



October 17, 2007

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

RE: Brooks Rand Project: ENX002; Report #: 07BR1353

Dear Ms. Aldrin,

This report details the monomethyl mercury (MMHg) analysis of two fish composite samples received by Brooks Rand Labs (BRL) on September 14, 2007. The remaining fish samples received with this shipment were logged in under BRL Tracking number 07BR1337 and will be reported on a later date. 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 filleted and were homogenized using pre-cleaned commercial grade homogenization equipment. A homogenization blank ("HB-07-1055-Hg") was collected and analyzed with the samples.

Results were blank corrected as described in the calculations section of the applicable BRL SOP and may have been evaluated using detection limits that have been adjusted to account for sample aliquot size. Please refer to the Quality Assurance Summary for sample-specific method detection limits (MDLs)/practical quantitation limits (PQLs), and QA details. The matrix spike/matrix spike duplicate (MS/MSD) set prepared from sample "HH-BT1" (07BR1353-01) was spiked at a concentration less than the native sample concentration, therefore the recovery criterion did not apply. A post preparation spike (PPS) analyzed at an appropriate concentration produced an excellent recovery.

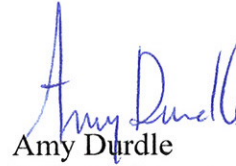
The result less than or equal to the MDL has been qualified "U" for non-detect and has been reported at the MDL. All QA criteria were met. No additional qualification of the data was required.

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 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: 916-923-1097

**Lab Project #** ENX002

**Lab Tracking #** 07BR1353

**Lab Services Agreement** ENX002

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

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*Entrix, Inc.*

***BRL***

**Sample**

**Identification**

**Sampling Date**

**Matrix**

**Submatrix**

**Sample Number**

**Receiving Date**

HH-BT1

9/11/2007

Biota

Fish

07BR1353 - 01

9/14/2007

HH-BT1

9/11/2007

Biota

Fish

07BR1353 - 01

9/14/2007

FM-BT-1

9/12/2007

Biota

Fish

07BR1353 - 02

9/14/2007

FM-BT-1

9/12/2007

Biota

Fish

07BR1353 - 02

9/14/2007

HB-07-1055-Hg

10/2/2007

Biota

Blank

07BR1353 - 03

9/14/2007

HB-07-1055-Hg

10/2/2007

Biota

Blank

07BR1353 - 03

9/14/2007

Wednesday, October 17, 2007

  
Project Manager

*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 #** 07BR1353

**Lab Services Agreement** ENX002

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**Hg(Monomethyl)**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
HH-BT1	07BR1353 - 01	T	10/11/2007	10/15/2007	07-1066	1,070.000	ng/g	
FM-BT-1	07BR1353 - 02	T	10/11/2007	10/15/2007	07-1066	183.000	ng/g	
HB-07-1055-Hg	07BR1353 - 03	T	10/11/2007	10/15/2007	07-1066	1.000	ng/g	U

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Wednesday, October 17, 2007

  
Project Manager

## Sample Physical Characteristics Log

Prep Technician: Bryce

Date: 10/2/07

Client ID(s): ENX002

Sample ID	Matrix/Submatrix	Physical Characteristics
070P1353	Biota/Fish	Fish 1 - ID - HH-1A-BT-34
		Weight - 984g contained eggs
		Length - 43cm
		Faded Black/Red spots on top
		Fish 2 - ID - HH-3A-BT-3
		Weight - 1330g contained eggs
		Length - 40cm large eggs, near Birth
		Small clustered spots (many)
		Fish 3 - ID - HH-2A-BT-6
		Weight - 800g
		Length - 39cm
		Darker in color, spots very faded
		Fish 4 - ID - HH-2C-BT-1
		Weight - 477g
		Length - 33cm
		Very thin, most spots near head.
		Fish 5 - ID - HH-1B-BT-15
		Weight - 1083g
		Length - 40cm
		Darker in color, Dark spots

Tissue  
light and  
not pink  
like  
others

Tissue  
light and  
not pink  
like  
others

Additional Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Prep Technician: Bryce

Date: 10/2/07

Client ID(s): ENX 002

Additional Notes:

[illegible]

# QUALITY ASSURANCE SUMMARY



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

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

Batch #: 07-1066

Method #: BR-0011

Analyte: MMHg

Matrix: Biota

BIAS Criterion: Recovery = 67-133%			
Continuing Calibration Verification (CCV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
CCV1	0.625	0.585	94%
CCV2	0.625	0.610	98%

BIAS Criterion: Recovery = 80-120%			
Independent Calibration Verification (ICV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	7.33	6.64	91%

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

BIAS Criteria: Recovery = 65-135%			
Certified Reference Material (CRM)			
CRM ID	Certified Value ng/g	Measured Value ng/g	Recovery %
DORM-2	4470	4254	95%

BIAS Criteria: Recovery = 65-135%, RPD ≤ 35%								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
Sample ID	Sample Value ng/g AR	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value ng/g AR	Measured Value ng/g AR	MS Recovery %	Spiked Value ng/g AR	Measured Value ng/g AR	MSD Recovery %	
07BR1353-01	1066	480	1573	106%	522	1692	120%	7%

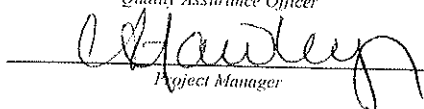
BIAS Criterion: Recovery = 67-133%				
Post-Preparation Spike (PPS)				
Sample ID	Sample Value ng/g AR	Spiked Value ng/g AR	Measured Value ng/g AR	PPS Recovery %
07BR1353-01	1066	3626	5034	109%

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
07BR1353-01	1066	1107	1087	4%

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	Std Dev ng/g
0.3	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
07BR1353-01	9	26
07BR1353-02	10	29

  
Quality Assurance Officer  
  
Project Manager



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

## Sample Receiving Log

Tracking # **07BR1353**

Customer: Entrix, Inc.

Contact: Brian Frantz

Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

Due Date: 10/19/2007

Receiving Date: 9/14/2007

Receiving Time: 8:45 AM

Logged-in by: Amanda Fawley

Log-in Date: 9/21/2007

Log-in Time: 2:30 AM

Airbill present? Yes

Airbill # See Comments

Courier: FedEx

QA Level Standard

Sample Condition Intact

Shipping container intact? Yes

Shipping container type: Cooler

Shipping container temp: See COC

Shipping container coolant: Ice

Sample Turnaround Time: 35

Contract Turnaround Time: 28 days

Custody seal present? No

Custody seal intact? No

COC Present? Yes

COC/Sample tag agree? Yes

COC Number: N/A

Comments: Samples were split off from BRL tracking number 07BR1337.

Lab ID:

**01**

Sample Tag #: HH-BT1

Collection Date/Time: 9/11/2007,

ContainerType and Lot #: Plastic bag,

Size:

Matrix/Sub-Matrix: Biota, Fish

Preservation:

Acid Lot#:

pH:

Filtered?: No

Sample Storage Location: Freezer #3

Comments: This lab ID has 5 fish

Analysis / Method: Compositing

In-House

Analysis / Method: Filletting

In-House

Analysis / Method: Hg(Monomethyl)

EPA 1630 Mod.

Analysis / Method: Homogenization

BR-0103

**02**

Sample Tag #: FM-BT-1

Collection Date/Time: 9/12/2007,

ContainerType and Lot #: Plastic bags,

Size:

Matrix/Sub-Matrix: Biota, Fish

Preservation:

Acid Lot#:

pH:

Filtered?: No

Sample Storage Location: Freezer #3

Comments: This lab ID has 5 fish

Analysis / Method: Compositing

In-House

Analysis / Method: Filletting

In-House

Analysis / Method: Hg(Monomethyl)


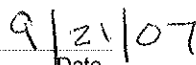

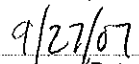
EPA 1630 Mod.

Analysis / Method: Homogenization

BR-0103



Lab ID:

	
Sample Custodian signature	Date
	
Reviewed By signature	Date



# Chain Of Custody Record

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

Client: ENTRIX		COC receipt confirmation? (Y/N)		Ship to: Brooks Rand LLC																																
Contact: Coralie Dayle		If yes, by Fax / Email (circle one)		3958 6 <sup>th</sup> Avenue NW																																
Address: 2300 Claydon Rd, Ste 200 Concord, CA 94520		Fax #:		Seattle, WA 98107																																
		Email:		Phone: 206-632-6206																																
Phone #: 925-925-9920		Sampler's name: Coralie Dayle		Fax: 206-632-6017																																
PO #:		Client project ID: PWA WQ 3177621		Email: samples@brooksrand.com																																
		BRL project ID: ENX002		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 <sub>3</sub> /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify)	Other (specify)	Other (specify)																			
Sample ID																		1	HH-1A-BT-34	9/11	10:00	CD	Fish												Fillet Fish	
																		2	HH-1B-BT-15	9/11	11:00	CD	Fish													Homogenize
																		3	HH-2A-BT-6	9/11	12:15	CD	Fish													without skin <del>egg</del>
																		4	HH-3A-BT-3	9/11	13:45	CD	Fish													<del>egg</del>
																		5	HH-2C-BT-1	9/12	9:45	CD	Fish													
6																																				
7																																				
8																																				
9																																				
10																																				
Relinquished by: Coralie Dayle		Date: 9/12/07	Time: 10:45	Received by:		Date:		Time:																												
Relinquished by:		Date:	Time:	Received at BRL by: Nigel Mead		Date: 9/14/07		Time: 08:45																												
Shipping carrier:		# of coolers:		BRL Tracking #:																																



# Chain Of Custody Record

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

Client: ENTRIX		COC receipt confirmation? (Y/N) <u>(N)</u>		Ship to: Brooks Rand LLC																																
Contact: CORAUE DAYDE		If yes, by Fax / Email (circle one)		3958 6 <sup>th</sup> Avenue NW																																
Address: 2300 CLAYTON RD, Ste 200		Fax #:		Seattle, WA 98107																																
CONCORD, CA 94520		Email:		Phone: 206-632-6206																																
Phone #: 925-988-1234		Sampler's name: C. DAYDE		Fax: 206-632-6017																																
PO #:		Client project ID: 3177621		Email: samples@brooksrand.com																																
		BRL project ID: ENX002		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 <sub>3</sub> /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify)	Other (specify)	Other (specify)																			
Sample ID																		1	FM-2B-BT-4	9/12	15:50		Fish		X			X							please filter	
																		2	FM-2A-BT-2	9/12	16:20		Fish		X			X								fish without
																		3	FM-1A-BT-1	9/12	18:30		Fish		X			X								skin and
																		4	FM-1D-BT-1	9/13	9:30		Fish		X			X								monoglyceride
																		5	FM-3D-BT-3	9/13	11:30		Fish		X			X								please hold
																		6	FM-2B-BT-3	9/12	15:50		Fish		X			X								until more
																		7	FM-2C-BT-1	9/13	10:20		Fish		X			X								specimen arrive
																		8	FM-3B-BT-1	9/11	14:20		Fish		X			X								
																		9	FM-3D-BT-2	9/13	11:24		Fish		X			X								
																		10	FM-2F-BT-1	9/13	15:30		Fish		X			X								
Relinquished by: <u>Galia Davis</u>		Date: <u>9/13/07</u>		Time: <u>16:45</u>		Received by:		Date:		Time:																										
Relinquished by:		Date:		Time:		Received at BRL by: <u>Mark Need</u>		Date: <u>9/14/07</u>		Time: <u>08:45</u>																										
Shipping carrier:		# of coolers:		BRL Tracking #:																																