

Oil Sample Analysis Report

NOAA Marine Fisheries Service

Case Number DWH

Marine Safety Laboratory

Case Number 12-198



U.S. Department of
Homeland Security

**United States
Coast Guard**



Manager
U.S. Coast Guard
Marine Safety Laboratory

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16450
27 Jul 2012

NOAA Marine Fisheries Service
Attn: Elizabeth Stratton
75 Virginia Beach Drive
Miami, FL 33149

Dear Elizabeth Stratton:

The laboratory analysis of this case has been completed and our report is forwarded. The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request. We will maintain the oil samples in refrigerated storage pending final case disposition.

Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis, Kristy Juare.


K. JUAIRE
By direction

Encl: (1) MSL Report 12-198

**United States Coast Guard
Marine Safety Laboratory
Oil Spill Identification Report
12-198**

Requestor: NOAA Marine Fisheries Service

Unit Case/Activity Number: DWH

Received: 19-Jul-12 **Via:** Federal Express 7986 3407 1944

Number Of Samples: 6

Lab NO. of Spills: n/a

Lab NO. of Suspects: 1, 2, 3, 4, 5 and 6

Lab NO. of Background: n/a

Analysis Methods:

- GAS CHROMATOGRAPHY (GC)
- GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)
- INFRARED SPECTROSCOPY (IR)

Laboratory's Conclusion (as explained below): OTHER

SPECIAL INSTRUCTIONS: Compare the samples to the Deepwater Horizon oil spill. Samples 10-095-1 and 10-220-7 were reanalyzed as representative Deepwater Horizon samples.

RESULTS:

1. Samples 12-198-1, 2, 3, 4, 5 and 6 were specified to represent swab samples collected from dolphins. Analysis indicates:

A. Samples 12-198-1, 5 and 6 contain traces of petroleum hydrocarbons. The quantity is not sufficient for product identification or comparison purposes based on the analysis conducted.

B. Samples 12-198-2, 3 and 4 do not contain a quantity of petroleum oil detectable by the analysis conducted.

2. Samples 10-095-1 and 10-220-7 contain crude oil.

CONCLUSIONS:

1. Samples 12-198-1, 2, 3, 4, 5 and 6 do not contain a quantity of petroleum oil sufficient for comparison purposes.

SUPERVISOR OF ANALYSIS

K. JUAIRE



DATE

27-Jul-12

Page 1 of 1

**United States Coast Guard
Marine Safety Laboratory**

**Oil Spill Identification Analysis
Cost Recovery Documentation**

Laboratory Case Number: 12-198
Requestor: NOAA Marine Fisheries Service
Unit Case Number: DWH
Number of Samples: 8
Cost Per Sample Prepared: \$20.00
Total Costs of Sample Preparation: \$160.00
Number of Analyses: 22
Cost Per Sample Analyzed: \$86.00
Total Costs for Analysis: \$1,892.00
TOTAL COSTS: \$2,052.00

This documentation is provided for purposes of Phase IV - Documentation and Cost Recovery under the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300)

Signature: _____



Date: 27 Jul 2012

**United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log**

MSL Case/Activity Number: 12-198

Requestor: NOAA Marine Fisheries Service

Unit Case Number DWH

Federal Project Number:

Delivery Method: Federal Express

Received Date: 19 Jul 12

Delivery Number: 7986 3407 1944

Priority: Yes

Rush: No

Comparison Yes

Lab Number 12-198		Sample Descriptions from Sample Jars	Spill	Source
1	1	65IMMS062510 OIL SWAB PHARYNX TONGUE DEPRESSOR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	1	64IMMS061910 RIGHT SIDE TONGUE DISPRESSANT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	2	89 IMMS 120910 OIL SWAB ITEM 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	3	62IMMS061510 ITEM #3 L PECTORAL FIN + FLANK SWAB 6/15/10	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	3	76IMMS080510 KEU 20100805 ITEM #3 8-5-10	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	8	JSH-20110721-LA001 GAUZE SWAB UNKNOWN SUBSTANCE MC252 07/21/2011 1055	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Compare to DWH. Sample descriptions/Dates taken from outer plastic bags; Sample numbers taken from Chain of Custodies. Samples designated as "Source" for comparison purposes only.

Samples checked in by: MST2 BRIAN MESSING

Date: 19 Jul 12

Sample Custodian: MST3 ZACHARY COTE

Date: 27 Jul 12

Supervisor of Analysis: K. JUAIRE

Date: 27 Jul 12

**United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log**

MSL Case/Activity Number: 10-095

Requestor: Marine Safety Unit Morgan City

Unit Case Number: 3721503

Federal Project Number: N10036

Delivery Method: Federal Express

Received Date: 14 May 10

Delivery Number: 8697 9761 8027 / 8049

Priority: Yes

Rush: No

Comparison: No

Lab Number 10-095	Sample Descriptions from Sample Jars	Spill	Source
1	DTS-6 5,000 FT VESSEL: SKANDI - NEPTUNE 65% OIL KMS,ADM 5-5-10 1813	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	DTS-6 VESSEL: SKANDI NEPTUNE < 1% OIL BOTTOM KMS,ADM 5-5-10 1813	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>

Remarks: ID ONLY.

Samples checked in by: MST1 ALICIA TODMAN *Alicia Todman* **Date:** 14 May 10

Sample Custodian: MST2 JOHN AGAPITO *John Agapito* **Date:** 5/21/10

Supervisor of Analysis: K. JUAREZ *Kristy Juarez* **Date:** ^{KLJ} ~~10~~ 01 JUN 10

**United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log**

MSL Case/Activity Number: 10-220

Requestor: Sector Mobile

Unit Case Number 3789039

Federal Project Number:

Delivery Method: Federal Express

Received Date: 09 Jul 10

Delivery Number: 8726 4052 5936/5925

Priority: No **Rush:** No **Comparison** Yes

Lab Number 10-220	Sample Descriptions from Sample Jars	Spill	Source
1	PC1 PASS CHRISTIAN BEACH MISS TAR BALL 7JULY10 1016	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	PC2 PASS CHRISTIAN BEACH MISS. TAR BALL 7JULY10 1020	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	LB1 LONG BEACH MISS TAR BALLS 7JULY10 1123	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	LB2 LONG BEACH MISS TAR BALLS 7JULY10 1130	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	3789039-GS1-SMW FIRST TAR PATTY TAKEN FROM GULF SHORES, AL.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	3789039-GS2-SMW SECOND TAR PATTY TAKEN FROM GULF SHORES ,AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	3789039-FM1-SMW FIRST TAR PATTY TAKEN FROM FORT MORGAN, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	3789039-FM2-SMW SECOND TAR PATTY TAKEN FROM FORT MORGAN, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	3789039-DI1-SMW FIRST TAR PATTY TAKEN FROM DAUPHIN ISLAND, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	3789039-DI2-SMW SECOND TAR PATTY TAKEN FROM DAUPHIN ISLAND. AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Remarks: Compare to Deepwater Horizon.			

Samples checked in by: MST3 ZACHARY COTE *Zachary A. Cote* **Date:** 09 Jul 10

Sample Custodian: MST2 JOHN AGAPITO *John Agapito* **Date:** 13 JUL 10

Supervisor of Analysis: K. JUAIRE *Kristy Juarez* **Date:** 14 JUL 10