BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

November 12, 2007

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

RE: Brooks Rand Project: ENX002; Report #: 07BR1467

Dear Ms. Aldrin,

This report details the monomethyl mercury (MMHg) analysis of two fish samples received by Brooks Rand Labs (BRL) on October 23, 2007. One sample was listed on the chain-of-custody (COC) form as "I-U2-BNT-1" and labeled as "INTB-U2-BT-PG". This sample was logged in according to the COC form. The samples were received, stored, prepared, and analyzed according to BRL standard operating procedures (SOPs) and a modification of EPA Method 1630.

Once thawed, the samples were filleted and were homogenized using pre-cleaned commercial grade homogenization equipment. A homogenization blank "HB-07-1221-MMHg" was collected and analyzed with the samples.

Results were blank corrected as described in the calculations section of the applicable BRL SOP and in Method 1630. The result less than or equal to the method detection limit (MDL) has been qualified "U" for non-detect and has been reported at the MDL.

The analysis of the post preparation spike (PPS) performed on a sample from a different sample delivery group 07BR1337-04 yielded a recovery above the control limits. This recovery was not indicative of a sample preparation issue that could affect other sample results as the spike was performed at the instrument. Furthermore, all other spikes at the instrument met the acceptance criteria, therefore, it has been concluded that the elevated PPS recovery was not indicative of analytical or instrumental issues that affect the data quality of other samples analyzed in this batch. All other quality control (QC) samples analyzed with this batch met their respective criteria including the analysis of two method duplicates (MDs), an independent calibration verification standard (ICV), four continuing calibration verification standards (CCVs), and a certified reference material (CRM). No additional qualification of the data was required.

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

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

Jennifer Holmes
Client Services Manager
jennifer@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 # 07BR1467

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

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

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
I-U2-BNT-1	9/21/2007	Biota	Fish	07BR1467 - 01	10/23/2007
OC-RBT-1	10/16/2007	Biota	Fish	07BR1467 - 02	10/23/2007
HB-07-1221-MMHg	10/24/2007	Biota	blank	07BR1467 - 03	10/23/2007

Monday, November 12, 2007

Project Manager

Reported by

Brooks Rand LLC

Contact: Amanda Fawley

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Hg(Monomethyl)

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
I-U2-BNT-1	07BR1467 - 01	T		11/5/2007	07-1182a	49.900	ng/g	
OC-RBT-1	07BR1467 - 02	T		11/5/2007	07-1182a	81.200	ng/g	
HB-07-1221-MMHg	07BR1467 - 03	T		11/5/2007	07-1182a	1.000	ng/g	U

Monday, November 12, 2007

Project Manager

QUALITY ASSURANCE SUMMARY

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TRACE METALS ANALYSIS & PRODUCTS

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

Batch #: **07-1182a**

Method #: **BR-0011**

Analyte: **MMHg**

Matrix: **Biota**

BIAS *Criterion: Recovery = 80-120%*
Independent Calibration Verification (ICV)

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	7.33	8.50	116%

* The ICV standard is prepared from an aliquot of the CRM DORM-2.

BIAS *Criterion: Recovery = 67-133%*
Continuing Calibration Verification (CCV)

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
CCV1	0.625	0.604	97%
CCV2	0.625	0.460	74%
CCV3	0.625	0.563	90%
CCV4	0.625	0.487	78%

BIAS *Criteria: Recovery = 65-135%*
Certified Reference Material (CRM)

CRM ID	Certified Value ng/g	Measured Value ng/g	Recovery %
DORM-2	4470	4659	104%

BIAS *Criteria: Recovery = 65-135%, RPD ≤ 35%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			Matrix Spike Duplicate			
Sample ID	Sample Value ng/g AR	Spiked Value ng/g AR	Measured Value ng/g AR	MS Recovery %	Spiked Value ng/g AR	Measured Value ng/g AR	MSD Recovery %	Duplicate RPD
07BR1337-04	357	1961	2925	131%	2018	2887	125%	1%
07BR1467-01*	49.9	1718	2134	121%	1992	2583	127%	5%

*Due to the large difference in spiking level, the RPD is calculated using the % recoveries rather than the measured values.

BIAS *Criterion: Recovery = 67-133%*
Post Preparation Spike (PPS)

Sample ID	Sample Value ng/g AR	Spiked Value ng/g AR	Measured Value ng/g AR	PPS Recovery %
07BR1337-04	357	1462	2433	142%
07BR1467-01	49.9	284.9	402.4	124%

07BR1337-04PPS produced a high recovery, see narrative.

PRECISION *Criteria: RPD≤ 35% or results +/- 2xPQL if < 5xPQL*
Method Duplicate Analysis (MD)

Sample ID	Sample Value ng/g AR	Duplicate Value ng/g AR	Average Value ng/g AR	RPD
07BR1337-04	357	355	356	1%
07BR1467-01	49.9	47.1	48.5	6%

Method Blanks (MB) *Criteria: Avg. <2x MDL, Std Dev < 2/3 MDL*

MB1 ng/g	MB2 ng/g	MB3 ng/g	MB4 ng/g	Average ng/g	StDev ng/g
0.2	0.2	0.2	0.1	0.2	0.1

Method Detection Limits

MDL ng/g	PQL ng/g
1.0	3.0

Sample Specific Reporting Limits

Sample ID	MDL ng/g	PQL ng/g
07BR1337-04	9	26
07BR1337-05	9	26

Quality Assurance Officer

Project Manager

11/8/2007

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3958 6th Avenue NW
Seattle, WA 98107
www.brooksrand.com

Phone: 206-632-6206
Fax: 206-632-6017
Email: brl@brooksrand.com

Sample Receiving Log

Tracking # **07BR1467**

Customer: Entrix, Inc.
Contact: Jillian Aldrin
Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Ziploc Bag
Shipping container temp: 3.0 C
Shipping container coolant: Ice

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 11/20/2007
Receiving Date: 10/23/2007
Receiving Time: 8:45 AM

Logged-in by: Katie Jahanmir
Log-in Date: 10/23/2007
Log-in Time: 2:35 PM

Airbill present? Yes
Airbill # 848362948344
Courier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC/Sample tag agree? Yes

COC Number: N/A

Comments: Client label on sample 01 does not match the COC, sample has been logged in per the COC.

Lab ID:

01

Sample Tag #: I-U2-BNT-1
Collection Date/Time: 9/21/2007, 11:15:00 AM
ContainerType and Lot #: Ziploc Bag,
Size:

Matrix/Sub-Matrix: Biota, Fish
Preservation: none
Acid Lot#: n/a
pH: Filtered?: No
Sample Storage Location: Freezer #3

Comments:

Analysis / Method:	Filleting	In-House
Analysis / Method:	Hg(Monomethyl)	EPA 1630 Mod.
Analysis / Method:	Homogenization	BR-0103

02

Sample Tag #: OC-RBT-1
Collection Date/Time: 10/16/2007,
ContainerType and Lot #: Ziploc Bag,
Size:

Matrix/Sub-Matrix: Biota, Fish
Preservation: none
Acid Lot#: n/a
pH: Filtered?: No
Sample Storage Location: Freezer #3

Comments:

Analysis / Method:	Filleting	In-House
Analysis / Method:	Hg(Monomethyl)	EPA 1630 Mod.
Analysis / Method:	Homogenization	BR-0103

Lab ID:

10/23/07
Sample Custodian signature Date

nicole C. Mead 10/24/07
Reviewed By signature Date

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Chain Of Custody Record

White: LAB COPY
Yellow: CUSTOMER COPY

Client: ENTRIX	COC receipt confirmation? (Y / (N)	Ship to: **Brooks Rand LLC**
Contact: CORALIE DAYDE	If yes, by Fax / Email (circle one)	3958 6th Avenue NW
Address: 2300 CLAYTON RD, Ste 200 CONCORD, CA 94520	Fax #:	Seattle, WA 98107
	Email:	Phone: 206-632-6206
	Sampler's name: C. DAYDE	Fax: 206-632-6017
Phone #: 925-988-1234	Client project ID: PCWA WQ	Email:samples@brooksrand.com
PO #:	BRL project ID: ENX002	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	Other (specify)	Other (specify)	
1	I-U2-BNT-1	9/21	11:15	CPG	Fish			X				X								tilet fish w/skin
2	OC-RBT-1	10/16	"	CPG	Fish			X				X								off and homogenize
3																				individually
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by:	Date: 10/22	Time: 540	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL by:	Date: 10/23/07	Time: 0845
Shipping carrier:	# of coolers:		BRL Tracking #: 07BR1467		