



**United States Environmental Protection Agency**

**Region 9 Laboratory**

1337 S. 46th Street Building 201

Richmond, CA 94804

MAR 31 2004

**Subject: Analytical Testing Results - Project R04S42  
SDG: 04063B**

**From: Brenda Bettencourt, Director**  
**EPA Region 9 Laboratory** *B. Bettencourt*  
**PMD-2**

**To: Chris Lichens**  
**Site Cleanup Section 4**  
**SFD-7-4**

Attached are the results from the analysis of samples from the **Omega Chemical OU2 March 2004 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

**Analyses included in this report:**

Biochemical Oxygen Demand



# United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Site Cleanup Section 4**

**Project: Omega Chemical OU2 March 2004 Sampling**

**75 Hawthorne Street  
San Francisco CA, 94105**

**Project Number: R04S42  
Project Manager: Chris Lichens**

**SDG:04063B  
Reported:03/30/04 10:24**

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
OC2-MW1A-W-0-1	0403009-01	Water	03/02/04 10:30	03/03/04 10:00
OC2-MW1B-W-0-2	0403009-02	Water	03/02/04 11:30	03/03/04 10:00
OC2-MW2A-W-0-4	0403009-04	Water	03/02/04 13:30	03/03/04 10:00
OC2-MW4A-W-0-5	0403011-01	Water	03/03/04 08:05	03/04/04 09:30
OC2-MW4A-W-1-6	0403011-02	Water	03/03/04 08:25	03/04/04 09:30
OC2-MW4B-W-0-7	0403011-03	Water	03/03/04 09:00	03/04/04 09:30
OC2-MW4C-W-0-8	0403011-04	Water	03/03/04 09:30	03/04/04 09:30
OC2-MW5A-W-0-9	0403011-05	Water	03/03/04 11:15	03/04/04 09:30
OC2-MW6A-W-0-10	0403011-06	Water	03/03/04 12:40	03/04/04 09:30
OC2-MW6A-W-1-11	0403011-07	Water	03/03/04 12:45	03/04/04 09:30
OC2-MW8A-W-0-12	0403021-01	Water	03/04/04 07:50	03/05/04 10:49
OC2-MW8B-W-0-13	0403021-02	Water	03/04/04 08:15	03/05/04 10:49
OC2-MW8C-W-0-14	0403021-03	Water	03/04/04 08:50	03/05/04 10:49
OC2-MW8D-W-0-15	0403021-04	Water	03/04/04 09:25	03/05/04 10:49
OC2-MW9B-W-0-17	0403021-06	Water	03/04/04 11:15	03/05/04 10:49
OC2-MW10A-W-0-18	0403021-07	Water	03/04/04 12:15	03/05/04 10:49
OC2-MW11A-W-0-19	0403021-08	Water	03/04/04 13:05	03/05/04 10:49
OC2-MW7A-W-0-20	0403025-01	Water	03/05/04 08:10	03/08/04 10:35
OC2-MW3A-W-0-21	0403025-02	Water	03/05/04 08:45	03/08/04 10:35

Samples 0403025-01 and -02 were sampled and shipped Friday 3/5/04 but unavailable for pick up at Fed Ex on Saturday 3/6/04. Samples were finally received on Monday 3/8/04. Sample were received at 9 degrees C, which is outside recommended 0 - 6 degree C range. BOD, nitrate, nitrite and ortho-phosphate were past hold time when samples were received.

Samples from Work Order 0403011 were sampled and shipped on 3/03/04 in three coolers. Two coolers were received on 3/4/04 @ 9:30am. One cooler was received on 3/5/04 @ 9:34. The BOD samples 0403011- 01, -02, -03, and -04 were past the hold time when received. Sample 0403011-05 hold time also expired before the analyses could be started.

Since the BOD results for all samples from this case were non-detects, it is doubtful that these shipping issues affected the results for any of the samples.



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**Conventional Chemistry Parameters by APHA/EPA Methods  
EPA Region 9 Laboratory**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>0403009-01</b>	<b>: OC2-MW1A-W-0-1</b>	<b>Water</b>	<b>Sampled: 03/02/04 10:30</b>	<b>Received: 03/03/04 10:00</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	Q2, U	2.0	mg/L	B4C0027	03/03/04	03/03/04	405.1/SOP1133
<b>0403009-02</b>	<b>: OC2-MW1B-W-0-2</b>	<b>Water</b>	<b>Sampled: 03/02/04 11:30</b>	<b>Received: 03/03/04 10:00</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	Q2, U	2.0	mg/L	B4C0027	03/03/04	03/03/04	405.1/SOP1133
<b>0403009-04</b>	<b>: OC2-MW2A-W-0-4</b>	<b>Water</b>	<b>Sampled: 03/02/04 13:30</b>	<b>Received: 03/03/04 10:00</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	Q2, U	2.0	mg/L	B4C0027	03/03/04	03/03/04	405.1/SOP1133
<b>0403011-01</b>	<b>: OC2-MW4A-W-0-5</b>	<b>Water</b>	<b>Sampled: 03/03/04 08:05</b>	<b>Received: 03/04/04 09:30</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	A3, U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403011-02</b>	<b>: OC2-MW4A-W-1-6</b>	<b>Water</b>	<b>Sampled: 03/03/04 08:25</b>	<b>Received: 03/04/04 09:30</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	A3, U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403011-03</b>	<b>: OC2-MW4B-W-0-7</b>	<b>Water</b>	<b>Sampled: 03/03/04 09:00</b>	<b>Received: 03/04/04 09:30</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	A3, U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403011-04</b>	<b>: OC2-MW4C-W-0-8</b>	<b>Water</b>	<b>Sampled: 03/03/04 09:30</b>	<b>Received: 03/04/04 09:30</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	A3, U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403011-05</b>	<b>: OC2-MW5A-W-0-9</b>	<b>Water</b>	<b>Sampled: 03/03/04 11:15</b>	<b>Received: 03/04/04 09:30</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	A3, U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403011-06</b>	<b>: OC2-MW6A-W-0-10</b>	<b>Water</b>	<b>Sampled: 03/03/04 12:40</b>	<b>Received: 03/04/04 09:30</b>				
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133



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<b>75 Hawthorne Street San Francisco CA, 94105</b>	<b>Project Number: R04S42 Project Manager: Chris Lichens</b>	<b>SDG:04063B Reported:03/30/04 10:24</b>

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>0403011-07 : OC2-MW6A-W-1-11 Water Sampled: 03/03/04 12:45 Received: 03/04/04 09:30</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-01 : OC2-MW8A-W-0-12 Water Sampled: 03/04/04 07:50 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-02 : OC2-MW8B-W-0-13 Water Sampled: 03/04/04 08:15 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-03 : OC2-MW8C-W-0-14 Water Sampled: 03/04/04 08:50 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-04 : OC2-MW8D-W-0-15 Water Sampled: 03/04/04 09:25 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-06 : OC2-MW9B-W-0-17 Water Sampled: 03/04/04 11:15 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-07 : OC2-MW10A-W-0-18 Water Sampled: 03/04/04 12:15 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403021-08 : OC2-MW11A-W-0-19 Water Sampled: 03/04/04 13:05 Received: 03/05/04 10:49</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	U	2.0	mg/L	B4C0055	03/05/04	03/05/04	405.1/SOP1133
<b>0403025-01 : OC2-MW7A-W-0-20 Water Sampled: 03/05/04 08:10 Received: 03/08/04 10:35</b>								
Conventional Chemistry Parameters by APHA/EPA Methods								
Biochemical Oxygen Demand	ND	A2, A3, U	2.0	mg/L	B4C0056	03/08/04	03/08/04	405.1/SOP1133



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	<b>Project Manager: Chris Lichens</b>	<b>Reported:03/30/04 10:24</b>

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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**0403025-02 : OC2-MW3A-W-0-21 Water Sampled: 03/05/04 08:45 Received: 03/08/04 10:35**  
 Conventional Chemistry Parameters by APHA/EPA Methods  
 Biochemical Oxygen Demand ND A2, A3, U 2.0 mg/L B4C0056 03/08/04 03/08/04 405.1/SOP1133



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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
EPA Region 9 Laboratory**

**Batch B4C0027 - - General Biology - Biochemical Oxygen Demand**

Blank (B4C0027-BLK1) Prepared & Analyzed: 03/03/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand		U	2.0	mg/L						

Duplicate (B4C0027-DUP1)

Source: 0403009-01 Prepared & Analyzed: 03/03/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand	ND	U	2.0	mg/L		ND				25

Reference (B4C0027-SRM1)

Prepared & Analyzed: 03/03/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand	248			mg/L	396		63	81.5-118.5		

**Batch B4C0055 - - General Biology - Biochemical Oxygen Demand**

Blank (B4C0055-BLK1) Prepared & Analyzed: 03/05/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand	ND	U	2.0	mg/L						

Reference (B4C0055-SRM1)

Prepared & Analyzed: 03/05/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand	323			mg/L	396		82	81.5-118.5		

**Batch B4C0056 - - General Biology - Biochemical Oxygen Demand**

Blank (B4C0056-BLK1) Prepared & Analyzed: 03/08/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand	ND	U	2.0	mg/L						

Reference (B4C0056-SRM1)

Prepared & Analyzed: 03/08/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Biochemical Oxygen Demand	372			mg/L	396		94	81.5-118.5		



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**75 Hawthorne Street**

**Project Number:** R04S42

**SDG:**04063B

**San Francisco CA, 94105**

**Project Manager:** Chris Lichens

**Reported:**03/30/04 10:24

**Qualifiers and Comments**

- Q2 The laboratory control standard associated with this sample did not meet recovery criteria for this analyte (see LCS results for this batch in QC summary).
- A3 The sample was extracted/analyzed past the recommended holding time.
- A2 The sample received above the recommended temperature range of 2 - 6 degrees C.
- U Not Detected
- NR Not Reported