



# Applied Marine Sciences, Inc.

502 N. Hwy 3, Suite B, League City, TX 77573, (281) 554-7272 Fax (281) 554-6356

## ANALYTICAL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Client Sample ID: S1  
AMS Sample ID: 25724

AMS Project Number: 2006-598-78  
Date Sampled: 10/26/2006  
Date Received: 11/3/2006

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.48	%		0.01	0.03	EPA 9060A	Sediment	11/21/2006

**Quality Assurance:** These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- \* TOC sample not analyzed in quadruplicate
- \* TOC spike duplicate not analyzed every 10 samples

*KS Davis, P.G.*

AMS, Inc. Technical Director



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## ANALYTICAL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Client Sample ID: S2  
AMS Sample ID: 25725

AMS Project Number: 2006-598-78  
Date Sampled: 10/26/2006  
Date Received: 11/3/2006

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.42	%		0.01	0.03	EPA 9060A	Sediment	11/21/2006

**Quality Assurance:** These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

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- \* TOC spike duplicate not analyzed every 10 samples

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## ANALYTICAL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Client Sample ID: S3  
AMS Sample ID: 25726

AMS Project Number: 2006-598-78  
Date Sampled: 10/26/2006  
Date Received: 11/3/2006

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	3.69	%		0.01	0.03	EPA 9060A	Sediment	11/21/2006

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## ANALYTICAL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Client Sample ID: S4  
AMS Sample ID: 25727

AMS Project Number: 2006-598-78  
Date Sampled: 10/26/2006  
Date Received: 11/3/2006

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.69	%		0.01	0.03	EPA 9060A	Sediment	11/21/2006

**Quality Assurance:** These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

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- \* TOC spike duplicate not analyzed every 10 samples

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## ANALYTICAL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Client Sample ID: S5  
AMS Sample ID: 25728

AMS Project Number: 2006-598-78  
Date Sampled: 10/26/2006  
Date Received: 11/3/2006

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	1.15	%		0.01	0.03	EPA 9060A	Sediment	11/21/2006

**Quality Assurance:** These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

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- \* TOC spike duplicate not analyzed every 10 samples

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## ANALYTICAL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Client Sample ID: S6  
AMS Sample ID: 25729

AMS Project Number: 2006-598-78  
Date Sampled: 10/26/2006  
Date Received: 11/3/2006

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.30	%		0.01	0.03	EPA 9060A	Sediment	11/21/2006

**Quality Assurance:** These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

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- \* TOC spike duplicate not analyzed every 10 samples

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## QUALITY CONTROL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Matrix: Sediment  
Method: EPA 9060A

AMS Project Number: 2006-598-78  
Date Analyzed: 11/21/2006  
Batch ID: 112106-01

### Method Blank (Batch Continuing Blank (CB)), Continuing Calibration Verification (CCV) and Independent Continuing Calibration Verification (ICCV) Results:

AMS Sample ID	Parameter	Result (%)	CCV Conc. (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits (%)
CB-01	TOC	0.01	0.01	--	U	0.01	0.03	≤ 0.03
CCV-01	TOC	4.95	4.80	3.08		0.01	0.03	≤ 5 RPD
ICCV-01	TOC	2.07	2.00	3.44		0.01	0.03	≤ 5 RPD

### Sample Duplicate Results:

AMS Sample ID	Parameter	Result (%)	Duplicate Result (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits
25820	TOC	0.41	0.38	7.59		0.01	0.03	≤ 25 RPD

Samples in Batch (AMS ID):  
25723 25726 25729 25817 25820  
25724 25727 25815 25818  
25725 25728 25816 25819

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- \* TOC samples not analyzed in quadruplicate
- \* TOC spike duplicate not analyzed every 10 samples

Project-specific Quality Assurance requirements supersede those provided by the above quality systems and documents. Measurements of uncertainty are available upon request.

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## QUALITY CONTROL RESULTS

Client: CRG Marine Laboratories  
Project Number: P26173c  
Project Name: N/A  
Matrix: Sediment  
Method: EPA 9060A

AMS Project Number: 2006-598-78  
Date Analyzed: 11/21/2006

**Data Qualifiers:**

- U Undetected at the Limit of Detection (LOD): The associated value is the Limit of Detection, adjusted by any dilution factor used in the analysis.
- J The analyte was positively identified, but was below the Limit of Quantitation (LOQ). The quantitation is an estimate.
- B Blank contamination: The analyte was detected above one-half the LOD in an associated blank.
- Q One or more Quality Control criteria failed. Data usability should be carefully assessed by the Project Team.
- I Insufficient sample was provided to perform required Quality Control analyses and/or to meet method-specific sample volume recommendations.

**Definitions:**

- LOD The Limit of Detection (LOD) is determined by quantitative establishment of the Method Detection Limit (MDL), as defined in 40 CFR 136(b).
- LOQ The Limit of Quantitation (LOQ) is the minimum level, concentration or quantity of a target variable (target analyte) that can be quantitatively reported with a specified level of confidence. As defined in DoD QSM §D.1.2.2, the LOQ value must be a minimum of 3 times the LOD, although the specified level of confidence may have a lower quantitative value.

**Quality Assurance:** These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

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