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United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Subject: **Analytical Testing Results - Project R09S89**
SDG: 09265B

From: **Brenda Bettencourt, Director**
EPA Region 9 Laboratory
MTS-2

To: **Lynda Deschambault**
California Site Cleanup Section 1
SFD-7-1

Attached are the results from the analysis of samples from the **Omega Chemical OU2 Sept 2009 IDW 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 Eugenia McNaughton 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.

Electronic CC: Tom Perina, CH2M-Hill
Jennifer Galles, CH2M-Hill

Analyses included in this report:

Hexavalent Chromium by Ion Chromatography	Mercury by CVAA
Metals by ICP	pH

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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Lynda Deschambault	**California Site Cleanup Section 1**		**SDG:**	09265B
Project Number:	R09S89	**75 Hawthorne Street**		**Reported:**	10/07/09 17:47
Project:	Omega Chemical OU2 Sept 2009 IDW Sampling	**San Francisco CA, 94105**			

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
MY4ZH1	0909046-01	Water	09/16/09 10:30	09/22/09 10:45

Samples were shipped to the incorrect laboratory in error and did not reach EPA Region 9 Laboratory until 9/22/2009.

Hexavalent Chromium and pH: Samples were received and analyzed past the 24-hour holding time. Results are flagged as estimated.

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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID:	**0909046-01**								**Water - Sampled: 09/16/09 10:30**
Sample ID:	**MY4ZH1**								**Metals by EPA 200 Series Methods**
Mercury		ND	U	0.030	ug/L	B9I0157	09/24/09	09/25/09	245.1/SOP515
Antimony		ND	U	20	"	B9I0150	09/23/09	10/02/09	200.7/SOP505
Arsenic		ND	U	20	"	"	"	"	200.7/SOP505
Barium		41		10	"	"	"	"	200.7/SOP505
Beryllium		ND	U	1	"	"	"	"	200.7/SOP505
Cadmium		ND	U	5	"	"	"	"	200.7/SOP505
Chromium		ND	U	10	"	"	"	"	200.7/SOP505
Cobalt		ND	U	10	"	"	"	"	200.7/SOP505
Copper		ND	U	10	"	"	"	"	200.7/SOP505
Lead		ND	U	20	"	"	"	"	200.7/SOP505
Molybdenum		11	C1, J	20	"	"	"	"	200.7/SOP505
Nickel		ND	U	10	"	"	"	"	200.7/SOP505
Selenium		ND	U	20	"	"	"	"	200.7/SOP505
Silver		ND	U	10	"	"	"	"	200.7/SOP505
Thallium		ND	U	20	"	"	"	"	200.7/SOP505
Vanadium		ND	U	10	"	"	"	"	200.7/SOP505
Zinc		64		10	"	"	"	"	200.7/SOP505
Sample ID:	**MY4ZH1**								**Conventional Chemistry Parameters by APHA/EPA Methods**
Hexavalent Chromium		ND	A3, J, U	0.20	"	B9I0142	09/22/09	09/22/09	218.6/SOP525
pH		7.8	A3, J	0.10	pH Units	B9I0143	09/22/09	09/22/09	SM4500-H+/SOP 580

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B9I0142 - - General Inorganic - Chromium VI										**Prepared & Analyzed: 09/22/09**
								Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control		
Blank (B9I0142-BLK1)										
Hexavalent Chromium	ND	U	0.2	ug/L						
LCS (B9I0142-BS1)										
Hexavalent Chromium	4.59		0.2	ug/L	5.00		92	90-110		
Matrix Spike (B9I0142-MS1)		**Source: 0909046-01**								
Hexavalent Chromium	4.7		0.2	ug/L	5.00	ND	94	90-110		20
Matrix Spike Dup (B9I0142-MSD1)		**Source: 0909046-01**								
Hexavalent Chromium	4.64		0.2	ug/L	5.00	ND	93	90-110	1	20
Batch B9I0143 - - General Inorganic - pH by 150.1										**Prepared & Analyzed: 09/22/09**
								Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control		
Duplicate (B9I0143-DUP2)		**Source: 0909046-01**								
pH	7.77		0.1	pH Units		7.75			0.3	20
Reference (B9I0143-SRM1)										
pH	7.02			pH Units	7.00		100	98.6-101.4		
Batch B9I0150 - 200 Series Digest - Metals by 200.7										**Prepared: 09/23/09 Analyzed: 10/02/09**
								Metals by EPA 200 Series Methods - Quality Control		
Blank (B9I0150-BLK1)										
Antimony	ND	U	20	ug/L						
Arsenic	ND	U	20	"						
Barium	ND	U	10	"						
Beryllium	ND	U	1	"						
Cadmium	ND	U	5	"						
Chromium	ND	U	10	"						
Cobalt	ND	U	10	"						
Copper	ND	U	10	"						
Lead	ND	U	20	"						
Molybdenum	ND	U	20	"						
Nickel	ND	U	10	"						
Selenium	ND	U	20	"						
Silver	ND	U	10	"						
Thallium	ND	U	20	"						
Vanadium	ND	U	10	"						
Zinc	ND	U	10	"						
LCS (B9I0150-BS1)										
Antimony	850		20	ug/L	800		106	85-115		
Arsenic	815		20	"	800		102	85-115		
Barium	193		10	"	200		96	85-115		
Beryllium	192		1	"	200		96	85-115		
Cadmium	202		5	"	200		101	85-115		
Chromium	391		10	"	400		98	85-115		
Cobalt	204		10	"	200		102	85-115		
Copper	297		10	"	300		99	85-115		

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B9I0150 - 200 Series Digest - Metals by 200.7									**Prepared: 09/23/09 Analyzed: 10/02/09**	
									Metals by EPA 200 Series Methods - Quality Control	
LCS (B9I0150-BS1)										
Lead	1,010		20	"	1000		101	85-115		
Molybdenum	391		20	"	400		98	85-115		
Nickel	510		10	"	500		102	85-115		
Selenium	2,070		20	"	2000		103	85-115		
Silver	73.3		10	"	75.0		98	85-115		
Thallium	2,000		20	"	2000		100	85-115		
Vanadium	298		10	"	300		99	85-115		
Zinc	203		10	"	200		102	85-115		
Matrix Spike (B9I0150-MS1)		**Source: 0909046-01**								
Antimony	847		20	ug/L	800	ND	106	70-130		20
Arsenic	824		20	"	800	ND	103	70-130		20
Barium	232		10	"	200	41.1	95	70-130		20
Beryllium	186		1	"	200	ND	93	70-130		20
Cadmium	184		5	"	200	ND	92	70-130		20
Chromium	378		10	"	400	ND	94	70-130		20
Cobalt	186		10	"	200	ND	93	70-130		20
Copper	265		10	"	300	ND	88	70-130		20
Lead	918		20	"	1000	ND	92	70-130		20
Molybdenum	402		20	"	400	10.8	98	70-130		20
Nickel	455		10	"	500	ND	91	70-130		20
Selenium	2,010		20	"	2000	ND	101	70-130		20
Silver	71.2		10	"	75.0	ND	95	70-130		20
Thallium	1,800		20	"	2000	ND	90	70-130		20
Vanadium	302		10	"	300	ND	101	70-130		20
Zinc	252		10	"	200	64.4	94	70-130		20
Matrix Spike Dup (B9I0150-MSD1)		**Source: 0909046-01**								
Antimony	833		20	ug/L	800	ND	104	70-130	2	20
Arsenic	810		20	"	800	ND	101	70-130	2	20
Barium	231		10	"	200	41.1	95	70-130	0.3	20
Beryllium	185		1	"	200	ND	93	70-130	0.2	20
Cadmium	181		5	"	200	ND	91	70-130	1	20
Chromium	374		10	"	400	ND	94	70-130	0.9	20
Cobalt	185		10	"	200	ND	92	70-130	0.8	20
Copper	263		10	"	300	ND	88	70-130	0.9	20
Lead	906		20	"	1000	ND	91	70-130	1	20
Molybdenum	401		20	"	400	10.8	98	70-130	0.09	20
Nickel	452		10	"	500	ND	90	70-130	0.5	20
Selenium	1,990		20	"	2000	ND	99	70-130	1	20
Silver	70.2		10	"	75.0	ND	94	70-130	1	20
Thallium	1,760		20	"	2000	ND	88	70-130	2	20
Vanadium	296		10	"	300	ND	99	70-130	2	20

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B9I0150 - 200 Series Digest - Metals by 200.7									**Prepared: 09/23/09 Analyzed: 10/02/09**	
									Metals by EPA 200 Series Methods - Quality Control	
Matrix Spike Dup (B9I0150-MSD1)		**Source: 0909046-01**								
Zinc	251		10	"	200	64.4	93	70-130	0.4	20
Batch B9I0157 - 245.1 Hg Prep. - Mercury									**Prepared: 09/24/09 Analyzed: 09/25/09**	
									Metals by EPA 200 Series Methods - Quality Control	
Blank (B9I0157-BLK1)										
Mercury	ND	U	0.03	ug/L						
LCS (B9I0157-BS1)										
Mercury	0.208		0.03	ug/L	0.200		104	85-115		200
Matrix Spike (B9I0157-MS3)		**Source: 0909046-01**								
Mercury	0.215		0.03	ug/L	0.200	ND	108	70-130		20
Matrix Spike Dup (B9I0157-MSD3)		**Source: 0909046-01**								
Mercury	0.208		0.03	ug/L	0.200	ND	104	70-130	3	20

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Qualifiers and Comments

J	The reported result for this analyte should be considered an estimated value.
C1	The reported concentration for this analyte is below the quantitation limit.
A3	The sample was prepped/analyzed past the recommended holding time.
U	Not Detected
NR	Not Reported
RE1, RE2, etc:	Result is from a sample re-analysis.