cabinet #5</p>	<p>Filtered?: Yes</p>
--	--	-----------------------

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)

04

Matrix/Sub-Matrix: Water,

Preservation: none

Sample Tag #: RA-1 (S)

Acid Lot#: n/a

Collection Date/Time: 5/28/2007, 12:30:00 PM

pH:

Filtered?: Yes

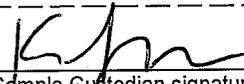
ContainerType and Lot #: HDPE bottle, 07-097

Sample Storage Location: Cabinet #5

Size: 250-mL

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)

 5/31/07
Sample Custodian signature Date

 5/31/07
Reviewed By signature Date



Sample Receiving Log

Tracking # **07BR0771**

Customer: Entrix, Inc.
Contact: Brian Frantz
Project Ref. #: ENX002
BRL Project Manager: Amanda Fawley

Due Date: 6/29/2007
Receiving Date: 6/1/2007
Receiving Time: 8:30 AM
Logged-in by: Katie Jahanmir
Log-in Date: 6/1/2007
Log-in Time: 12:49 PM

QA Level Standard
Sample Condition Intact
Shipping container intact? Yes
Shipping container type: Cooler
Shipping container temp: 7.0 C
Shipping container coolant: Ice
Sample Turnaround Time:
Contract Turnaround Time: 28 days

Airbill present? Yes
Airbill # 857329316750
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 #: FM-1
Collection Date/Time: 5/31/2007, 8:40:00 AM
ContainerType and Lot #: FLPE bottle, 06-351
Size: 250-mL

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

Comments:

Analysis / Method: Hg EPA 1631

02

Sample Tag #: FM-1 (S)
Collection Date/Time: 5/31/2007, 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:
Sample Storage Location: Cabinet #4
Filtered?: No

Comments:

Analysis / Method: Hg EPA 1631

03

Sample Tag #: FM-2
Collection Date/Time: 5/31/2007, 10:40:00 AM
ContainerType and Lot #: FLPE bottle, 06-351
Size: 250-mL

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

Comments:

Analysis / Method: Hg EPA 1631

Lab ID:

04

Sample Tag #: FM-2 (S)
Collection Date/Time: 5/31/2007, 10:00:00 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

05

Sample Tag #: FM-3
Collection Date/Time: 5/31/2007, 12:15:00 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

06

Sample Tag #: FM-3 (S)
Collection Date/Time: 5/31/2007, 1:15:00 PM
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:

Analysis / Method: Hg EPA 1631

07

Sample Tag #: Field Blank
Collection Date/Time: 5/31/2007, 8:00:00 AM
ContainerType and Lot #: FLPE bottle, 06-351
Size: 250-mL

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

Comments:

Analysis / Method: Hg EPA 1631 Do Not Spike

08

Sample Tag #: FM-1
Collection Date/Time: 5/31/2007, 8:40:00 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:

09

Sample Tag #: FM-1 (S)
Collection Date/Time: 5/31/2007, 9:30:00 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)

10

Sample Tag #: FM-2
Collection Date/Time: 5/31/2007, 10:40:00 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)

11

Sample Tag #: FM-2 (S)
Collection Date/Time: 5/31/2007, 10:00:00 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)

12

Sample Tag #: FM-3
Collection Date/Time: 5/31/2007, 12:15:00 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)

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)

13

Sample Tag #: FM-3 (S)
Collection Date/Time: 5/31/2007, 1:15:00 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)

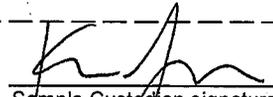
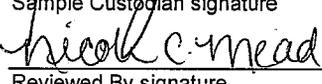
14

Sample Tag #: Field Blank
Collection Date/Time: 5/31/2007, 8:00:00 AM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

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

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS) Do Not Spike
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS) Do Not Spike


Sample Custodian signature
6/1/07
Date

Reviewed By signature
6/2/07
Date



Chain of Custody Record

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

Client: ENTRIX	COC receipt confirmation? (Y (N) (N))	Ship to: Brooks Rand LLC
Contact: Brian Frantz	If yes, by Fax / Email (circle one)	3958 6 th Avenue NW
Address: 590 Ygnacio Valley Rd	Fax #:	Seattle, WA 98107
Woodnut Creek, CA 94596	Email:	Phone: 206-632-6206
Phone #: 925-935-9920	Sampler's name:	Fax: 206-632-6017
PO #: 925-935-5368	Client project ID:	Email: samples@brooksrand.com
	BRL project ID: FN X002	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) Fe, Mg, Ni, Pb	Other (specify)	Other (specify)
1 FM-1	08/05/07	3:10	JAC/H	H2O	2	Y/N	X		X	X									Total Hg not filtered
2 FM-1 (S)	09/20/07	3:07	JAC/H	H2O	2	Y/N	X		X	X									
3 FM-2	09/27/07	10:44	JAC/H	H2O	2	Y/N	X		X	X									
4 FM-2 (S)	09/27/07	10:00	JAC/H	H2O	2	Y/N	X		X	X									
5 FM-3	09/27/07	12:15	JAC/H	H2O	2	Y/N	X		X	X									
6 FM-3 (S)	09/27/07	13:15	JAC/H	H2O	2	Y/N	X		X	X									
7 Field Blank	09/27/07	08:00	JAC/H	H2O	2	Y/N	X		X	X									
8																			
9																			
10																			

Relinquished by: <i>[Signature]</i>	Date: 5/31/07	Time: 1400	Received by:	Date:	Time:
Relinquished by: <i>[Signature]</i>	Date:	Time:	Received at BRL by: <i>[Signature]</i>	Date: 6/1/07	Time: 0830
Shipping carrier:	# of coolers:		BRL Tracking #:	07BR0771	