



Marine Laboratories, Inc.

"A Center for Excellence in Analytical Chemistry and Environmental Microbiology"

June 30, 2010

Jonathan Williams
Occidental College
1600 Campus Road
Los Angeles CA, 90041

RE: CRG Work Order: 1006056
Client Project Reference: Chevron Outfall Bacteria Sampling

Enclosed is your analytical report for the referenced project. Samples were received on 06/15/2010 and analyzed as indicated on the Chain of Custody (attached).

The results contained in this report comply with all applicable standards and guidelines established in the CRG Quality Assurance Program Manual (QAPM) and Standard Operating Procedures (SOPs), the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP), and your Quality Assurance Project Plan (QAPP), if one was provided to CRG.

Should you have any questions, or require additional assistance, please do not hesitate to contact me. Thank you.

Sincerely,

Antony Basil

Microbiology Laboratory Manager

Occidental College

Work Order #:

1006056

Project: Chevron Outfall Bacteria Sampling

Received:

06/15/10

Project Manager: Jonathan Williams

Reported:

06/30/10

Project Sample List

<i>Client Sample ID</i>	<i>CRG Sample ID</i>	<i>Matrix</i>	<i>Date Sampled</i>	<i>Date Received</i>
S1	1006056-01	Sea Water	06/15/10 10:56	06/15/10 12:10
S3	1006056-02	Sea Water	06/15/10 10:52	06/15/10 12:10
S5	1006056-03	Sea Water	06/15/10 10:42	06/15/10 12:10
RW1	1006056-04	Sea Water	06/15/10 10:58	06/15/10 12:10
RW3	1006056-05	Sea Water	06/15/10 10:49	06/15/10 12:10
RW5	1006056-06	Sea Water	06/15/10 10:41	06/15/10 12:10

Occidental College
Project: Chevron Outfall Bacteria Sampling
Project Manager: Jonathan Williams

Work Order #:
1006056
Received:
06/15/10
Reported:
06/30/10
Environmental Microbiology

Analyte	Result	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Qualifier
S1 (1006056-01) Sea Water Sampled: 06/15/2010 10:56									
Enterococcus	ND	10.0	CFU/100 ml	1	C0F1509	06/15/10 15:00	06/16/10 15:00	EPA 1600	
Fecal Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221E	
Total Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221B	
S3 (1006056-02) Sea Water Sampled: 06/15/2010 10:52									
Enterococcus	10.0	10.0	CFU/100 ml	1	C0F1509	06/15/10 15:00	06/16/10 15:00	EPA 1600	
Fecal Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/18/10 15:00	SM 9221E	
Total Coliform	20.0	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/18/10 15:00	SM 9221B	
S5 (1006056-03) Sea Water Sampled: 06/15/2010 10:42									
Enterococcus	ND	10.0	CFU/100 ml	1	C0F1509	06/15/10 15:00	06/16/10 15:00	EPA 1600	
Fecal Coliform	20.0	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/18/10 15:00	SM 9221E	
Total Coliform	20.0	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/18/10 15:00	SM 9221B	
RW1 (1006056-04) Sea Water Sampled: 06/15/2010 10:58									
Enterococcus	ND	10.0	CFU/100 ml	1	C0F1509	06/15/10 15:00	06/16/10 15:00	EPA 1600	
Fecal Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221E	
Total Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221B	
RW3 (1006056-05) Sea Water Sampled: 06/15/2010 10:49									
Enterococcus	ND	10.0	CFU/100 ml	1	C0F1509	06/15/10 15:00	06/16/10 15:00	EPA 1600	
Fecal Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221E	
Total Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221B	
RW5 (1006056-06) Sea Water Sampled: 06/15/2010 10:41									
Enterococcus	ND	10.0	CFU/100 ml	1	C0F1509	06/15/10 15:00	06/16/10 15:00	EPA 1600	
Fecal Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221E	
Total Coliform	ND	20.0	MPN/100 mL	1	C0F1509	06/15/10 15:00	06/17/10 15:00	SM 9221B	

Occidental College

Work Order #:

1006056

Project: Chevron Outfall Bacteria Sampling

Received:

06/15/10

Project Manager: Jonathan Williams

Reported:

06/30/10

Environmental Microbiology - Quality Control

Analyte	Result	MDL	Units	Qualifiers
---------	--------	-----	-------	------------

Batch C0F1509

Blank C0F1509-BLK1

Prepared: 06/15/2010

Analyzed: 06/16/2010

Enterococcus	ND	10.0	CFU/100 ml	
Fecal Coliform	ND	20.0	MPN/100 mL	
Total Coliform	ND	20.0	MPN/100 mL	

LCS C0F1509-BS1

Prepared: 06/15/2010

Analyzed: 06/16/2010

Enterococcus	Pass	10.0	CFU/100 ml	
Fecal Coliform	Pass	20.0	MPN/100 mL	
Total Coliform	Pass	20.0	MPN/100 mL	

Occidental College

Work Order #:

1006056

Project: Chevron Outfall Bacteria Sampling

Received:

06/15/10

Project Manager: Jonathan Williams

Reported:

06/30/10

Qualifiers and Definitions

_LCS Pass

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CRG Marine Laboratories, Inc

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206
PHONE (310) 533-5190 FAX (310) 533-5003

CHAIN-OF-CUSTODY RECORD

100# 1006056

Client Information						REQUESTED ANALYSIS														
Client Name	Vantuna Research Group - Occidental College					Total Coliform (SM 9221B)	Fecal Coliform (SM 9221E)	Enterococci (EPA 1600)												
Address	1600 Campus Road Los Angeles, CA 90041																			
Sampled By	Jonathan Williams, Dr. Daniel Pondella II																			
Project Manager																				
Phone	323-259-2891 (JW), 323-259-2955 (DP)																			
FAX	323-259-2887																			
Email	jonwilliams@oxy.edu																			
Project Name/Number	Chevron Outfall Bacteria Sampling																			
P.O. Number																				
Client Sample ID	Sample Date	Sample Time	Sample Matrix*	Container																
				Quantity	Type															
S1	6/15/10	10:56	SW	1	Sterile Plastic															
S3	6/15/10	10:52	SW	1	Sterile Plastic															
S5	6/15/10	10:42	SW	1	Sterile Plastic															
RW1	6/15/10	10:58	SW	1	Sterile Plastic															
RW3	6/15/10	10:49	SW	1	Sterile Plastic															
RW5	6/15/10	10:41	SW	1	Sterile Plastic															
Correct Containers:	Yes	No				RELINQUISHED BY														
Sample Temperature:	Ambient	Cold	Warm				Signature: [Signature]													
Sample Preservative:	Yes	No				Print: Jonathan Williams														
Turnaround Time:	STD	Specify:				Company: VRG - Occidental														
Report Format:	pdf	EDD	hardcopy				DATE: 6/15/2010 TIME: 12:10													
Comments:						RECEIVED BY														
						Signature: [Signature]														
						Print: Sherifoma														
						Company: CRG														
CRG Project ID: _____ (lab use only)						DATE: 06-15-10 TIME: 12:10														
CRG Sample ID: _____ (lab use only)																				

*MATRIX CODES: (SED = Sediment); (TISS = Tissue); (SW = Seawater, Saltwater); (FW = Freshwater); (WW = Wastewater); (STRMW = Stormwater)

SAMPLE RECEIPT FORM

CLIENT: Occidental College

Date Received: 06/15/10

Total # of Samples: 6

COURIER INFORMATION

Received By: [Signature]

☐ CRG

☐ OTHER

☐ FEDEX

tracking #

☒ CLIENT

☐ UPS

TEMPERATURE

6 °C

☒ WET ICE

☐ BLUE ICE

☐ NO ICE

SAMPLE MATRIX

☒ LIQUID

☐ TISSUE

☐ Composite at CRG, equal

☐ Homogenized

☐ Composite at CRG, flow-weighted

☐ Unhomogenized

CLIENT COC

☒ INCLUDED

☒ SIGNED

☐ NOT INCLUDED

☐ NOT SIGNED

☐ SEDIMENT

☐ OTHER

CONDITION OF SAMPLES UPON VERIFICATION

Samples Verified By: [Signature]

All sample containers received intact and in good condition.....

Yes

No

NA

☒

☐

☐

All samples listed on COC(s) are present.....

☒

☐

☐

All sample IDs on containers are consistent with sample IDs on COC(s).....

☒

☐

☐

Correct containers used for analyses requested.....

☒

☐

☐

All samples received within method holding time.....

☒

☐

☐

NOTES

Samples Labeled By: [Signature]



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

CRG MARINE LABORATORIES, INC.

2020 DEL AMO BLVD., SUITE 200

TORRANCE, CA 90501

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2261**

Expiration Date: **06/30/2011**

Effective Date: **07/01/2009**

Richmond, California
subject to forfeiture or revocation

George C. Kulasingam, Ph.D., Chief
Environmental Laboratory Accreditation Program Branch



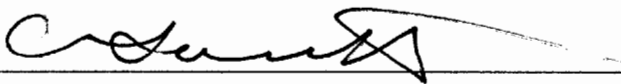
Marine
Laboratories, Inc.

"A Center for Excellence in Analytical Chemistry and Environmental Microbiology"

Perjury Statement

Client:	Vantuna Research Group – Occidental College
---------	---

I certify under penalty of perjury that the information contained in the reports for the above-named client was produced in accordance with the indicated methods and laboratory standard operating procedures, except as noted, and is complete and accurate to the best of my knowledge and belief.

Signature:	
Name:	Charles W. Gossett
Title	Vice President
Date:	7/6/07