

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

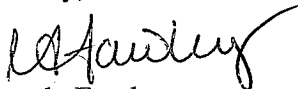
Several samples analyzed for Fe in batch #07-1139a produced highly negative results most likely due to a polyatomic interference. When comparing the field blank samples submitted (DI water supplied by the lab) to the native samples, an apparent matrix constituent in the native samples caused an over-correction 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@brooksrands.com



Amy Durdle
Project Manager
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: 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


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Lab Project # ENX002

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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)
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 Tracking # 07BR1389

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 Project # ENX002


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 Project # ENX002

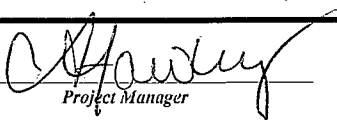
Lab Tracking # 07BR1389

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 Project # ENX002

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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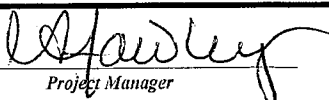
Tel: 916-386-3824

Lab Project # ENX002**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

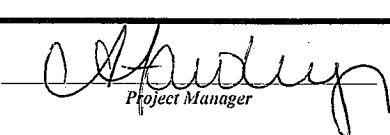
Lab Tracking # 07BR1389

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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Tel: 916-386-3824

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 Project # ENX002**Lab Tracking #** 07BR1397**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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Summary of Results for**Entrix, Inc.****Contact:** Jillian Aldrin

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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 Project # ENX002**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 Project # ENX002

Lab Tracking # 07BR1397

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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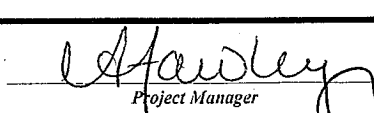
Lab Services Agreement ENX002

Lab Tracking # 07BR1397

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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Lab Project # ENX002**Lab Tracking #** 07BR1397**Lab Services Agreement** ENX002**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 Project # ENX002**Lab Tracking #** 07BR1397**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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Lab Services Agreement ENX002

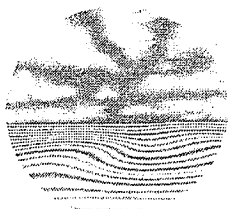
Pb

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	0.010	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

Friday, November 02, 2007


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.

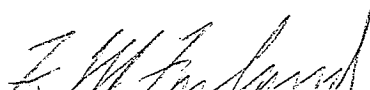
BIAS Criteria: Recovery = 71-125%, RPD ≤ 24% Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
Sample ID	Sample Value ng/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value ng/L	Measured Value ng/L	MS Recovery %	Spiked Value ng/L	Measured Value ng/L	MSD Recovery %	
07BR1388-01	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.

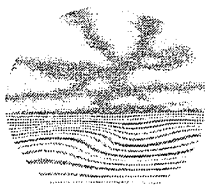
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

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


Quality Assurance Officer


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)

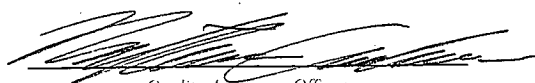
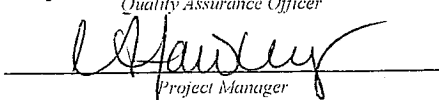
Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	628.3	2000	2701	104%	2000	2609	99%	3%
Cr	0.05	1.00	0.84	79%	1.00	0.81	76%	4%
Cu	0.35	1.00	1.35	100%	1.00	1.32	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)


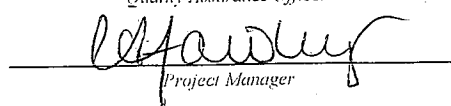
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	681.5	659.9	670.7	3%
Cr	-0.09	-0.10	-0.09	*
Cu	0.22	0.21	0.21	*
As	0.15	0.14	0.15	*
Cd	0.002	0.003	0.002	*

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

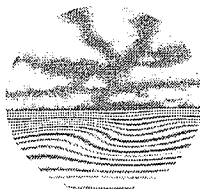
Method Blanks (MB)

Criteria: Avg. ≤ PQL and StDev ≤ MDL or < 1/10th sample result

Analyte							Method Detection Limits	
	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L	MDL µg/L	PQL 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



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

3958 6th Avenue NW
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) Criteria: Avg. ≤ POL and StDev ≤ MDL or < 1/10th sample result							Method Detection Limits	
Analyte	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L	MDL µg/L	PQL 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

3958 6th 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

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

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

Comments:

Lab ID:

01

Sample Tag #: LCC-2 RM0.0

Collection Date/Time: 9/27/2007, 10:00:00 AM

ContainerType and Lot #: FLPE bottle, 07-199

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: None

Acid Lot#: N/A

pH:

Filtered?: No

Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg

EPA 1631

02

Sample Tag #: RR-5 RM3.5

Collection Date/Time: 9/27/2007, 9:45:00 AM

ContainerType and Lot #: FLPE bottle, 07-199

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: None

Acid Lot#: N/A

pH:

Filtered?: No

Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg

EPA 1631

03

Sample Tag #: RR-6 RM3.0

Collection Date/Time: 9/27/2007, 10:20:00 AM

ContainerType and Lot #: FLPE bottle, 07-199

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: None

Acid Lot#: N/A

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

9/28/07
Date


Reviewed By signature

10/1/07
Date



BROOKSRAND

TRACE METALS ANALYSIS & PRODUCTS

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Sample Receiving Log

Tracking # 07BR1397

Customer: Entrix, Inc.

Contact: Brian Frantz

Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

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

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

Comments:

Lab ID:

01

Sample Tag #: HH-1

Collection Date/Time: 10/1/2007, 2:15:00 PM

ContainerType and Lot #: FLPE bottle, 07-199

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg

EPA 1631

02

Sample Tag #: HH-1 (S)

Collection Date/Time: 10/1/2007, 2:55:00 PM

ContainerType and Lot #: FLPE bottle, 07-162

Size: 500-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg

EPA 1631

03

Sample Tag #: HH-2

Collection Date/Time: 10/1/2007, 12:50:00 PM

ContainerType and Lot #: FLPE bottle, 07-199

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg

EPA 1631

Lab ID:

04

Sample Tag #: HH-2 (S)
Collection Date/Time: 10/1/2007, 12:00:00 PM
ContainerType and Lot #: FLPE bottle, 07-199
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH:
Filtered?: No
Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

05

Sample Tag #: HH-1
Collection Date/Time: 10/1/2007, 2:15:00 PM
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 #: HH-1 (S)
Collection Date/Time: 10/1/2007, 2:55:00 PM
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)

07

Sample Tag #: HH-2
Collection Date/Time: 10/1/2007, 12:50:00 PM
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)

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

Date

Reviewed By signature

Date



TRACE METALS ANALYSIS & PRODUCTS

Chain Of Custody Record

Page 1 of 1
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
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 WQ	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) As, Cd, Cr, Pb, Fe, Ni, Hg		Other (specify)	Other (specify)
1	9/27/00	1000	CD,JA	H ₂ O	2	Y/N ⁺	X			X							X		
2	9/27/04	0945	CD,JA	H ₂ O	2	Y/N ⁺	X			X							X		
3	9/27/00	1630	CD,JA	H ₂ O	2	Y/N ⁺	X			X							X		
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: Coralie Dayde	Date: 9/27/07	Time: 1330	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL by:	Date: 7/28/07	Time: 0845
Shipping carrier:	# of coolers:		BRL Tracking #:	07381389	



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

Chain Of Custody Record

Page 1 of 1
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												
Contact: CORAUE 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												
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)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify) As, Cd, Cr, Pb, Cu, Fe, Ni, Hg	Other (specify)	Other (specify)
11/07	1415	CD, JA	H ₂ O	2	Y/N ⁺	X		X						X		
11/07	1455	CD, JA	H ₂ O	2	Y/N ⁺	X		X						X		
11/07	1250	CD, JA	H ₂ O	2	Y/N ⁺	X		X						X		
11/07	1200	CD, JA	H ₂ O	2	Y/N ⁺	X		X						X		
5																
6																
7																
8																
9																
10																
Relinquished by: <u>Julian Wade</u>		Date: <u>11/07</u>	Time: <u>1900</u>	Received by: <u>[Signature]</u>		Date: <u>10/31/17</u>	Time: <u>1900</u>									
Relinquished by: <u>[Signature]</u>		Date: <u>10/31/17</u>	Time: <u>1900</u>	Received at BRL by: <u>[Signature]</u>		Date: <u>10/31/17</u>	Time: <u>1900</u>									
Shipping carrier: <u>[Signature]</u>		# of coolers: <u>07BR/397</u>		BRL Tracking #: <u>07BR/397</u>												