

June 28, 2006

Eric H. DeCarlo
University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Subject: **CalScience Work Order No.: 06-06-0962**
Client Reference: NOAA Ordnance Reef

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/15/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Stearns', with a horizontal line extending to the right.

CalScience Environmental
Laboratories, Inc.
Robert Stearns
Project Manager

Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S1	06-06-0962-1	06/04/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual				
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1
Nitrobenzene	ND	200	1		RDX	ND	200	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
1,2-Dinitrobenzene	89	40-160						

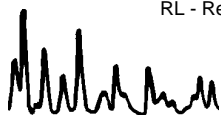
S2	06-06-0962-2	06/04/06	Solid	06/17/06	06/21/06	060617L06
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Parameter	Result	RL	DF	Qual				
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1
Nitrobenzene	ND	200	1		RDX	ND	200	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
1,2-Dinitrobenzene	92	40-160						

S3	06-06-0962-3	06/04/06	Solid	06/17/06	06/21/06	060617L06
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Parameter	Result	RL	DF	Qual				
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1
Nitrobenzene	ND	200	1		RDX	ND	200	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
1,2-Dinitrobenzene	93	40-160						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S4	06-06-0962-4	06/04/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	95	40-160							

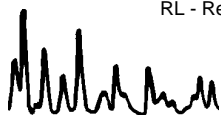
S5	06-06-0962-5	06/04/06	Solid	06/17/06	06/21/06	060617L06
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	100	40-160							

S6	06-06-0962-6	06/04/06	Solid	06/17/06	06/21/06	060617L06
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	87	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
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Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S7	06-06-0962-7	06/04/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	91	40-160							

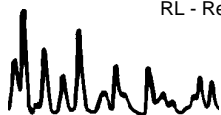
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S10	06-06-0962-8	06/04/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	11000	1000	5		Tetryl	ND	200	1	
2,6-Dinitrotoluene	620	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	95	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S107A	06-06-0962-9	06/04/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	96	40-160							

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Analytical Report



University of Hawai#i at Manoa
 1000 Pope Road MSB 509
 Honolulu, HI 96822-2336

Date Received: 06/15/06
 Work Order No: 06-06-0962
 Preparation: Extraction
 Method: EPA 8330
 Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S107B	06-06-0962-10	06/04/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	101	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PB-1	06-06-0962-11	06/06/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	109	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PB-2	06-06-0962-12	06/06/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	100	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-S1	06-06-0962-13	06/05/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	90	40-160							

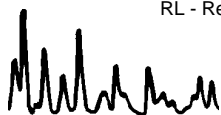
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-S2	06-06-0962-14	06/05/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	100	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-S3	06-06-0962-15	06/05/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	87	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-S4	06-06-0962-16	06/05/06	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	97	40-160							

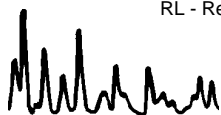
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
WO-S1	06-06-0962-17	06/05/06	Solid	06/17/06	06/22/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	101	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
WO-S3	06-06-0962-18	06/05/06	Solid	06/17/06	06/22/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	102	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
WO-S2B	06-06-0962-19	06/05/06	Solid	06/17/06	06/22/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	101	40-160							

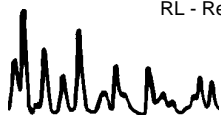
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
WO-S5	06-06-0962-20	06/05/06	Solid	06/17/06	06/22/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	102	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Sed-1-1	06-06-0962-21	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	138	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
 1000 Pope Road MSB 509
 Honolulu, HI 96822-2336

Date Received: 06/15/06
 Work Order No: 06-06-0962
 Preparation: Extraction
 Method: EPA 8330
 Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
184208	06-06-0962-22	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	114	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
185058	06-06-0962-23	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	119	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
191517	06-06-0962-24	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	128	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



University of Hawai#i at Manoa
 1000 Pope Road MSB 509
 Honolulu, HI 96822-2336

Date Received: 06/15/06
 Work Order No: 06-06-0962
 Preparation: Extraction
 Method: EPA 8330
 Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
195033	06-06-0962-25	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	114	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
203953	06-06-0962-26	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	115	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
214458	06-06-0962-27	06/07/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	111	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ADA4	06-06-0962-28	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dinitrobenzene	110	40-160							

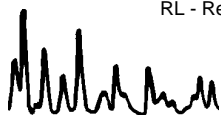
ADA5	06-06-0962-29	06/08/06	Solid	06/20/06	06/22/06	060620L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	3100	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dinitrobenzene	112	40-160							

ADA6	06-06-0962-30	06/08/06	Solid	06/20/06	06/22/06	060620L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	21000	2000	10		Tetryl	ND	200	1	
2,6-Dinitrotoluene	1400	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dinitrobenzene	118	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ADA8	06-06-0962-31	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	116	40-160							

ADA9	06-06-0962-32	06/08/06	Solid	06/20/06	06/22/06	060620L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	111	40-160							

ADA11	06-06-0962-33	06/08/06	Solid	06/20/06	06/22/06	060620L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	2500	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	110	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ADA12	06-06-0962-34	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	4600	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	113	40-160							

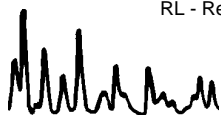
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ADA141516C	06-06-0962-35	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	106	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA1	06-06-0962-36	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	110	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA3	06-06-0962-37	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	104	40-160							

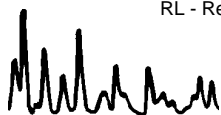
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
NDA5	06-06-0962-38	06/08/06	Solid	06/20/06	06/22/06	060620L03			

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	109	40-160							

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
NDA7	06-06-0962-39	06/08/06	Solid	06/20/06	06/22/06	060620L03			

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	109	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA9	06-06-0962-40	06/08/06	Solid	06/20/06	06/22/06	060620L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	117	40-160							

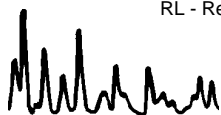
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA11	06-06-0962-41	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	115	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA13	06-06-0962-42	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	115	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA15	06-06-0962-43	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	112	40-160							

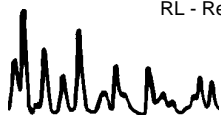
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA17	06-06-0962-44	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	109	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA19	06-06-0962-45	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	111	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA21	06-06-0962-46	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	113	40-160							

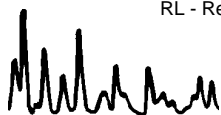
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NDA23	06-06-0962-47	06/08/06	Solid	06/20/06	06/22/06	060620L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	117	40-160							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-032-36	N/A	Solid	06/17/06	06/21/06	060617L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	113	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330
Units: ug/kg

Project: NOAA Ordnance Reef

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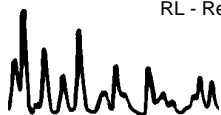
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-032-37	N/A	Solid	06/20/06	06/22/06	060620L03

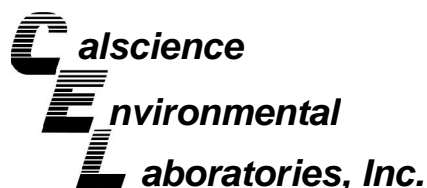
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	110	40-160							

Method Blank	099-10-032-38	N/A	Solid	06/20/06	06/22/06	060620L04
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
4-Amino-2,6-DNT	ND	200	1		2-Nitrotoluene	ND	200	1	
2-Amino-4,6-DNT	ND	200	1		3-Nitrotoluene	ND	200	1	
1,3-Dinitrobenzene	ND	200	1		4-Nitrotoluene	ND	200	1	
2,4-Dinitrotoluene	ND	200	1		Tetryl	ND	200	1	
2,6-Dinitrotoluene	ND	200	1		1,3,5-Trinitrobenzene	ND	200	1	
HMX	ND	200	1		2,4,6-Trinitrotoluene	ND	200	1	
Nitrobenzene	ND	200	1		RDX	ND	200	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dinitrobenzene	112	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

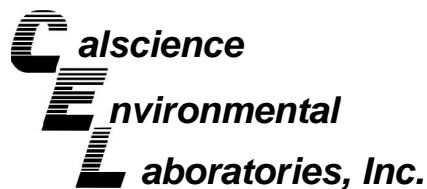
Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330

Project NOAA Ordnance Reef

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S107B	Solid	HPLC 7	06/17/06	06/21/06	060617S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
4-Amino-2,6-DNT	118	117	40-160	1	0-20	
2-Amino-4,6-DNT	115	109	40-160	5	0-20	
1,3-Dinitrobenzene	108	108	40-160	1	0-20	
2,4-Dinitrotoluene	111	113	40-160	2	0-20	
2,6-Dinitrotoluene	112	109	40-160	3	0-20	
HMX	111	116	40-160	4	0-20	
Nitrobenzene	108	110	40-160	2	0-20	
2-Nitrotoluene	111	111	40-160	1	0-20	
3-Nitrotoluene	115	113	40-160	2	0-20	
4-Nitrotoluene	114	109	40-160	4	0-20	
Tetryl	66	54	40-160	20	0-20	
1,3,5-Trinitrobenzene	113	116	40-160	2	0-20	
2,4,6-Trinitrotoluene	120	116	40-160	3	0-20	
RDX	117	121	40-160	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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1000 Pope Road MSB 509
Honolulu, HI 96822-2336

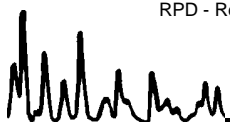
Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330

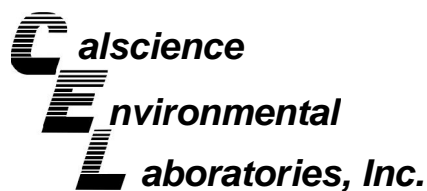
Project NOAA Ordnance Reef

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
214458	Solid	HPLC 7	06/20/06	06/22/06	060620S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
4-Amino-2,6-DNT	116	118	40-160	2	0-20	
2-Amino-4,6-DNT	110	113	40-160	3	0-20	
1,3-Dinitrobenzene	109	107	40-160	2	0-20	
2,4-Dinitrotoluene	119	112	40-160	6	0-20	
2,6-Dinitrotoluene	108	115	40-160	6	0-20	
HMX	110	108	40-160	2	0-20	
Nitrobenzene	108	107	40-160	1	0-20	
2-Nitrotoluene	107	113	40-160	5	0-20	
3-Nitrotoluene	105	109	40-160	4	0-20	
4-Nitrotoluene	105	111	40-160	5	0-20	
Tetryl	73	69	40-160	6	0-20	
1,3,5-Trinitrobenzene	116	112	40-160	3	0-20	
2,4,6-Trinitrotoluene	114	114	40-160	0	0-20	
RDX	111	109	40-160	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



University of Hawai#i at Manoa
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Honolulu, HI 96822-2336

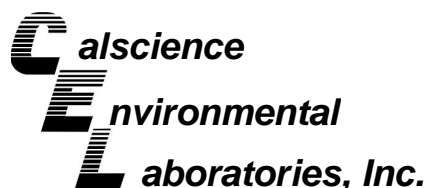
Date Received: 06/15/06
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330

Project NOAA Ordnance Reef

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NDA15	Solid	HPLC 7	06/20/06	06/22/06	060620S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
4-Amino-2,6-DNT	100	103	40-160	3	0-20	
2-Amino-4,6-DNT	102	106	40-160	4	0-20	
1,3-Dinitrobenzene	111	102	40-160	9	0-20	
2,4-Dinitrotoluene	117	107	40-160	8	0-20	
2,6-Dinitrotoluene	98	104	40-160	6	0-20	
HMX	111	102	40-160	8	0-20	
Nitrobenzene	110	104	40-160	5	0-20	
2-Nitrotoluene	95	105	40-160	11	0-20	
3-Nitrotoluene	95	104	40-160	9	0-20	
4-Nitrotoluene	102	105	40-160	3	0-20	
Tetryl	106	111	40-160	5	0-20	
1,3,5-Trinitrobenzene	115	107	40-160	7	0-20	
2,4,6-Trinitrotoluene	117	109	40-160	7	0-20	
RDX	119	110	40-160	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Honolulu, HI 96822-2336

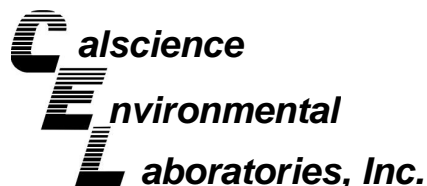
Date Received: N/A
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330

Project: NOAA Ordnance Reef

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-032-36	Solid	HPLC 7	06/17/06	06/21/06	060617L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
4-Amino-2,6-DNT	103	111	40-160	8	0-20	
2-Amino-4,6-DNT	102	108	40-160	6	0-20	
1,3-Dinitrobenzene	110	109	40-160	1	0-20	
2,4-Dinitrotoluene	115	114	40-160	1	0-20	
2,6-Dinitrotoluene	102	106	40-160	3	0-20	
HMX	117	115	40-160	1	0-20	
Nitrobenzene	115	115	40-160	0	0-20	
2-Nitrotoluene	102	109	40-160	7	0-20	
3-Nitrotoluene	103	111	40-160	8	0-20	
4-Nitrotoluene	101	109	40-160	7	0-20	
Tetryl	105	117	40-160	10	0-20	
1,3,5-Trinitrobenzene	114	113	40-160	1	0-20	
2,4,6-Trinitrotoluene	114	113	40-160	1	0-20	
RDX	116	113	40-160	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

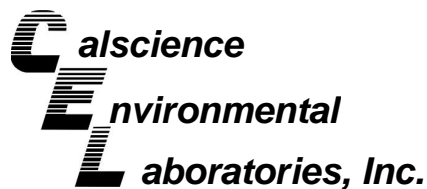
Date Received: N/A
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330

Project: NOAA Ordnance Reef

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-032-37	Solid	HPLC 7	06/20/06	06/22/06	060620L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
4-Amino-2,6-DNT	107	116	40-160	7	0-20	
2-Amino-4,6-DNT	105	112	40-160	7	0-20	
1,3-Dinitrobenzene	113	111	40-160	2	0-20	
2,4-Dinitrotoluene	118	114	40-160	3	0-20	
2,6-Dinitrotoluene	103	110	40-160	7	0-20	
HMX	119	114	40-160	5	0-20	
Nitrobenzene	116	115	40-160	1	0-20	
2-Nitrotoluene	106	112	40-160	5	0-20	
3-Nitrotoluene	102	109	40-160	7	0-20	
4-Nitrotoluene	105	109	40-160	3	0-20	
Tetryl	103	116	40-160	12	0-20	
1,3,5-Trinitrobenzene	118	116	40-160	2	0-20	
2,4,6-Trinitrotoluene	117	116	40-160	1	0-20	
RDX	118	115	40-160	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



University of Hawai#i at Manoa
1000 Pope Road MSB 509
Honolulu, HI 96822-2336

Date Received: N/A
Work Order No: 06-06-0962
Preparation: Extraction
Method: EPA 8330

Project: NOAA Ordnance Reef

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-032-38	Solid	HPLC 7	06/20/06	06/22/06	060620L04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
4-Amino-2,6-DNT	108	112	40-160	4	0-20	
2-Amino-4,6-DNT	106	111	40-160	4	0-20	
1,3-Dinitrobenzene	111	110	40-160	1	0-20	
2,4-Dinitrotoluene	116	113	40-160	3	0-20	
2,6-Dinitrotoluene	102	106	40-160	4	0-20	
HMX	114	111	40-160	3	0-20	
Nitrobenzene	112	112	40-160	0	0-20	
2-Nitrotoluene	106	107	40-160	1	0-20	
3-Nitrotoluene	103	106	40-160	3	0-20	
4-Nitrotoluene	104	106	40-160	2	0-20	
Tetryl	103	116	40-160	12	0-20	
1,3,5-Trinitrobenzene	115	114	40-160	1	0-20	
2,4,6-Trinitrotoluene	113	114	40-160	1	0-20	
RDX	115	114	40-160	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 06-06-0962

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



CALSCEINCE ENVIRONMENTAL LABORATORIES, INC.
 7440 LINCOLN WAY
 GARDEN GROVE, CA 92841-1427
 TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD
 Date 6/13/06
 Page 1 of 5

LABORATORY CLIENT: UNIVERSITY of HAWAII / Eric H. DecARLO
 ADDRESS: Dept of OCEANOGRAPHY 1000 POPE Rd.
 CITY: HONOLULU STATE: HI ZIP: 96822
 TEL: 808-956-5924 E-MAIL: edecarlo@soest.hawaii.edu
 TURNAROUND TIME: SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF
 SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: NOAA ORDINANCE Reef
 PROJECT CONTACT: Eric H. DecARLO
 SAMPLER(S): (SIGNATURE) [Signature] COELT LOG CODE
 P.O. NO.: _____
 LAB USE ONLY: COOLING COOLERS RECEIPT
 COOLER RECEIPT TEMP = _____ °C

REQUESTED ANALYSES

TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	<u>EPA 8330</u>
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LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.
			DATE	TIME		
1	S1		6/4/06	1110	Sel	1
2	S2		6/4/06	1121	Sel	1
3	S3		6/4/06	1133	Sel	1
4	S4		6/4/06	1151	Sel	1
5	S5		6/4/06	1212	Sel	1
6	S6		6/4/06	1225	Sel	1
7	S7		6/4/06	1238	Sel	1
8	S10		6/4/06	1300	Sel	1
9	S107A		6/4/06	1400	Sel	1
10	S107B		6/4/06	1400	Sel	1

Relinquished by: (Signature) [Signature] Received by: (Signature) _____
 Relinquished by: (Signature) [Signature] Received by: (Signature) _____
 Relinquished by: (Signature) [Signature] Received for Laboratory by: (Signature) [Signature] Date: 6/15/06 Time: 1000

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CHAIN OF CUSTODY RECORD
 Date 6/13/06
 Page 2 of 5

LABORATORY CLIENT: UNIVERSITY of HAWAII / ERIC H. DECARLO
 ADDRESS: DEPT. of OCEANOGRAPHY 1000 POPE RD.
 CITY: HONOLULU STATE: HI ZIP: 96822
 TEL: 808-956-5924 E-MAIL: edecarlo@soest.hawaii.edu
 TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWOCB REPORTING FORMS COELT EDF
 SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: NOAA Ordnance Reef
 PROJECT CONTACT: ERIC H. DECARLO
 SAMPLE # / SIGNATURE: [Signature]
 COELT LOG CODE:
 LAB USE ONLY: -
 COOLER RECEIPT:
 TEMP = _____ °C

REQUESTED ANALYSES

ANALYSIS	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)
													<u>✓</u> EPA 8330
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>
													<u>✓</u>

Received by: (Signature) [Signature] Received by: (Signature) _____
 Received by: (Signature) _____
 Received for Laboratory by: (Signature) [Signature] Date: 6/15/06 Time: 1000

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CHAIN OF CUSTODY RECORD
Date 6/13/06
Page 3 of 5

LABORATORY CLIENT: UNIVERSITY of HAWAII / ERIC H. DeCARLO
 ADDRESS: DEPT. of OCEANOGRAPHY 1000 POPE RD.
 CITY: Honolulu STATE: HI ZIP: 96822
 TEL: 808-956-5924 E-MAIL: edecarlo@soest.hawaii.edu
 TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF
 SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER:
NOAA ORDNANCE Reef
 PROJECT CONTACT:
ERIC H. DeCARLO
 SAMPLERS: (SIGNATURE) [Signature]
 COELT LOG CODE
 LAB USE ONLY
 COOLER RECEIPT
 TEMP = _____ °C

REQUESTED ANALYSES	
TPH (G)	
TPH (D) or	
BTEX / MTBE (8260B) or	
OXYGENATES (8260B)	
VOCs (8260B)	
5035 ENCORE PREP	
SVOCs (8270C)	
PEST (8081A)	
PCBs (8082)	
CAC, 122 METALS (6010B) / 747	
PNAs (8310) or (8270C)	
VOCs (TO-14A) or (TO-15)	
TPH(G) (TO-3M)	<u>EPA 8330</u>

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, 122 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Date:	Time:		
	21 Sed-1-1		6/7/06	1040	Sed	1																	
	22 184208		6/7/06		Sed	1																	
	23 185058		6/7/06		Sed	1																	
	24 191517		6/7/06	1315	Sed	1																	
	25 195033		6/7/06	1450	Sed	1																	
	26 203953		6/7/06		Sed	1																	
	27 214458		6/7/06	1545	Sed	1																	
	28 ADA 4		6/8/06	1245	Sed	1																	
	29 ADA 5		6/8/06		Sed	1																	
	30 ADA 6		6/8/06		Sed	1																	
Relinquished by: (Signature) <u>[Signature]</u>							Received by: (Signature)																
Relinquished by: (Signature) <u>[Signature]</u>							Received by: (Signature)																
Relinquished by: (Signature) <u>[Signature]</u>							Received for Laboratory by: (Signature) <u>[Signature]</u>																
							Date: <u>6/15/06</u> Time: <u>1000</u>																

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CHAIN OF CUSTODY RECORD
 Date 6/13/06
 Page 4 of 5

LABORATORY CLIENT: UNIVERSITY of HAWAII / ERIC H. DECARLO
 ADDRESS: Dept. of OCEANOGRAPHY 1000 POPE Rd.
 CITY: Honolulu STATE: HI ZIP: 96822
 TEL: 808-956-5924 E-MAIL: edecarlo@soest.hawaii.edu
 TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS

CLIENT PROJECT NAME / NUMBER: NOAA ORDNANU Reef P.O. NO.:
 PROJECT CONTACT: ERIC H. DECARLO
 SAMPLER(S): (SIGNATURE) [Signature] COELT LOG CODE
 LAB USE ONLY: COOLER RECEIPT TEMP = _____ °C

REQUESTED ANALYSES

TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNA's (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TFH(G) (TO-3M)
												<u>EPA 8330</u>

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.
			DATE	TIME		
<u>31</u>	<u>ADA 8</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>32</u>	<u>ADA 9</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>33</u>	<u>ADA 11</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>34</u>	<u>ADA 12</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>35</u>	<u>ADA14516C</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>36</u>	<u>NDA 1</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>37</u>	<u>NDA 3</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>38</u>	<u>NDA 5</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>39</u>	<u>NDA 7</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>
<u>40</u>	<u>NDA 9</u>		<u>6/8/06</u>		<u>Sed</u>	<u>1</u>

Relinquished by: (Signature) [Signature] Received by: (Signature)
 Relinquished by: (Signature) [Signature] Received by: (Signature)
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CHAIN OF CUSTODY RECORD
 Date 6/13/06
 Page 5 of 5

LABORATORY CLIENT: UNIVERSITY of HAWAII / ERIC H. DECARLO
 ADDRESS: Dept. of OCEANOGRAPHY 1000 POPE RD.
 CITY: Honolulu STATE: HI ZIP: 96822
 TEL: 808-956-5924 E-MAIL: edecarlo@soest.hawaii.edu
 TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF
 SPECIAL INSTRUCTIONS:

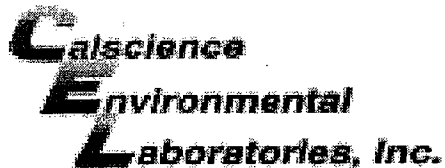
CLIENT PROJECT NAME / NUMBER: NOAA ORDNANCE Reef
 PROJECT CONTACT: ERIC H. DECARLO
 SAMPLER(S) SIGNATURE: [Signature]
 COELT LOG CODE:
 LAB USE ONLY: -
 COOLER RECEIPT:
 TEMP = _____ °C

REQUESTED ANALYSES

TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TFH(G) (TO-3M)
												<u>EPA 8330</u>

Received by: (Signature) [Signature] Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Received for Laboratory by: (Signature) [Signature] Date: 6/15/06 Time: 1000

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WORK ORDER #: **06** - 0 6 - 0 9 6 2

Cooler 1 of 2

SAMPLE RECEIPT FORM

CLIENT: University of Hawaii

DATE: 6-15-06

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
- 0.0 °C IR thermometer.
- Ambient temperature.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

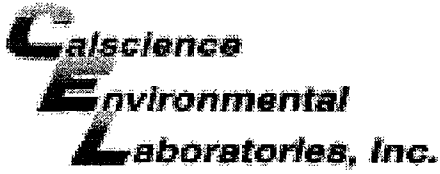
Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<u>✓</u>		
Sampler's name indicated on COC.....	<u>✓</u>		
Sample container label(s) consistent with custody papers.....	<u>✓</u>		
Sample container(s) intact and good condition.....	<u>✓</u>		
Correct containers and volume for analyses requested.....	<u>✓</u>		
Proper preservation noted on sample label(s).....			<u>✓</u>
VOA vial(s) free of headspace.			<u>✓</u>
Tedlar bag(s) free of condensation.....			<u>✓</u>

Initial: [Signature]

COMMENTS:



WORK ORDER #: 06 - 06 - 0962

Cooler 2 of 2

SAMPLE RECEIPT FORM

CLIENT: University of Hawaii

DATE: 6-15-06

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
°C Temperature blank.

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
0.0 °C IR thermometer.
Ambient temperature.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): Cooler: No (Not Intact): Not Applicable (N/A):

Initial: [Signature]

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: [Signature]

COMMENTS:

Blank lines for handwritten comments.