

APPENDIX K

COLORADO LAGOON SEDIMENT ASSESSMENT REPORT, 2007

COLORADO LAGOON SEDIMENT ASSESSMENT REPORT

KL1.CL-03
January 2007



Prepared for:
**Chambers Group, Inc.
and the
City of Long Beach**

Prepared by:
**Kinnetic Laboratories, Inc.
Carlsbad, California**



This page intentionally left blank.

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Background.....	1
1.2	Scope of Work and Objectives	1
2.0	METHODS	3
2.1	Field Sampling Methods	3
2.2	Analytical Methods	3
3.0	RESULTS AND DISCUSSION	5
3.1	Conventionals	5
3.2	Trace Metals	6
3.3	Organochlorine Pesticides and PCBs	6
4.0	CONCLUSIONS AND RECOMMENDATIONS	15
5.0	REFERENCES.....	16

LIST OF APPENDICES

- A Field Logs
- B Sediment Quality Data - Analytical Chemistry Reports, July 2006

LIST OF TABLES

Table 1. Analytes, methods, and holding times for analysis of sediments.....	4
Table 2. Results of the 2006 Surface Sediment Survey and Comparison with the 2004 Vibracore Sediment Survey.....	8
Table 3. Summary of Lead WET Test Results ($\mu\text{g/L}$) Conducted on Composite Samples from Transects.....	11

LIST OF FIGURES

Figure 1. Locations of each Surface Grab Sample for Transects A through G.....	2
Figure 2. Locations of 2004 Vibracore Sampling Sites and the Current 2006 Surface Grab Sampling Sites in Colorado Lagoon.	11
Figure 3. Particle Size Composition of Sediments from each Transect.....	12
Figure 4. Percent Organic Carbon (TOC) measured in Sediments from each Transect.....	12
Figure 5. Comparison of Lead Concentrations Measured in Transects A to G with Previous Composite Samples from the Northwest Arm (CL-1 TOP) and the Central Colorado Lagoon near the Tide Gate (CL-2 TOP).....	13
Figure 6. Comparison of DDT Concentrations Measured in Transects A to G with Previous Composite Samples from the Northwest Arm (CL-1 TOP) and the Central Colorado Lagoon near the Tide Gate (CL-2 TOP).....	13
Figure 7. Comparison of Chlordane Concentrations Measured in Transects A to G with Previous Composite Samples from the Northwest Arm (CL-1 TOP) and the Central Colorado Lagoon near the Tide Gate (CL-2 TOP).....	14

1.0 INTRODUCTION

1.1 Background

A previous study (Kinnetic Laboratories, Inc./Moffatt Nichol 2004) provided a complete review of previous sediment surveys conducted in Colorado Lagoon. Information from the literature review was used to design an investigation to determine if contamination was localized or spread throughout the Lagoon. The 2004 study used a vibracore to obtain samples of sediment deposited in Colorado Lagoon since the Lagoon was first developed. For the 2004 survey, the Lagoon was segmented into three areas representing the western arm (Area CL-1), the central lagoon near the tidal gates connecting to Marine Stadium (Area CL-2) and the northern arm Area (CL-3). A total of three cores were taken in each area and composited to form a single sample representing each region.

Results of the 2004 study indicated a strong contamination gradient with high levels of certain contaminants in the western arm transitioning to much lower levels in the northern arm. Concentrations of many of these contaminants differed by an order of magnitude between Area CL-1 and CL-3. Five metals including cadmium, copper, lead, mercury and zinc exhibited this distributional pattern. Among the organic contaminants, DDT compounds, chlordane, dieldrin, PCBs and PAHs also demonstrated this strong gradient.

1.2 Scope of Work and Objectives

This study element is designed to provide improved information on the spatial extent of contamination in order to provide a sound basis for delineation of the sediment removal area. Comparison of recent sediment tests conducted using only surficial sediments with data from the sediment cores indicates that high levels of contamination are evident at both the surface and in the deeper sediments. Based upon those results, surface samples were used to characterize the horizontal extent of contamination.

The study was designed to characterize surface sediment quality along seven transects extending from the float line marking the western edge of the swimming area to an area approximately 100 feet east of the float line marking the eastern edge of the swimming area (Figure 1). Transects were to be placed at intervals of roughly 100 feet. Three surface samples were to be taken in the center of each cross section. Equal portions of sediments from each of the three surface samples were then to be composited into a single, representative sample and analyzed for key constituents of concern including lead, organochlorine pesticides, and PCBs. Sediment particle size, total organic carbon and percent moisture were also to be analyzed to enable normalization of the data. The results of the field survey were then to be used to recommend the most appropriate eastern limit for removal of sediment from the Lagoon.

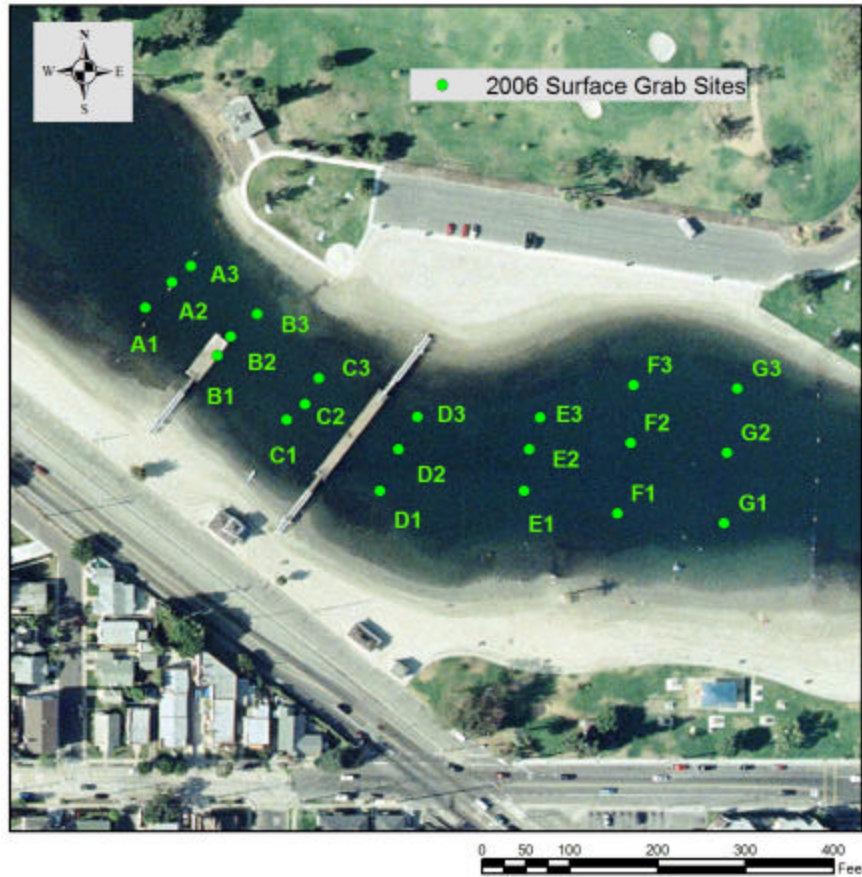


Figure 1. Locations of each Surface Grab Sample for Transects A through G.

2.0 METHODS

The following section provides a brief summary of both the field sampling methods and analytical methods used to determine the physical and chemical characteristics of sediments along a series of transects in Colorado Lagoon.

2.1 Field Sampling Methods

Sediment samples were obtained by use of 6" x 6" stainless steel Petite Ponar Grab. All equipment was thoroughly cleaned prior to sampling with 2% Micro® solution and deionized water. Equipment was then rinsed three times in deionized water and let dry in a clean place. Equipment was then rinsed with a 1.0% solution of hydrochloric acid, followed by a rinse with deionized water to eliminate the acid. A rinse was then conducted with methanol, followed by another set of three rinses with deionized water. The equipment was then allowed to dry in a clean place ready for deployment. Between sampling sites, the grab was rinsed in site water followed by a deionized water rinse.

Preliminary coordinates were established for each transect from GIS maps of the study site. Final coordinates for sediment sampling were determined in the field using a handheld differential GPS unit. Field log sheets were compiled for each transect that recorded the sampling date and time, crew member's names, and any appropriate observations.

The three samples taken for each transect were composited on site into a single sample representative of the each transect. The composite samples were each placed in 8 ounce, wide mouth, glass jars. Each jar was labeled with the transect designation, date and time of sampling, and initials of the sampler. All samples were then place in a cooler with wet ice and transferred under Chain of Custody to CRG Marine Laboratories, Inc. within four hours after completion of the field sampling effort.

2.2 Analytical Methods

Analytical methods used for analysis of the sediments are summarized in Table 1. Although lead was the only required trace metal, analyses included the full complement of metals since the cost differential was minor while adding a significant amount of additional data. In cases where the total wet weight concentration of lead exceeded 50 mg/kg, additional testing was done to evaluate the leaching characteristics of the sediments.

Table 1. Analytes, methods, and holding times for analysis of sediments.

Analyte	Units (dry wt.)	Method	Method Reporting Limit	Holding Times
Trace Metals	ug/g (mg/Kg)	EPA 6020m	0.05	6 months
Organochlorine Pesticides	ng/g (ug/Kg)	EPA 8270Cm	0.1	14 days extract 40 days analysis
Aroclors	ng/g (ug/Kg)	EPA 8270Cm	20	14 days extract 40 days analysis
PCB congeners	ng/g (ug/Kg)	EPA 8270Cm	5	14 days extract 40 days analysis
Particle Size	%	ASTM D422M	NS ¹	6 months ²
Percent Solids	% wet	EPA 160.3	0.1	6 months ²
TOC	%	EPA 9060A	0.1	14 days

ASTM=American Society for Testing and Materials, PSEP=Puget Sound Estuary Project

1. NS indicates that the Target Detection Limit is not specified.
2. Maximum recommended limits if samples are sealed and refrigerated during storage.

Leaching characteristics were evaluated by use of a State of California, Title 22 Waste Extraction Test (WET). This method uses sodium citrate as an extractant. The test involved extracting 50 grams of sediment for 24 hours at a ratio of one part sediment to ten parts 0.2 M sodium citrate at a pH of 5.0. After extraction, the solution was filtered through a 0.45 micron filter prior to analysis. Analytical results were reported as micrograms of each constituent per liter of extractant. The results were then compared against the Soluble Threshold Limiting Concentration (STLC) which, in the case of lead, is 5,000 µg/L. In accordance with California's Title 22 regulations, any material **exceeding** the STLC value would be classified as hazardous.

3.0 RESULTS AND DISCUSSION

This section describes sediment quality data for Colorado Lagoon from the 2006 surface sediment transects and compares the data with the previous vibracore survey conducted in 2004. All historical sediment data was previously summarized in detail in "Colorado Lagoon: Sediment Testing and Material Disposal Report" (KLI/M&N 2004).

The results of the sediment survey are summarized in Table 2. Composite sediment data from Transects A through G are compared with previous sediment sampling conducted in 2004. The seven transects were taken between Areas CL-1 and CL-2 from the 2004 survey (Figure 2). Cores 1a through 1c comprised the CL-1 TOP composite and Cores 2a through 2c comprised the CL-2 TOP composites.

To aid in the evaluation of sediment test data, chemical concentrations of contaminants found within the sediments were compared to sediment quality guidelines (Long et. al., 1995) developed by NOAA. These guidelines were used to screen sediments for contaminant concentrations that might cause biological effects and to identify sediments for further toxicity testing. For any given contaminant the Effects Range Low (ERL) guideline represents the 10th percentile concentration value in the NOAA database that might be expected to cause adverse biological effects and the Effects Range Medium (ERM) reflects the 50th percentile value in the database.

The results of this investigation indicate that concentrations of most contaminants in surface sediments rapidly declined with distance between the CL-1 TOP composite area in the northwestern arm and the CL-2 TOP composite area in the central portion of the Lagoon (Figure 2; Table 2). The following section examines the spatial trends for the primary contaminants of concern.

3.1 Conventionals

The particle size composition of sediments from each transect showed substantial spatial variation (Figure 3; Table 2). The percentage of fine sediments (silts and clays) ranged from 39.6 to 74.2 percent. Sediments from the A transect contained 55.2 fines. Sediments from the B Transect had the lowest proportion of fine particles (39.6 percent). The percentage of fine material in the sediments then generally increased in Transects C through E with particle size composition of sediments from Transects E through G extremely similar grain size characteristics.

Organic carbon content (TOC) in the sediments ranged from 1.90 to 7.10 percent with the highest measured in Transect A sediments (Figure 4; Table 2). Sediments with lowest organic carbon content were from Transects B, C and D where sediments also had higher sand content.

3.2 Trace Metals

Lead was the primary trace metal of concern based upon previous testing conducted in 2004. It was the only metal that exceeded the ERM. Concentrations total lead were reported as 409 mg/Kg – dry in composite CL-1 but dropped to 81 mg/Kg – dry in composite CL-2 (Table 2).

All lead concentrations measured in the seven transects exceeded the ERLs but none exceeded the ERM (Table 2). Lead concentrations measured in the seven transects were highest at Transect A and lowest at Transects B, C and D (Figure 5). Measured concentrations of lead followed similar spatial trends to those observed for both TOC and percent fines.

Lead was the only constituent where bulk sediment concentrations were high enough (greater than 50 mg/Kg on a wet weight basis) to trigger a Waste Extraction Test to further evaluate if the sediments would be classified as hazardous under California's Title 22 regulations. Four of the seven composite samples had concentrations of lead that met these criteria. WET testing conducted on these samples resulted in values ranging from 4100 ug/L for sediments from Transect G to 5000 ug/L in sediments from Transect E (Table 3). Although sediments collected from Transect E were equal to the STLC, they did not exceed the STLC which would be necessary to be classified as hazardous.

3.3 Organochlorine Pesticides and PCBs

Organochlorine pesticides of concern in Colorado Lagoon included DDT and derivative compounds, chlordane compounds, and Dieldrin. PCBs were previously measured in the CL-1 TOP sediments at levels exceeding the ERLs. Both PCBs and Dieldrin were below detection limits in sediments from all seven transects (Table 2).

Total DDT and derivative compounds ranged from below the detection limit of 5 ug/Kg-dry in sediments from Transect B to 14.5 ug/Kg – dry in sediments from Transect A (Figure 6, Table 2). Although sediments from all transects, except Transect B, exceeded the ERL, all concentrations were substantially less than the 81 ug/Kg – dry measured in CL-1 TOP (Table 2). In 1993, the Bay Protection and Toxics Control Program (BPTCP) had conducted surface sampling at a single site in the northwestern arm of Colorado Lagoon and reported DDT compounds at a concentration of 208 ug/Kg – dry (Anderson et al. 1998).

Chlordane is a mixture of many related chemicals, of which about 10 are major components. Some of the major components are alpha-chlordane, gamma-chlordane, B-chlordane, heptachlor, and trans-nonachlor. The Ocean Plan identifies total chlordane as the sum of alpha-chlordane, gamma-chlordane, alpha-chlordene, gamma-chlordene, cis-nonachlor, trans-nonachlor, and oxychlordane. The National Oceanic and Atmospheric Administration's (NOAA) National Status and Trends (NS&T) Program includes only four compounds as representative of chlordane. These include alpha-chlordane, trans-nonachlor, heptachlor and heptachlor epoxide.

The NS&T list is more appropriate for comparison the ERLs and ERM's since the bulk of the data used to develop these reference values would have come the NS&T program. The NS&T list was used to measure chlordane compounds in 2004. During the recent survey the list was extended to include cis-nonachlor, trans-nonachlor, and oxychlordane. This same set of chlordane components was analyzed by the BPTCP in a surface grab sample taken in area CL-1 in 1993.

Alpha- and gamma-chlordane, the two most abundant compounds in technical chlordane, were totaled 105 µg/Kg – dry at CL-1 TOP in 2004 (Figure 7, Table 2). These two compounds were near or below the detection limits in sediments from the other two composite areas, CL-2 TOP and CL-3 TOP. The data from Transects A through G confirm that high sediment concentrations of these two compounds are largely restricted to the northwestern arm. The total concentration of alpha- and gamma-chlordane was 17.1 µg/Kg - dry in sediments from Transect A. Each of these compounds was measured near the detection limit of 5 µg/Kg – dry in the remaining transects.

Heptachlor, heptachlor epoxide, and oxychlordane were below detection limits in sediments from all seven transects. Cis-nonachlor and trans-nonachlor were present in sediments from all transects. Concentrations of cis-nonachlor were between the Method Detection Limit (MDL) of 1 µg/Kg – dry and the Reporting Limit (RL) of 5 µg/Kg – dry. All values were considered to be estimates and assigned a “J” qualification code.

The total chlordane value reported in surface sediments of the northwestern arm by the BPTCP in 1993 (Anderson et al. 1998) was 134.5 µg/Kg – dry. This is directly comparable with the set of compounds included as total chlordane in the seven transects. Concentrations of chlordane in Transects B through C ranged from 8.2 to 20.7 µg/Kg – dry. A slightly higher concentration (28.4 µg/Kg – dry) was measured in Transect A sediments. Although all sediment concentrations still exceed the ERM for total chlordane, concentrations are reduced to 10-20 percent levels reported in the northwestern arm of the Lagoon.

If the three compounds not included in the NS&T list, cis-nonachlor, trans-nonachlor, and oxychlordane, are excluded from the totals, concentrations along most transects would be close to the ERM of 6 µg/Kg – dry. In the case of chlordane, the ER-L and ER-M values, based on only 8 field observations (four of which were from a single site) are considered particularly weak. The “Consensus Probable Effects Concentration” of 17.6 mg/Kg-dry proposed by McDonald et al. (2000) is considered to be a slightly more robust value.

Dieldrin and PCBs were previously reported to be elevated in the northwestern arm of Colorado Lagoon (Anderson et al. 1998, Tetra Tech, 2000, and KLI/Moffat 2004). Neither Dieldrin nor PCBs exceeded detection limits in the seven transects indicating that contamination was limited to the far reaches of the northwestern arm of the Lagoon.

Table 2. Results of the 2006 Surface Sediment Survey and Comparison with the 2004 Vibracore Sediment Survey

	Units	ERL	ERM	6/30/2004	7/1/2004	6/30/2004	TRANSECT COMPOSITES (7/17/2006)						
				CL-1 Top	CL-2 Top	CL-3 Top	A	B	C	D	E	F	G
Conventionals													
Grain Size -Sand	percent						44.8	60.4	48.9	36.6	26.1	25.8	25.8
Silt	percent						50.5	37.0	46.1	56.6	65.6	66.1	66.8
Clay	percent						4.7	2.6	5.0	6.8	8.4	8.1	7.4
Fines (Silt/Clay)	percent						55.2	39.6	51.1	63.4	74	74.2	74.2
TOC	mg/kg (dry)						7.10	2.16	2.42	1.90	2.44	4.05	3.40
Solids, Percent	% (wet)			59	65.4	71.4	39.7	42.8	55.7	58.1	47.1	39.7	43.0
Metals													
Antimony	mg/kg (dry)			1.7	0.77	0.57	2	1.2	0.8	0.5	0.9	0.8	0.7
Arsenic	mg/kg (dry)	8.2	70	7.5	6.1	4.9	8.2	5.0	4.5	4.7	7.6	9.2	7.8
Barium	mg/kg (dry)			342	538	107	141	74	80	88	166	215	179
Beryllium	mg/kg (dry)			0.53	0.49	0.37	0.3	0.2	0.2	0.2	0.4	0.5	0.4
Cadmium	mg/kg (dry)	1.2	9.6	2.1	0.65	0.38	1.1	0.3	0.5	0.3	0.7	1.0	0.8
Chromium	mg/kg (dry)	81	370	34	29	21	32.5	18.6	19	18.6	33.4	43.2	36.6
Cobalt	mg/kg (dry)			6.1	6.0	4.1	7.1	4.6	4.8	4.6	7.8	9.6	8.2
Copper	mg/kg (dry)	34	270	55	27	15	83.4	42.3	43.2	38.0	72.3	93.6	78.0
Lead	mg/kg (dry)	47	218	409	81	40	173.1	66.3	75.8	70.9	126.3	144.7	119.0
Molybdenum	mg/kg (dry)			12	8.7	6.7	6.3	3.6	3.6	2.5	3.5	6.1	5.0
Nickel	mg/kg (dry)	21	51.6	18	14	8.9	20.1	11.9	12.1	11.3	19.9	25.3	21.6
Selenium	mg/kg (dry)			0.53	0.28	0.32	0.8	0.7	0.5	0.4	0.6	0.9	0.9
Silver	mg/kg (dry)	1.0	3.7	1.2	1.7	0.28	0.2	1.6	0.05U	0.1	0.2	0.2	0.2
Thallium	mg/kg (dry)			0.91	0.45	0.36	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Vanadium	mg/kg (dry)			56	53	39.	46	31	31	27	48	64	53
Zinc	mg/kg (dry)	150	410	266	97	46	365	180	169	124	222	275	232

Red highlighting indicates ERM exceedances, Yellow highlighting indicates ERL exceedances.

Table 2. Results of the 2006 Surface Sediment Survey and Comparison with the 2004 Vibracore Sediment Survey (Continued)

				6/30/2004	7/1/2004	6/30/2004	TRANSECT COMPOSITES (7/17/2006)						
Units	ERL	ERM	CL-1 Top	CL-2 Top	CL-3 Top	A	B	C	D	E	F	G	
DDT Compounds													
2,4'-DDD	ug/kg (dry)					5U	5U	5U	5U	5U	5U	5U	
2,4'-DDE	ug/kg (dry)					5U	5U	5U	5U	5U	5U	5U	
2,4'-DDT	ug/kg (dry)					5U	5U	5U	5U	5U	5U	5U	
4,4'-DDD	ug/kg (dry)	2	20	ND (3.4U)	3.5	ND (2.8U)	6.4	5U	5U	5U	5U	5U	
4,4'-DDE	ug/kg (dry)	2.2	27	67	16	4.3	8.2	5U	7.7	6.4	9.3	8.7	11
4,4'-DDT	ug/kg (dry)	1	7	14	ND (12U)	ND (11U)	5U	5U	5U	5U	5U	5U	
Total DDT	ug/kg (dry)	1.58	46.1	81	20	4.3	14.6	0.0	7.7	6.4	9.3	8.7	11.0
Chlordane Compounds													
alpha-Chlordane	ug/kg (dry)			50	ND (3.1U)	ND (2.8U)	8.1	3.5J	6.3	1.5J	3.6J	5.3	3.8J
gamma-Chlordane	ug/kg (dry)			55	3.3	ND (2.8U)	9.1	3.2J	5.7J	2.7J	4.6J	5.4	4.1J
Oxychlordane	ug/kg (dry)						5U	5U	5U	5U	5U	5U	5U
Cis-nonachlor	ug/kg (dry)						3.7J	1.5J	3.5J	1.8J	2.2J	3.3J	2.9J
Trans-nonachlor	ug/kg (dry)						7.5	3.3J	5.2	2.2J	3.0J	4.5J	3.5J
Heptachlor	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Heptachlor epoxide	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Total Chlordane	ug/kg (dry)	0.5	6.0	105	3.30	ND (2.8U)	28.4	11.5	20.7	8.2	13.4	18.5	14.3
Other OC Pesticides													
Aldrin	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
alpha-BHC	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	12.8	5U	5U	5U	5U
beta-BHC	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
delta-BHC	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
gamma-BHC	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Dieldrin	ug/kg (dry)	0.02	8	27	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Endosulfan I	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Endosulfan II	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Endosulfan sulfate	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Endrin	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Endrin aldehyde	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Endrin ketone	ug/kg (dry)			ND (3.4U)	ND (3.1U)	ND (2.8U)	5U	5U	5U	5U	5U	5U	5U
Kepone	ug/kg (dry)			ND (17U)	ND (15U)	ND (14U)							
Methoxychlor	ug/kg (dry)			ND (6.8U)	ND (6.1U)	ND (5.6U)	5U	5U	5U	5U	5U	5U	5U
Mirex	ug/kg (dry)			ND (17U)	ND (15U)	ND (14U)	5U	5U	5U	5U	5U	5U	5U
Toxaphene	ug/kg (dry)			ND (34U)	ND (31U)	ND (28U)	50U	50U	50U	50U	50U	50U	50U

Red highlighting indicates ERM exceedances, Yellow highlighting indicates ERL exceedances.

1. Total Chlordane including cis-nonachlor, trans-nonachlor, and oxychlordane equaled 134.5 ug/Kg-dry.
2. Total DDT including 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT equaled 208 ug/Kg-dry.

Table 2. Results of the 2006 Surface Sediment Survey and Comparison with the 2004 Vibracore Sediment Survey (Continued)

	Units	ERL	ERM	6/30/2004	7/1/2004	6/30/2004	TRANSECT COMPOSITES (7/17/2006)						
				CL-1 Top	CL-2 Top	CL-3 Top	A	B	C	D	E	F	G
PCBs													
Aroclor 1016	ug/kg (dry)	23	180	ND (34 U)	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U
Aroclor 1221	ug/kg (dry)	23	180	ND (34 U)	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U
Aroclor 1232	ug/kg (dry)	23	180	ND (34 U)	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U
Aroclor 1242	ug/kg (dry)	23	180	ND (34 U)	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U
Aroclor 1248	ug/kg (dry)	23	180	ND (34 U)	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U
Aroclor 1254	ug/kg (dry)	23	180	ND (34 U)	ND (31U)	ND (28U)	20U	20U	20U	20U	10	20U	20U
Aroclor 1260	ug/kg (dry)	23	180	98	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U
Total PCBs	ug/kg (dry)	22.7	180	98	ND (31U)	ND (28U)	20U	20U	20U	20U	20U	20U	20U

Red highlighting indicates ERM exceedances, Yellow highlighting indicates ERL exceedances.

Table 3. Summary of Lead WET Test Results ($\mu\text{g/L}$) Conducted on Composite Samples from Transects.

VIBRACORE COMPOSITE (6/30/2004) CL1-TOP	TRANSECT COMPOSITES (7/17/2006)							STLC LIMIT
	A	B	C	D	E	F	G	
11000	4400	- ¹	-	-	5000	4700	4100	5000

1. Dashes indicate that concentrations of lead in the bulk sediment did not exceed 50 mg/Kg wet and thus did not require a WET test.

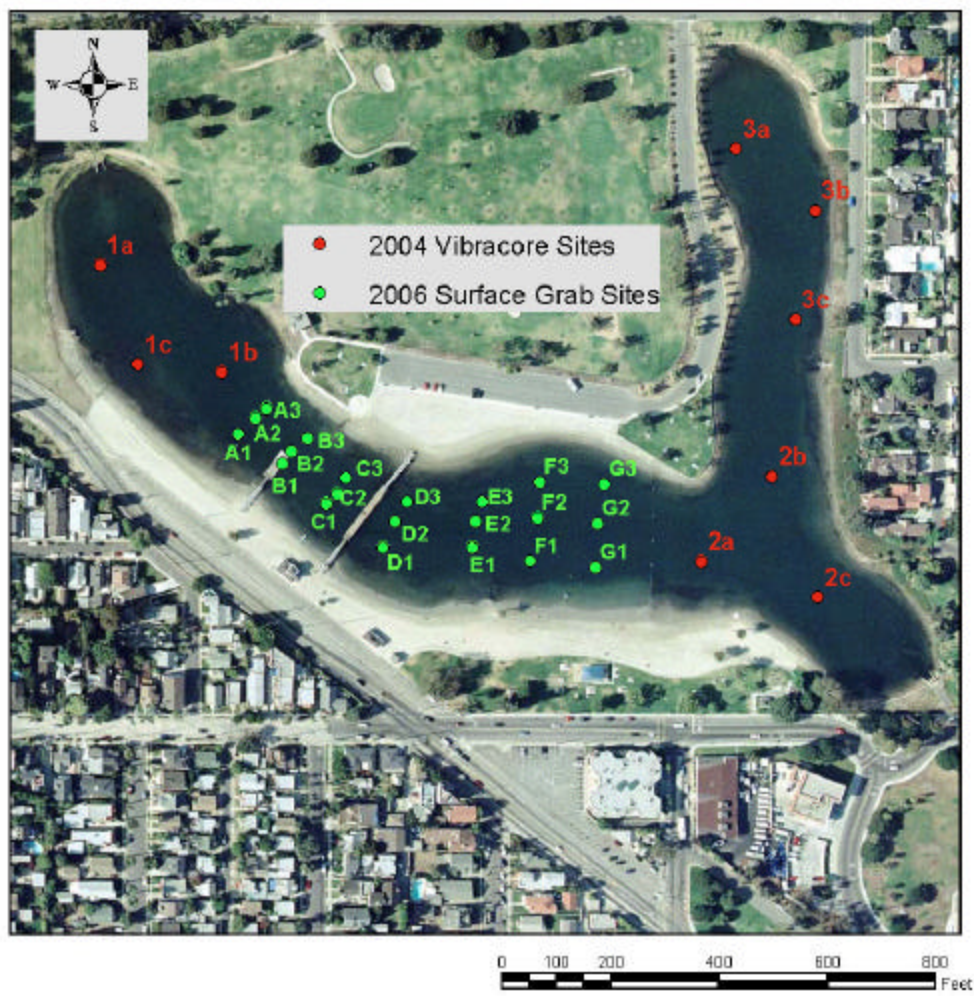


Figure 2. Locations of 2004 Vibracore Sampling Sites and the Current 2006 Surface Grab Sampling Sites in Colorado Lagoon.

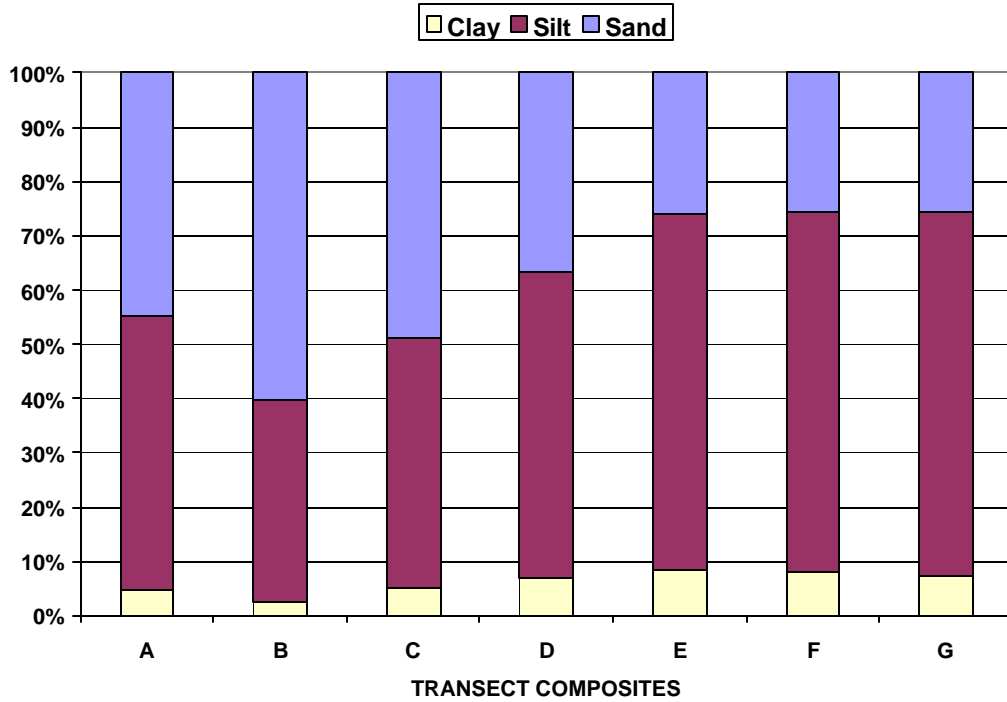


Figure 3. Particle Size Composition of Sediments from each Transect

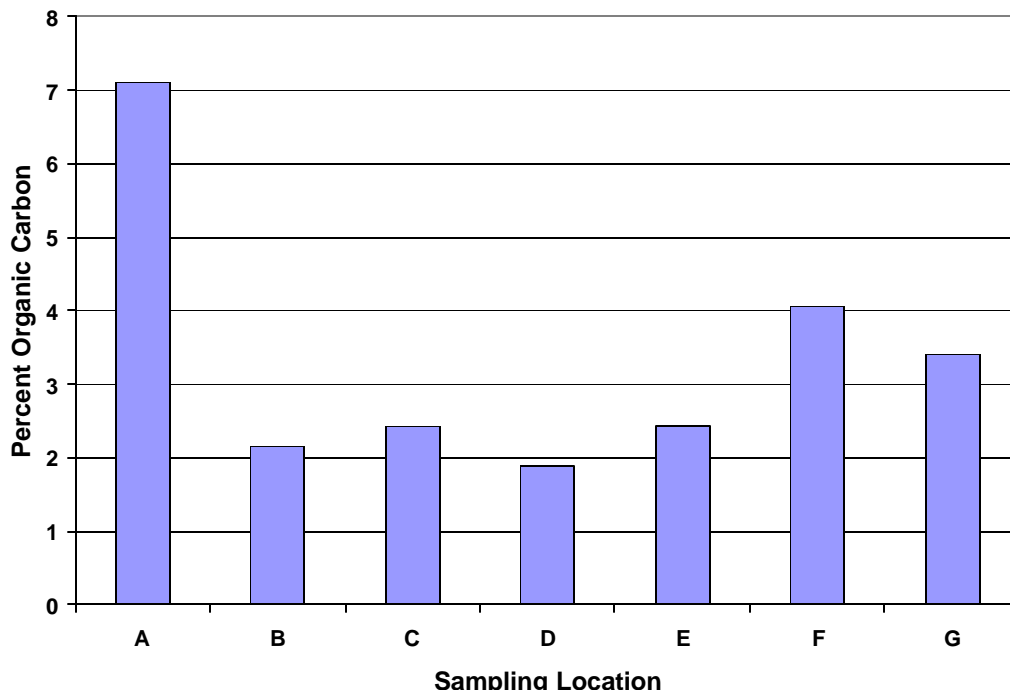


Figure 4. Percent Organic Carbon (TOC) measured in Sediments from each Transect.

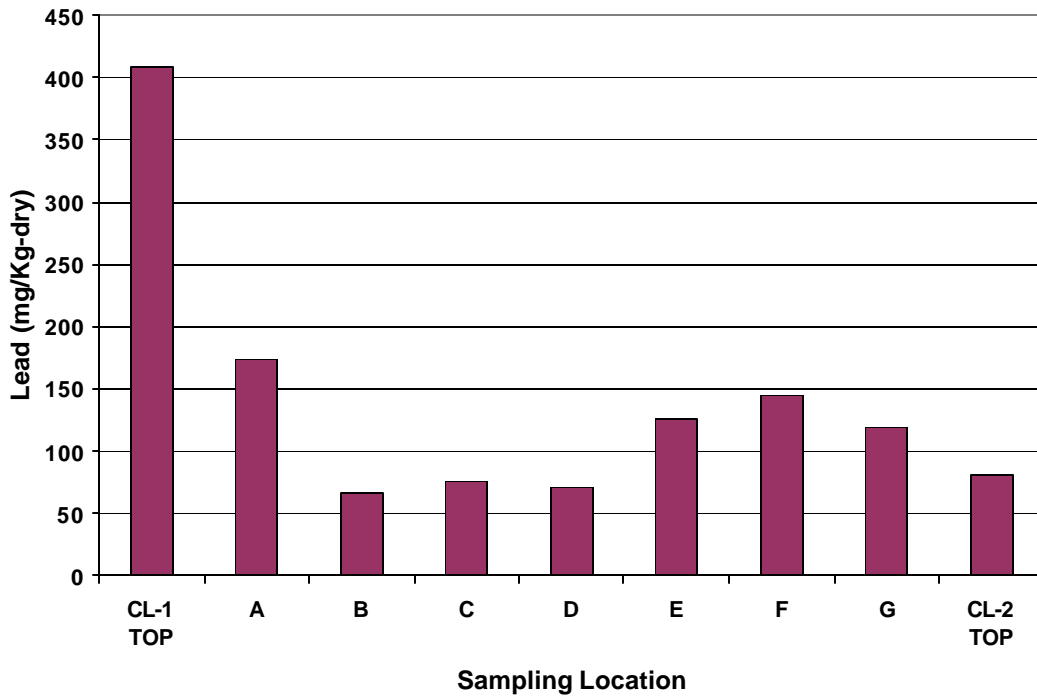


Figure 5. Comparison of Lead Concentrations Measured in Transects A to G with Previous Composite Samples from the Northwest Arm (CL-1 TOP) and the Central Colorado Lagoon near the Tide Gate (CL-2 TOP).

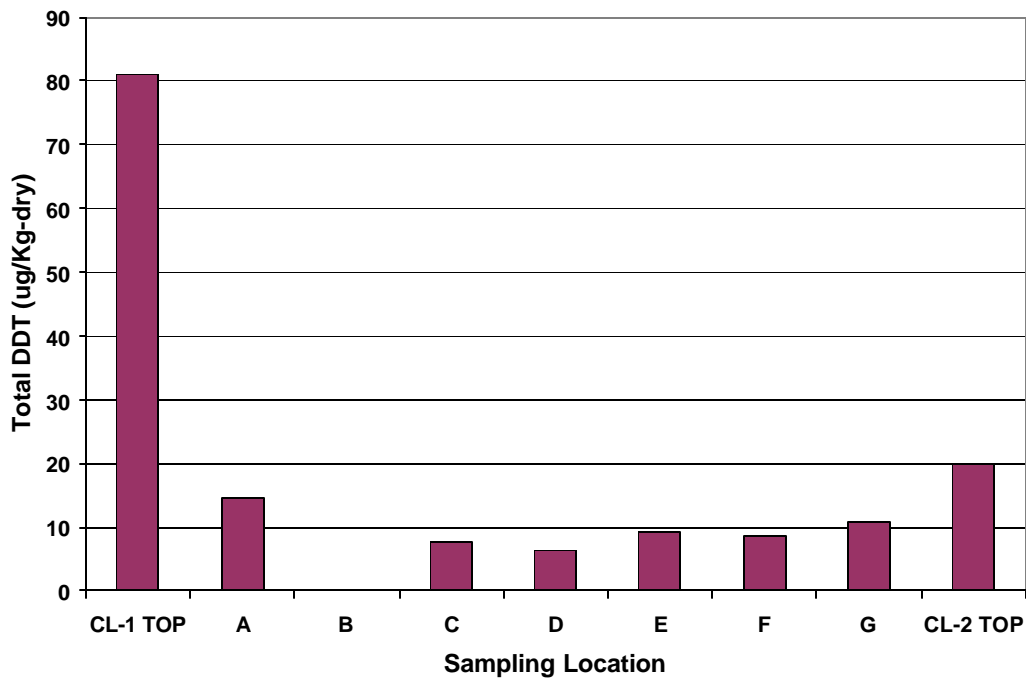


Figure 6. Comparison of DDT Concentrations Measured in Transects A to G with Previous Composite Samples from the Northwest Arm (CL-1 TOP) and the Central Colorado Lagoon near the Tide Gate (CL-2 TOP).

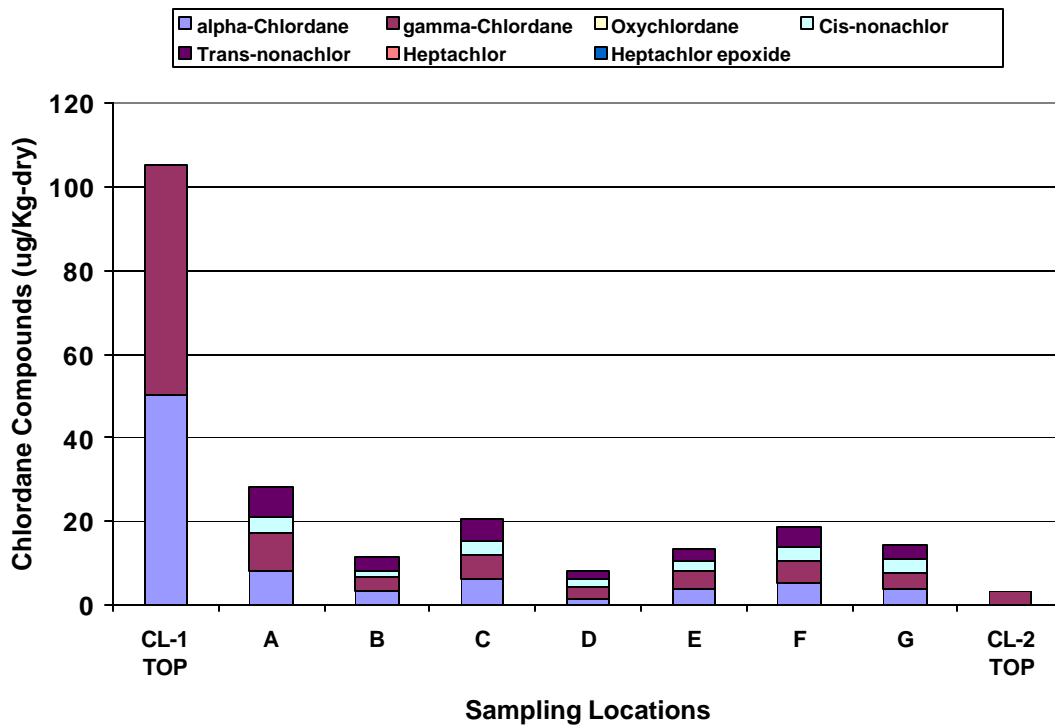


Figure 7. Comparison of Chlordane Concentrations Measured in Transects A to G with Previous Composite Samples from the Northwest Arm (CL-1 TOP) and the Central Colorado Lagoon near the Tide Gate (CL-2 TOP).

4.0 CONCLUSIONS AND RECOMMENDATIONS

This survey focused on detailing the spatial distribution of primary contaminants of concern (COCs) along a linear gradient between previously sampled areas in the northwestern arm of Colorado Lagoon (Area CL-1) and the central portion of the Lagoon (Area CL-2) located near the tide gate that controls water exchange with Marine Stadium. The region characterized corresponds to the swimming area which is delineated by float lines. This study was designed to assist in determining an appropriate southeastern boundary for excavation of contaminated sediments in Area CL-1. The initial habitat restoration plans were based upon the expectation that the pedestrian bridge would provide a reasonable boundary. The pedestrian bridge was located between Transects C and D.

COCs identified in the lagoon are lead and the three groups of organochlorine pesticides (DDT compounds, chlordane and dieldrin). All of these compounds are not only present in the sediments but have been reported at high levels in tissues of in resident bivalves. The organochlorine pesticides are not only persistent but will bioaccumulate and biomagnify in biota.

Among the seven transects, concentrations of all COCs were highest in Transect A although concentrations were still substantially lower than those previously reported in both surface grabs and vibracore composite samples of the sediment profiles. Concentrations of most COCs in Transect B were lowest but sediment samples from this site also had the highest sand content. Contaminants in Transects C through G varied mostly in response to changes in the levels of the percentage of fine particles in the sediment and organic content. With the exception of chlordane, none of the COCs exceeded ERM values.

Based upon these results, we conclude that the pedestrian bridge located between Transects C and D provides a reasonable and conservative boundary for excavation of the contaminated sediments in the northwestern arm of the Lagoon. Extending this boundary further to the southeast would not result in any substantial improvements in sediment quality.

5.0 REFERENCES

- Anderson, Hunt, Phillips, Newman, Tjeerdema, Wilson, Kapahi, Sapudar, Stephenson, Puckett, Fairey, Oakden, Lyons, and Birosik. 1998. Sediment Chemistry, Toxicity, and Benthic Community Conditions in Selected Water Bodies of the Los Angeles Region, Final Report.
- Kinnetic Laboratories, Inc/Moffat & Nichol. 2004. Colorado Lagoon: Sediment Testing and Material Disposal Report. KLI.CL-01
- Long, E.R., D.D. MacDonald, S.I. Smith, and F.D. Calder, 1995. Incidence of Adverse Biological Effects Within the Ranges of Chemical Concentrations in Marine and Estuarine Sediments. Environmental Management, Vol. 19:81-97.
- MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Arch. Environ. Contam. Toxicol. 39: 20-31.
- Tetra Tech, EMI. 2000. Unpublished surficial sediment data from the two sites in Colorado Lagoon.

APPENDIX A
Field Logs

PROJECT

Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
OCEANOGRAPHIC RESEARCH
SANTA CRUZ, CA
408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: A
DATE: 17 July 2000
WEATHER: partly cloudy
WIND/SEAS:

VESSEL: Boat
CREW: [unclear]
SAMPLING EQUIPMENT: Grab pole
NAVIGATION TYPE & DATUM:

TIME:
COORDINATES:
COORDINATES:
WATER DEPTH:
TIDAL STAGE:
MUDLINE DEPTH (MLLW):
TARGET SAMPLING DEPTH:
SAMPLE LENGTH NEEDED:
PENETRATION/RECOVERY:
CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
Grab 1 South	1005	
	33° 46.282'	3.2' deep
	118° 08.130'	
Grab 2 Mid	1015	9.0' deep
	33° 46.255'	
	118° 08.123'	

SAMPLE ID. #	ANALYSIS	QUANTITY

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
Grab 3 North	1018	8.1' deep
	35° 46.290'	
	118° 08.200'	

COMMENTS:

Bl sand in sample

PROJECT

Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
OCEANOGRAPHIC RESEARCH
SANTA CRUZ, CA
408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: B
DATE: 17 July 02
WEATHER: S-11
WIND/SEAS: 5-97-4/-

VESSEL: 70' Boat
CREW: 51 5/3 57
SAMPLING EQUIPMENT:
NAVIGATION TYPE & DATUM:

TIME:
COORDINATES:
COORDINATES:
WATER DEPTH:
TIDAL STAGE:
MUDLINE DEPTH (MLLW):
TARGET SAMPLING DEPTH:
SAMPLE LENGTH NEEDED:
PENETRATION/RECOVERY:
CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
6001 North 6' deep	33° 16.275'	118° 23.100' 1737
6002 N. d. 9.5' deep	33° 46.277'	118° 23.100' 1733
6003 North 5' deep	33° 46.277'	118° 23.100'

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

PROJECT
Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
 OCEANOGRAPHIC RESEARCH
 SANTA CRUZ, CA
 408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: 2
DATE: 27 July 2006
WEATHER: 2-4
WIND/SEAS: -1-

VESSEL: Tuna Boat
CREW: 55 JTB JT
SAMPLING EQUIPMENT:
NAVIGATION TYPE & DATUM:

TIME:
COORDINATES:
COORDINATES:
WATER DEPTH:
TIDAL STAGE:
MUDLINE DEPTH (MLLW):
TARGET SAMPLING DEPTH:
SAMPLE LENGTH NEEDED:
PENETRATION/RECOVERY:
CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
Grab 1 South	10:47	
33° 46.261'		
118° 08.003'	8.0' deep	
Grab 2 North		
33° 46.260'		
118° 08.094'	7.5' deep	

SAMPLE ID. #	ANALYSIS	QUANTITY

Grab 3 North	10:52	
33° 46.269'		
118° 08.091'	3.3' deep	

COMMENTS:

PROJECT

Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
OCEANOGRAPHIC RESEARCH
SANTA CRUZ, CA
408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: D
DATE: 17 July 06
WEATHER:
WIND/SEAS:

VESSEL: 30m Boat
CREW: SJ, JB, ST
SAMPLING EQUIPMENT:
NAVIGATION TYPE & DATUM:

TIME:
COORDINATES:
COORDINATES:
WATER DEPTH:
TIDAL STAGE:
MUDLINE DEPTH (MLLW):
TARGET SAMPLING DEPTH:
SAMPLE LENGTH NEEDED:
PENETRATION/RECOVERY:
CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
Grab 1 South	1102	
33° 46.248		8.0' deep
118 08.077		
Grab 2 Mid	1105	
33° 46.256'		11.0' deep
118° 08.076'		

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

Grab 3 North	1107	
33° 46.260'		5.5' deep
118° 08.069'		

PROJECT

Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
OCEANOGRAPHIC RESEARCH
SANTA CRUZ, CA
408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: <i>E</i>		VESSEL: <i>L. Boat</i>	
DATE: <i>17 July 06</i>		CREW:	
WEATHER: <i>clear</i>		SAMPLING EQUIPMENT: <i>Pover</i>	
WIND/SEAS: <i>SW 2-4 mph / -</i>		NAVIGATION TYPE & DATUM:	
TIME:	DESCRIPTION OF MATERIAL		DEPTH
COORDINATES:	MUDLINE		
COORDINATES:			
WATER DEPTH:			
TIDAL STAGE:			
MUDLINE DEPTH (MLLW):			
TARGET SAMPLING DEPTH:			
SAMPLE LENGTH NEEDED:			
PENETRATION/RECOVERY:			
CORE INTERVAL SAMPLED:			
SAMPLE ID. #	ANALYSIS	QUANTITY	
COMMENTS:			
<i>Blind Rop Called H</i>			
		<i>Grab 1 South 11:21</i>	
		<i>33° 46.248'</i>	<i>14.9' deep</i>
		<i>118° 08.045'</i>	
		<i>Grab 2 N.d 11:26</i>	
		<i>33° 46.256'</i>	<i>5.3' deep</i>
		<i>118° 08.046'</i>	
		<i>Grab 3 North 11:29</i>	
		<i>33° 46.262'</i>	<i>12.2' deep</i>
		<i>118° 08.041'</i>	

PROJECT
Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
 OCEANOGRAPHIC RESEARCH
 SANTA CRUZ, CA
 408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: F
DATE: 17 July 06
WEATHER: clear
WIND/SEAS: SW 2-4/-

VESSEL: *Samuel*
CREW:
SAMPLING EQUIPMENT: Ponar
NAVIGATION TYPE & DATUM:

TIME:
COORDINATES:
COORDINATES:
WATER DEPTH:
TIDAL STAGE:
MUDLINE DEPTH (MLLW):
TARGET SAMPLING DEPTH:
SAMPLE LENGTH NEEDED:
PENETRATION/RECOVERY:
CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
Grab 1 South	1140	
33° 46.244'		12.0' deep
118° 08.024'		
Grab 2 Mid	1145	
33° 46.757'		13.6' deep
118° 08.021'		

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

Grab 3 North	1150	
33° 46.269'		14.2' deep
118° 08.023'		

PROJECT
Colorado Lagoon Delineation Sampling
Chambers Group & City of Long Beach

KINNETIC LABORATORIES INC.
 OCEANOGRAPHIC RESEARCH
 SANTA CRUZ, CA
 408-457-3950

SEDIMENT SAMPLING LOG SHEET

SITE ID: G
DATE: 17 July 06
WEATHER: Partly
WIND/SEAS: 5-10/-

VESSEL: Ocean Survey
CREW: J. J. J.
SAMPLING EQUIPMENT:
NAVIGATION TYPE & DATUM:

TIME:
COORDINATES:
COORDINATES:
WATER DEPTH:
TIDAL STAGE:
MUDLINE DEPTH (MLLW):
TARGET SAMPLING DEPTH:
SAMPLE LENGTH NEEDED:
PENETRATION/RECOVERY:
CORE INTERVAL SAMPLED:

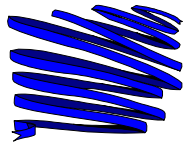
DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
Grain 1 mnd	1.56	
33° 46.242	113' keep	
118° 07.000		
Grain 2 mnd	2.03	
33° 46.190	113' keep	
118° 07.999		

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

Grain 1 mnd 1.56
 33° 46.242 113' keep
 118° 07.000
 Grain 2 mnd 2.03
 33° 46.190 113' keep
 118° 07.999

APPENDIX B
Sediment Quality Data
Analytical Chemistry Reports



CRG Marine Laboratories, Inc.

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

August 12, 2006

Kinnetic Laboratories, Inc.
307 Washington St.
Santa Cruz, CA 95060

Re: CRG Marine Laboratories
Kinnetic Laboratories, Inc.

Project ID: P26160
Project ID: Colorado Lagoon

ATTN: Amy Howk

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your Colorado Lagoon project. According to the chain-of-custody, 8 samples were received intact at CRG on 7/17/2006. Per your instructions, the samples were analyzed for:

- Percent Solids Using Method EPA 160.3
- Trace Metals By ICPMS Using Method EPA 6020m
- Acid Extractable Compounds By GCMS Using Method EPA 8270Cm
- Aroclor PCBs By GCMS Using Method EPA 8270Cm
- PCB Congeners By GCMS Using Method EPA 8270Cm
- Chlorinated Pesticides By GCMS Using Method EPA 8270Cm

The following analysis were subcontracted to other laboratories, results are included:

- Grain Size
- TOC(Total Organic Carbon)

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Misty Mercier

Reviewed and Approved _____

CRG's QUALITY ASSURANCE PROGRAM SUMMARY

BATCH: CRG's Quality Assurance Program Document defines a batch as a group of 20 or fewer samples of similar matrix, processed together under the same conditions and with the same reagents. Quality control samples are associated with each batch and are used to assess the validity of the sample analyses. CRG typically uses batch sizes of 10-15 samples.

PROCEDURAL BLANKS: Laboratory contamination was controlled through the analysis of procedural blanks on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that all procedural blanks be below 10 times the MDL and all detectable constituents in the blanks be flagged in the sample results. The Procedural Blanks are presented in the Procedural Blank section of this report.

ACCURACY: Accuracy of the project data was indicated by analysis of matrix spikes, surrogate spikes, certified reference materials, and/or laboratory control materials on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits. The Acceptance Ranges are presented in the Accuracy Data section of this report.

PRECISION: Precision of the project data was determined by analysis of duplicate matrix spikes, blank spikes, and/or duplicate test sample analysis on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that for 95% of the compounds >10 times the MDL, the % Relative Percent Difference (%RPD) should be within the specified acceptance range. The %RPD for the duplicate test sample analysis can be significantly affected by the homogeneity of the sample matrix within the sample container itself causing additional variability in the analytical results. In these cases, the QA/QC Acceptance Limits may be exceeded. The %RPD and Acceptance Ranges are presented in the Precision Data section of this report.

GLOSSARY OF TERMS

<u>Qualifier</u>	<u>Definition</u>
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeds the calibration range
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
M1	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference.
M2	The MS/MSD RPD was out of control due to matrix interference.
M3	Detection of the analyte was difficult due to matrix interference.
M4	Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.
ND or U	Parameter not detected at the indicated reporting limit.
NES	Not enough sample.
Q1	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.
Q2	The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.
R	Analyte was removed by the sample preparation/extraction procedure as seen by the MS/MSD recoveries. RPD acceptance ranges do not apply.

Qualifier Summary for P26160

Chlorinated Pesticides

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
41539-MS2	Colorado2006-H	M1	Dieldrin
41539-MS1	Colorado2006-H	M1	Dieldrin
41539-R1	Colorado2006-H	M3	Dieldrin
41539-R2	Colorado2006-H	M3	Dieldrin
41539-MS1	Colorado2006-H	M1	Endosulfan-II
41539-MS2	Colorado2006-H	M1	Endosulfan-II
41539-R2	Colorado2006-H	M3	Endosulfan-II
41539-R1	Colorado2006-H	M3	Endosulfan-II
41539-MS2	Colorado2006-H	M1	Endrin
41539-MS1	Colorado2006-H	M1	Endrin
41539-R2	Colorado2006-H	M3	Endrin
41539-R1	Colorado2006-H	M3	Endrin
41539-MS2	Colorado2006-H	M1	Endrin Ketone
41539-MS1	Colorado2006-H	M1	Endrin Ketone
41539-R2	Colorado2006-H	M3	Endrin Ketone
41539-R1	Colorado2006-H	M3	Endrin Ketone

DATA REPORT

TRACE METAL RESULTS

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Colorado2006-A	A	Date Sampled: 17-Jul-06	10:18
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06	
DILUTION FACTOR: 1	Matrix: Sediment			

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	13280	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	8.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	143.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	1.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	31.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	7.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	83.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	22770	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	168.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	195.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	5.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	19.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	59.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	6.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	1063	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	46	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	361.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Description: Colorado2006-A A	Date Sampled: 17-Jul-06 10:18
Replicate #: R2	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	13610	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	8.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	137.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	1.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	33.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	7.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	83.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	22410	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	177.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	202.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	6.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	20.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	59.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	6.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	1041	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	46.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	368.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R2

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41533	Sample Colorado2006-B	B	Date Sampled: 17-Jul-06	10:38
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06	
DILUTION FACTOR: 1	Matrix: Sediment			

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	9197	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	4.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	79.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	0.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	19	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	4.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	43.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	15920	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	75.78	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	146.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	3.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	12.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	37.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	2.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	735.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	31.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	168.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534	Sample Description: Colorado2006-C C	Date Sampled: 17-Jul-06 10:52
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	9197	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	4.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	79.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	0.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	19	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	4.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	43.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	15920	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	75.78	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	146.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	3.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	12.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	37.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	2.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	735.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	31.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	168.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535	Sample Description: Colorado2006-D D	Date Sampled: 17-Jul-06 11:07
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	8809	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	4.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	88.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	0.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	18.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	4.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	38	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	15830	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	70.87	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	142.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	2.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	11.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	33.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	2.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	699	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	27.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	123.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536	Sample Description: Colorado2006-E E	Date Sampled: 17-Jul-06 11:29
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	15860	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	7.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	165.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	0.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	33.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	7.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	72.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	26560	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	126.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	232.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	3.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	19.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	57.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	4.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	1170	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	48	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	221.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41537	Sample: Colorado2006-F	F	Date Sampled: 17-Jul-06	11:49
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06	
DILUTION FACTOR: 1	Matrix: Sediment			

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	21790	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	9.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	215	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	43.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	9.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	93.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	34000	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	144.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	289.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	6.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	25.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	72.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	5.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	1514	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	63.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	274.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41538	Sample Colorado2006-G	G	Date Sampled: 17-Jul-06	12:06
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06	
DILUTION FACTOR: 1	Matrix: Sediment			

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	18350	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	7.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	178.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	0.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	36.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	8.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	78	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	28770	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	119	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	251.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	21.6	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	71.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	4.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	1312	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	53.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	232.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	15760	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	0.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	7.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	159.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	0.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	0.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	32.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	7.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	69.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	26070	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	118.1	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	228	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	3.7	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	19.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	0.8	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	0.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	54.5	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	0.2	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	4.4	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	1184	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	47.3	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	219.9	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

AROCLOR-BASED PCB RESULTS

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41532

Sample Colorado2006-A A

Date Sampled: 17-Jul-06 10:18

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

41532 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41533

Sample Colorado2006-B B

Date Sampled: 17-Jul-06 10:38

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41534 **Sample:** Colorado2006-C C **Date Sampled:** 17-Jul-06 10:52
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41535

Sample Colorado2006-D D

Date Sampled: 17-Jul-06 11:07

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536

Sample Colorado2006-E E

Date Sampled: 17-Jul-06 11:29

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	J 10	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41537

Sample Colorado2006-F F

Date Sampled: 17-Jul-06 11:49

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41538

Sample Colorado2006-G G

Date Sampled: 17-Jul-06 12:06

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41539

Sample Colorado2006-H H

Date Sampled: 17-Jul-06 12:25

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	J 17.2	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41539

Sample Colorado2006-H H

Date Sampled: 17-Jul-06 12:25

Replicate #: R2

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R2

**ACID EXTRACTABLE COMPOUND
RESULTS**

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532

Sample Colorado2006-A A

Date Sampled: 17-Jul-06 10:18

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	44	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	68	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41533	Sample Description: Colorado2006-B B	Date Sampled: 17-Jul-06 10:38
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	39	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	62	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	398	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534	Sample Description: Colorado2006-C C	Date Sampled: 17-Jul-06 10:52
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	100	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	58	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	236	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535	Sample Description: Colorado2006-D D	Date Sampled: 17-Jul-06 11:07
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	37	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	63	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	234	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536	Sample Description: Colorado2006-E	E	Date Sampled: 17-Jul-06 11:29
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment		

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	87	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	88	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	503	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41537	Sample Colorado2006-F	F	Date Sampled: 17-Jul-06 11:49
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment		

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	25	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	58	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41538	Sample Colorado2006-G	G	Date Sampled: 17-Jul-06 12:06
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment		

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	53	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	80	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	290	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539

Sample Colorado2006-H H

Date Sampled: 17-Jul-06 12:25

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	21	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	50	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R2	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	32	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	58	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R2

CHLORINATED PESTICIDE RESULTS

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Description: Colorado2006-A A	Date Sampled: 17-Jul-06 10:18
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	79	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	83	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	89	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	84	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	6.4	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	8.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	8.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	9.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 3.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Description: Colorado2006-A A	Date Sampled: 17-Jul-06 10:18
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	28.4	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	14.6	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	7.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41533	Sample Colorado2006-B	B	Date Sampled: 17-Jul-06 10:38
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment		

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	76	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	78	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	80	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	79	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	J 3.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	J 3.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 1.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41533

Sample Colorado2006-B B

Date Sampled: 17-Jul-06 10:38

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	11.5	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	J 3.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534	Sample Description: Colorado2006-C C	Date Sampled: 17-Jul-06 10:52
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	70	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	70	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	71	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	72	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	7.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	12.8	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	6.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	5.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 3.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534	Sample Description: Colorado2006-C C	Date Sampled: 17-Jul-06 10:52
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	20.7	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	7.7	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	5.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535	Sample Description: Colorado2006-D D	Date Sampled: 17-Jul-06 11:07
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	85	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	91	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	96	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	89	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	6.4	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	J 1.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	J 2.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 1.8	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535	Sample Description: Colorado2006-D D	Date Sampled: 17-Jul-06 11:07
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	8.2	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	6.4	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	J 2.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536	Sample Description: Colorado2006-E E	Date Sampled: 17-Jul-06 11:29
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	94	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	92	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	95	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	97	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4'-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4'-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4'-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4'-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4'-DDE	Total	EPA 8270Cm	9.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4'-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	J 3.6	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	J 4.6	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 2.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41536 **Sample** Colorado2006-E E **Date Sampled:** 17-Jul-06 11:29
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	13.4	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	9.3	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	J 3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41537	Sample Description: Colorado2006-F F	Date Sampled: 17-Jul-06 11:49
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	99	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	99	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	93	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	96	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	8.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	5.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	5.4	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 3.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41537 **Sample** Colorado2006-F F **Date Sampled:** 17-Jul-06 11:49
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	18.5	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	8.7	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	J 4.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41538	Sample Description: Colorado2006-G G	Date Sampled: 17-Jul-06 12:06
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	99	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	94	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	92	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	96	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	11	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	J 3.8	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	J 4.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	J 2.9	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41538 **Sample** Colorado2006-G G **Date Sampled:** 17-Jul-06 12:06
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	14.3	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	11	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	J 3.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample: Colorado2006-H	H	Date Sampled: 17-Jul-06 12:25
Replicate #: R1	Description: Colorado Lagoon		Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment		

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID	QUALIFIER
(PCB030)	Total	EPA 8270Cm	97	% Recover			26-Jul-06	04-Aug-06	26160-18112	
(PCB112)	Total	EPA 8270Cm	96	% Recover			26-Jul-06	04-Aug-06	26160-18112	
(PCB198)	Total	EPA 8270Cm	97	% Recover			26-Jul-06	04-Aug-06	26160-18112	
(TCMX)	Total	EPA 8270Cm	94	% Recover			26-Jul-06	04-Aug-06	26160-18112	
2,4'-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
2,4'-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
2,4'-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
4,4'-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
4,4'-DDE	Total	EPA 8270Cm	9.4	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
4,4'-DDT	Total	EPA 8270Cm	J 3.9	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Chlordane-alpha	Total	EPA 8270Cm	5.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Chlordane-gamma	Total	EPA 8270Cm	6.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
cis-Nonachlor	Total	EPA 8270Cm	8.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: Kinnetic Laboratories, Inc.

CRG Project ID: 26160

CRG ID#: 41539 **Sample** Colorado2006-H H **Date Sampled:** 17-Jul-06 12:25
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID	QUALIFIER
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Total Chlordane	Total	EPA 8270Cm	25.2	ng/L			26-Jul-06	04-Aug-06	26160-18112	
Total Detectable DDTs	Total	EPA 8270Cm	13.3	ng/L			26-Jul-06	04-Aug-06	26160-18112	
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112	
trans-Nonachlor	Total	EPA 8270Cm	5.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample: Colorado2006-H	H	Date Sampled: 17-Jul-06 12:25
Replicate #: R2	Description: Colorado Lagoon		Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment		

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID	QUALIFIER
(PCB030)	Total	EPA 8270Cm	89	% Recover			26-Jul-06	04-Aug-06	26160-18112	
(PCB112)	Total	EPA 8270Cm	92	% Recover			26-Jul-06	04-Aug-06	26160-18112	
(PCB198)	Total	EPA 8270Cm	94	% Recover			26-Jul-06	04-Aug-06	26160-18112	
(TCMX)	Total	EPA 8270Cm	90	% Recover			26-Jul-06	04-Aug-06	26160-18112	
2,4'-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
2,4'-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
2,4'-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
4,4'-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
4,4'-DDE	Total	EPA 8270Cm	8.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
4,4'-DDT	Total	EPA 8270Cm	J 3.4	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Chlordane-alpha	Total	EPA 8270Cm	J 4.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Chlordane-gamma	Total	EPA 8270Cm	J 4.6	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
cis-Nonachlor	Total	EPA 8270Cm	5.3	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	M3

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R2

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R2	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID	QUALIFIER
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	
Total Chlordane	Total	EPA 8270Cm	17.8	ng/L			26-Jul-06	04-Aug-06	26160-18112	
Total Detectable DDTs	Total	EPA 8270Cm	11.7	ng/L			26-Jul-06	04-Aug-06	26160-18112	
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112	
trans-Nonachlor	Total	EPA 8270Cm	J 3.8	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R2

CONGENER-BASED PCB RESULTS

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Description: Colorado2006-A A	Date Sampled: 17-Jul-06 10:18
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Description: Colorado2006-A A	Date Sampled: 17-Jul-06 10:18
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41533	Sample Description: Colorado2006-B B	Date Sampled: 17-Jul-06 10:38
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41533	Sample Description: Colorado2006-B B	Date Sampled: 17-Jul-06 10:38
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534	Sample Description: Colorado2006-C C	Date Sampled: 17-Jul-06 10:52
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534	Sample Description: Colorado2006-C C	Date Sampled: 17-Jul-06 10:52
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535	Sample Description: Colorado2006-D D	Date Sampled: 17-Jul-06 11:07
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535	Sample Description: Colorado2006-D D	Date Sampled: 17-Jul-06 11:07
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536	Sample Description: Colorado2006-E E	Date Sampled: 17-Jul-06 11:29
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	J 1.9	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	J 1.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	J 1.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536	Sample Description: Colorado2006-E E	Date Sampled: 17-Jul-06 11:29
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	J 1.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	J 1.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	J 1.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	8.8	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41537	Sample Description: Colorado2006-F F	Date Sampled: 17-Jul-06 11:49
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41537	Sample Description: Colorado2006-F F	Date Sampled: 17-Jul-06 11:49
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41538	Sample Description: Colorado2006-G G	Date Sampled: 17-Jul-06 12:06
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	J 1.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	J 2.5	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41538	Sample Description: Colorado2006-G G	Date Sampled: 17-Jul-06 12:06
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	J 1.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	5.9	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	J 1.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	J 2.7	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	J 2.1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R1	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	6	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R2	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	J 1.2	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	J 1	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R2

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H	Date Sampled: 17-Jul-06 12:25
Replicate #: R2	Description: Colorado Lagoon	Date Received: 17-Jul-06
DILUTION FACTOR: 1	Matrix: Sediment	

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	J 1.9	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	4.1	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R2

GENERAL CHEMISTRY RESULTS

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532

Sample Colorado2006-A A

Date Sampled: 17-Jul-06 10:18

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	39.7	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41532 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41533

Sample Colorado2006-B B

Date Sampled: 17-Jul-06 10:38

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	42.8	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41533 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41534 **Sample** Colorado2006-C C **Date Sampled:** 17-Jul-06 10:52
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	55.7	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41534 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41535 **Sample** Colorado2006-D D **Date Sampled:** 17-Jul-06 11:07
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	58.1	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41535 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41536 **Sample** Colorado2006-E E **Date Sampled:** 17-Jul-06 11:29
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	47.1	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41536 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41537

Sample Colorado2006-F F

Date Sampled: 17-Jul-06 11:49

Replicate #: R1

Description: Colorado Lagoon

Date Received: 17-Jul-06

DILUTION FACTOR: 1

Matrix: Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	39.7	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41537 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41538 **Sample** Colorado2006-G G **Date Sampled:** 17-Jul-06 12:06
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	43	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41538 R1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample** Colorado2006-H H **Date Sampled:** 17-Jul-06 12:25
Replicate #: R1 **Description:** Colorado Lagoon **Date Received:** 17-Jul-06
DILUTION FACTOR: 1 **Matrix:** Sediment

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	48	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41539 R1

QUALITY CONTROL REPORT

**PROCEDURAL BLANK
RESULTS**

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample Description: QAQC
Colorado Lagoon

Procedural Blank

Date Sampled:

Replicate #: B1

Matrix: DI Water

Date Received:

DILUTION FACTOR: 1

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aluminum (Al)	NA	EPA 6020m	ND	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Antimony (Sb)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Arsenic (As)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Barium (Ba)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Beryllium (Be)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cadmium (Cd)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Chromium (Cr)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Cobalt (Co)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Copper (Cu)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Iron (Fe)	NA	EPA 6020m	ND	µg/dry g	1	5	25-Jul-06	27-Jul-06	26160-24034
Lead (Pb)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Manganese (Mn)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Molybdenum (Mo)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Nickel (Ni)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Selenium (Se)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Silver (Ag)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Strontium (Sr)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Thallium (Tl)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Tin (Sn)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Titanium (Ti)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Vanadium (V)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034
Zinc (Zn)	NA	EPA 6020m	ND	µg/dry g	0.025	0.05	25-Jul-06	27-Jul-06	26160-24034

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41531

Sample QAQC

Procedural Blank

Date Sampled:

Replicate #: B1

Description: Colorado Lagoon

Date Received:

DILUTION FACTOR: 1

Matrix: DI Water

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Aroclor 1016	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1221	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1232	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1242	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1248	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1254	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112
Aroclor 1260	Total	EPA 8270Cm	ND	ng/L	10	20	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

41531 B1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample Description: QAQC
Colorado Lagoon

Procedural Blank

Date Sampled:

Replicate #: B1

Matrix: DI Water

Date Received:

DILUTION FACTOR: 1

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	23	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(d5-Phenol)	Total	EPA 8270Cm	59	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4,6-Trichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dichlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2,4-Dimethylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2,4-Dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Chlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
2-Methyl-4,6-dinitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
2-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Chloro-3-methylphenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
4-Nitrophenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112
Pentachlorophenol	Total	EPA 8270Cm	ND	ng/L	50	100	26-Jul-06	04-Aug-06	26160-18112
Phenol	Total	EPA 8270Cm	ND	ng/L	100	200	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample Description: QAQC
Colorado Lagoon

Procedural Blank

Date Sampled:

Replicate #: B1

Matrix: DI Water

Date Received:

DILUTION FACTOR: 1

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 8270Cm	74	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB112)	Total	EPA 8270Cm	85	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(PCB198)	Total	EPA 8270Cm	100	% Recovery			26-Jul-06	04-Aug-06	26160-18112
(TCMX)	Total	EPA 8270Cm	73	% Recovery			26-Jul-06	04-Aug-06	26160-18112
2,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
2,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDD	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDE	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
4,4-DDT	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Aldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-beta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-delta	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
BHC-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-alpha	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Chlordane-gamma	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
cis-Nonachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Dieldrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan Sulfate	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-I	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endosulfan-II	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Aldehyde	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Endrin Ketone	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41531

Sample QAQC

Procedural Blank

Date Sampled:

Replicate #: B1

Description: Colorado Lagoon

Date Received:

DILUTION FACTOR: 1

Matrix: DI Water

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Heptachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Heptachlor Epoxide	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Methoxychlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Mirex	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Oxychlordane	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Chlordane	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112
Total Detectable DDTs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112
Toxaphene	Total	EPA 8270Cm	ND	ng/L	10	50	26-Jul-06	04-Aug-06	26160-18112
trans-Nonachlor	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample Description: QAQC
Colorado Lagoon

Procedural Blank

Date Sampled:

Replicate #: B1

Matrix: DI Water

Date Received:

DILUTION FACTOR: 1

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB018	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB028	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB031	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB033	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB037	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB044	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB049	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB052	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB066	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB070	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB074	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB077	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB081	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB087	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB095	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB097	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB099	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB101	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB105	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB110	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB114	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB118	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB119	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB123	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB126	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample Description: QAQC
Colorado Lagoon

Procedural Blank

Date Sampled:

Replicate #: B1

Matrix: DI Water

Date Received:

DILUTION FACTOR: 1

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB128+167	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB138	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB141	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB149	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB151	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB153	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB156	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB157	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB158	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB168+132	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB169	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB170	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB177	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB180	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB183	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB187	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB189	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB194	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB200	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB201	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
PCB206	Total	EPA 8270Cm	ND	ng/L	1	5	26-Jul-06	04-Aug-06	26160-18112
Total Detectable PCBs	Total	EPA 8270Cm	0	ng/L			26-Jul-06	04-Aug-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

CRG Marine Laboratories, Inc.

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

General Chemistry

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41531

Replicate #: B1

DILUTION FACTOR: 1

Sample Description: QAQC
Colorado Lagoon

Matrix: DI Water

Procedural Blank

Date Sampled:

Date Received:

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Percent Solids	NA	EPA 160.3	ND	Percent	0.1	0.1	26-Jul-06	26-Jul-06	26160-18112

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261
41531 B1

ACCURACY DATA

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample QAQC

Procedural Blank

Date Sampled:

Replicate #: BS1

Description: Colorado Lagoon

Date Received:

Batch ID: 26160-24034

Matrix: DI Water

Date Processed: 25-Jul-06

Date Analyzed: 27-Jul-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
Aluminum (Al)	NA	EPA 6020m	68	1 µg	10 - 180%	PASS	
Antimony (Sb)	NA	EPA 6020m	85	0.1 µg	70 - 130%	PASS	
Arsenic (As)	NA	EPA 6020m	96	1 µg	70 - 130%	PASS	
Barium (Ba)	NA	EPA 6020m	108	1 µg	70 - 140%	PASS	
Beryllium (Be)	NA	EPA 6020m	78	1 µg	50 - 120%	PASS	
Cadmium (Cd)	NA	EPA 6020m	92	0.1 µg	70 - 130%	PASS	
Chromium (Cr)	NA	EPA 6020m	92	1 µg	55 - 135%	PASS	
Cobalt (Co)	NA	EPA 6020m	84	1 µg	65 - 125%	PASS	
Copper (Cu)	NA	EPA 6020m	87	1 µg	65 - 125%	PASS	
Iron (Fe)	NA	EPA 6020m	93	1 µg	50 - 140%	PASS	
Lead (Pb)	NA	EPA 6020m	96	1 µg	55 - 120%	PASS	
Manganese (Mn)	NA	EPA 6020m	98	1 µg	50 - 140%	PASS	
Molybdenum (Mo)	NA	EPA 6020m	100	1 µg	70 - 160%	PASS	
Nickel (Ni)	NA	EPA 6020m	83	1 µg	70 - 130%	PASS	
Selenium (Se)	NA	EPA 6020m	103	1 µg	60 - 125%	PASS	
Silver (Ag)	NA	EPA 6020m	82	0.1 µg	50 - 120%	PASS	
Strontium (Sr)	NA	EPA 6020m	104	1 µg	50 - 160%	PASS	
Thallium (Tl)	NA	EPA 6020m	94	1 µg	65 - 125%	PASS	
Tin (Sn)	NA	EPA 6020m	103	1 µg	70 - 150%	PASS	
Titanium (Ti)	NA	EPA 6020m	84	1 µg	50 - 150%	PASS	
Vanadium (V)	NA	EPA 6020m	86	1 µg	50 - 160%	PASS	
Zinc (Zn)	NA	EPA 6020m	92	1 µg	60 - 120%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

41531 BS1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41531

Sample QAQC

Procedural Blank

Date Sampled:

Replicate #: BS2

Description: Colorado Lagoon

Date Received:

Batch ID: 26160-24034

Matrix: DI Water

Date Processed: 25-Jul-06

Date Analyzed: 27-Jul-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
Aluminum (Al)	NA	EPA 6020m	67	1 µg	10 - 180%	PASS	
Antimony (Sb)	NA	EPA 6020m	98	0.1 µg	70 - 130%	PASS	
Arsenic (As)	NA	EPA 6020m	97	1 µg	70 - 130%	PASS	
Barium (Ba)	NA	EPA 6020m	108	1 µg	70 - 140%	PASS	
Beryllium (Be)	NA	EPA 6020m	77	1 µg	50 - 120%	PASS	
Cadmium (Cd)	NA	EPA 6020m	92	0.1 µg	70 - 130%	PASS	
Chromium (Cr)	NA	EPA 6020m	91	1 µg	55 - 135%	PASS	
Cobalt (Co)	NA	EPA 6020m	84	1 µg	65 - 125%	PASS	
Copper (Cu)	NA	EPA 6020m	85	1 µg	65 - 125%	PASS	
Iron (Fe)	NA	EPA 6020m	93	1 µg	50 - 140%	PASS	
Lead (Pb)	NA	EPA 6020m	95	1 µg	55 - 120%	PASS	
Manganese (Mn)	NA	EPA 6020m	97	1 µg	50 - 140%	PASS	
Molybdenum (Mo)	NA	EPA 6020m	104	1 µg	70 - 160%	PASS	
Nickel (Ni)	NA	EPA 6020m	81	1 µg	70 - 130%	PASS	
Selenium (Se)	NA	EPA 6020m	105	1 µg	60 - 125%	PASS	
Silver (Ag)	NA	EPA 6020m	84	0.1 µg	50 - 120%	PASS	
Strontium (Sr)	NA	EPA 6020m	105	1 µg	50 - 160%	PASS	
Thallium (Tl)	NA	EPA 6020m	93	1 µg	65 - 125%	PASS	
Tin (Sn)	NA	EPA 6020m	110	1 µg	70 - 150%	PASS	
Titanium (Ti)	NA	EPA 6020m	83	1 µg	50 - 150%	PASS	
Vanadium (V)	NA	EPA 6020m	84	1 µg	50 - 160%	PASS	
Zinc (Zn)	NA	EPA 6020m	91	1 µg	60 - 120%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

41531 BS2

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 42552	Sample QAQC	CRM (RTC016-050) Lot# BE016	Date Sampled:
Replicate #: CRM1	Description: Colorado Lagoon		Date Received:
Batch ID: 26160-24034	Matrix: Sediment		Date Processed: 25-Jul-06
Instrument:	Analyst: P. Hershelman		Date Analyzed: 27-Jul-06

CONSTITUENT	METHOD	RESULT	UNITS	TRUE VALUE	ACCEPTANCE RANGE	COMMENT
Aluminum (Al)	EPA 6020m	8153	µg/dry g	8920	2369 - 15471	PASS
Arsenic (As)	EPA 6020m	6.3	µg/dry g	7.76	3.73 - 8.49	PASS
Barium (Ba)	EPA 6020m	99	µg/dry g	79.3	56.9 - 101.8	PASS
Beryllium (Be)	EPA 6020m	0.3	µg/dry g	0.49	0 - 1.1	PASS
Cadmium (Cd)	EPA 6020m	ND	µg/dry g	0.47	0 - 1.2	PASS
Chromium (Cr)	EPA 6020m	13.6	µg/dry g	14.5	1.1 - 28.0	PASS
Cobalt (Co)	EPA 6020m	5.2	µg/dry g	5.96	3.6 - 8.4	PASS
Copper (Cu)	EPA 6020m	12.6	µg/dry g	15.5	11.9 - 19.1	PASS
Iron (Fe)	EPA 6020m	15990	µg/dry g	16831	11698 - 21965	PASS
Lead (Pb)	EPA 6020m	13.05	µg/dry g	14.1	7.7 - 20.6	PASS
Manganese (Mn)	EPA 6020m	173.8	µg/dry g	180	144 - 216	PASS
Nickel (Ni)	EPA 6020m	13.3	µg/dry g	16.7	11.9 - 21.6	PASS
Vanadium (V)	EPA 6020m	23.6	µg/dry g	22.5	6.5 - 38.4	PASS
Zinc (Zn)	EPA 6020m	56.5	µg/dry g	69.7	49.1 - 90.3	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Level; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
42552 CRM1

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 42552	Sample QAQC	CRM (RTC016-050) Lot# BE016	Date Sampled:
Replicate #: CRM2	Description: Colorado Lagoon		Date Received:
Batch ID: 26160-24034	Matrix: Sediment		Date Processed: 25-Jul-06
Instrument:	Analyst: P. Hershelman		Date Analyzed: 27-Jul-06

CONSTITUENT	METHOD	RESULT	UNITS	TRUE VALUE	ACCEPTANCE RANGE	COMMENT
Aluminum (Al)	EPA 6020m	9729	µg/dry g	8920	2369 - 15471	PASS
Arsenic (As)	EPA 6020m	6.4	µg/dry g	7.76	3.73 - 8.49	PASS
Barium (Ba)	EPA 6020m	101.2	µg/dry g	79.3	56.9 - 101.8	PASS
Beryllium (Be)	EPA 6020m	0.4	µg/dry g	0.49	0 - 1.1	PASS
Cadmium (Cd)	EPA 6020m	0.1	µg/dry g	0.47	0 - 1.2	PASS
Chromium (Cr)	EPA 6020m	16.1	µg/dry g	14.5	1.1 - 28.0	PASS
Cobalt (Co)	EPA 6020m	5.3	µg/dry g	5.96	3.6 - 8.4	PASS
Copper (Cu)	EPA 6020m	13.1	µg/dry g	15.5	11.9 - 19.1	PASS
Iron (Fe)	EPA 6020m	16630	µg/dry g	16831	11698 - 21965	PASS
Lead (Pb)	EPA 6020m	13.39	µg/dry g	14.1	7.7 - 20.6	PASS
Manganese (Mn)	EPA 6020m	175.2	µg/dry g	180	144 - 216	PASS
Nickel (Ni)	EPA 6020m	13.9	µg/dry g	16.7	11.9 - 21.6	PASS
Vanadium (V)	EPA 6020m	27	µg/dry g	22.5	6.5 - 38.4	PASS
Zinc (Zn)	EPA 6020m	58.5	µg/dry g	69.7	49.1 - 90.3	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Level; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
42552 CRM2

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41539

Sample: Colorado2006-H H

Date Sampled: 17-Jul-06 12:25

Replicate #: MS1

Description: Colorado Lagoon

Date Received: 17-Jul-06

Batch ID: 26160-18112

Matrix: Sediment

Date Processed: 26-Jul-06

Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	39	2000 ng	5 - 150%	PASS	
(d5-Phenol)	Total	EPA 8270Cm	75	2000 ng	5 - 140%	PASS	
2-Chlorophenol	Total	EPA 8270Cm	83	2000 ng	15 - 140%	PASS	
4-Chloro-3-methylphenol	Total	EPA 8270Cm	89	2000 ng	30 - 135%	PASS	
4-Nitrophenol	Total	EPA 8270Cm	45	2000 ng	20 - 140%	PASS	
Pentachlorophenol	Total	EPA 8270Cm	58	2000 ng	MDL - 150%	PASS	
Phenol	Total	EPA 8270Cm	79	2000 ng	10 - 140%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

41539 MS1

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample:** Colorado2006-H H
Replicate #: MS2 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	33	2000 ng	5 - 150%	PASS	
(d5-Phenol)	Total	EPA 8270Cm	80	2000 ng	5 - 140%	PASS	
2-Chlorophenol	Total	EPA 8270Cm	80	2000 ng	15 - 140%	PASS	
4-Chloro-3-methylphenol	Total	EPA 8270Cm	92	2000 ng	30 - 135%	PASS	
4-Nitrophenol	Total	EPA 8270Cm	34	2000 ng	20 - 140%	PASS	
Pentachlorophenol	Total	EPA 8270Cm	55	2000 ng	MDL - 150%	PASS	
Phenol	Total	EPA 8270Cm	75	2000 ng	10 - 140%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS2

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample:** Colorado2006-H H
Replicate #: MS1 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
(PCB030)	Total	EPA 8270Cm	98	1000 ng	55 - 120%	PASS	
(PCB112)	Total	EPA 8270Cm	94	1000 ng	65 - 120%	PASS	
(PCB198)	Total	EPA 8270Cm	92	1000 ng	60 - 120%	PASS	
(TCMX)	Total	EPA 8270Cm	94	1000 ng	50 - 120%	PASS	
2,4'-DDD	Total	EPA 8270Cm	85	400 ng	50 - 135%	PASS	
2,4'-DDE	Total	EPA 8270Cm	93	400 ng	60 - 130%	PASS	
2,4'-DDT	Total	EPA 8270Cm	49	400 ng	40 - 135%	PASS	
4,4'-DDD	Total	EPA 8270Cm	92	400 ng	70 - 130%	PASS	
4,4'-DDE	Total	EPA 8270Cm	86	400 ng	65 - 130%	PASS	
4,4'-DDT	Total	EPA 8270Cm	70	400 ng	35 - 140%	PASS	
Aldrin	Total	EPA 8270Cm	91	400 ng	50 - 125%	PASS	
BHC-alpha	Total	EPA 8270Cm	90	400 ng	60 - 120%	PASS	
BHC-beta	Total	EPA 8270Cm	83	400 ng	60 - 120%	PASS	
BHC-delta	Total	EPA 8270Cm	86	400 ng	60 - 120%	PASS	
BHC-gamma	Total	EPA 8270Cm	95	400 ng	60 - 120%	PASS	
Chlordane-alpha	Total	EPA 8270Cm	84	400 ng	70 - 130%	PASS	
Chlordane-gamma	Total	EPA 8270Cm	89	400 ng	60 - 120%	PASS	
cis-Nonachlor	Total	EPA 8270Cm	81	400 ng	60 - 120%	PASS	
Dieldrin	Total	EPA 8270Cm	0	400 ng	50 - 125%	FAIL	M1
Endosulfan Sulfate	Total	EPA 8270Cm	69	400 ng	25 - 125%	PASS	
Endosulfan-I	Total	EPA 8270Cm	73	400 ng	45 - 125%	PASS	
Endosulfan-II	Total	EPA 8270Cm	0	400 ng	25 - 145%	FAIL	M1
Endrin	Total	EPA 8270Cm	0	400 ng	60 - 125%	FAIL	M1
Endrin Ketone	Total	EPA 8270Cm	0	400 ng	45 - 125%	FAIL	M1
Heptachlor	Total	EPA 8270Cm	54	400 ng	45 - 125%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample** Colorado2006-H H
Replicate #: MS1 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
Heptachlor Epoxide	Total	EPA 8270Cm	84	400 ng	60 - 120%	PASS	
Methoxychlor	Total	EPA 8270Cm	88	400 ng	35 - 140%	PASS	
Mirex	Total	EPA 8270Cm	57	400 ng	50 - 130%	PASS	
Oxychlorthane	Total	EPA 8270Cm	83	400 ng	70 - 130%	PASS	
trans-Nonachlor	Total	EPA 8270Cm	79	400 ng	60 - 120%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS1

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample:** Colorado2006-H H
Replicate #: MS2 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
(PCB030)	Total	EPA 8270Cm	100	1000 ng	55 - 120%	PASS	
(PCB112)	Total	EPA 8270Cm	96	1000 ng	65 - 120%	PASS	
(PCB198)	Total	EPA 8270Cm	95	1000 ng	60 - 120%	PASS	
(TCMX)	Total	EPA 8270Cm	93	1000 ng	50 - 120%	PASS	
2,4'-DDD	Total	EPA 8270Cm	95	400 ng	50 - 135%	PASS	
2,4'-DDE	Total	EPA 8270Cm	98	400 ng	60 - 130%	PASS	
2,4'-DDT	Total	EPA 8270Cm	54	400 ng	40 - 135%	PASS	
4,4'-DDD	Total	EPA 8270Cm	94	400 ng	70 - 130%	PASS	
4,4'-DDE	Total	EPA 8270Cm	90	400 ng	65 - 130%	PASS	
4,4'-DDT	Total	EPA 8270Cm	61	400 ng	35 - 140%	PASS	
Aldrin	Total	EPA 8270Cm	77	400 ng	50 - 125%	PASS	
BHC-alpha	Total	EPA 8270Cm	85	400 ng	60 - 120%	PASS	
BHC-beta	Total	EPA 8270Cm	96	400 ng	60 - 120%	PASS	
BHC-delta	Total	EPA 8270Cm	83	400 ng	60 - 120%	PASS	
BHC-gamma	Total	EPA 8270Cm	98	400 ng	60 - 120%	PASS	
Chlordane-alpha	Total	EPA 8270Cm	79	400 ng	70 - 130%	PASS	
Chlordane-gamma	Total	EPA 8270Cm	86	400 ng	60 - 120%	PASS	
cis-Nonachlor	Total	EPA 8270Cm	84	400 ng	60 - 120%	PASS	
Dieldrin	Total	EPA 8270Cm	0	400 ng	50 - 125%	FAIL	M1
Endosulfan Sulfate	Total	EPA 8270Cm	70	400 ng	25 - 125%	PASS	
Endosulfan-I	Total	EPA 8270Cm	86	400 ng	45 - 125%	PASS	
Endosulfan-II	Total	EPA 8270Cm	0	400 ng	25 - 145%	FAIL	M1
Endrin	Total	EPA 8270Cm	0	400 ng	60 - 125%	FAIL	M1
Endrin Ketone	Total	EPA 8270Cm	0	400 ng	45 - 125%	FAIL	M1
Heptachlor	Total	EPA 8270Cm	66	400 ng	45 - 125%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS2

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample** Colorado2006-H H
Replicate #: MS2 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
Heptachlor Epoxide	Total	EPA 8270Cm	84	400 ng	60 - 120%	PASS	
Methoxychlor	Total	EPA 8270Cm	82	400 ng	35 - 140%	PASS	
Mirex	Total	EPA 8270Cm	54	400 ng	50 - 130%	PASS	
Oxychlorthane	Total	EPA 8270Cm	86	400 ng	70 - 130%	PASS	
trans-Nonachlor	Total	EPA 8270Cm	82	400 ng	60 - 120%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS2

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539
Replicate #: MS1
Batch ID: 26160-18112

Sample: Colorado2006-H H
Description: Colorado Lagoon
Matrix: Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
PCB018	Total	EPA 8270Cm	87	320 ng	60 - 125%	PASS	
PCB028	Total	EPA 8270Cm	95	320 ng	60 - 125%	PASS	
PCB031	Total	EPA 8270Cm	97	320 ng	60 - 125%	PASS	
PCB033	Total	EPA 8270Cm	102	320 ng	60 - 125%	PASS	
PCB037	Total	EPA 8270Cm	101	320 ng	60 - 125%	PASS	
PCB044	Total	EPA 8270Cm	82	320 ng	60 - 125%	PASS	
PCB049	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB052	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB066	Total	EPA 8270Cm	88	320 ng	60 - 125%	PASS	
PCB070	Total	EPA 8270Cm	93	320 ng	60 - 125%	PASS	
PCB074	Total	EPA 8270Cm	94	320 ng	60 - 125%	PASS	
PCB077	Total	EPA 8270Cm	80	320 ng	60 - 125%	PASS	
PCB081	Total	EPA 8270Cm	84	320 ng	60 - 125%	PASS	
PCB087	Total	EPA 8270Cm	95	320 ng	60 - 125%	PASS	
PCB095	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB097	Total	EPA 8270Cm	88	320 ng	60 - 125%	PASS	
PCB099	Total	EPA 8270Cm	95	320 ng	60 - 125%	PASS	
PCB101	Total	EPA 8270Cm	97	320 ng	60 - 125%	PASS	
PCB105	Total	EPA 8270Cm	85	320 ng	60 - 125%	PASS	
PCB110	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB114	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB118	Total	EPA 8270Cm	91	320 ng	60 - 125%	PASS	
PCB119	Total	EPA 8270Cm	91	320 ng	60 - 125%	PASS	
PCB123	Total	EPA 8270Cm	87	320 ng	60 - 125%	PASS	
PCB126	Total	EPA 8270Cm	78	320 ng	60 - 125%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample:** Colorado2006-H H
Replicate #: MS1 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
PCB128+167	Total	EPA 8270Cm	84	640 ng	60 - 125%	PASS	
PCB138	Total	EPA 8270Cm	93	320 ng	60 - 125%	PASS	
PCB141	Total	EPA 8270Cm	76	320 ng	60 - 125%	PASS	
PCB149	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB151	Total	EPA 8270Cm	93	320 ng	60 - 125%	PASS	
PCB153	Total	EPA 8270Cm	91	320 ng	60 - 125%	PASS	
PCB156	Total	EPA 8270Cm	86	320 ng	60 - 125%	PASS	
PCB157	Total	EPA 8270Cm	85	320 ng	60 - 125%	PASS	
PCB158	Total	EPA 8270Cm	83	320 ng	60 - 125%	PASS	
PCB168+132	Total	EPA 8270Cm	85	640 ng	60 - 125%	PASS	
PCB169	Total	EPA 8270Cm	80	320 ng	60 - 125%	PASS	
PCB170	Total	EPA 8270Cm	87	320 ng	60 - 125%	PASS	
PCB177	Total	EPA 8270Cm	95	320 ng	60 - 125%	PASS	
PCB180	Total	EPA 8270Cm	91	320 ng	60 - 125%	PASS	
PCB183	Total	EPA 8270Cm	88	320 ng	60 - 125%	PASS	
PCB187	Total	EPA 8270Cm	96	320 ng	60 - 125%	PASS	
PCB189	Total	EPA 8270Cm	72	320 ng	60 - 125%	PASS	
PCB194	Total	EPA 8270Cm	91	320 ng	60 - 125%	PASS	
PCB200	Total	EPA 8270Cm	87	320 ng	60 - 125%	PASS	
PCB201	Total	EPA 8270Cm	85	320 ng	60 - 125%	PASS	
PCB206	Total	EPA 8270Cm	93	320 ng	60 - 125%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS1

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample:** Colorado2006-H H
Replicate #: MS2 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
PCB018	Total	EPA 8270Cm	87	ng	60 - 125%	PASS	
PCB028	Total	EPA 8270Cm	92	ng	60 - 125%	PASS	
PCB031	Total	EPA 8270Cm	95	ng	60 - 125%	PASS	
PCB033	Total	EPA 8270Cm	96	ng	60 - 125%	PASS	
PCB037	Total	EPA 8270Cm	93	ng	60 - 125%	PASS	
PCB044	Total	EPA 8270Cm	81	ng	60 - 125%	PASS	
PCB049	Total	EPA 8270Cm	89	ng	60 - 125%	PASS	
PCB052	Total	EPA 8270Cm	97	ng	60 - 125%	PASS	
PCB066	Total	EPA 8270Cm	89	ng	60 - 125%	PASS	
PCB070	Total	EPA 8270Cm	85	ng	60 - 125%	PASS	
PCB074	Total	EPA 8270Cm	94	ng	60 - 125%	PASS	
PCB077	Total	EPA 8270Cm	88	ng	60 - 125%	PASS	
PCB081	Total	EPA 8270Cm	87	ng	60 - 125%	PASS	
PCB087	Total	EPA 8270Cm	91	ng	60 - 125%	PASS	
PCB095	Total	EPA 8270Cm	82	ng	60 - 125%	PASS	
PCB097	Total	EPA 8270Cm	83	ng	60 - 125%	PASS	
PCB099	Total	EPA 8270Cm	95	ng	60 - 125%	PASS	
PCB101	Total	EPA 8270Cm	94	ng	60 - 125%	PASS	
PCB105	Total	EPA 8270Cm	91	ng	60 - 125%	PASS	
PCB110	Total	EPA 8270Cm	82	ng	60 - 125%	PASS	
PCB114	Total	EPA 8270Cm	85	ng	60 - 125%	PASS	
PCB118	Total	EPA 8270Cm	93	ng	60 - 125%	PASS	
PCB119	Total	EPA 8270Cm	93	ng	60 - 125%	PASS	
PCB123	Total	EPA 8270Cm	92	ng	60 - 125%	PASS	
PCB126	Total	EPA 8270Cm	84	ng	60 - 125%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS2

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539 **Sample:** Colorado2006-H H
Replicate #: MS2 **Description:** Colorado Lagoon
Batch ID: 26160-18112 **Matrix:** Sediment

Date Sampled: 17-Jul-06 12:25
Date Received: 17-Jul-06
Date Processed: 26-Jul-06
Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT	QUALIFIER
PCB128+167	Total	EPA 8270Cm	84	ng	60 - 125%	PASS	
PCB138	Total	EPA 8270Cm	87	ng	60 - 125%	PASS	
PCB141	Total	EPA 8270Cm	78	ng	60 - 125%	PASS	
PCB149	Total	EPA 8270Cm	87	ng	60 - 125%	PASS	
PCB151	Total	EPA 8270Cm	92	ng	60 - 125%	PASS	
PCB153	Total	EPA 8270Cm	91	ng	60 - 125%	PASS	
PCB156	Total	EPA 8270Cm	93	ng	60 - 125%	PASS	
PCB157	Total	EPA 8270Cm	79	ng	60 - 125%	PASS	
PCB158	Total	EPA 8270Cm	82	ng	60 - 125%	PASS	
PCB168+132	Total	EPA 8270Cm	85	ng	60 - 125%	PASS	
PCB169	Total	EPA 8270Cm	78	ng	60 - 125%	PASS	
PCB170	Total	EPA 8270Cm	89	ng	60 - 125%	PASS	
PCB177	Total	EPA 8270Cm	91	ng	60 - 125%	PASS	
PCB180	Total	EPA 8270Cm	88	ng	60 - 125%	PASS	
PCB183	Total	EPA 8270Cm	90	ng	60 - 125%	PASS	
PCB187	Total	EPA 8270Cm	89	ng	60 - 125%	PASS	
PCB189	Total	EPA 8270Cm	85	ng	60 - 125%	PASS	
PCB194	Total	EPA 8270Cm	93	ng	60 - 125%	PASS	
PCB200	Total	EPA 8270Cm	78	ng	60 - 125%	PASS	
PCB201	Total	EPA 8270Cm	80	ng	60 - 125%	PASS	
PCB206	Total	EPA 8270Cm	88	ng	60 - 125%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539 MS2

PRECISION DATA

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 42552

Sample Description: QAQC
Colorado Lagoon

CRM (RTC016-050) Lot# BE016

Date Sampled:

Date Received:

Batch ID: 26160-24034

Matrix: Sediment

Date Processed: 25-Jul-06

Date Analyzed: 27-Jul-06

CONSTITUENT	FRACTION	METHOD	CRM1 µg/dry g	CRM2 µg/dry g	% RPD	ACCEPTANCE RANGE	COMMENT
Aluminum (Al)	NA	EPA 6020m	8153	9729	18	0 - 30%	PASS
Arsenic (As)	NA	EPA 6020m	6.3	6.4	2	0 - 30%	PASS
Barium (Ba)	NA	EPA 6020m	99	101.2	2	0 - 30%	PASS
Beryllium (Be)	NA	EPA 6020m	0.3	0.4	29	0 - 30%	PASS
Chromium (Cr)	NA	EPA 6020m	13.6	16.1	17	0 - 30%	PASS
Cobalt (Co)	NA	EPA 6020m	5.2	5.3	2	0 - 30%	PASS
Copper (Cu)	NA	EPA 6020m	12.6	13.1	4	0 - 30%	PASS
Iron (Fe)	NA	EPA 6020m	15990	16630	4	0 - 30%	PASS
Lead (Pb)	NA	EPA 6020m	13.05	13.39	3	0 - 30%	PASS
Manganese (Mn)	NA	EPA 6020m	173.8	175.2	1	0 - 30%	PASS
Nickel (Ni)	NA	EPA 6020m	13.3	13.9	4	0 - 30%	PASS
Vanadium (V)	NA	EPA 6020m	23.6	27	13	0 - 30%	PASS
Zinc (Zn)	NA	EPA 6020m	56.5	58.5	3	0 - 30%	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
42552

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41531

Sample Description: QAQC
Colorado Lagoon

Procedural Blank

Date Sampled:

Date Received:

Batch ID: 26160-24034

Matrix: DI Water

Date Processed: 25-Jul-06

Date Analyzed: 27-Jul-06

CONSTITUENT	FRACTION	METHOD	BS1	BS2	% RPD	ACCEPTANCE RANGE	COMMENT	QUALIFIER
			% Recovery	% Recovery				
Aluminum (Al)	NA	EPA 6020m	68	67	1	0 - 30%	PASS	
Antimony (Sb)	NA	EPA 6020m	85	98	14	0 - 30%	PASS	
Arsenic (As)	NA	EPA 6020m	96	97	1	0 - 30%	PASS	
Barium (Ba)	NA	EPA 6020m	108	108	0	0 - 30%	PASS	
Beryllium (Be)	NA	EPA 6020m	78	77	1	0 - 30%	PASS	
Cadmium (Cd)	NA	EPA 6020m	92	92	0	0 - 30%	PASS	
Chromium (Cr)	NA	EPA 6020m	92	91	1	0 - 30%	PASS	
Cobalt (Co)	NA	EPA 6020m	84	84	0	0 - 30%	PASS	
Copper (Cu)	NA	EPA 6020m	87	85	2	0 - 30%	PASS	
Iron (Fe)	NA	EPA 6020m	93	93	0	0 - 30%	PASS	
Lead (Pb)	NA	EPA 6020m	96	95	1	0 - 30%	PASS	
Manganese (Mn)	NA	EPA 6020m	98	97	1	0 - 30%	PASS	
Molybdenum (Mo)	NA	EPA 6020m	100	104	4	0 - 30%	PASS	
Nickel (Ni)	NA	EPA 6020m	83	81	2	0 - 30%	PASS	
Selenium (Se)	NA	EPA 6020m	103	105	2	0 - 30%	PASS	
Silver (Ag)	NA	EPA 6020m	82	84	2	0 - 30%	PASS	
Strontium (Sr)	NA	EPA 6020m	104	105	1	0 - 30%	PASS	
Thallium (Tl)	NA	EPA 6020m	94	93	1	0 - 30%	PASS	
Tin (Sn)	NA	EPA 6020m	103	110	7	0 - 30%	PASS	
Titanium (Ti)	NA	EPA 6020m	84	83	1	0 - 30%	PASS	
Vanadium (V)	NA	EPA 6020m	86	84	2	0 - 30%	PASS	
Zinc (Zn)	NA	EPA 6020m	92	91	1	0 - 30%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41531

CRG Marine Laboratories, Inc.

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

Trace Metals

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41532	Sample Description: Colorado2006-A A Colorado Lagoon	Date Sampled: 17-Jul-06 10:18
Batch ID: 26160-24034	Matrix: Sediment	Date Received: 17-Jul-06
		Date Processed: 25-Jul-06
		Date Analyzed: 27-Jul-06

CONSTITUENT	FRACTION	METHOD	R1	R2	% RPD	ACCEPTANCE RANGE	COMMENT
			µg/dry g	µg/dry g			
Aluminum (Al)	NA	EPA 6020m	13280	13610	2	0 - 30%	PASS
Antimony (Sb)	NA	EPA 6020m	2	2	0	0 - 30%	PASS
Arsenic (As)	NA	EPA 6020m	8.1	8.3	2	0 - 30%	PASS
Barium (Ba)	NA	EPA 6020m	143.4	137.6	4	0 - 30%	PASS
Beryllium (Be)	NA	EPA 6020m	0.3	0.3	0	0 - 30%	PASS
Cadmium (Cd)	NA	EPA 6020m	1.1	1.1	0	0 - 30%	PASS
Chromium (Cr)	NA	EPA 6020m	31.5	33.5	6	0 - 30%	PASS
Cobalt (Co)	NA	EPA 6020m	7.1	7.2	1	0 - 30%	PASS
Copper (Cu)	NA	EPA 6020m	83.3	83.5	0	0 - 30%	PASS
Iron (Fe)	NA	EPA 6020m	22770	22410	2	0 - 30%	PASS
Lead (Pb)	NA	EPA 6020m	168.3	177.8	5	0 - 30%	PASS
Manganese (Mn)	NA	EPA 6020m	195.9	202.5	3	0 - 30%	PASS
Molybdenum (Mo)	NA	EPA 6020m	5.8	6.7	14	0 - 30%	PASS
Nickel (Ni)	NA	EPA 6020m	19.9	20.3	2	0 - 30%	PASS
Selenium (Se)	NA	EPA 6020m	0.7	0.9	25	0 - 30%	PASS
Silver (Ag)	NA	EPA 6020m	0.1	0.2	67	0 - 30%	FAIL
Strontium (Sr)	NA	EPA 6020m	59.8	59.8	0	0 - 30%	PASS
Thallium (Tl)	NA	EPA 6020m	0.1	0.1	0	0 - 30%	PASS
Tin (Sn)	NA	EPA 6020m	6.3	6.9	9	0 - 30%	PASS
Titanium (Ti)	NA	EPA 6020m	1063	1041	2	0 - 30%	PASS
Vanadium (V)	NA	EPA 6020m	46	46.8	2	0 - 30%	PASS
Zinc (Zn)	NA	EPA 6020m	361.4	368.6	2	0 - 30%	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41532

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41539

Sample: Colorado2006-H H

Date Sampled: 17-Jul-06 12:25

Description: Colorado Lagoon

Date Received: 17-Jul-06

Batch ID: 26160-18112

Matrix: Sediment

Date Processed: 26-Jul-06

Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	MS1	MS2	% RPD	ACCEPTANCE RANGE	COMMENT	QUALIFIER
			% Recovery	% Recovery				
(2,4,6-Tribromophenol)	Total	EPA 8270Cm	39	33	17	0 - 30%	PASS	
(d5-Phenol)	Total	EPA 8270Cm	75	80	6	0 - 30%	PASS	
2-Chlorophenol	Total	EPA 8270Cm	83	80	4	0 - 30%	PASS	
4-Chloro-3-methylphenol	Total	EPA 8270Cm	89	92	3	0 - 30%	PASS	
4-Nitrophenol	Total	EPA 8270Cm	45	34	28	0 - 30%	PASS	
Pentachlorophenol	Total	EPA 8270Cm	58	55	5	0 - 30%	PASS	
Phenol	Total	EPA 8270Cm	79	75	5	0 - 30%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H Colorado Lagoon	Date Sampled: 17-Jul-06 12:25
Batch ID: 26160-18112	Matrix: Sediment	Date Received: 17-Jul-06
		Date Processed: 26-Jul-06
		Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	MS1	MS2	% RPD	ACCEPTANCE RANGE	COMMENT	QUALIFIER
			% Recovery	% Recovery				
(PCB030)	Total	EPA 8270Cm	98	100	2	0 - 30%	PASS	
(PCB112)	Total	EPA 8270Cm	94	96	2	0 - 30%	PASS	
(PCB198)	Total	EPA 8270Cm	92	95	3	0 - 30%	PASS	
(TCMX)	Total	EPA 8270Cm	94	93	1	0 - 30%	PASS	
2,4'-DDD	Total	EPA 8270Cm	85	95	11	0 - 30%	PASS	
2,4'-DDE	Total	EPA 8270Cm	93	98	5	0 - 30%	PASS	
2,4'-DDT	Total	EPA 8270Cm	49	54	10	0 - 30%	PASS	
4,4'-DDD	Total	EPA 8270Cm	92	94	2	0 - 30%	PASS	
4,4'-DDE	Total	EPA 8270Cm	86	90	5	0 - 30%	PASS	
4,4'-DDT	Total	EPA 8270Cm	70	61	14	0 - 30%	PASS	
Aldrin	Total	EPA 8270Cm	91	77	17	0 - 30%	PASS	
BHC-alpha	Total	EPA 8270Cm	90	85	6	0 - 30%	PASS	
BHC-beta	Total	EPA 8270Cm	83	96	15	0 - 30%	PASS	
BHC-delta	Total	EPA 8270Cm	86	83	4	0 - 30%	PASS	
BHC-gamma	Total	EPA 8270Cm	95	98	3	0 - 30%	PASS	
Chlordane-alpha	Total	EPA 8270Cm	84	79	6	0 - 30%	PASS	
Chlordane-gamma	Total	EPA 8270Cm	89	86	3	0 - 30%	PASS	
cis-Nonachlor	Total	EPA 8270Cm	81	84	4	0 - 30%	PASS	
Dieldrin	Total	EPA 8270Cm	0	0	#Error	0 - 30%	#Error	M1
Endosulfan Sulfate	Total	EPA 8270Cm	69	70	1	0 - 30%	PASS	
Endosulfan-I	Total	EPA 8270Cm	73	86	16	0 - 30%	PASS	
Endosulfan-II	Total	EPA 8270Cm	0	0	#Error	0 - 30%	#Error	M1
Endrin	Total	EPA 8270Cm	0	0	#Error	0 - 30%	#Error	M1
Endrin Ketone	Total	EPA 8270Cm	0	0	#Error	0 - 30%	#Error	M1
Heptachlor	Total	EPA 8270Cm	54	66	20	0 - 30%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: 26160

CRG ID#: 41539

Sample: Colorado2006-H H

Date Sampled: 17-Jul-06 12:25

Description: Colorado Lagoon

Date Received: 17-Jul-06

Batch ID: 26160-18112

Matrix: Sediment

Date Processed: 26-Jul-06

Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	MS1	MS2	% RPD	ACCEPTANCE RANGE	COMMENT	QUALIFIER
			% Recovery	% Recovery				
Heptachlor Epoxide	Total	EPA 8270Cm	84	84	0	0 - 30%	PASS	
Methoxychlor	Total	EPA 8270Cm	88	82	7	0 - 30%	PASS	
Mirex	Total	EPA 8270Cm	57	54	5	0 - 30%	PASS	
Oxychlorane	Total	EPA 8270Cm	83	86	4	0 - 30%	PASS	
trans-Nonachlor	Total	EPA 8270Cm	79	82	4	0 - 30%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H Colorado Lagoon	Date Sampled: 17-Jul-06 12:25
Batch ID: 26160-18112	Matrix: Sediment	Date Received: 17-Jul-06
		Date Processed: 26-Jul-06
		Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	MS1	MS2	% RPD	ACCEPTANCE RANGE	COMMENT	QUALIFIER
			% Recovery	% Recovery				
PCB018	Total	EPA 8270Cm	87	87	0	0 - 30%	PASS	
PCB028	Total	EPA 8270Cm	95	92	3	0 - 30%	PASS	
PCB031	Total	EPA 8270Cm	97	95	2	0 - 30%	PASS	
PCB033	Total	EPA 8270Cm	102	96	6	0 - 30%	PASS	
PCB037	Total	EPA 8270Cm	101	93	8	0 - 30%	PASS	
PCB044	Total	EPA 8270Cm	82	81	1	0 - 30%	PASS	
PCB049	Total	EPA 8270Cm	86	89	3	0 - 30%	PASS	
PCB052	Total	EPA 8270Cm	86	97	12	0 - 30%	PASS	
PCB066	Total	EPA 8270Cm	88	89	1	0 - 30%	PASS	
PCB070	Total	EPA 8270Cm	93	85	9	0 - 30%	PASS	
PCB074	Total	EPA 8270Cm	94	94	0	0 - 30%	PASS	
PCB077	Total	EPA 8270Cm	80	88	10	0 - 30%	PASS	
PCB081	Total	EPA 8270Cm	84	87	4	0 - 30%	PASS	
PCB087	Total	EPA 8270Cm	95	91	4	0 - 30%	PASS	
PCB095	Total	EPA 8270Cm	86	82	5	0 - 30%	PASS	
PCB097	Total	EPA 8270Cm	88	83	6	0 - 30%	PASS	
PCB099	Total	EPA 8270Cm	95	95	0	0 - 30%	PASS	
PCB101	Total	EPA 8270Cm	97	94	3	0 - 30%	PASS	
PCB105	Total	EPA 8270Cm	85	91	7	0 - 30%	PASS	
PCB110	Total	EPA 8270Cm	86	82	5	0 - 30%	PASS	
PCB114	Total	EPA 8270Cm	86	85	1	0 - 30%	PASS	
PCB118	Total	EPA 8270Cm	91	93	2	0 - 30%	PASS	
PCB119	Total	EPA 8270Cm	91	93	2	0 - 30%	PASS	
PCB123	Total	EPA 8270Cm	87	92	6	0 - 30%	PASS	
PCB126	Total	EPA 8270Cm	78	84	7	0 - 30%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539

CRG Marine Laboratories, Inc.

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

PCB Congeners

Client: *Kinnetic Laboratories, Inc.*

CRG Project ID: **26160**

CRG ID#: 41539	Sample Description: Colorado2006-H H Colorado Lagoon	Date Sampled: 17-Jul-06 12:25
Batch ID: 26160-18112	Matrix: Sediment	Date Received: 17-Jul-06
		Date Processed: 26-Jul-06
		Date Analyzed: 04-Aug-06

CONSTITUENT	FRACTION	METHOD	MS1	MS2	% RPD	ACCEPTANCE RANGE	COMMENT	QUALIFIER
			% Recovery	% Recovery				
PCB128+167	Total	EPA 8270Cm	84	84	0	0 - 30%	PASS	
PCB138	Total	EPA 8270Cm	93	87	7	0 - 30%	PASS	
PCB141	Total	EPA 8270Cm	76	78	3	0 - 30%	PASS	
PCB149	Total	EPA 8270Cm	86	87	1	0 - 30%	PASS	
PCB151	Total	EPA 8270Cm	93	92	1	0 - 30%	PASS	
PCB153	Total	EPA 8270Cm	91	91	0	0 - 30%	PASS	
PCB156	Total	EPA 8270Cm	86	93	8	0 - 30%	PASS	
PCB157	Total	EPA 8270Cm	85	79	7	0 - 30%	PASS	
PCB158	Total	EPA 8270Cm	83	82	1	0 - 30%	PASS	
PCB168+132	Total	EPA 8270Cm	85	85	0	0 - 30%	PASS	
PCB169	Total	EPA 8270Cm	80	78	3	0 - 30%	PASS	
PCB170	Total	EPA 8270Cm	87	89	2	0 - 30%	PASS	
PCB177	Total	EPA 8270Cm	95	91	4	0 - 30%	PASS	
PCB180	Total	EPA 8270Cm	91	88	3	0 - 30%	PASS	
PCB183	Total	EPA 8270Cm	88	90	2	0 - 30%	PASS	
PCB187	Total	EPA 8270Cm	96	89	8	0 - 30%	PASS	
PCB189	Total	EPA 8270Cm	72	85	17	0 - 30%	PASS	
PCB194	Total	EPA 8270Cm	91	93	2	0 - 30%	PASS	
PCB200	Total	EPA 8270Cm	87	78	11	0 - 30%	PASS	
PCB201	Total	EPA 8270Cm	85	80	6	0 - 30%	PASS	
PCB206	Total	EPA 8270Cm	93	88	6	0 - 30%	PASS	

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261
41539

**SUB-CONTRACT LAB
REPORT**

Project ID: P26160
Client: CRG Laboratories
Analysis: Grain Size
Matrix: Sediment
Delivered: July 27, 2006



Sample ID	Lab Rep	phi Size																											
		<-1	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	>12	
		Microns																											
		>2000	1410	1000	710	500	354	250	177	125	88.4	62.5	44.2	31.3	22.1	15.6	11.1	7.8	5.5	3.9	2.8	1.95	1.38	0.98	0.69	0.49	0.35	<0.24	
	coarse sand	coarse sand	med sand	med sand	med sand	med sand	fine sand	very fine sand	very fine sand	very fine sand	very fine sand	very fine sand	course silt	course silt	course silt	silt	fine silt	very fine silt	very fine silt	clay	clay	clay	clay	clay	clay	clay	clay		
Colorado2006-A	1	0.00	0.00	0.00	0.03	0.52	1.82	4.74	7.86	9.69	10.22	9.89	9.38	8.92	8.25	7.22	6.32	4.81	3.45	2.17	1.65	0.99	0.60	0.57	0.54	0.36	0.02	0.00	
Colorado2006-A	2	0.00	0.00	0.00	0.04	0.64	2.18	5.78	10.03	11.72	11.16	9.89	8.78	8.04	7.28	6.30	5.46	4.12	2.94	1.84	1.38	0.83	0.51	0.46	0.42	0.21	0.00	0.00	
Colorado2006-B	1	0.00	0.00	0.00	0.06	1.19	4.67	10.81	13.96	12.32	9.54	7.86	7.07	6.73	6.24	5.39	4.56	3.32	2.27	1.38	1.01	0.60	0.38	0.35	0.27	0.00	0.00	0.00	
Colorado2006-C	1	0.00	0.00	0.00	0.00	0.30	1.57	5.96	11.87	12.04	9.45	7.72	7.21	7.35	7.37	6.90	6.33	4.99	3.64	2.30	1.74	1.04	0.63	0.60	0.59	0.37	0.02	0.00	
Colorado2006-D	1	0.00	0.00	0.00	0.00	0.12	1.32	4.60	7.40	7.75	7.60	7.75	8.08	8.40	8.56	8.34	8.13	6.80	5.12	3.22	2.38	1.37	0.80	0.79	0.80	0.54	0.14	0.00	
Colorado2006-E	1	0.00	0.00	0.00	0.00	0.00	0.04	0.63	2.44	5.35	8.18	9.42	9.76	9.89	9.89	9.51	9.17	7.65	5.86	3.81	2.92	1.72	0.99	0.96	0.97	0.66	0.17	0.00	
Colorado2006-F	1	0.00	0.00	0.00	0.00	0.00	0.16	0.81	2.54	5.24	7.92	9.14	9.56	9.88	10.08	9.79	9.42	7.77	5.85	3.75	2.84	1.66	0.96	0.92	0.91	0.62	0.17	0.00	
Colorado2006-G	1	0.00	0.00	0.00	0.00	0.00	0.05	0.71	2.47	5.19	7.99	9.43	9.94	10.22	10.34	9.96	9.46	7.66	5.65	3.55	2.64	1.52	0.87	0.86	0.90	0.56	0.03	0.00	
Colorado2006-H	1	0.00	0.00	0.00	0.00	0.00	0.00	0.29	1.42	3.88	7.29	9.39	10.15	10.33	10.30	9.96	9.71	8.18	6.26	4.03	3.06	1.79	1.03	1.02	1.05	0.68	0.17	0.00	

Project ID: P26160
Client: CRG Laboratories
Analysis: Grain Size
Matrix: Sediment
Delivered: July 27, 2006



Sample ID	Lab Rep	Analysis Date	Summary (Percent)					Percentile (microns)					Percentile (phi)					Microns			phi			Dispersion or Sorting Index	Distribution (phi)	
			Gravel*	Sand	Silt	Clay	Silt-Clay	5%	16%	50%	84%	95%	5%	16%	50%	84%	95%	Mean	Median	Mode	Mean	Median	Mode		Skewness	Kurtosis
Colorado2006-A	1	27-Jul-06	0.00	44.76	50.51	4.73	55.24	2.92	8.17	36.44	120.44	206.33	8.43	6.94	4.78	3.05	2.27	61.92	36.44	74.07	4.01	4.78	3.75	1.95	-0.39	-2.58
Colorado2006-A	2	27-Jul-06	0.00	51.43	44.74	3.82	48.57	3.46	9.64	46.48	137.09	219.89	8.18	6.70	4.43	2.86	2.18	70.87	46.48	103.37	3.82	4.43	3.27	1.92	-0.32	-2.56
Colorado2006-B	1	27-Jul-06	0.00	60.42	36.96	2.62	39.58	4.54	12.48	68.59	181.22	267.79	7.79	6.33	3.86	2.46	1.89	94.06	68.59	145.98	3.41	3.86	2.77	1.94	-0.24	-2.52
Colorado2006-C	1	27-Jul-06	0.00	48.90	46.09	5.00	51.10	2.80	7.83	41.94	139.29	208.46	8.49	7.00	4.57	2.84	2.25	67.97	41.94	108.85	3.88	4.57	3.19	2.08	-0.34	-2.50
Colorado2006-D	1	27-Jul-06	0.00	36.55	56.64	6.81	63.45	2.13	5.75	25.05	111.51	191.45	8.89	7.45	5.32	3.16	2.38	52.55	25.05	18.59	4.25	5.32	5.75	2.15	-0.50	-2.52
Colorado2006-E	1	27-Jul-06	0.00	26.07	65.55	8.39	73.93	1.78	4.87	19.01	64.23	110.61	9.15	7.69	5.72	3.96	3.17	32.93	19.01	26.24	4.92	5.72	5.25	1.87	-0.43	-2.60
Colorado2006-F	1	27-Jul-06	0.00	25.82	66.10	8.07	74.18	1.86	4.98	18.76	64.39	113.36	9.08	7.66	5.74	3.95	3.14	33.40	18.76	18.59	4.90	5.74	5.75	1.85	-0.45	-2.61
Colorado2006-G	1	27-Jul-06	0.00	25.84	66.78	7.38	74.16	2.02	5.31	19.32	63.62	111.05	8.96	7.57	5.70	3.97	3.17	33.15	19.32	18.65	4.91	5.70	5.75	1.80	-0.43	-2.61
Colorado2006-H	1	27-Jul-06	0.00	22.28	68.93	8.79	77.72	1.69	4.64	17.30	55.71	93.17	9.22	7.76	5.86	4.16	3.42	28.87	17.30	26.23	5.12	5.86	5.25	1.80	-0.41	-2.61

*Percentage of the sample retained on a 2 mm sieve.



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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-A
AMS Sample ID: 24701

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	7.10	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

1 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-B
AMS Sample ID: 24702

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	2.16	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

2 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-C
AMS Sample ID: 24703

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	2.42	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

3 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-D
AMS Sample ID: 24704

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	1.90	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

4 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-E
AMS Sample ID: 24705

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	2.44	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

5 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-F
AMS Sample ID: 24706

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	4.05	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

6 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-G
AMS Sample ID: 24707

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	3.40	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

7 of 10





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: P26160
Project Name: N/A
Client Sample ID: Colorado 2006-H
AMS Sample ID: 24708

AMS Project Number: 2006-598-29
Date Sampled: 7/17/2006
Date Received: 7/27/2006

<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	3.23	%		0.01	0.03	EPA 9060A	Sediment	8/16/2006

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:

- * Sample not analyzed in quadruplicate
- * Spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager

8 of 10





Applied Marine Sciences, Inc.

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

QUALITY CONTROL RESULTS

Client: CRG Marine Laboratories
 Project Number: P26160
 Project Name: N/A
 Matrix: Sediment
 Method: EPA 9060A

AMS Project Number: 2006-598-29
 Date Analyzed: 8/16/2006
 Batch ID: 081606-04

Method Blank (Continuing Blank) Results:

AMS Sample ID	Parameter	Result (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits (%)
CB-04	TOC	0.01	U	0.01	0.03	≤ 0.01

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 (% RPD)
CCV-04	TOC	4.75	4.80	1.05		0.01	0.03	≤ 5
ICCV-04	TOC	2.08	2.00	3.92		0.01	0.03	≤ 5

Sample Duplicate Results:

AMS Sample ID	Parameter	Result (%)	Duplicate Result (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits (% RPD)
24710	TOC	0.21	0.21	0.00		0.01	0.03	≤ 25

Samples in Batch (AMS ID):
 24701 24704 24707 24710
 24702 24705 24708
 24703 24706 24709

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:

- * Samples not analyzed in quadruplicate
- * 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.

KS Davis, P.G.

AMS, Inc. Project Manager





Applied Marine Sciences, Inc.

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

QUALITY CONTROL RESULTS

Client: CRG Marine Laboratories
Project Number: P26160
Project Name: N/A
Matrix: Sediment
Method: EPA 9060A

AMS Project Number: 2006-598-29
Date Analyzed: 8/16/2006

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:

- * Samples not analyzed in quadruplicate
- * 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.

KS Davis, P.G.

AMS, Inc. Project Manager

CHAIN-OF-CUSTODY


Chain of Custody Record

P20160

To:
CRG Marine Laboratories
2020 Del Amo Blvd, Suite 200
Torrance, CA 90501
(310) 533-5191
(310) 533-5003 Fax
Contact: Misty Mercier

Date Received:
Lab T#:
COPY
UPW

From:
Kinnetic Laboratories, Inc
307 Washington St.
Santa Cruz, CA 95060
(831) 457-3950
(831) 426-0405 Fax
Contact: Amy Howk



Project: Colorado Lagoon Matrix: Sediment Project #: Complete by: 3 Weeks

SampleID	StationID	Sample Date	Sample Time	Sample Type	metals ^(ST) Analysis	Container	Pres	No. of Bottles	LabID	Condition Upon Receipt
Colorado2006-A	A	7/17/2006	1018	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-B	B	7/17/2006	1038	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-C	C	7/17/2006	1052	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-D	D	7/17/2006	1107	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-E	E	7/17/2006	1129	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-F	F	7/17/2006	1149	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-G	G	7/17/2006	1206	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-H	H	7/17/2006	1225	Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		
Colorado2006-I	I	7/17/2006		Comp	Total DB OC Pesticides, PCB's (Congeners and Aroclors), Particle Size Distribution, % Solids and TOC	8 oz WMGJ	4° c	1		(ST)

Data Report MUST include the following: Sample ID, Analytical Method, Detection Limit, Date of Extraction if applicable, Date of Analysis, Analytical Results and Signature of QA Reviewer. Submit all data in paper and digital formats to KLI. Email digital to edd@kinneticlabs.com. All times on this sheet are military time.

Special Instructions/Comments: Please report in dry weight. ^(ST) Total Trace Metals for all samples. Full Suite Total Metals

Relinquished By: <i>Steen Trump</i>	Date/Time: 7-17-06 16:20	Transporter: KLI	Received By: <i>Geoff Gussert</i>	Date/Time: 7/17/06 9:20
Relinquished By:	Date/Time:	Transporter:	Received By:	Date/Time:



CRG

Marine Laboratories, Inc.

SAMPLE RECEIVING

CRG Project ID

P200160

CLIENT NAME

Kinnetic Labs

DATE RECEIVED

7/17/00

COURIER INFORMATION

- CRG
- FEDEX
- OTHER*
- UPS

TRACKING NUMBER

kinnetic personal delivery

TEMPERATURE

- BLUE ICE
 - WET ICE
 - NO ICE
- 8 °C

Chain-of-Custody

- INCLUDED
- SIGNED
- NOT INCLUDED

SAMPLE MATRIX

- LIQUID
- SOLID
- OTHER*

CONDITION OF SAMPLES UPON ARRIVAL

	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*NOTES

COMPLETED BY: GG

November 27, 2006

Service Request No: K0609296

Katie Scott
Kinnetic Laboratories, Incorporated
307 Washington St.
Santa Cruz, CA 95060

RE: Colorado Lagoon

Dear Katie:

Enclosed are the results of the sample(s) submitted to our laboratory on October 25, 2006. For your reference, these analyses have been assigned our service request number K0609296.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3275. You may also contact me via Email at EErickson@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Elissa Erickson
Project Chemist

EE/lmb

Page 1 of 15

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



00004

**Chain of Custody
Documentation**



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

K0609296

TO: CAS

91000

Client Name Address				Kinnetic Laboratories, Inc. 307 Washington St. Santa Cruz, CA 95060		REQUESTED ANALYSIS														
Sampled By						Wet Pb only														
Project Manager				Katie Scott																
Phone				(831) 457-3950																
FAX				(831) 426-0405																
Email				kscott@kinneticlabs.com																
Project Name/Number				Colorado Lagoon																
Client Sample ID	Sample Date	Sample Time	Sample Matrix*	Container																
				Quantity	Type															
1	Colorado2006-E	17-Jul-06	11:29	Sed	1	glass jar	X													
2	Colorado2006-F	17-Jul-06	11:49	Sed	1	glass jar	X													
3	Colorado2006-G	17-Jul-06	12:06	Sed	1	glass jar	X													
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Correct Containers:				<input checked="" type="radio"/> Yes	<input type="radio"/> No	RELINQUISHED BY														
Sample Temperature:				Ambient	<input checked="" type="radio"/> Cold	<input type="radio"/> Warm	Signature:													
Sample Preservative:				Yes	<input type="radio"/> No	Print: Adam Idell														
Turnaround Time:				<input checked="" type="radio"/> STD	Specify:		Company: CRG Marine Laboratories, Inc.													
Report Format:				<input checked="" type="radio"/> pdf	<input checked="" type="radio"/> EDD	<input type="radio"/> hardcopy	DATE: 10/24/06 TIME: 15:47													
Comments: page 1 of 1 3 samples total please email pdf report to subcontract@crglabs.com						RECEIVED BY														
						Signature:														
						Print: A PAINTER														
						Company: CAS														
						DATE: 10/25/06 TIME: 1000														

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

**Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form**

PC CE

Project/Client Marine Lab. Service Request K06 09296

Cooler received on 10-25-06 and opened on 10-25-06 by DW

1. Were custody seals on outside of coolers?
If yes, how many and where? 1 Front Y N
2. Were custody seals intact? Y N
3. Were signature and date present on the custody seals? Y N
4. Is the shipper's airbill available and filed? If no, record airbill number: Fed Ex enclosed. Y N
5. COC# _____
- Temperature of cooler(s) upon receipt: (°C) 5.5 _____
- Temperature Blank: (°C) NP _____
- Were samples hand delivered on the same day as collection? Y N
6. Were custody papers properly filled out (ink, signed, etc.)? Y N
7. Type of packing material present ice, bubble wrap
8. Did all bottles arrive in good condition (unbroken)? Y N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? Y N
10. Did all bottle labels and tags agree with custody papers? Y N
11. Were the correct types of bottles used for the tests indicated? Y N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ N
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
15. Did the bottles originate from CAS/K or a branch laboratory? Y N
16. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? ~~Y~~ N
17. Was C12/Res negative? ~~Y~~ N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Metals

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -

INORGANIC ANALYSIS DATA PACKAGE

Service Request : K0609296

Client : Kinnetic Laboratories, Incorporated
Project Name : Colorado Lagoon
Project No. :

Sample Name :

Lab Code :

Colorado2006-E
Colorado2006-E
Colorado2006-F
Colorado2006-G
Method Blank

K0609296-001
K0609296-001S
K0609296-002
K0609296-003
K0609296-MB

Comments:

Approved By: _____



Date: _____

11/22/06

00009

Analytical Report

Client : Kinnetic Laboratories, Incorporated
 Project Name : Colorado Lagoon
 Project Number :
 Matrix : Soil

Service Request : K0609296
 Date Collected : 07/17/06
 Date Received : 10/25/06
 Date WET Performed :
 Date Digested: 11/08/06
 Date Analyzed : 11/16/06

Persistent and Bioaccumulative Toxic Substances
 California Waste Extraction Test (WET)
 Metals in WET Extract

Sample Name : Colorado2006-E
 Lab Code : K0609296-001

Units : mg/L (ppm)
 Basis : NA

Analyte	Prep Method	Analysis Method	MRL	Dilution	Regulatory Limit *	Sample Result	Result Notes
Lead, STLC	EPA 3010A	6010B	0.5	2	5.0	5.0	

* State of California Code of Regulations, Title 22, Section 66261.24 and Section 66261.126, Appendix II. For Soluble Chromium see footnote in Title 22 Section 66261.24.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Kinnetic Laboratories, Incorporated
Project Name : Colorado Lagoon
Project Number :
Matrix : Soil

Service Request : K0609296
Date Collected : 07/17/06
Date Received : 10/25/06
Date WET Performed :
Date Digested: 11/08/06
Date Analyzed : 11/16/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)
Metals in WET Extract

Sample Name : Colorado2006-F
Lab Code : K0609296-002

Units : mg/L (ppm)
Basis : NA

Analyte	Prep Method	Analysis Method	MRL	Dilution	Regulatory Limit *	Sample Result	Result Notes
Lead, STLC	EPA 3010A	6010B	0.5	2	5.0	4.7	

* State of California Code of Regulations, Title 22, Section 66261.24 and Section 66261.126, Appendix II. For Soluble Chromium see footnote in Title 22 Section 66261.24.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Kinnetic Laboratories, Incorporated
Project Name : Colorado Lagoon
Project Number :
Matrix : Soil

Service Request : K0609296
Date Collected : 07/17/06
Date Received : 10/25/06
Date WET Performed :
Date Digested: 11/08/06
Date Analyzed : 11/16/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)
Metals in WET Extract

Sample Name : Colorado2006-G
Lab Code : K0609296-003

Units : mg/L (ppm)
Basis : NA

Analyte	Prep Method	Analysis Method	MRL	Dilution	Regulatory Limit *	Sample Result	Result Notes
Lead, STLC	EPA 3010A	6010B	0.5	2	5.0	4.1	

* State of California Code of Regulations, Title 22, Section 66261.24 and Section 66261.126, Appendix II. For Soluble Chromium see footnote in Title 22 Section 66261.24.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Kinnetic Laboratories, Incorporated
Project Name : Colorado Lagoon
Project Number :
Matrix : Soil

Service Request : K0609296
Date Collected : NA
Date Received : NA
Date WET Performed :
Date Digested: 11/08/06
Date Analyzed : 11/16/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)
Metals in WET Extract

Sample Name : Method Blank
Lab Code : K0609296-MB

Units : mg/L (ppm)
Basis : NA

Analyte	Prep Method	Analysis Method	MRL	Dilution	Regulatory Limit *	Sample Result	Result Notes
Lead, STLC	EPA 3010A	6010B	0.3	1	5.0	ND	

* State of California Code of Regulations, Title 22, Section 66261.24 and Section 66261.126, Appendix II. For Soluble Chromium see footnote in Title 22 Section 66261.24.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Kinnetic Laboratories, Incorporated
Project Name : Colorado Lagoon
Project Number :
Matrix : Soil

Service Request : K0609296
Date Collected : 07/17/06
Date Received : 10/25/06
Date WET Performed :
Date Digested: 11/08/06
Date Analyzed : 11/16/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)
Metals in WET Extract

Sample Name : Colorado2006-E
Lab Code : K0609296-001S

Units : mg/L (ppm)
Basis : NA

Analyte	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery*	Result Notes
Lead	5.0	5.0	9.8	96	

* State of California Code of Regulations, Title 22, Section 66261.24 and Section 66261.126, Appendix II. For Soluble Chromium see footnote in Title 22 Section 66261.24.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Kinnetic Laboratories, Incorporated
Project Name : Colorado Lagoon
Project No. :
Matrix : Soil

Service Request : K0609296
Date Collected : NA
Date Received : NA
Date Extracted : 11/08/06
Date Analyzed : 11/16/06

Laboratory Control Sample Summary
Metals

Sample Name : Laboratory Control Sample
Lab Code : K0609296-LCS

Units : mg/L (ppm)
Basis : NA

Analyte	Analysis Method	True Value	Result	Percent	CAS Percent Recovery Acceptance Limits	Result Notes
Lead	6010B	10	9.04	90	85-115	

Comments:

00015

Note to Reader

The Columbia Analytical report K0608642 includes WET results from another project that were batched with the Colorado Lagoon Sample "A". The laboratory report is included with this appendix in its entirety.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
Sample Matrix: Soil

Service Request: K0608642
Date Collected: 7/24-26/06
Date Received: 10/6-10/7
Date WET Performed: 10/10/06
Date Extracted: 10/12/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*

Metals

Units: mg/L (ppm) in WET Extract

	POLA 191/192-D- Top	POLA 197/199 Top
Sample Name:		
Lab Code:	K0608642-001	K0608642-002
Date Analyzed:	10/13/06	10/13/06

Analyte	EPA Method	MRL	STLC*		
Lead	3010A/6010B	0.2	5.0	1.2	0.7

* State of California Code of Regulations, Title 22, Division 4, Chapter 30, Sections 66699 and 66700.
STLC Soluble Threshold Limit Concentration

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
Sample Matrix: Soil

Service Request: K0608642
Date Collected: 7/27-8/17/06
Date Received: 10/6-10/7
Date WET Performed: 10/10/06
Date Extracted: 10/12/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*

Metals

Units: mg/L (ppm) in WET Extract

	POLA 200A Top	Colorado Lagoon 2006-A
Sample Name:	POLA 200A Top	2006-A
Lab Code:	K0608642-003	K0608642-004
Date Analyzed:	10/13/06	10/13/06

Analyte	EPA Method	MRL	STLC*		
Lead	3010A/6010B	0.2	5.0	ND	4.4

* State of California Code of Regulations, Title 22, Division 4, Chapter 30, Sections 66699 and 66700.
STLC Soluble Threshold Limit Concentration

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
Sample Matrix: Soil

Service Request: K0608642
Date Collected: 6/22-30/06
Date Received: 10/6-10/7
Date WET Performed: 10/10/06
Date Extracted: 10/12/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*

Metals

Units: mg/L (ppm) in WET Extract

Sample Name:	195-196	210/211
Lab Code:	K0608642-005	K0608642-006
Date Analyzed:	10/13/06	10/13/06

Analyte	EPA Method	MRL	STLC*		
Lead	3010A/6010B	0.2	5.0	1.2	1.8

* State of California Code of Regulations, Title 22, Division 4, Chapter 30, Sections 66699 and 66700.
STLC Soluble Threshold Limit Concentration

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
Sample Matrix: Soil

Service Request: K0608642
Date Collected: NA
Date Received: NA
Date WET Performed: 10/10/06
Date Extracted: 10/12/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*

Metals

Units: mg/L (ppm) in WET Extract

Sample Name: **Method Blank**
Lab Code: K0608642-MB
Date Analyzed: 10/13/06

Analyte	EPA Method	MRL	STLC*	
Lead	3010A/6010B	0.2	5.0	ND

* State of California Code of Regulations, Title 22, Division 4, Chapter 30, Sections 66699 and 66700.
STLC Soluble Threshold Limit Concentration

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
Sample Matrix: Soil

Service Request: K0608642
Date Collected: 7/24/06
Date Received: 10/6-10/7
Date WET Performed: 10/10/06
Date Extracted: 10/12/06
Date Analyzed: 10/13/06

Duplicate Summary
Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*

Metals

Units: mg/L (ppm) in WET Extract

Sample Name: POLA 191/192-D-Top
Lab Code: K0608642-001D

Analyte	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
Lead	0.2	1.2	1.2	1.2	<1

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
Sample Matrix: Soil

Service Request: K0608642
Date Collected: 7/24/06
Date Received: 10/6-10/7
Date WET Performed: 10/10/06
Date Extracted: 10/12/06
Date Analyzed: 10/13/06

Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*
Matrix Spike Summary

Metals

Units: mg/L (ppm) in WET Extract

Sample Name: POLA 191/192-D-Top
Lab Code: K0608642-001S

Analyte	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery*
Lead	5.0	1.2	5.8	92

* Percent recovery information is provided in order to assess the performance of the method on this matrix.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kinnetic Laboratories, Incorporated
Project: POLA/Colorado Lagoon
LCS Matrix: Soil

Service Request: K0608642
Date Collected: NA
Date Received: NA
Date Analyzed: 10/13/06

Laboratory Control Sample Summary
Persistent and Bioaccumulative Toxic Substances
California Waste Extraction Test (WET)*

Metals

Units: mg/L (ppm) in WET Extract

Source: CAS Spike Solution

Analyte	EPA Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Lead	6010B	10	9.1	91	85-115

APPENDIX L

**COLORADO LAGOON/MARINE STADIUM OPEN CHANNEL ROUTE
SOILS INVESTIGATION, 2008**

Draft

Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation



Prepared for:
LSA Associates and the City of Long Beach

Prepared by:
Kinnetic Laboratories, Inc.
5225 Avenida Encinas, Suite H
Carlsbad, CA 92008

March, 2008



Page Intentionally

Left Blank

—

COLORADO LAGOON/MARINE STADIUM OPEN CHANNEL ROUTE SOILS INVESTIGATION

March, 2008

Table of Contents

1.0	INTRODUCTION AND PURPOSE	1
1.1	Previous Testing.....	1
2.0	STUDY DESIGN	4
2.1	Approach.....	4
3.0	METHODS.....	5
3.1	Sampling Methods	5
3.1.1	Soil Sampling.....	5
3.1.2	Core Processing.....	6
3.1.3	Documentation	7
3.2	Laboratory Testing Methods	7
3.2.1	Bulk Soil Analysis	7
4.0	QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) ASSESSMENT.....	13
5.0	RESULTS AND DISCUSSION	15
5.1	Grain Size Analysis.....	16
5.2	Soil Chemistry.....	18
5.2.1	Trace Metals.....	18
5.2.2	Chlorinated Pesticides and PCBs	18
5.2.3	Phenolics and Phthalates	19
5.2.4	PAHs	19
6.0	CONCLUSIONS.....	24
7.0	REFERENCES CITED.....	24

LIST OF FIGURES

	<i>Page Number</i>
Figure 1. General Vicinity of Study Area for Alternative Open Channel Routes Between Colorado Lagoon and Marine Stadium, Long Beach, California.....	2
Figure 2. Soil Sampling Locations Along the Three Candidate Open Channel Routes Between Colorado Lagoon and Marine Stadium.....	3
Figure 3. Geoprobe Dual Tube Sampler.....	5
Figure 4. Cumulative Particle Size Distribution Curves for Sediments from Marina Vista Park.....	17

LIST OF TABLES

Page Number

Table 1 Analytical Methods and Target Detection Limits on Soil Samples. 8
Table 2. Summary of Core Locations , Depths and Recoveries..... 15
Table 3. Marina Vista Park Soil Grain Size Summary. 16
**Table 4. Summary of Bulk Soil Chemistry Analyses Conducted on Composite Samples
from the Three Open Channel Routes Through Marina Vista Park..... 19**

Appendix A – Core and Activity Logs

Appendix B – Analytical Chemistry Reports

1.0 INTRODUCTION AND PURPOSE

The City of Long Beach has initiated preparation of environmental documentation for restoration and remediation improvements at the Colorado Lagoon. Among the improvements being considered is the creation of an open channel between Colorado Lagoon and Marine Stadium to improve circulation and improve habitat.

The purpose of the present program was to sample and test soils from within the proposed channel routes to provide the soil quality data necessary to evaluate the appropriateness of beneficial reuse within the park. Other disposal options being explored include upland disposal at the Port of Long Beach and upland landfill.

The general study area (Figure 1) is located within the City of Long Beach. The study area consists of land located between Colorado Lagoon and Marine Stadium. The majority of the study area is within the confines of Marina Vista Park. The geographic center located at roughly 33° 46' 12.23"N latitude and 118° 7' 49.67" W longitude.

Three routes are being considered for the creation of an open channel between Colorado Lagoon and Marine Stadium (Figure 2). One route follows the path of existing culvert between the two water bodies. The second route follows this same course for approximately 150 feet as it leaves Colorado Lagoon and crosses East Colorado Street. The route then turns west and runs along Eliot Street until it again intersects the first alignment, following it 200 feet to Marine Stadium. The final route under consideration follows the first course for approximately 200 feet before turning east, arcing southward, and reconnecting again with the first route to Marine Stadium.

The first, straight route will be roughly 900 feet in length and would require excavation of approximately 16,000 cubic yards of soil. The second route is roughly 1,200 feet in length and would require the excavation of approximately 22,000 cubic yards of soil. The third route is roughly 1,100 feet in length and would require approximately 20,000 cubic yards to be excavated.

The findings from the testing program are summarized and compared to soil disposal guidelines for the disposal/reuse options.

1.1 Previous Testing

There has not been any known chemical or physical sampling conducted to characterize soils from Marina Vista Park. Fill material used to create the park is believed to have originated from the excavation of Marine Stadium and channels in Spinnaker Bay. However, no hard evidence is available to confirm this.



Figure 1. General Vicinity of Study Area for Alternative Open Channel Routes Between Colorado Lagoon and Marine Stadium, Long Beach, California



Figure 2. Soil Sampling Locations Along the Three Candidate Open Channel Routes Between Colorado Lagoon and Marine Stadium.

2.0 STUDY DESIGN

2.1 Approach

A total of 18 soil borings were taken along the routes under consideration for the open channel to ensure that the soils were representatively sampled throughout each alignment. A compositing scheme was used to reduce the number of chemical analyses and to screen for the contaminants of concern. All individual core samples were archived such that further testing could potentially be conducted to isolate hot spots if the results of the analysis of any one of the composite samples were elevated. Separate archive samples were taken for strata that exceeded an interval of two feet.

Samples were taken at intervals of approximately 150 feet along each candidate route. This resulted in seven cores along the first, linear route, five cores along the western alignment and six cores along the eastern alignment. Coring methods were used to obtain samples from the surface to the project depth of 12 feet Below Ground Surface (BGS) for the first and second route, and 16 feet BGS for the third candidate route. Soil samples from each of the cores were thoroughly mixed and placed in 500 mL glass jars for analytical and archival purposes. Archives of soil samples for each core will be maintained for a minimum of six months.

For screening purposes, two composite samples were developed for each half of each candidate channel route. Composites were comprised of three to four cores for each half of the three candidate routes. Details of composite strategies are provided in section 4.2.

The composite soil samples were analyzed for particle size, pH, total recoverable petroleum hydrocarbons, total metals, phenols, phthalates, chlorinated pesticides, polynuclear aromatic hydrocarbons, and PCBs.

3.0 METHODS

3.1 Sampling Methods

The following sections summarize methods used to collect, process, document, and analyze soils from within the proposed channel routes through Marina Vista Park.

3.1.1 Soil Sampling

Soil sampling was conducted with a Geoprobe Dual Tube (either model DT325 or DT22) sampling system (Figure 3). The dual tube sampling system was required to enable effective recovery of soil samples from below the water table. Positioning at each coring location was accomplished using a Garmin 76 series differential GPS navigation system, referenced to a local geodetic benchmark, resulting in positioning accuracies of 1 to 3 meters.



Figure 3. Geoprobe Dual Tube Sampler

Continuous soil cores were obtained from each location. Core lengths reached 12 feet for sites within channel routes 1 and 2, and 16 feet for sites within the third channel route. Core lengths were designated in accordance to the design depth for the proposed channel options. A core catcher located on the bottom of each core tube reduced or prevented soil loss during pull-out. Holes created by the sampling operation were backfilled with any excess material and bentonite. All cores were processed on-site.

All sample contact surfaces were pre-cleaned stainless steel, polyethylene, Halar[®], or Teflon[®] coated. Compositing tools were pre-cleaned stainless steel or Halar[®]-coated stainless steel. New, clean core liners were used for each sampling location.

3.1.2 Core Processing

Core liners were split lengthwise to expose the recovered soil and placed in PVC extrusion trays shrouded in clean LDPE liners. Once exposed, soil that came in contact with the core liner was removed by scraping with a pre-cleaned stainless steel spoon. Each core was photographed, measured, and lithologically logged according to the Unified Soil Classification System (USCS). Additional soil characteristics including likely soil origin and other observations were also recorded. Following logging, a vertical composite was taken from each core or core stratum via a vertical scrape protocol that resulted in equal sub-sampling along the entire length of the core or core stratum. Each vertical composite was manually homogenized in a pre-cleaned stainless steel tray. A 500 mL portion of each vertical composite was archived in a glass jar in case future testing is needed. For certain cores, strata were encountered that were greater than 2 feet in length; archival samples were thus taken for each strata. The remaining portion of each vertical composite sample from each core was manually homogenized in a second pre-cleaned stainless steel tray based on composite area. A separate protocol-cleaned compositing vessel was used for each composite area or from each core stratum within a single sample. Each composite area sample was then transferred to certified pre-cleaned sample containers consisting of a 500 ml glass jar with a Teflon[®]-lined lid for the bulk of the analyses.

Compositing of vertical soil cores was conducted according to the following scheme:

Composite Area	Cores
A	12, 1, 2
B	3, 4, 5, 11
C	12, 6, 7, 8
D	9, 10, 11
E	13, 14, 15
F	16, 17, 18

All soil samples were placed on ice immediately following sampling and maintained at 2 to 4°C until analyzed. All samples were handled under Chain of Custody protocols beginning at the time of collection.

3.1.3 Documentation

All samples were handled under Chain of Custody documentation. Individual samples were marked with pre-printed, waterproof labels listing unique alphanumeric identifications. All basic sample identification information was recorded on the chain of custody form, as well as information regarding sampling matrix, analysis, method, and detection limits.

The following information was recorded on core logs for each boring: station identification, date and time, climatic and rainfall data, total coring time, boring coordinates, core number, depth of penetration, core length recovery, core length requirement, sample type and intervals, stratigraphic observations, presence of contamination, and geologic stratum. Completed core are included in Appendix A.

3.2 Laboratory Testing Methods

Most chemical analyses were initiated within two weeks after the collection of samples. Chemical and physical analyses were performed by CRG Marine Laboratories (Cal-ELAP No. 2261), Soil Control Lab (Cal-ELAP 1494) and Aquatic Bioassay and Consulting Environmental Lab (Cal-ELAP No. 2584). All are State-Certified Analytical Laboratories using USEPA and USACE approved methodologies.

3.2.1 Bulk Soil Analysis

Analyses required of the bulk soil composite samples are specified in Table 1 below along with analytical methods and associated Target Reporting Limits. Samples were extracted and analyzed within specified EPA holding times, and all analyses were accomplished with appropriate quality control measures.

Table 1 Analytical Methods and Target Detection Limits on Soil Samples.

	Analytical Method	Target Reporting Limit	Units
PHYSICAL CONVENTIONALS			
Percent Solids	EPA 160.3	0.1	% -wet
pH	EPA 9045C	0.1 ¹	pH units
Particle Size Analysis	Plumb 1981		
METALS			
Antimony (Sb)	EPA 6020M	0.5	mg/kg - dry
Arsenic (As)	EPA 6020M	0.5	mg/kg - dry
Cadmium (Cd)	EPA 6020M	0.5	mg/kg - dry
Chromium (Cr)	EPA 6020M	0.5	mg/kg - dry
Copper (Cu)	EPA 6020M	0.5	mg/kg - dry
Lead (Pb)	EPA 6020M	0.5	mg/kg - dry
Mercury (Hg)	EPA 245.5	0.02	mg/kg - dry
Nickel (Ni)	EPA 6020M	0.5	mg/kg - dry
Selenium (Se)	EPA 6020M	0.5	mg/kg - dry
Silver (Ag)	EPA 6020M	0.5	mg/kg - dry
Zinc (Zn)	EPA 6020M	0.5	mg/kg - dry

1. Indicates resolution, not reporting limit.

Table 1. Analytical Methods and Target Detection Limits on Soil Samples. (continued)

	Analytical Method	Target Reporting Limit	Units
ORGANICS – CHLORINATED PESTICIDES			
(PCB030)	EPA 8270Cm		% rec
(PCB112)	EPA 8270Cm		% rec
(PCB198)	EPA 8270Cm		% rec
(TCMX)	EPA 8270Cm		% rec
2,4'-DDD	EPA 8270Cm	5	µg/kg - dry
2,4'-DDE	EPA 8270Cm	5	µg/kg - dry
2,4'-DDT	EPA 8270Cm	5	µg/kg - dry
4,4'-DDD	EPA 8270Cm	5	µg/kg - dry
4,4'-DDE	EPA 8270Cm	5	µg/kg - dry
4,4'-DDT	EPA 8270Cm	5	µg/kg - dry
Aldrin	EPA 8270Cm	5	µg/kg - dry
BHC-alpha	EPA 8270Cm	5	µg/kg - dry
BHC-beta	EPA 8270Cm	5	µg/kg - dry
BHC-delta	EPA 8270Cm	5	µg/kg - dry
BHC-gamma	EPA 8270Cm	5	µg/kg - dry
Chlordane-alpha	EPA 8270Cm	5	µg/kg - dry
Chlordane-gamma	EPA 8270Cm	5	µg/kg - dry
cis-Nonachlor	EPA 8270Cm	5	µg/kg - dry
Dieldrin	EPA 8270Cm	5	µg/kg - dry
Endosulfan Sulfate	EPA 8270Cm	5	µg/kg - dry
Endosulfan-I	EPA 8270Cm	5	µg/kg - dry
Endosulfan-II	EPA 8270Cm	5	µg/kg - dry
Endrin	EPA 8270Cm	5	µg/kg - dry
Endrin Ketone	EPA 8270Cm	5	µg/kg - dry
Heptachlor	EPA 8270Cm	5	µg/kg - dry
Heptachlor Epoxide	EPA 8270Cm	5	µg/kg - dry
Methoxychlor	EPA 8270Cm	5	µg/kg - dry
Mirex	EPA 8270Cm	5	µg/kg - dry
Oxychlordane	EPA 8270Cm	5	µg/kg - dry
Perthane	EPA 8270Cm	10	µg/kg - dry
Toxaphene	EPA 8270Cm	50	µg/kg - dry
trans-Nonachlor	EPA 8270Cm	5	µg/kg - dry
ORGANICS – GENERAL HYDROCARBONS			
TRPH	EPA 1664HEM/SGT	20	mg/kg - dry
ORGANICS – PCB AROCLORS			
Aroclor 1016	EPA 8270Cm	20	µg/kg - dry
Aroclor 1221	EPA 8270Cm	20	µg/kg - dry
Aroclor 1232	EPA 8270Cm	20	µg/kg - dry
Aroclor 1242	EPA 8270Cm	20	µg/kg - dry
Aroclor 1248	EPA 8270Cm	20	µg/kg - dry
Aroclor 1254	EPA 8270Cm	20	µg/kg - dry
Aroclor 1260	EPA 8270Cm	20	µg/kg - dry

Table 1. Analytical Methods and Target Detection Limits on Soil Samples. (continued)

	Analytical Method	Target Reporting Limit	Units
ORGANICS – PCB CONGENERS			
PCB008	EPA 8270Cm	5	µg/kg - dry
PCB018	EPA 8270Cm	5	µg/kg - dry
PCB028	EPA 8270Cm	5	µg/kg - dry
PCB031	EPA 8270Cm	5	µg/kg - dry
PCB033	EPA 8270Cm	5	µg/kg - dry
PCB037	EPA 8270Cm	5	µg/kg - dry
PCB044	EPA 8270Cm	5	µg/kg - dry
PCB049	EPA 8270Cm	5	µg/kg - dry
PCB052	EPA 8270Cm	5	µg/kg - dry
PCB066	EPA 8270Cm	5	µg/kg - dry
PCB070	EPA 8270Cm	5	µg/kg - dry
PCB074	EPA 8270Cm	5	µg/kg - dry
PCB077	EPA 8270Cm	5	µg/kg - dry
PCB081	EPA 8270Cm	5	µg/kg - dry
PCB087	EPA 8270Cm	5	µg/kg - dry
PCB095	EPA 8270Cm	5	µg/kg - dry
PCB097	EPA 8270Cm	5	µg/kg - dry
PCB099	EPA 8270Cm	5	µg/kg - dry
PCB101	EPA 8270Cm	5	µg/kg - dry
PCB105	EPA 8270Cm	5	µg/kg - dry
PCB110	EPA 8270Cm	5	µg/kg - dry
PCB114	EPA 8270Cm	5	µg/kg - dry
PCB118	EPA 8270Cm	5	µg/kg - dry
PCB119	EPA 8270Cm	5	µg/kg - dry
PCB123	EPA 8270Cm	5	µg/kg - dry
PCB126	EPA 8270Cm	5	µg/kg - dry
PCB128+167	EPA 8270Cm	5	µg/kg - dry
PCB138	EPA 8270Cm	5	µg/kg - dry
PCB141	EPA 8270Cm	5	µg/kg - dry
PCB149	EPA 8270Cm	5	µg/kg - dry
PCB151	EPA 8270Cm	5	µg/kg - dry
PCB153	EPA 8270Cm	5	µg/kg - dry
PCB156	EPA 8270Cm	5	µg/kg - dry
PCB157	EPA 8270Cm	5	µg/kg - dry
PCB158	EPA 8270Cm	5	µg/kg - dry
PCB168+132	EPA 8270Cm	5	µg/kg - dry
PCB169	EPA 8270Cm	5	µg/kg - dry
PCB170	EPA 8270Cm	5	µg/kg - dry
PCB177	EPA 8270Cm	5	µg/kg - dry
PCB180	EPA 8270Cm	5	µg/kg - dry
PCB183	EPA 8270Cm	5	µg/kg - dry
PCB187	EPA 8270Cm	5	µg/kg - dry
PCB189	EPA 8270Cm	5	µg/kg - dry
PCB194	EPA 8270Cm	5	µg/kg - dry
PCB195	EPA 8270Cm	5	µg/kg - dry
PCB200	EPA 8270Cm	5	µg/kg - dry
PCB201	EPA 8270Cm	5	µg/kg - dry
PCB206	EPA 8270Cm	5	µg/kg - dry
PCB209	EPA 8270Cm	5	µg/kg - dry

Table 1. Analytical Methods and Target Detection Limits on Soil Samples. (continued)

	Analytical Method	Target Reporting Limit	Units
ORGANICS – PAHs			
(d10-Acenaphthene)	EPA 8270Cm		% Rec
(d10-Phenanthrene)	EPA 8270Cm		% Rec
(d12-Chrysene)	EPA 8270Cm		% Rec
(d12-Perylene)	EPA 8270Cm		% Rec
(d8-Naphthalene)	EPA 8270Cm		% Rec
1-Methylnaphthalene	EPA 8270Cm	5	µg/kg
1-Methylphenanthrene	EPA 8270Cm	5	µg/kg
2,3,5-Trimethylnaphthalene	EPA 8270Cm	5	µg/kg
2,6-Dimethylnaphthalene	EPA 8270Cm	5	µg/kg
2-Methylnaphthalene	EPA 8270Cm	5	µg/kg
Acenaphthene	EPA 8270Cm	5	µg/kg
Acenaphthylene	EPA 8270Cm	5	µg/kg
Anthracene	EPA 8270Cm	5	µg/kg
Benz[a]anthracene	EPA 8270Cm	5	µg/kg
Benzo[a]pyrene	EPA 8270Cm	5	µg/kg
Benzo[b]fluoranthene	EPA 8270Cm	5	µg/kg
Benzo[e]pyrene	EPA 8270Cm	5	µg/kg
Benzo[g,h,i]perylene	EPA 8270Cm	5	µg/kg
Benzo[k]fluoranthene	EPA 8270Cm	5	µg/kg
Biphenyl	EPA 8270Cm	5	µg/kg
Chrysene	EPA 8270Cm	5	µg/kg
Dibenz[a,h]anthracene	EPA 8270Cm	5	µg/kg
Dibenzothiophene	EPA 8270Cm	5	µg/kg
Fluoranthene	EPA 8270Cm	5	µg/kg
Fluorene	EPA 8270Cm	5	µg/kg
Indeno[1,2,3-c,d]pyrene	EPA 8270Cm	5	µg/kg
Naphthalene	EPA 8270Cm	5	µg/kg
Perylene	EPA 8270Cm	5	µg/kg
Phenanthrene	EPA 8270Cm	5	µg/kg
Pyrene	EPA 8270Cm	5	µg/kg
Total Detectable PAHs	EPA 8270Cm		µg/kg

Table 1. Analytical Methods and Target Detection Limits on Soil Samples. (continued)

	Analytical Method	Target Reporting Limit	Units
ORGANICS - PHTHALATES			
bis(2-Ethylhexyl) Phthalate	EPA 8270Cm	10	µg/kg - dry
Butylbenzyl Phthalate	EPA 8270Cm	10	µg/kg - dry
Diethyl Phthalate	EPA 8270Cm	10	µg/kg - dry
Dimethyl Phthalate	EPA 8270Cm	10	µg/kg - dry
Di-n-butyl Phthalate	EPA 8270Cm	10	µg/kg - dry
Di-n-octyl Phthalate	EPA 8270Cm	10	µg/kg - dry
ORGANICS - PHENOLS			
(2,4,6-Tribromophenol)	EPA 8270Cm		% rec
(d5-Phenol)	EPA 8270Cm		% rec
2,4,6-Trichlorophenol	EPA 8270Cm	100	µg/kg - dry
2,4-Dichlorophenol	EPA 8270Cm	100	µg/kg - dry
2,4-Dimethylphenol	EPA 8270Cm	200	µg/kg - dry
2,4-Dinitrophenol	EPA 8270Cm	200	µg/kg - dry
2-Methylphenol	EPA 8270Cm	100	µg/kg - dry
4-Methylphenol	EPA 8270Cm	100	µg/kg - dry
2-Methyl-4,6-dinitrophenol	EPA 8270Cm	100	µg/kg - dry
2-Chlorophenol	EPA 8270Cm	100	µg/kg - dry
4-Chloro-3-methylphenol	EPA 8270Cm	200	µg/kg - dry
2-Nitrophenol	EPA 8270Cm	200	µg/kg - dry
4-Nitrophenol	EPA 8270Cm	200	µg/kg - dry
Pentachlorophenol	EPA 8270Cm	100	µg/kg - dry
Phenol	EPA 8270Cm	200	µg/kg - dry

4.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) ASSESSMENT

Kinnetic Laboratories conducts its activities in accordance with formal QA/QC procedures. The objectives of the QA/QC Program are to fully document the field and laboratory data collected, to maintain data integrity from the time of field collection to storage at the end of the project, and to produce the highest quality data possible. The program is designed to allow the data to be assessed by the following parameters: Precision, Accuracy, Comparability, Representativeness, and Completeness. These parameters are controlled by adhering to documented methods and procedures (SOPs), and by the analysis of quality control (QC) samples on a routine basis. Appendix C describes QA/QC procedures employed in this program as well as a summary of laboratory QA/QC results.

Field Quality Control includes adherence to SOPs and formal sample documentation. Analytical chemistry Quality Control is formalized by EPA and State Certification agencies, and involves internal quality control checks such as method blanks, matrix spike/spike duplicates, lab duplicates, surrogates and calibration standards.

QA/QC findings presented are based on the validation of the data according to guidance from EPA National Functional Guidelines for inorganic and organic data review (USEPA, 1999 and 2002).

A summary of findings based upon the validation of the data generated by this project is as follows:

- Round one of analyses associated with composites A, B, C and D:
 - Holding times were met for all compounds.
 - Procedural blanks for all analyses were free of contamination
 - Blank spike and spike duplicates for phenols, phthalates, organochlorine pesticides, all PCB congeners (except PCB180), PAHs, and trace metals were recovered within laboratory quality control objectives.
 - QA/QC conducted for PAHs showed evidence of substantial heterogeneity in the QA/QC sample (Composite D). Poor recoveries were common for matrix spikes and spike duplicates and variability associated with both the MS/MSDs and laboratory duplicates were high. This required qualification of results for most PAH compounds (J qualifier).
 - Matrix interferences also impacted recoveries of three out of six DDT compounds (2,4'-DDE, 4,4'-DDE, and 4,4'-DDT) and two major components of chlordane (chlordane-alpha and chlordane-gamma). All compounds except 4,4'-DDE were measured near or below the reporting limits. The results for each of these 6 compounds in the Composite D are considered to be estimates of the true value due to matrix issues.
 - A Certified Reference Material (CRM) and CRM duplicate was used to assess accuracy and precision of trace metals. All analytes were recovered within the certified ranges with duplicates meeting the established RPD limits.

- Round two of analyses associated with composites E and F:
 - Holding times were met for all compounds.
 - All procedural blanks were not detected
 - All blank spike and blank spike duplicates were recovered within Quality Control (QC) limits
 - All matrix spike and matrix spike duplicates were recovered within QC limits

- All lab duplicates fell within RPD limits prescribed by the QC qualifications
- A Certified Reference Material (CRM) and CRM duplicate was used to assess accuracy and precision of trace metals. With the exception of a minor exceedance for arsenic, all analytes were recovered within the certified ranges with duplicates meeting the established RPD limits.

Overall, evaluation of the quality control/quality assurance data indicates that the chemical data met the performance criteria established for this program and can be used reliably for general characterization of soils in the proposed project area. In all cases, the results of blank spike and spike duplicate recoveries indicated that analytical process yielded precise and accurate results in the absence of matrices. Analytical problems were identified in association with analysis of the first set of composites (A through D). These included evidence of a lack of homogeneity of PAHs within the QA/QC sample and matrix interferences with several DDT and chlordane compounds. These types of issues are common in samples that contain PAHs and low levels of organochlorine pesticides. Although this required qualification of a portion of the data set as estimates, it does not significantly impact use of the data for the purpose of evaluating beneficial reuse.

5.0 RESULTS AND DISCUSSION

Field sampling was conducted on December 6th, 2007 and January 30th, 2008. Table 2 provides a summary of the sampling coordinates, target sampling depths based upon actual site conditions, and actual core recovery. Core logs for each of the 18 samples are attached as Appendix A.

Table 2. Summary of Core Locations , Depths and Recoveries.

Core ID	Date	Time	Latitude (°N)	Longitude (°W)	Target Sampling Depth BGS (ft)	Recovered Core Length (ft)
Initial Sample Round						
MPV-1	12/06/07	1448	33.76967	118.13100	12	11.17
MVP-2	12/06/07	1515	33.76943	118.13077	12	8.67
MVP-3	12/06/07	1040	33.76910	118.13048	12	9.42
MVP-4	12/06/07	0938	33.76877	118.13017	12	9.42
MVP-5	12/06/07	1004	33.76860	118.13002	12	9.25
MVP-6	12/06/07	1347	33.76950	118.13140	12	10.67
MVP-7	12/06/07	1321	33.76922	118.13155	12	8.83
MVP-8	12/06/07	1236	33.76891	118.13135	12	9.33
MVP-9	12/06/07	1132	33.76869	118.13101	12	9.92
MVP-10	12/06/07	1105	33.76871	118.13053	12	9.83
MVP-11	12/06/07	0829	33.76833	118.12978	12	7.92
MVP-12	12/06/07	1418	33.77002	118.13129	12	9
Second Sample Round						
MVP-13	01/30/08	1245	33.76952	118.13056	16	16
MVP-14	01/30/08	1209	33.76951	118.13029	16	16
MVP-15	01/30/08	1145	33.76944	118.13004	16	16
MVP-16	01/30/08	1105	33.76926	118.12992	16	15
MVP-17	01/30/08	1020	33.76903	118.12992	16	16
MVP-18	01/30/08	0950	33.76880	118.12992	16	16

5.1 Grain Size Analysis

Grain size distribution data for the six composite samples from Marina Vista Park are presented in Table 3. All analyses were performed using USEPA and USACE approved methodologies by ABC Laboratories under subcontract to CRG Marine Laboratories. All soils consisted predominantly of fine grained (silts and clays) material.

The two composite samples from Route 3 through Marina Vista Park exhibited the greatest consistency (Table 3, Figure 3). Silt-sized particles comprised 63.6 to 64.0 percent of the material samples from Route 3. Cumulative particle size distributions for these two samples are so similar that they are difficult to differentiate in Figure 3.

Grain size composition was slightly more variable within Routes 1 and 2 (Table 3). However, silt sized particles still comprised the greatest percent of material from each of these composites, ranging from 47.4 to 64.4 percent. Composite A from Route 1 through Marina Vista Park contained the greatest silt content (64.4 percent).

Table 3. Marina Vista Park Soil Grain Size Summary.

Analyte Name	Route 1		Route2		Route 3	
	Comp A	Comp B	Comp C	Comp D	Comp E	Comp F
<i>Grain Size (%)</i>						
Sand	20.7	29.9	28.7	39.9	21.9	22.1
Silt	64.4	55.0	56.2	47.4	63.6	64.0
Clay	14.9	15.0	15.2	12.7	14.5	13.8
<i>Conventionals</i>						
Percent Solids (%)	77.6	84.9	85.5	88.4	79.2	82.9



Figure 4. Cumulative Particle Size Distribution Curves for Sediments from Marina Vista Park.

5.2 Soil Chemistry

The results of bulk soil chemistry analysis for composite samples from Marina Vista Park are summarized in Table 4. Data from each composite group were compared to the EPA Region 9's 2004 Preliminary Remediation Goal (PRG) Residential Soil Criteria (USEPA 2004) and the California Code of Regulations, Title 22 Total Threshold Limiting Concentration (TTLC) levels. Values that exceed the PRG are bolded and highlighted in yellow. All results were far below the Title 22 TTLC.

5.2.1 Trace Metals

Arsenic exceeded the PRG for Residential Soils in all composite groups. The arsenic Cal-Modified PRG was based upon contributions from human sources. In fact, background concentrations measured in California soils are several orders of magnitude higher than the PRG value. A survey of background levels of metals in California soils (Bradford et al. 1996) indicates that the average concentration of arsenic is 3.5 mg/kg and values range from 0.6 to 11.0 mg/kg. There is nothing that would suggest arsenic measured in the six composite samples would be anthropogenic.

Barium was added to the analytical suite midway through the project to enable evaluation of potential oil field waste products. Barium is a major component of most drilling muds. Elevated levels of barium, TRPH and PAHs would be considered indicative of waste products from oil field operations. Bradford et al. (1996) indicated that background concentrations of barium concentrations measured in 50 soils averaged 508 mg/kg and ranged from a minimum of 133 mg/kg to a maximum of 1400 mg/kg. Concentrations of barium in all six composites were near or below the minimum level reported by Bradford et al.

Concentrations of most other metals were relatively uniform among composites with the possible exception of lead in the two composites along Route 3 which were both lower than concentrations measured in the other four composites. With the exception of arsenic as discussed above, concentrations of all trace metals were substantially below EPA PRG values for residential soils.

5.2.2 Chlorinated Pesticides and PCBs

Concentrations of most chlorinated pesticides and all Aroclors and PCB congeners were reported below reporting limits. Trace amounts, levels detected between the Method Detection Limit (MDL) and project reporting limit, of several chlordane compounds (alpha-chlordane, gamma-chlordane and transnonachlor) were detected in composites B and D. Both these composites were from the Marine Stadium side of Routes 1 and 2. These two composites also contained the highest concentrations of DDT compounds with 4,4'-DDE being the primary isomer present. Both of the soil composites from Route 3 had no measureable concentrations of organochlorine pesticides or Aroclors reported.

Concentrations of chlorinated pesticides and PCBs in all composites were well within available PRG levels for residential soils.

5.2.3 Phenolics and Phthalates

None of the targeted phenolic compounds or phthalates was present in the composite samples at levels above project reporting limits. One phthalate, Di-n-octyl phthalate, was identified as present in three composites (A, C and D) in concentrations between the MDL and reporting limit. Phthalates are associated with production of plastics and are very common as laboratory contaminants.

5.2.4 PAHs

Polynuclear Aromatic Hydrocarbons (PAHs) show strong spatial trends within the study area. Highest concentrations (742-2944 µg/kg of total PAHs) were encountered in Route 2 composites. The lowest concentrations (13.7-13.9 µg/kg of total PAHs) were measured in composites from Route 3 that is on the eastern side of the study site. None of the PAH compounds found in composites E and F from Route 3 were present at levels exceeding the project detection limits.

Table 4. Summary of Bulk Soil Chemistry Analyses Conducted on Composite Samples from the Three Open Channel Routes Through Marina Vista Park.

Analyte Name	Route 1		Route 2		Route 3		PRG Res. Soil	Title 22 TTLIC Wet Weight
	Comp A	Comp B	Comp C	Comp D	Comp E	Comp F		
<i>Conventional (mg/kg dry unless noted)</i>								
Percent Solids (%)	77.6	84.9	85.5	88.4	79.2	82.9		
pH (pH Units)	8.8	9	9	9.5	8.1	8.4		
TRPH	0.05	0.03	0.27	0.23	0.01J	0.01J		
<i>Total Metals (mg/kg dry)</i>								
Antimony	0.39	0.495	0.389	0.37	0.3	0.3	31.3	
Arsenic	8.7	5.71	6.86	5.08	9	7.9	0.0616 ¹	500
Barium	122	123	138	114	102.9	103.3	5370	10,000
Cadmium	0.148	0.196	0.224	0.175	0.1	0.2	37	100
Chromium	27.8	22	26.1	20.1	25	29.8	211	2,500
Copper	23.1	31.2	20.1	17.4	21.5	22.7	3,130	2,500
Lead	19.8	24.4	32.2	15.1	9.01	11.26	150	1,000
Mercury	0.056	0.05	0.076	0.057	0.08	0.08	23.5	20
Nickel	18.1	14	16.8	13.2	15.8	17.9		2,000
Selenium	0.231	0.2	0.299	0.218	0.2	0.2		100
Silver	0.102	0.111	0.117	0.133	0.2	0.231	391	500
Zinc	78.6	67.4	84.9	53.2	56.1	65	23,500	5,000

1. The arsenic PRG is the California-modified PRG. The value for arsenic is based upon human contributions. In fact, natural background levels are often much higher (OEHHA, 2005).

Table 4. Summary of Bulk Soil Chemistry Analyses Conducted on Composite Samples from the Three Open Channel Routes Through Marina Vista Park. (continued)

Analyte Name	Route 1		Route 2		Route 3		PRG Res. Soil	Title 22 TTLIC Wet Weight
	Comp A	Comp B	Comp C	Comp D	Comp E	Comp F		
<i>Chlorinated Pesticides (ug/kg dry)</i>								
2,4'-DDT	2.5J	5U	5U	5U	5U	5U	1,720	
2,4'-DDE	5U	1.3J	5U	2.4J	5U	5U	1,720	
2,4'-DDD	5U	5U	5U	5U	5U	5U	2,440	
4,4'-DDT	5U	4.3J	5U	5UJ	5U	5U	1,720	1,000
4,4'-DDE	5U	15.2	4.4J	29J	5U	5U	1,720	1,000
4,4'-DDD	5.1	4.6J	3.7J	4.2J	5U	5U	2,440	1,000
Total DDT	7.6	25.4	8.1	35.6J	0	0	1,720	1,000
Aldrin	5U	5U	5U	5U	5U	5U	28.6	1,400
Dieldrin	5U	5U	5U	5U	5U	5U	30.4	8,000
Endrin	5U	5U	5U	5U	5U	5U	18,300	200
Endrin ketone	5U	5U	5U	5U	5U	5U		
Endrin aldehyde	5U	5U	5U	5U	5U	5U		
Endosulfan I	5U	5U	5U	5U	5U	5U	367,000	
Endosulfan II	5U	5U	5U	5U	5U	5U	367,000	
Endosulfan sulfate	5U	5U	5U	5U	5U	5U		
alpha-BHC	5U	5U	5U	5U	5U	5U		
beta-BHC	5U	5U	5U	5U	5U	5U		
delta-BHC	5U	5U	5U	5U	5U	5U		
gamma-BHC (Lindane)	5U	5U	5U	5U	5U	5U		4,000
Methoxychlor	5U	5U	5U	5U	5U	5U	306,000	100,000
Mirex	5U	5U	5U	5U	5U	5U	270	21,000
Perthane	10U	10U	10U	10U	10U	10U		
Toxaphene	50U	50U	50U	50U	50U	50U	442	5,000
Heptachlor epoxide	5U	5U	5U	5U	5U	5U	53.4	
Heptachlor	5U	5U	5U	5U	5U	5U	108	4,700
alpha-Chlordane	5U	3.2J	5U	1J	5U	5U		
gamma-Chlordane	5U	2.9J	5U	1.1J	5U	5U		
Oxychlordane	5U	5U	5U	5U	5U	5U		
cis-Nonachlor	5U	5U	5U	5U	5U	5U		
trans-Nonachlor	5U	1.2J	5U	5U	5U	5U		
Total Chlordane	0	7.3	0	2.1J	0	0		

Table 4. Summary of Bulk Soil Chemistry Analyses Conducted on Composite Samples from the Three Open Channel Routes Through Marina Vista Park. (continued)

Analyte Name	Route 1		Route 2		Route 3		PRG Res. Soil	Title 22 TTLIC Wet Weight
	Comp A	Comp B	Comp C	Comp D	Comp E	Comp F		
<i>Aroclors (ug/kg dry)</i>								
Aroclor 1016	20U	20U	20U	20U	20U	20U	3,930	
Aroclor 1221	20U	20U	20U	20U	20U	20U	222	
Aroclor 1232	20U	20U	20U	20U	20U	20U	222	
Aroclor 1242	20U	20U	20U	20U	20U	20U	222	
Aroclor 1248	20U	20U	20U	20U	20U	20U	222	
Aroclor 1254	20U	20U	20U	20U	20U	20U	222	
Aroclor 1260	20U	20U	20U	20U	20U	20U	222	
Total Aroclors	0	0	0	0	0	0		
<i>PCB Congeners (ug/kg dry)</i>								
PCB008	5U	5U	5U	5U	5U	5U		
PCB018	5U	5U	5U	5U	5U	5U		
PCB028	5U	5U	5U	5U	5U	5U		
PCB031	5U	5U	5U	5U	5U	5U		
PCB033	5U	5U	5U	5U	5U	5U		
PCB037	5U	5U	5U	5U	5U	5U		
PCB044	5U	5U	5U	5U	5U	5U		
PCB049	5U	5U	5U	5U	5U	5U		
PCB052	5U	5U	5U	5U	5U	5U		
PCB066	5U	5U	5U	5U	5U	5U		
PCB070	5U	5U	5U	5U	5U	5U		
PCB074	5U	5U	5U	5U	5U	5U		
PCB077	5U	5U	5U	1.2J	5U	5U		
PCB081	5U	5U	5U	5U	5U	5U		
PCB087	5U	5U	5U	5U	5U	5U		
PCB095	5U	5U	5U	5U	5U	5U		
PCB099	5U	5U	5U	5U	5U	5U		
PCB101	5U	5U	5U	5U	5U	5U		
PCB105	5U	5U	5U	5U	5U	5U		
PCB110	5U	5U	5U	5U	5U	5U		
PCB114	5U	5U	5U	5U	5U	5U		
PCB118	5U	5U	5U	5U	5U	5U		
PCB119	5U	5U	5U	5U	5U	5U		
PCB123	5U	5U	5U	5U	5U	5U		
PCB126	5U	5U	5U	5U	5U	5U		
PCB128	5U	5U	5U	5U	5U	5U		
PCB138	5U	5U	5U	5U	2.2J	5U		
PCB141	5U	5U	5U	5U	5U	5U		
PCB149	5U	5U	5U	5U	1.7J	5U		
PCB151	5U	5U	5U	5U	5U	5U		

Table 4. Summary of Bulk Soil Chemistry Analyses Conducted on Composite Samples from the Three Open Channel Routes Through Marina Vista Park. (continued)

Analyte Name	Route 1		Route 2		Route 3		PRG Res. Soil	Title 22 TTLIC Wet Weight
	Comp A	Comp B	Comp C	Comp D	Comp E	Comp F		
<i>PCB Congeners (ug/kg dry) (continued)</i>								
PCB153	5U	5U	5U	5U	1.6J	5U		
PCB156	5U	5U	5U	5U	5U	5U		
PCB157	5U	5U	5U	5U	5U	5U		
PCB158	5U	5U	5U	5U	5U	5U		
PCB167	5U	5U	5U	5U	5U	5U		
PCB168+132	5U	5U	5U	5U	5U	5U		
PCB169	5U	5U	5U	5U	5U	5U		
PCB170	5U	5U	5U	5U	5U	5U		
PCB177	5U	5U	5U	5U	5U	5U		
PCB180	5UJ	5UJ	5UJ	5UJ	2J	5U		
PCB183	5U	5U	5U	5U	5U	5U		
PCB187	5U	5U	5U	5U	5U	5U		
PCB189	5U	5U	5U	5U	5U	5U		
PCB194	5U	5U	5U	5U	5U	5U		
PCB195	5U	5U	5U	5U	5U	5U		
PCB200	5U	5U	5U	5U	5U	5U		
PCB201	5U	5U	5U	5U	5U	5U		
PCB206	5U	5U	5U	5U	5U	5U		
PCB209	5U	5U	5U	5U	5U	5U		
Total PCB Congeners	0	0	0	1.2J	7.5J	0		
<i>Phenolic Compounds (ug/kg dry)</i>								
2,4,6-Trichlorophenol	100U	100U	100U	100U	100U	100U	6,950	
2,4-Dichlorophenol	100U	100U	100U	100U	100U	100U	183,000	
2,4-Dimethylphenol	200U	200U	200U	200U	200U	200U	1,220,000	
2,4-Dinitrophenol	200U	200U	200U	200U	200U	200U	122,000	
2-Chlorophenol	100U	100U	100U	100U	100U	100U	63,400	
2-Methyl-4,6-dinitrophenol	200U	200U	200U	200U	200U	200U		
2-Nitrophenol	200U	200U	200U	200U	200U	200U		
4-Chloro-3-methylphenol	200U	200U	200U	200U	200U	200U		
4-Nitrophenol	200U	200U	200U	200U	200U	200U		
Pentachlorophenol	100U	100U	100U	100U	100U	100U	2,980	50,000
Phenol	200U	200U	200U	200U	200U	200U	18,300,000	
Total Phenolic Compounds	0	0	0	0	0	0		
<i>Phthalates (ug/kg dry)</i>								
bis-(2-Ethylhexyl)phthalate	125U	125U	125U	125U	125U	125U		
Di-n-octyl phthalate	13.2J	20U	10.3J	16.2J	20U	20U	2,440,000	
Diethyl phthalate	125U	125U	125U	125U	125U	125U	48,900,000	
Di-n-butyl phthalate	100U	100U	100U	100U	100U	100U		
Benzyl butyl phthalate	50U	50U	50U	50U	50U	50U	12,200,000	
Dimethyl phthalate	75U	75U	75U	75U			100,000,000	
					75U	75U		

Table 4. Summary of Bulk Soil Chemistry Analyses Conducted on Composite Samples from the Three Open Channel Routes Through Marina Vista Park. (continued)

Analyte Name	Route 1		Route 2		Route 3		PRG Res. Soil	Title 22 TTLIC Wet Weight
	Comp A	Comp B	Comp C	Comp D	Comp E	Comp F		
<i>PAHs (ug/kg dry)</i>								
Phenanthrene	4.2J	2.6J	663	115J	5U	5U		
Naphthalene	5U	5U	26.7	26.5J	5U	5U	1,700	
Fluorene	5U	5U	217	18.4J	5U	5U	2,750,000	
Dibenzothiophene	5U	5U	59	12.4J	5U	5U		
Biphenyl	5U	5U	40	4J	5U	5U		
Anthracene	9.8	1.1J	177	22J	5U	5U	21,900,000	
Acenaphthylene	5U	5U	2.9J	5U	5U	5U		
Acenaphthene	1.4J	5U	259	17J	5U	5U	3,680,000	
2-Methylnaphthalene	5U	5U	72.4	18.2J	5U	5U		
2,6-Dimethylnaphthalene	1.2J	5U	68	20J	5U	5U		
2,3,5-Trimethylnaphthalene	5U	5U	16.7	8	5U	5U		
1-Methylphenanthrene	5U	1.2J	36.7	24.9J	5U	5U		
1-Methylnaphthalene	5U	5U	82.4	19.3J	5U	5U		
Total Low Weight PAHs	16.6	4.9	1662	293J	0	0		
Pyrene	12.4	8.3	279	67J	2.3J	2.1J	2,320,000	
Perylene	79.5	15.4	148	139J	2.3J	5.6J		
Indeno(1,2,3-cd)pyrene	2.8J	3.6J	16.5	7.6J	5U	5U	621	
Fluoranthene	2.9J	6.7	437	65.7J	1.8J	1.7J	2,290,000	
Dibenzo(a,h)anthracene	2.9J	1.3J	10.7	6.4	5U	5U		
Chrysene	24.4	8.5	105	52.3J	2.6J	1.7J	3,780	
Benzo(k)fluoranthene	5.2	8.7	48	13.9J	5U	5U	378	
Benzo(g,h,i)perylene	11.5	7.8	24.7	15.5	1.2J	1J		
Benzo(e)pyrene	17.5	8.9	45.5	23.7	5U	1.6J		
Benzo(b)fluoranthene	4.5J	7	49.6	25.1J	1.5J	5U	621	
Benzo(a)pyrene	3J	5.1	36.2	12.9J	1.2J	5U	62.1	
Benzo(a)anthracene	4.9J	3.2J	82.1	19.6J	1J	5U	621	
Total High Weight PAHs	171.5	84.5	1282	449J	13.9	13.7		
Total PAHs	188	89.4	2944	742J	13.9	13.7		

U= Not measured above reported sample reporting limit.
 J= The result is an estimated quantity.
 UJ= Not detected, limit of detection is considered an estimate.

6.0 CONCLUSIONS

The results of this field investigation indicate that soils along all three candidate open channel routes being considered are free of contaminants at levels that would cause concern for reuse as surface soils within Marina Park. Of the three routes being considered, soils along Route 3 were found to be the least impacted by human activities. Analysis of the two soil composites along this route resulted indicated that all organochlorine pesticides, Aroclors, PCB congeners and PAHs were below project reporting limits. A very limited number of these analytes were reported to be present in the samples in extremely trace amounts which were defined as between the MDL and project reporting limits.

7.0 REFERENCES CITED

- CCR Title 22 Division 4.5 Environmental Health Standards for the Management of Hazardous Waste Chapter 11. Identification and Listing of Hazardous Waste Article 3. Characteristics of Hazardous Waste §66261.24 Characteristics of Toxicity.
- Bradford, G. R., A. C. Change, A. L. Page, D. Bakhtar, J. A. Frampton, and H. Wright. 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California.
- Plumb, R.H. 1981. Procedures for handling and chemical analysis of soil and water samples, Technical Report EPA/CE-81-1. U.S. Army Engineer, Waterways Experiment Station, Vicksburg, MS.
- United States Environmental Protection Agency (USEPA), 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review. EPA 540-R-99/008.
- United States Environmental Protection Agency (USEPA), 2001 USEPA Contract Laboratory Program, National Functional Guidelines for Low Concentration Organic Data Review. EPA540-R-00-006.
- United States Environmental Protection Agency (USEPA), 2002. USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review. EPA 540-R-01-008
- United States Environmental Protection Agency (USEPA), 2004. Preliminary Remediation Goals (<http://www.epa.gov/region09/waste/sfund/prg/index.html>), accessed 3/18/2008.

Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation

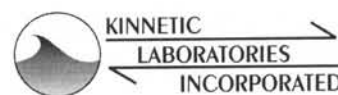
Appendix A

Core Logs

Page Intentionally

Left Blank

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



Oceanographic Research
 Santa Cruz, CA
 831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: MVP-01

KLI CREW: Burns, Novak

DATE: DEC 2007

SAMPLING EQUIPMENT: Geoprobe Dual Tube

WEATHER:

RIG OPERATOR: Vironex, Inc.

WIND:

NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 1448

COORDINATES: North

COORDINATES: West

TIDAL STAGE:

TARGET SAMPLING DEPTH: 12' bgs

SAMPLE LENGTH NEEDED: 12'

NETRATION/RECOVERY: 12' / 134" (11' 2")

TOTAL CORING TIME:

CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS: SPLIT @ 51" } 104"
 2 ARCHIVES
 (1-60")
 (60-134")

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC CLAY		5"
SANDY CLAY BROWN		19"
ORANGE MOTTLING BROWN CLAY HARD		32"
SANDY CLAY MIXED W/ GRAVEL WHITE BROWN RED MOTTLING		46"
SAND		60"
SANDY CLAY GAY		79"
DARK MOTT ↓		92"
GREY CLAY		98"
SMOOTH HIGH PLASTICITY		134"

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



KINETIC
 LABORATORIES
 INCORPORATED

Oceanographic Research
 Santa Cruz, CA
 831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: MVP-02
DATE: DEC 2007
WEATHER:
WIND:

KLI CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 1515
COORDINATES: North
COORDINATES: West
TIDAL STAGE:
TARGET SAMPLING DEPTH: 12' bgs
SAMPLE LENGTH NEEDED: 12'
NETRATION/RECOVERY: 11' , 104" (8', 8")
TOTAL CORING TIME:
CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:
 SPLIT @ 53", 92"
 HIT ROOT @ 11"
 1 ARCHIVE TAKEN

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC CLAY		3"
BROWN CLAY		11"
SHELLS		12"
BROWN CLAY		29"
BROWN CLAY RED, MOTTLED MORE SILT		43"
SANDY GRAVEL MIXED w/ SILTY CLAY		61"
SOME COBBLES @ 52"		
DARK BROWN/GRAY CLAY		88"
LITTLE MOTTLING (BLACK, THROUGHOUT ORANGE)		
COBBLES		92"
SILTY CLAY w/ GRAVEL		104"

PHOTO ID FOR MVP - 4

<p>PROJECT</p> <p style="text-align: center;">Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation</p>	<p style="text-align: center;">KINETIC LABORATORIES INCORPORATED</p> <p style="text-align: center;">Oceanographic Research Santa Cruz, CA 831-457-3950</p> <p style="text-align: right; font-weight: bold; font-size: 1.2em;">ORIGIN</p>
--	--

SOIL SAMPLING LOG SHEET

<p>SITE ID: MVP - 03</p> <p>DATE: DEC 10 2007</p> <p>WEATHER:</p> <p>WIND:</p>	<p>KLI CREW: Burns, Novak</p> <p>SAMPLING EQUIPMENT: Geoprobe Dual Tube</p> <p>RIG OPERATOR: Vironex, Inc.</p> <p>NAVIGATION TYPE & DATUM: DGPS, NAD 83</p>
--	---

<p>TIME: 1040</p> <p>COORDINATES: North</p> <p>COORDINATES: West</p> <p>TIDAL STAGE:</p> <p>TARGET SAMPLING DEPTH: 12' bgs</p> <p>SAMPLE LENGTH NEEDED: 12'</p> <p>NETRATION/RECOVERY: n/114" (9'5")</p> <p>TOTAL CORING TIME:</p> <p>CORE INTERVAL SAMPLED:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">SAMPLE ID. #</th> <th style="width:30%;">ANALYSIS</th> <th style="width:40%;">QUANTITY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>COMMENTS:</p> <p style="font-size: 1.2em;">CORE SPLIT @ 51" } 91"</p> <p style="font-size: 1.2em;">2 ARCHIVES</p> <p style="font-size: 1.2em;">(1" - 75")</p> <p style="font-size: 1.2em;">(75" - 114")</p>	SAMPLE ID. #	ANALYSIS	QUANTITY										<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:80%;">DESCRIPTION OF MATERIAL</th> <th style="width:20%;">DEPTH</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">MUDLINE</td> <td> </td> </tr> <tr> <td style="text-align: center;">ORGANICS Brown CLAY</td> <td style="text-align: center;">-4"</td> </tr> <tr> <td style="text-align: center;">HARD CLAY</td> <td> </td> </tr> <tr> <td style="text-align: center;">LT. SOME MOTTLING BROWN</td> <td style="text-align: center;">-27"</td> </tr> <tr> <td style="text-align: center;">BROWNISH ORANGE HIGH PLASTICITY CLAY</td> <td style="text-align: center;">-54"</td> </tr> <tr> <td style="text-align: center;">ROCK LAYER</td> <td style="text-align: center;">-57"</td> </tr> <tr> <td style="text-align: center;">HIGH PLASTICITY CLAY BROWN, EVEN</td> <td style="text-align: center;">-75"</td> </tr> <tr> <td style="text-align: center;">SANDY CLAY - TAN</td> <td> </td> </tr> <tr> <td style="text-align: center;">SANDY CLAY - GREY</td> <td style="text-align: center;">-92"</td> </tr> <tr> <td style="text-align: center;">GREY SOFT CLAY SILTY</td> <td style="text-align: center;">-108" 114"</td> </tr> </tbody> </table>	DESCRIPTION OF MATERIAL	DEPTH	MUDLINE		ORGANICS Brown CLAY	-4"	HARD CLAY		LT. SOME MOTTLING BROWN	-27"	BROWNISH ORANGE HIGH PLASTICITY CLAY	-54"	ROCK LAYER	-57"	HIGH PLASTICITY CLAY BROWN, EVEN	-75"	SANDY CLAY - TAN		SANDY CLAY - GREY	-92"	GREY SOFT CLAY SILTY	-108" 114"
SAMPLE ID. #	ANALYSIS	QUANTITY																																	
DESCRIPTION OF MATERIAL	DEPTH																																		
MUDLINE																																			
ORGANICS Brown CLAY	-4"																																		
HARD CLAY																																			
LT. SOME MOTTLING BROWN	-27"																																		
BROWNISH ORANGE HIGH PLASTICITY CLAY	-54"																																		
ROCK LAYER	-57"																																		
HIGH PLASTICITY CLAY BROWN, EVEN	-75"																																		
SANDY CLAY - TAN																																			
SANDY CLAY - GREY	-92"																																		
GREY SOFT CLAY SILTY	-108" 114"																																		

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



SOIL SAMPLING LOG SHEET

SITE ID: MVP-04
DATE: DEC 6 2007
WEATHER: MOSTLY CLOUDY
WIND:

KLI CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83


TIME: 0930
COORDINATES: North
COORDINATES: West
TIDAL STAGE:
TARGET SAMPLING DEPTH: 12' bgs
SAMPLE LENGTH NEEDED: 12'
NETRATION/RECOVERY: 2/113" (9'5")
TOTAL CORING TIME:
CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:
 SPLIT @ 55" & 87"
 DARK BLACK @ 76"
 2 ARCHIVES
 TAKEN (TOP & BOTTOM)
 (1" - 48" TOP)
 (48" - 116" BOT)

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC CLAY DARK BROWN		- 6"
BROWN w/ ORANGE (IRON?) MOTTLING HIGH PLASTICITY CLAY		- 37"
GRAYS, BROWNS SANDY CLAY MED PLS.		- 48"
LOBBLES		- 60"
GRAVEL MIXED w/ SANDY-SILT		- 75"
SAND		- 87"
GREY SANDY/SILTY CLAY		- 98"
MED PLASTICITY GRAY CLAY (SOFT)		- 116"

PHOTO ID SAYS MUP 4

<p>PROJECT</p> <h2 style="text-align: center;">Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation</h2>	 <p>KINNETIC LABORATORIES INCORPORATED</p> <p>Oceanographic Research Santa Cruz, CA 831-457-3950</p>
---	--

SOIL SAMPLING LOG SHEET

<p>SITE ID: MUP-5</p> <p>DATE: DEC 6 2007</p> <p>WEATHER:</p> <p>WIND:</p>	<p>KLI CREW: Burns, Novak</p> <p>SAMPLING EQUIPMENT: Geoprobe Dual Tube</p> <p>RIG OPERATOR: Vironex, Inc.</p> <p>NAVIGATION TYPE & DATUM: DGPS, NAD 83</p>
--	---

	DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
TIME: 1004	ORGANIC CLAYS		-5"
COORDINATES: North			
COORDINATES: West	BROWNS & ORANGES HARD PAN CLAY		-21"
TIDAL STAGE:			
TARGET SAMPLING DEPTH: 12' bgs			
SAMPLE LENGTH NEEDED: 12'	SANDY CLAY TAN/ORANGE		-34"
NETRATION/RECOVERY: 2/11" (9'3")			
TOTAL CORING TIME:	WHITE AREA		-36"
CORE INTERVAL SAMPLED:			
SAMPLE ID. #	ANALYSIS	QUANTITY	
	HIGH PLASTICITY CLAY BROWNISH ORANGE		-52"

<p>COMMENTS:</p> <p>SPLIT @ 48" & 88"</p> <p>2 ARCHIVES (1"-51") DISTINCT (51"-111") COLOR CHANGE</p>	<p>MED HIGH PLASTICITY CLAY DARK GRAY -91"</p> <p>SILTY SAND, SOME KINGS -109"</p> <p>SOFT GREY CLAY -111"</p>
--	--

PROJECT

**Colorado Lagoon/Marine Stadium
Open Channel Route Soils Investigation**



SOIL SAMPLING LOG SHEET

SITE ID: MVP-06

DATE: DEC 6 2007

WEATHER:

WIND:

KLI CREW: Burns, Novak

SAMPLING EQUIPMENT: Geoprobe Dual Tube

RIG OPERATOR: Vironex, Inc.

NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 12:47

COORDINATES: North

COORDINATES: West

TIDAL STAGE:

TARGET SAMPLING DEPTH: 12' bgs

SAMPLE LENGTH NEEDED: 12'

NETRATION/RECOVERY: 12 / 128" (10'8")

TOTAL CORING TIME:

CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

SPLIT @ 51", 110"

SINGLE ARCHIVE
TAKEN

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC		4"
BROWN CLAY w/ SOME SANDS		21"
SANDY, GRAVELLY CLAY		29"
DARK BROWN CLAY HIGH PLASTICITY (HP) HEAVY MOTTLING IN AREAS SOME (RED, ORANGE & GREEN)		59"
DARK GREY HP CLAY		87"
BLACK GRAVEL/SAND		94"
DARK GREY CLAY		128"

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



SOIL SAMPLING LOG SHEET

SITE ID: MVP-07
DATE: DEC 6 2007
WEATHER:
WIND:

KLI CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 1321
COORDINATES: North
COORDINATES: West
TIDAL STAGE:
TARGET SAMPLING DEPTH: 12' bgs
SAMPLE LENGTH NEEDED: 12'
NETRATION/RECOVERY: 12' / 106" (8'10")
TOTAL CORING TIME:
CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS: SPLIT @ 51" & 86"
 2 ARCHIVES (1-65")
 (65-106")

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC		5"
TAN Silty CLAY LOW MOISTURE		17"
HIGH PLASTICITY CLAY BROWN & ORANGE MOTTLING		41"
SANDY CLAY		51"
↑ SAMPLE AREA LOST ↓		60"
SANDY CLAY		65"
SANDY GRAVEL		73"
SILTY CLAY w/ SOME SAND		80"
HIGH SHEEN ROCK/GRAVEL w/ Silty CLAY		94"
BLACK SANDY GRAVEL LOOKS LIKE ASPHALT		106"

Slight Hydrocarbon odor

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



SOIL SAMPLING LOG SHEET

SITE ID: MVP-09
DATE: DEC 10 2007
WEATHER:
WIND:


KLI CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 1236
COORDINATES: North
COORDINATES: West
TIDAL STAGE:
TARGET SAMPLING DEPTH: 12' bgs
SAMPLE LENGTH NEEDED: 12'
NETRATION/RECOVERY: 12' / 112" (9' 4")
TOTAL CORING TIME:
CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:
 SPLIT @ 56" } 106"
 2 ARCHIVES
 (1" - 59")
 (59" - 112")

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC		- 2"
BROWN CLAY LOW MOISTURE		- 34"
FINE SANDS SILTY CLAY GRAY		- 59"
BLACK GRAVEL W/ CONCRETE W/CLAY		- 71"
SILTY CLAY W/ GRAVEL		- 88"
GRAVELLY SANDY CLAY W/ SHEEN		- 91"
RED MOTTLING		- 92"
SANDY CLAY H PLASTICITY		- 100"
SANDY GRAVEL		- 112"

<p>PROJECT</p> <h2 style="text-align: center;">Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation</h2>	 <p>KINNETIC LABORATORIES INCORPORATED</p> <p>Oceanographic Research Santa Cruz, CA 831-457-3950</p>
---	--

SOIL SAMPLING LOG SHEET

<p>SITE ID: MVP-09</p> <p>DATE: DEC 6 2007</p> <p>WEATHER:</p> <p>WIND:</p>	<p>KLI CREW: Burns, Novak</p> <p>SAMPLING EQUIPMENT: Geoprobe Dual Tube</p> <p>RIG OPERATOR: Vironex, Inc.</p> <p>NAVIGATION TYPE & DATUM: DGPS, NAD 83</p>
---	---

<p>TIME: 1132</p> <p>COORDINATES: North</p> <p>COORDINATES: West</p> <p>TIDAL STAGE:</p> <p>TARGET SAMPLING DEPTH: 12' bgs</p> <p>SAMPLE LENGTH NEEDED: 12'</p> <p>NETRATION/RECOVERY: 11' / 107" (8' 11")</p> <p>TOTAL CORING TIME:</p> <p>CORE INTERVAL SAMPLED:</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:80%;">DESCRIPTION OF MATERIAL</th> <th style="width:20%;">DEPTH</th> </tr> </thead> <tbody> <tr> <td>SANDY CLAY BROWNS & ORANGE</td> <td style="text-align: center;">- 8"</td> </tr> <tr> <td>HIGH PLASTICITY CLAY BROWN</td> <td style="text-align: center;">- 21"</td> </tr> <tr> <td>LOOSE SEDIMENT SANDY, SOME SED LOST IN RETRIEVAL</td> <td style="text-align: center;">- 27"</td> </tr> <tr> <td>HI PLASTICITY FINE CLAY WHITE AREAS</td> <td style="text-align: center;">- 32"</td> </tr> <tr> <td>CLAY, DARK GREY W/ ORANGE AREAS</td> <td style="text-align: center;">- 58"</td> </tr> <tr> <td>SILTY CLAY W/ GRAVEL & ROCK MOSTLY ROCK</td> <td style="text-align: center;">- 101"</td> </tr> <tr> <td>DEEP RED, ROCK</td> <td style="text-align: center;">- 104"</td> </tr> <tr> <td></td> <td style="text-align: center;">- 107"</td> </tr> </tbody> </table>	DESCRIPTION OF MATERIAL	DEPTH	SANDY CLAY BROWNS & ORANGE	- 8"	HIGH PLASTICITY CLAY BROWN	- 21"	LOOSE SEDIMENT SANDY, SOME SED LOST IN RETRIEVAL	- 27"	HI PLASTICITY FINE CLAY WHITE AREAS	- 32"	CLAY, DARK GREY W/ ORANGE AREAS	- 58"	SILTY CLAY W/ GRAVEL & ROCK MOSTLY ROCK	- 101"	DEEP RED, ROCK	- 104"		- 107"
DESCRIPTION OF MATERIAL	DEPTH																		
SANDY CLAY BROWNS & ORANGE	- 8"																		
HIGH PLASTICITY CLAY BROWN	- 21"																		
LOOSE SEDIMENT SANDY, SOME SED LOST IN RETRIEVAL	- 27"																		
HI PLASTICITY FINE CLAY WHITE AREAS	- 32"																		
CLAY, DARK GREY W/ ORANGE AREAS	- 58"																		
SILTY CLAY W/ GRAVEL & ROCK MOSTLY ROCK	- 101"																		
DEEP RED, ROCK	- 104"																		
	- 107"																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">SAMPLE ID. #</th> <th style="width:35%;">ANALYSIS</th> <th style="width:35%;">QUANTITY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID. #	ANALYSIS	QUANTITY																
SAMPLE ID. #	ANALYSIS	QUANTITY																	
<p>COMMENTS:</p> <p style="text-align: center;">SPLIT @ 48" to 91"</p> <p style="text-align: center;">2 ARCHIVES (1-58" 58"-107")</p>																			

BOTTOM 1' LOST
(HIT CONCRETE)

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



SOIL SAMPLING LOG SHEET

SITE ID: MVP-10
DATE: DEC 6 2007
WEATHER: OVERCAST
WIND: S WIND

KLI CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 1105
COORDINATES: North
COORDINATES: West
TIDAL STAGE:
TARGET SAMPLING DEPTH: 12' bgs
SAMPLE LENGTH NEEDED: 12'
NETRATION/RECOVERY: 12'/118" (9'10")
TOTAL CORING TIME:
CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:
 SPLIT @ 52" $\frac{2}{3}$ 100"
 2 ARCHIVES
 (1" - 53")
 (53" - 118")

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
ORGANIC		-3"
HARD CLAY HIGH PLASTICITY		-27"
11 ORANGE MOTTLING		-47"
SANDY CLAY GRAY		-58"
SILTY CLAY w/ GRAVEL ? CONCRETE		-84"
SOFT GREY CLAY		-93"
SILTY CLAY w/ GRAVEL, CONCRETE, ASPHALT ?		-118"

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



**KINNETIC
 LABORATORIES
 INCORPORATED**

Oceanographic Research
 Santa Cruz, CA
 831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: MVP-11
DATE: DEC 6 2007
WEATHER: MOSTLY CLOUDY
WIND:

KLI CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83


TIME: 0829
COORDINATES: North
COORDINATES: West
TIDAL STAGE:
TARGET SAMPLING DEPTH: 12' bgs
SAMPLE LENGTH NEEDED: 12' PENETRATION
NETRATION/RECOVERY: 95" (7'11")
TOTAL CORING TIME:
CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:
 95" (7'11")
 recovery
 2 ARCHIVES TAKEN
 LB-MVP-11-T (TOP)
 LB-MVP-11-B (BOTTOM)
 SPLIT @ 50" for archive

DESCRIPTION OF MATERIAL	DEPTH
GRASS SWORM @ SURFACE MUDLINE	
BROWN CLAY (CL)	- 7"
clayey sand dark tan	- 17"
BROWN w/ORANGE (near?) MOTTLING CL	- 22"
CLAYEY SAND	- 26"
CL BROWN	- 32"
clayey sand	- 43"
CL	- 48"
SPR GRAVELLY SAND	SPLIT - 50"
	- 81"
MOTTLING YELLOWS, GRAYS, BROWNS	- 95"

BOTTOM 2' LOST

<p>PROJECT</p> <h2 style="text-align: center;">Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation</h2>	<div style="text-align: center;">  <p>KINETIC LABORATORIES INCORPORATED</p> <p>Oceanographic Research Santa Cruz, CA 831-457-3950</p> </div>
---	--

SOIL SAMPLING LOG SHEET

<p>SITE ID: MVP-12</p> <p>DATE: DEC 2007</p> <p>WEATHER:</p> <p>WIND:</p>	<p>KLI CREW: Burns, Novak</p> <p>SAMPLING EQUIPMENT: Geoprobe Dual Tube</p> <p>RIG OPERATOR: Vironex, Inc.</p> <p>NAVIGATION TYPE & DATUM: DGPS, NAD 83</p>
---	---

<p>TIME: 1418</p> <p>COORDINATES: North</p> <p>COORDINATES: West</p> <p>TIDAL STAGE:</p> <p>TARGET SAMPLING DEPTH: 12' bgs</p> <p>SAMPLE LENGTH NEEDED: 12'</p> <p>NETRATION/RECOVERY: 12' / 108" (9')</p> <p>TOTAL CORING TIME:</p> <p>CORE INTERVAL SAMPLED:</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:80%;">DESCRIPTION OF MATERIAL</th> <th style="width:10%;">MUDLINE</th> <th style="width:10%;">DEPTH</th> </tr> </thead> <tbody> <tr> <td>ORGANIC</td> <td></td> <td style="text-align: right;">-2.5"</td> </tr> <tr> <td>TAN, SANDY CLAY</td> <td></td> <td style="text-align: right;">-7"</td> </tr> <tr> <td>HARD CLAY HIGH PLASTICITY</td> <td></td> <td style="text-align: right;">-14"</td> </tr> <tr> <td>SANDY GRAVEL w/ ROCK RED ROCK</td> <td></td> <td style="text-align: right;">-29"</td> </tr> <tr> <td>GRAVELLY SAND</td> <td></td> <td style="text-align: right;">-39"</td> </tr> <tr> <td>SED. LOST</td> <td></td> <td style="text-align: right;">-50"</td> </tr> <tr> <td>WELL GRADED SAND TAN</td> <td></td> <td style="text-align: right;">-67"</td> </tr> <tr> <td>SILTY CLAY COHESIVE EVEN GRAY</td> <td></td> <td style="text-align: right;">-108"</td> </tr> </tbody> </table>	DESCRIPTION OF MATERIAL	MUDLINE	DEPTH	ORGANIC		-2.5"	TAN, SANDY CLAY		-7"	HARD CLAY HIGH PLASTICITY		-14"	SANDY GRAVEL w/ ROCK RED ROCK		-29"	GRAVELLY SAND		-39"	SED. LOST		-50"	WELL GRADED SAND TAN		-67"	SILTY CLAY COHESIVE EVEN GRAY		-108"
DESCRIPTION OF MATERIAL	MUDLINE	DEPTH																										
ORGANIC		-2.5"																										
TAN, SANDY CLAY		-7"																										
HARD CLAY HIGH PLASTICITY		-14"																										
SANDY GRAVEL w/ ROCK RED ROCK		-29"																										
GRAVELLY SAND		-39"																										
SED. LOST		-50"																										
WELL GRADED SAND TAN		-67"																										
SILTY CLAY COHESIVE EVEN GRAY		-108"																										

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

SPLIT @ 39" → 78"

SEDIMENT LOST FROM
39" - 50" (LOOSE SAND,
FELL OUT WHEN
CORING)

2 ARCHIVES
(1-68"; 68"-108")

ODOR - SULFUR

PROJECT

Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation



KINETIC
LABORATORIES
INCORPORATED

Oceanographic Research
Santa Cruz, CA
831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: LB-MVP-13

CREW: Burns, Novak

DATE: Jan 30, 2008

SAMPLING EQUIPMENT: Geoprobe Dual Tube

WEATHER: SUNNY

RIG OPERATOR: Vironex, Inc.

WIND/SEAS: W WIND ~ 10+ MPH

NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 12:45

COORDINATES: North - 33.76951°

COORDINATES: West 118.13056°

WATER DEPTH: NA

TIDAL STAGE: NA

MUDLINE DEPTH (MLLW): NA

TARGET SAMPLING DEPTH: 116'

SAMPLE LENGTH NEEDED: 116'

PENETRATION/RECOVERY: 116' / 116'

CORE INTERVAL SAMPLED:

SAMPLE ID. #

ANALYSIS

QUANTITY

COMMENTS:

2 ARCHIVES TAKEN
LB-MVP-13-T (0"-97")
LB-MVP-13-B (97"-192")

ODOR- SULFUR NEAR
BOTTOM 2' OF
CORE

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
COMPRESSION VOID		0"
GRASS, ORGANIC BROWN		12"
BROWN SILTY SAND		23"
SANDY SILT MORE COHESIVE		30"
SILTY CLAY HARD		41"
CLAY WITH BLACK ASPHALT + RED BRICK PIECES		48"
POORLY GRADED SAND		59"
CV		72"
POORLY GRADED SAND		83"
SOME CLAY	↓	92"
SILTY SAND		97"
GRAY CLAYEY SILT		192"

PROJECT

Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation



KINETIC
LABORATORIES
INCORPORATED

Oceanographic Research
Santa Cruz, CA
831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: LB-MVP-14

DATE: Jan 30, 2008

WEATHER: SUNNY

WIND/SEAS: W WIND 10MPH

TIME: 12:09

COORDINATES: North 33.76951

COORDINATES: West 118.13029

WATER DEPTH: NA

TIDAL STAGE: NA

MUDLINE DEPTH (MLLW): NA

TARGET SAMPLING DEPTH: 16'

SAMPLE LENGTH NEEDED: 16'

PENETRATION/RECOVERY: 16'/16'

CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

1 ARCHIVE TAKEN
SHALLOW LAYERING W/
TRANSITIONING BETWEEN

CREW: Burns, Novak

SAMPLING EQUIPMENT: Geoprobe Dual Tube

RIG OPERATOR: Vironex, Inc.

NAVIGATION TYPE & DATUM: DGPS, NAD 83

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
COMPRESSION VOID (CV)		-12"
GRASS, ORGANIC		-18"
GRAY-BROWN SANDY SILT		-29"
SANDY SILT		-46"
POORLY GRADED SAND	↓ MORE SAND	-60"
CV		-66"
SAND W/ CLAYEY SILT (BROWN)		-72"
CLAYEY SILT BROWN		-80"
CLAYEY SILT GRAY		-96"
SANDY SILT		-117"
SILTY CLAY GRAY		-146"
GRAY, SILTY SAND		-192"

PROJECT

Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation



KINETIC
LABORATORIES
INCORPORATED

Oceanographic Research
Santa Cruz, CA
831-457-3950

ORIGINAL

SOIL SAMPLING LOG SHEET

SITE ID: LB-MVP-15

CREW: Burns, Novak

DATE: Jan 30, 2008

SAMPLING EQUIPMENT: Geoprobe Dual Tube

WEATHER: SUNNY

RIG OPERATOR: Vironex, Inc.

WIND/SEAS:

NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 11:45

COORDINATES: North 33.76944°

COORDINATES: West 118.13004°

WATER DEPTH: NA

TIDAL STAGE: NA

MUDLINE DEPTH (MLLW): NA

TARGET SAMPLING DEPTH: 16'

SAMPLE LENGTH NEEDED: 16'

PENETRATION/RECOVERY: 16'/16'

CORE INTERVAL SAMPLED:

SAMPLE ID. #

ANALYSIS

QUANTITY

COMMENTS:

2 ARCHIVES TAKEN

LB-MVP-15-T (0"-117")

LB-MVP-15-B (117"-192")

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
COMPRESSION VOID (CV)		-12"
GRASS ORGANIC, BROWN		-17"
BROWN, SOFT SANDY SILT		-33"
↓ MORE MOISTURE		-47"
SILTY SAND		-51"
CLAYEY SILT W/ SOME SAND		-60"
GRAY CLAYEY SILT		-84"
ORANGE SANDY CLAY		-117"
		-182"
COARSE, MOIST SAND		-192"

PROJECT

**Colorado Lagoon/Marine Stadium
Open Channel Route Soils Investigation**



SOIL SAMPLING LOG SHEET

SITE ID: LB-MVP-16

DATE: Jan 30, 2008

WEATHER: SUNNY

WIND/SEAS:

CREW: Burns, Novak

SAMPLING EQUIPMENT: Geoprobe Dual Tube

RIG OPERATOR: Vironex, Inc.

NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 11:05

COORDINATES: North 33.76926°

COORDINATES: West 118.12992°

WATER DEPTH: NA

TIDAL STAGE: NA

MUDLINE DEPTH (MLLW): NA

TARGET SAMPLING DEPTH: 16'

SAMPLE LENGTH NEEDED: 16'

PENETRATION/RECOVERY: 16' / 15'

CORE INTERVAL SAMPLED:

SAMPLE ID. #	ANALYSIS	QUANTITY

COMMENTS:

1 ARCHIVE TAKEN
LOTS OF SHALLOW LAYERS,
W/ SMOOTH TRANSITIONS

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
COMPRESSION VOID (CV)		19"
BROWN, ORGANIC		27"
BROWN SILT		36"
SANDY SILT, BROWN		50"
POORLY GRADED SILTY SAND		78"
GRAY, SILTY SAND TO SANDY SILT		99"
GRAY SANDY SILT		120"
SOFT, LIGHT GRAY CLAY		143"
SILTY SAND GRAY		159"
BROWNISH COARSE SAND		180"
BOTTOM 1' LOST DUE TO HEAVING SANDS		180"

CRIGIN

PROJECT

Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation



**KINNETIC
LABORATORIES
INCORPORATED**

Oceanographic Research
Santa Cruz, CA
831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: LB-MVP-17

DATE: Jan 30, 2008

WEATHER: SUNNY

WIND/SEAS:

CREW: Burns, Novak

SAMPLING EQUIPMENT: Geoprobe Dual Tube

RIG OPERATOR: Vironex, Inc.

NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 1020

COORDINATES: North 33° 46' 08.51707

COORDINATES: West 118° 7' 47.70147

WATER DEPTH: NA

TIDAL STAGE: NA

MUDLINE DEPTH (MLLW): NA

TARGET SAMPLING DEPTH: 16' BGS

SAMPLE LENGTH NEEDED: 16'

PENETRATION/RECOVERY: 16' / 16'

CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
DARK BROWN	ORGANIC SANDY SILT	4"
	CV	7"
	SANDY SILT	13"
YELLOW-BROWN (TAN)	POORLY GRADED SAND	32"
	CV	59"
	POORLY GRADED SAND	66"
	POORLY GRADED SAND	78"
	↓ SOME MORE CLAY MOISTURE	81"
		89"
	GRAY, CLAYEY SILT HIGH PLASTICITY	118"
	↓	
	GRAY, CLAYEY SILT	171"
	GRAY, SANDY, CLAYEY SILT w/ DEBRIS (SHELLS)	181"
	↓	
		192"

SAMPLE ID. # MVP-17	ANALYSIS	QUANTITY

COMMENTS:

2 ARCHIVES TAKEN
 LB-MVP-17-T 0"-89"
 LB-MVP-17-B 89"-192"

PROJECT
**Colorado Lagoon/Marine Stadium
 Open Channel Route Soils Investigation**



**KINNETIC
 LABORATORIES
 INCORPORATED**
 Oceanographic Research
 Santa Cruz, CA
 831-457-3950

SOIL SAMPLING LOG SHEET

SITE ID: LB-MVP-18
DATE: Jan 30, 2008
WEATHER: SUNNY
WIND/SEAS:

CREW: Burns, Novak
SAMPLING EQUIPMENT: Geoprobe Dual Tube
RIG OPERATOR: Vironex, Inc.
NAVIGATION TYPE & DATUM: DGPS, NAD 83

TIME: 09:50
COORDINATES: North 33.76880°
COORDINATES: West 118.12991°
WATER DEPTH: NA
TIDAL STAGE: NA
MUDLINE DEPTH (MLLW): NA
ARGET SAMPLING DEPTH: 16' BGS
SAMPLE LENGTH NEEDED: 16'
PENETRATION/RECOVERY: 16' / 16'
CORE INTERVAL SAMPLED:

DESCRIPTION OF MATERIAL	MUDLINE	DEPTH
DARK BROWN	ORGANIC	4"
	SANDY SILT	22"
	SILTY SAND MIXED W/ CLAY	36"
	POORLY GRADED SAND	53"
	COMPRESSION VOID (CV)	72"
	POORLY GRADED SAND	89"
	CLAYEY SILT (GRAY)	112"
		152"
	SANDY SILT (GRAY)	170"
		192" (16')

SAMPLE ID. #	ANALYSIS	QUANTITY
MVP-18		

COMMENTS: 2 ARCHIVES TAKEN
 SAND LB-MVP-18-T (0"-89")
 SILT LB-MVP-18-B (89"-192")

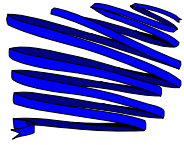
Colorado Lagoon/Marine Stadium Open Channel Route Soils Investigation

Appendix B

Analytical Chemistry Reports

Page Intentionally

Left Blank



CRG

Marine
Laboratories, Inc.

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

January 07, 2008

Kinnetic Laboratories, Inc.
307 Washington St.
Santa Cruz, CA 95060

Re: CRG Marine Laboratories
Kinnetic Laboratories, Inc.

Project ID: P27166c
Project ID: Colorado Lagoon/

ATTN: Amy Howk

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your Colorado Lagoon/
Colorado Lagoon/Marine Stadium S project. According to the chain-of-custody, 4 samples were received intact
at CRG on 12/10/2007. Per your instructions, the samples were analyzed for:

- Percent Solids Using Method EPA 160.3
- pH Using Method SM 4500 H+
- TRPH Using Method SM 5520 E
- Trace Metals By ICPMS Using Method EPA 6020m
- Mercury (Hg) By CVAFS Using Method EPA 245.7m
- Acid Extractable Compounds By GCMS Using Method EPA 8270Cm
- Aroclor PCBs By GCMS Using Method EPA 8270Cm
- Base/Neutral Extractable Compounds By GCMS Using Method EPA 8270Cm
- Chlorinated Pesticides By GCMS Using Method EPA 8270Cm
- PCB Congeners By GCMS Using Method EPA 8270Cm
- Polynuclear Aromatic Hydrocarbons By GCMS Using Method EPA 8270Cm

The following analysis were subcontracted to other laboratories, results are included:

- Grain Size

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Claire Waggoner

Reviewed and Approved _____

Project Sample List

Kinnetic Laboratories, Inc.

CRG Project ID: **27166c**

Project Officer: Amy Howk

Project Description: Colorado Lagoon/

<i>CRG Sample ID#</i>	<i>Client Sample ID</i>	<i>Sample Description</i>	<i>Date Sampled</i>	<i>Matrix</i>
60907	LB-MVP-COMP-A	COMP-A	06-Dec-07	Sediment
60908	LB-MVP-COMP-B	COMP-B	06-Dec-07	Sediment
60909	LB-MVP-COMP-C	COMP-C	06-Dec-07	Sediment
60910	LB-MVP-COMP-D	COMP-D	06-Dec-07	Sediment

CRG's QUALITY ASSURANCE PROGRAM SUMMARY

BATCH: CRG's Quality Assurance Program Document defines a batch as a group of 20 or fewer samples of similar matrix, processed together under the same conditions and with the same reagents. Quality control samples are associated with each batch and are used to assess the validity of the sample analyses. CRG typically uses batch sizes of 10-15 samples.

PROCEDURAL BLANKS: Laboratory contamination was controlled through the analysis of procedural blanks on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that all procedural blanks be below 10 times the MDL and all detectable constituents in the blanks be flagged in the sample results. The Procedural Blanks are presented in the Procedural Blank section of this report.

ACCURACY: Accuracy of the project data was indicated by analysis of matrix spikes, surrogate spikes, certified reference materials, positive controls, and/or laboratory control materials on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits. The Acceptance Ranges are presented in the Accuracy Data section of this report.

PRECISION: Precision of the project data was determined by analysis of duplicate matrix spikes, blank spikes, and/or duplicate test sample analysis on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that for 95% of the compounds >10 times the MDL, the % Relative Percent Difference (%RPD) should be within the specified acceptance range. The %RPD for the duplicate test sample analysis can be significantly affected by the homogeneity of the sample matrix within the sample container itself causing additional variability in the analytical results. In these cases, the QA/QC Acceptance Limits may be exceeded. The %RPD and Acceptance Ranges are presented in the Precision Data section of this report.

GLOSSARY OF TERMS

<u>Qualifier</u>	<u>Definition</u>
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeds the calibration range
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
M1	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference.
M2	The MS/MSD RPD was out of control due to matrix interference.
M3	Detection of the analyte was difficult due to matrix interference.
M4	Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.
ND or U	Parameter not detected at the indicated reporting limit.
NES	Not enough sample.
Q1	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.
Q2	The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.
Q3	RPD values are not accurate and not applicable because the results for R1 and/or R2 are lower than 10 times the MDL.
R	Analyte was removed by the sample preparation/extraction procedure as seen by the MS/MSD recoveries. RPD acceptance ranges do not apply.

Qualifier Summary for P27166c

Base/Neutral Extractable Compounds

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
60907-R1	LB-MVP-COMP-A	J	Di-n-octyl Phthalate
60909-R1	LB-MVP-COMP-C	J	Di-n-octyl Phthalate
60910-R1	LB-MVP-COMP-D	J	Di-n-octyl Phthalate
60910-R2	LB-MVP-COMP-D	J	Di-n-octyl Phthalate

Qualifier Summary for P27166c

Chlorinated Pesticides

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
60908-R1	LB-MVP-COMP-B	J	2,4'-DDE
60910-R1	LB-MVP-COMP-D	J	2,4'-DDE
60910-R2	LB-MVP-COMP-D	J	2,4'-DDE
60907-R1	LB-MVP-COMP-A	J	2,4'-DDT
60908-R1	LB-MVP-COMP-B	J	4,4'-DDD
60909-R1	LB-MVP-COMP-C	J	4,4'-DDD
60910-R1	LB-MVP-COMP-D	J	4,4'-DDD
60910-R2	LB-MVP-COMP-D	J,Q3	4,4'-DDD
60909-R1	LB-MVP-COMP-C	J	4,4'-DDE
60908-R1	LB-MVP-COMP-B	J	4,4'-DDT
60908-R1	LB-MVP-COMP-B	J	Chlordane-alpha
60910-R1	LB-MVP-COMP-D	J	Chlordane-alpha
60908-R1	LB-MVP-COMP-B	J	Chlordane-gamma
60910-R1	LB-MVP-COMP-D	J	Chlordane-gamma
60910-R2	LB-MVP-COMP-D	J	Chlordane-gamma
60908-R1	LB-MVP-COMP-B	J	trans-Nonachlor

Qualifier Summary for P27166c

PCB Congeners

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
60910-R1	LB-MVP-COMP-D	J	PCB077
60910-R2	LB-MVP-COMP-D	J,Q3	PCB077
60910-R2	LB-MVP-COMP-D	J,Q3	PCB095
60910-R2	LB-MVP-COMP-D	J	PCB168+132
60910-R2	LB-MVP-COMP-D	J,Q3	PCB195

Qualifier Summary for P27166c

Polynuclear Aromatic Hydrocarbons

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
60910-R2	LB-MVP-COMP-D	Q2	1-Methylnaphthalene
60908-R1	LB-MVP-COMP-B	J	1-Methylphenanthrene
60910-MS2	LB-MVP-COMP-D	Q2	1-Methylphenanthrene
60910-R2	LB-MVP-COMP-D	Q2	1-Methylphenanthrene
60910-R2	LB-MVP-COMP-D	Q2	2,3,5-Trimethylnaphthalene
60907-R1	LB-MVP-COMP-A	J	2,6-Dimethylnaphthalene
60910-MS2	LB-MVP-COMP-D	Q2	2,6-Dimethylnaphthalene
60910-R2	LB-MVP-COMP-D	Q2	2,6-Dimethylnaphthalene
60910-R2	LB-MVP-COMP-D	Q2	2-Methylnaphthalene
60907-R1	LB-MVP-COMP-A	J	Acenaphthene
60910-MS2	LB-MVP-COMP-D	Q2	Acenaphthene
60910-R2	LB-MVP-COMP-D	Q2	Acenaphthene
60909-R1	LB-MVP-COMP-C	J	Acenaphthylene
60910-R2	LB-MVP-COMP-D	J	Acenaphthylene
60908-R1	LB-MVP-COMP-B	J	Anthracene
60910-MS2	LB-MVP-COMP-D	Q2	Anthracene
60907-R1	LB-MVP-COMP-A	J	Benz[a]anthracene
60908-R1	LB-MVP-COMP-B	J	Benz[a]anthracene
60910-MS2	LB-MVP-COMP-D	Q2	Benz[a]anthracene
60910-R2	LB-MVP-COMP-D	Q2	Benz[a]anthracene
60907-R1	LB-MVP-COMP-A	J	Benzo[a]pyrene
60910-MS2	LB-MVP-COMP-D	Q2	Benzo[a]pyrene
60910-R2	LB-MVP-COMP-D	Q2	Benzo[a]pyrene
60907-R1	LB-MVP-COMP-A	J	Benzo[b]fluoranthene
60910-R2	LB-MVP-COMP-D	Q3	Benzo[b]fluoranthene
60910-R2	LB-MVP-COMP-D	Q2	Benzo[e]pyrene
60910-R2	LB-MVP-COMP-D	Q2	Benzo[k]fluoranthene
60910-R1	LB-MVP-COMP-D	J	Biphenyl
60910-R2	LB-MVP-COMP-D	Q2	Biphenyl
60910-MS2	LB-MVP-COMP-D	Q2	Chrysene
60910-R2	LB-MVP-COMP-D	Q2	Chrysene
60907-R1	LB-MVP-COMP-A	J	Dibenz[a,h]anthracene
60908-R1	LB-MVP-COMP-B	J	Dibenz[a,h]anthracene
60910-R2	LB-MVP-COMP-D	Q3	Dibenz[a,h]anthracene
60910-MS2	LB-MVP-COMP-D	Q2	Dibenzothiophene
60907-R1	LB-MVP-COMP-A	J	Fluoranthene

Qualifier Summary for P27166c

Polynuclear Aromatic Hydrocarbons

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
60910-MS2	LB-MVP-COMP-D	Q2	Fluoranthene
60910-MS2	LB-MVP-COMP-D	Q2	Fluorene
60907-R1	LB-MVP-COMP-A	J	Indeno[1,2,3-c,d]pyrene
60908-R1	LB-MVP-COMP-B	J	Indeno[1,2,3-c,d]pyrene
60910-MS2	LB-MVP-COMP-D	Q2	Indeno[1,2,3-c,d]pyrene
60910-MS1	LB-MVP-COMP-D	Q1	Naphthalene
60910-MS2	LB-MVP-COMP-D	Q1	Naphthalene
60910-R2	LB-MVP-COMP-D	Q2	Naphthalene
60910-MS1	LB-MVP-COMP-D	Q1	Perylene
60910-MS2	LB-MVP-COMP-D	Q2	Perylene
60907-R1	LB-MVP-COMP-A	J	Phenanthrene
60908-R1	LB-MVP-COMP-B	J	Phenanthrene
60910-MS1	LB-MVP-COMP-D	Q1	Phenanthrene
60910-MS2	LB-MVP-COMP-D	Q1	Phenanthrene
60910-MS2	LB-MVP-COMP-D	Q2	Pyrene

DATA REPORT

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
(2,4,6-Tribromophenol)	NA	58			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d5-Phenol)	NA	35			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Chlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Pentachlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60908-R1	LB-MVP-COMP-BCOMP-B				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
(2,4,6-Tribromophenol)	NA	71			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d5-Phenol)	NA	45			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Chlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Pentachlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Phenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60909-R1 LB-MVP-COMP-CCOMP-C				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07		
(2,4,6-Tribromophenol)	NA	66			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d5-Phenol)	NA	43			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Chlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Pentachlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60910-R1 LB-MVP-COMP-DCOMP-D				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07		
(2,4,6-Tribromophenol)	NA	73			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d5-Phenol)	NA	48			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Chlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4-Nitrophenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Pentachlorophenol	NA	ND	50	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenol	NA	ND	100	200	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Aroclor 1016	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1221	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1232	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1242	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1248	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1254	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1260	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60908-R1	LB-MVP-COMP-BCOMP-B				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Aroclor 1016	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1221	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1232	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1242	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1248	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1254	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1260	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60909-R1	LB-MVP-COMP-CCOMP-C				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Aroclor 1016	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1221	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1232	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1242	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1248	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1254	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1260	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60910-R1	LB-MVP-COMP-DCOMP-D				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Aroclor 1016	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1221	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1232	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1242	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1248	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1254	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aroclor 1260	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Diethyl Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dimethyl Phthalate	NA	ND	50	75	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-octyl Phthalate	NA	13.2	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
60908-R1	LB-MVP-COMP-BCOMP-B					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Diethyl Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dimethyl Phthalate	NA	ND	50	75	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-octyl Phthalate	NA	ND	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
60909-R1	LB-MVP-COMP-CCOMP-C					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Diethyl Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dimethyl Phthalate	NA	ND	50	75	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-octyl Phthalate	NA	10.3	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
60910-R1	LB-MVP-COMP-DCOMP-D					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Diethyl Phthalate	NA	ND	100	125	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Dimethyl Phthalate	NA	ND	50	75	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Di-n-octyl Phthalate	NA	16.2	10	20	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
(PCB030)	NA	64			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(PCB112)	NA	75			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(PCB198)	NA	83			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(TCMX)	NA	64			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDD	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDE	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDT	NA	2.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
4,4'-DDD	NA	5.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4,4'-DDE	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4,4'-DDT	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-alpha	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-beta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-delta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-gamma	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chlordane-alpha	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chlordane-gamma	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
cis-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dicofol	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dieldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-I	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-II	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Aldehyde	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Ketone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Heptachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Kepone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Methoxychlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Mirex	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Oxychlorthane	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perthane	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Toxaphene	NA	ND	10	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
trans-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60908-R1	LB-MVP-COMP-BCOMP-B	Sediment				Sampled: 06-Dec-07	Received: 10-Dec-07			
(PCB030)	NA	73			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(PCB112)	NA	77			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(PCB198)	NA	84			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(TCMX)	NA	73			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDD	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDE	NA	1.3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
2,4'-DDT	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4,4'-DDD	NA	4.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
4,4'-DDE	NA	15.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4,4'-DDT	NA	4.3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Aldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-alpha	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-beta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-delta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-gamma	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chlordane-alpha	NA	3.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Chlordane-gamma	NA	2.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
cis-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
DCEPA (Dacthal)	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dicofol	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dieldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-I	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-II	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Aldehyde	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Ketone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Kepone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Methoxychlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Mirex	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Oxychlorane	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perthane	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Toxaphene	NA	ND	10	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
trans-Nonachlor	NA	1.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J

60909-R1	LB-MVP-COMP-COMP-C	Sediment				Sampled: 06-Dec-07	Received: 10-Dec-07		
(PCB030)	NA	72			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
(PCB112)	NA	72			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
(PCB198)	NA	70			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
(TCMX)	NA	72			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
2,4'-DDD	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
2,4'-DDE	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
2,4'-DDT	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
4,4'-DDD	NA	3.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm J
4,4'-DDE	NA	4.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm J

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
4,4'-DDT	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-alpha	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-beta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-delta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-gamma	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chlordane-alpha	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chlordane-gamma	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
cis-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dicofol	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dieldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-I	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-II	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Aldehyde	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Ketone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Kepone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Methoxychlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Mirex	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Oxychlordane	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perthane	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Toxaphene	NA	ND	10	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
trans-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60910-R1

LB-MVP-COMP-DCOMP-D

Sediment

Sampled: 06-Dec-07

Received: 10-Dec-07

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
(PCB030)	NA	62			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(PCB112)	NA	65			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(PCB198)	NA	63			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(TCMX)	NA	63			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDD	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,4'-DDE	NA	2.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
2,4'-DDT	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4,4'-DDD	NA	4.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
4,4'-DDE	NA	29	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
4,4'-DDT	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Aldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-alpha	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-beta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-delta	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
BHC-gamma	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chlordane-alpha	NA	1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Chlordane-gamma	NA	1.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
cis-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dicofol	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dieldrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-I	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endosulfan-II	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Aldehyde	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Endrin Ketone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRL Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Kepone	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Methoxychlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Mirex	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Oxychlorane	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perthane	NA	ND	5	10	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Toxaphene	NA	ND	10	50	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
trans-Nonachlor	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

General Chemistry

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Percent Solids	NA	77.6	0.1	0.1	Percent	27166c	12/18/2007	12/18/2007	EPA 160.3	
pH	NA	8.8	0.1	0.2	pH Units	27166c-5016001	12/19/2007	12/19/2007	SM 4500 H+	
TRPH	NA	0.05	0.01	0.02	% Dry Weight	27166c-5026001	12/18/2007	12/18/2007	SM 5520 E	
60908-R1	LB-MVP-COMP-BCOMP-B				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Percent Solids	NA	84.9	0.1	0.1	Percent	27166c	12/18/2007	12/18/2007	EPA 160.3	
pH	NA	9	0.1	0.2	pH Units	27166c-5016001	12/19/2007	12/19/2007	SM 4500 H+	
TRPH	NA	0.03	0.01	0.02	% Dry Weight	27166c-5026001	12/18/2007	12/18/2007	SM 5520 E	
60909-R1	LB-MVP-COMP-CCOMP-C				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Percent Solids	NA	85.5	0.1	0.1	Percent	27166c	12/18/2007	12/18/2007	EPA 160.3	
pH	NA	9	0.1	0.2	pH Units	27166c-5016001	12/19/2007	12/19/2007	SM 4500 H+	
TRPH	NA	0.27	0.01	0.02	% Dry Weight	27166c-5026001	12/18/2007	12/18/2007	SM 5520 E	
60910-R1	LB-MVP-COMP-DCOMP-D				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
Percent Solids	NA	88.4	0.1	0.1	Percent	27166c	12/18/2007	12/18/2007	EPA 160.3	
pH	NA	9.5	0.1	0.2	pH Units	27166c-5016001	12/19/2007	12/19/2007	SM 4500 H+	
TRPH	NA	0.23	0.01	0.02	% Dry Weight	27166c-5026001	12/18/2007	12/18/2007	SM 5520 E	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
PCB008	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB018	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB028	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB031	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB033	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB037	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB044	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB049	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB052	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB066	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB070	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB074	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB077	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB081	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB087	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB095	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB097	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB099	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB101	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB105	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB110	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB114	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB118	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB119	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB123	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB126	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB128	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB138	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB141	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB149	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB151	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB153	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB156	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB157	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB158	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB167	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB168+132	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB169	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB170	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB177	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB180	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB183	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB187	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB189	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB194	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB195	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB200	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB201	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB206	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB209	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60908-R1	LB-MVP-COMP-BCOMP-B				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
PCB008	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB018	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB028	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB031	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB033	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB037	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB044	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB049	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB052	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB066	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB070	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB074	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB077	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB081	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB087	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB095	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB097	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB099	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB101	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB105	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB110	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB114	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB118	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB119	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB123	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB126	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB128	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB138	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB141	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB149	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB151	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB153	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB156	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB157	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB158	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB167	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB168+132	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB169	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB170	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB177	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB180	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB183	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB187	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB189	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB194	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB195	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB200	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB201	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB206	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB209	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60909-R1	LB-MVP-COMP-COMP-C				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
PCB008	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB018	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB028	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB031	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB033	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB037	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB044	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB049	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB052	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm
PCB066	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB070	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB074	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB077	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB081	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB087	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB095	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB097	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB099	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB101	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB105	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB110	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB114	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB118	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB119	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB123	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB126	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB128	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB138	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB141	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB149	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB151	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB153	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB156	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB157	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB158	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB167	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB168+132	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB169	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB170	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB177	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB180	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB183	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB187	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB189	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB194	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB195	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB200	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB201	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB206	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB209	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60910-R1	LB-MVP-COMP-DCOMP-D					Sediment	Sampled: 06-Dec-07	Received: 10-Dec-07		
PCB008	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB018	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB028	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB031	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB033	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB037	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB044	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB049	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB052	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB066	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB070	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB074	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB077	NA	1.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
PCB081	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB087	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB095	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB097	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB099	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB101	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB105	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB110	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB114	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB118	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB119	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB123	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB126	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB128	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB138	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB141	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB149	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB151	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB153	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB156	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB157	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB158	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB167	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB168+132	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB169	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB170	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB177	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB180	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB183	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB187	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB189	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB194	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB195	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB200	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB201	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB206	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
PCB209	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A				Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07	
(d10-Acenaphthene)	NA	54			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d10-Phenanthrene)	NA	64			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Chrysene)	NA	72			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Perylene)	NA	71			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d8-Naphthalene)	NA	48			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylphenanthrene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,3,5-Trimethylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,6-Dimethylnaphthalene	NA	1.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
2-Methylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthene	NA	1.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Acenaphthylene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Anthracene	NA	9.8	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benz[a]anthracene	NA	4.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Benzo[a]pyrene	NA	3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Benzo[b]fluoranthene	NA	4.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Benzo[e]pyrene	NA	17.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[g,h,i]perylene	NA	11.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[k]fluoranthene	NA	5.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Biphenyl	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chrysene	NA	24.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dibenz[a,h]anthracene	NA	2.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Dibenzothiophene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Fluoranthene	NA	2.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Fluorene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Indeno[1,2,3-c,d]pyrene	NA	2.8	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Naphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Perylene	NA	79.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenanthrene	NA	4.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Pyrene	NA	12.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60908-R1	LB-MVP-COMP-BCOMP-B				Sediment	Sampled: 06-Dec-07		Received: 10-Dec-07		
(d10-Acenaphthene)	NA	71			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d10-Phenanthrene)	NA	70			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Chrysene)	NA	73			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Perylene)	NA	72			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d8-Naphthalene)	NA	61			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylphenanthrene	NA	1.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
2,3,5-Trimethylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,6-Dimethylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methylnaphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthylene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Anthracene	NA	1.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Benz[a]anthracene	NA	3.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Benzo[a]pyrene	NA	5.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[b]fluoranthene	NA	7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[e]pyrene	NA	8.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[g,h,i]perylene	NA	7.8	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[k]fluoranthene	NA	8.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Biphenyl	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chrysene	NA	8.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dibenz[a,h]anthracene	NA	1.3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Dibenzothiophene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Fluoranthene	NA	6.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Fluorene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Indeno[1,2,3-c,d]pyrene	NA	3.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Naphthalene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perylene	NA	15.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenanthrene	NA	2.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Pyrene	NA	8.3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60909-R1 LB-MVP-COMP-CCOMP-C Sediment Sampled: 06-Dec-07 Received: 10-Dec-07

(d10-Acenaphthene)	NA	70			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d10-Phenanthrene)	NA	71			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Chrysene)	NA	68			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Perylene)	NA	63			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d8-Naphthalene)	NA	56			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylnaphthalene	NA	82.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylphenanthrene	NA	36.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,3,5-Trimethylnaphthalene	NA	16.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,6-Dimethylnaphthalene	NA	68	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methylnaphthalene	NA	72.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthene	NA	258.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthylene	NA	2.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Anthracene	NA	176.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benz[a]anthracene	NA	82.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[a]pyrene	NA	36.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[b]fluoranthene	NA	49.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[e]pyrene	NA	45.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[g,h,i]perylene	NA	24.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[k]fluoranthene	NA	48	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Biphenyl	NA	40	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Chrysene	NA	105	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Dibenz[a,h]anthracene	NA	10.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dibenzothiophene	NA	59	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Fluoranthene	NA	437.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Fluorene	NA	216.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Indeno[1,2,3-c,d]pyrene	NA	16.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Naphthalene	NA	26.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perylene	NA	148.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenanthrene	NA	663.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Pyrene	NA	278.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

60910-R1	LB-MVP-COMP-DCOMP-D				Sediment	Sampled: 06-Dec-07		Received: 10-Dec-07		
(d10-Acenaphthene)	NA	75			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d10-Phenanthrene)	NA	77			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Chrysene)	NA	76			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d12-Perylene)	NA	64			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
(d8-Naphthalene)	NA	60			% Recovery	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylnaphthalene	NA	19.3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
1-Methylphenanthrene	NA	24.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,3,5-Trimethylnaphthalene	NA	8	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2,6-Dimethylnaphthalene	NA	20	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
2-Methylnaphthalene	NA	18.2	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthene	NA	17	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Acenaphthylene	NA	ND	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Anthracene	NA	22	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benz[a]anthracene	NA	19.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[a]pyrene	NA	12.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[b]fluoranthene	NA	25.1	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[e]pyrene	NA	23.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Benzo[g,h,i]perylene	NA	15.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Benzo[k]fluoranthene	NA	13.9	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Biphenyl	NA	4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	J
Chrysene	NA	52.3	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dibenz[a,h]anthracene	NA	6.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Dibenzothiophene	NA	12.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Fluoranthene	NA	65.7	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Fluorene	NA	18.4	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Indeno[1,2,3-c,d]pyrene	NA	7.6	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Naphthalene	NA	26.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Perylene	NA	138.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Phenanthrene	NA	114.5	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	
Pyrene	NA	67	1	5	ng/dry g	27166c-33117	12/26/2007	12/29/2007	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Trace Metals

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
60907-R1	LB-MVP-COMP-ACOMP-A					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
Antimony (Sb)	NA	0.39	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Arsenic (As)	NA	8.7	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Cadmium (Cd)	NA	0.148	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Chromium (Cr)	NA	27.83	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Copper (Cu)	NA	23.12	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Lead (Pb)	NA	19.8	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Mercury (Hg)	NA	0.056	0.01	0.02	µg/dry g	27166c-4050	12/28/2007	12/31/2007	EPA 245.7m	
Nickel (Ni)	NA	18.08	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Selenium (Se)	NA	0.231	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Silver (Ag)	NA	0.102	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Zinc (Zn)	NA	78.6	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
60908-R1	LB-MVP-COMP-BCOMP-B					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
Antimony (Sb)	NA	0.495	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Arsenic (As)	NA	5.707	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Cadmium (Cd)	NA	0.196	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Chromium (Cr)	NA	22.02	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Copper (Cu)	NA	31.23	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Lead (Pb)	NA	24.43	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Mercury (Hg)	NA	0.05	0.01	0.02	µg/dry g	27166c-4050	12/28/2007	12/31/2007	EPA 245.7m	
Nickel (Ni)	NA	14.04	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Selenium (Se)	NA	0.2	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Silver (Ag)	NA	0.111	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Zinc (Zn)	NA	67.44	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
60909-R1	LB-MVP-COMP-CCOMP-C					Sediment		Sampled: 06-Dec-07		Received: 10-Dec-07
Antimony (Sb)	NA	0.389	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	

CRG Marine Laboratories, Inc.

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

Trace Metals

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Arsenic (As)	NA	6.855	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Cadmium (Cd)	NA	0.224	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Chromium (Cr)	NA	26.1	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Copper (Cu)	NA	20.13	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Lead (Pb)	NA	32.16	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Mercury (Hg)	NA	0.076	0.01	0.02	µg/dry g	27166c-4050	12/28/2007	12/31/2007	EPA 245.7m	
Nickel (Ni)	NA	16.79	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Selenium (Se)	NA	0.299	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Silver (Ag)	NA	0.117	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	
Zinc (Zn)	NA	84.9	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m	

60910-R1 LB-MVP-COMP-DCOMP-D Sediment Sampled: 06-Dec-07 Received: 10-Dec-07

Antimony (Sb)	NA	0.37	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Arsenic (As)	NA	5.077	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Cadmium (Cd)	NA	0.175	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Chromium (Cr)	NA	20.13	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Copper (Cu)	NA	17.42	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Lead (Pb)	NA	15.05	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Mercury (Hg)	NA	0.057	0.01	0.02	µg/dry g	27166c-4050	12/28/2007	12/31/2007	EPA 245.7m
Nickel (Ni)	NA	13.2	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Selenium (Se)	NA	0.218	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Silver (Ag)	NA	0.133	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m
Zinc (Zn)	NA	53.21	0.025	0.05	µg/dry g	27166c-17148	12/28/2007	1/2/2008	EPA 6020m

QUALITY CONTROL REPORT

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: 27166c-33117		QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Lab Blank 60906-B1		DI Water													
(2,4,6-Tribromophenol)	NA	66			% Recovery	100		66	5 - 150%	PASS					
(d5-Phenol)	NA	56			% Recovery	100		56	5 - 140%	PASS					
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g										
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g										
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g										
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g										
2-Chlorophenol	NA	ND	50	100	ng/dry g										
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g										
2-Nitrophenol	NA	ND	100	200	ng/dry g										
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g										
4-Nitrophenol	NA	ND	100	200	ng/dry g										
Pentachlorophenol	NA	ND	50	100	ng/dry g										
Phenol	NA	ND	100	200	ng/dry g										
Batch ID: 27166c-33117		QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Blank Spike 60906-BS1		DI Water													
(2,4,6-Tribromophenol)	NA	85			% Recovery	100	0	85	5 - 150%	PASS					
(d5-Phenol)	NA	59			% Recovery	100	0	59	5 - 140%	PASS					
2-Chlorophenol	NA	98.3	50	100	ng/dry g	284.8	0	35	15 - 140%	PASS					
4-Chloro-3-methylphenol	NA	115.1	100	200	ng/dry g	284.8	0	40	30 - 135%	PASS					
4-Nitrophenol	NA	102.4	100	200	ng/dry g	284.8	0	36	20 - 140%	PASS					
Pentachlorophenol	NA	88.8	50	100	ng/dry g	284.8	0	31	0 - 150	PASS					
Phenol	NA	100.2	100	200	ng/dry g	284.8	0	35	10 - 140%	PASS					
Batch ID: 27166c-33117		QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Blank Spike Dup 60906-BS2		DI Water													
(2,4,6-Tribromophenol)	NA	79			% Recovery	100	0	79	5 - 150%	PASS	7	30	PASS		

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
(d5-Phenol)	NA	60			% Recovery	100	0	60	5 - 140%	PASS	2	30	PASS	
2-Chlorophenol	NA	93.3	50	100	ng/dry g	284.8	0	33	15 - 140%	PASS	6	30	PASS	
4-Chloro-3-methylphenol	NA	104	100	200	ng/dry g	284.8	0	37	30 - 135%	PASS	8	30	PASS	
4-Nitrophenol	NA	80.5	100	200	ng/dry g	284.8	0	28	20 - 140%	PASS	25	30	PASS	
Pentachlorophenol	NA	65.7	50	100	ng/dry g	284.8	0	23	0 - 150	PASS	30	30	PASS	
Phenol	NA	95.4	100	200	ng/dry g	284.8	0	33	10 - 140%	PASS	6	30	PASS	
Batch ID:		27166c-33117	LB-MVP-COMP-D COMP-D						Prepared 12/26/2007		Analyzed 29-Dec-07			
Matrix Spike		60910-MS1	Sediment											
(2,4,6-Tribromophenol)	NA	75			% Recovery	100	0	75	5 - 150%	PASS				
(d5-Phenol)	NA	27			% Recovery	100	0	27	5 - 140%	PASS				
2-Chlorophenol	NA	67.1	50	100	ng/dry g	279.6	0	24	15 - 140%	PASS				
4-Chloro-3-methylphenol	NA	92.9	100	200	ng/dry g	279.6	0	33	30 - 135%	PASS				
4-Nitrophenol	NA	74.2	100	200	ng/dry g	279.6	0	27	20 - 140%	PASS				
Pentachlorophenol	NA	49.1	50	100	ng/dry g	279.6	0	18	0 - 150	PASS				
Phenol	NA	62.6	100	200	ng/dry g	279.6	0	22	10 - 140%	PASS				
Batch ID:		27166c-33117	LB-MVP-COMP-D COMP-D						Prepared 12/26/2007		Analyzed 29-Dec-07			
Matrix Spike Dup		60910-MS2	Sediment											
(2,4,6-Tribromophenol)	NA	76			% Recovery	100	0	76	5 - 150%	PASS	0	30	PASS	
(d5-Phenol)	NA	25			% Recovery	100	0	25	5 - 140%	PASS	0	30	PASS	
2-Chlorophenol	NA	62.8	50	100	ng/dry g	270	0	23	15 - 140%	PASS	4	30	PASS	
4-Chloro-3-methylphenol	NA	83.2	100	200	ng/dry g	270	0	31	30 - 135%	PASS	6	30	PASS	
4-Nitrophenol	NA	69.2	100	200	ng/dry g	270	0	26	20 - 140%	PASS	4	30	PASS	
Pentachlorophenol	NA	45.8	50	100	ng/dry g	270	0	17	0 - 150	PASS	6	30	PASS	
Phenol	NA	58.1	100	200	ng/dry g	270	0	22	10 - 140%	PASS	0	30	PASS	
Batch ID:		27166c-33117	LB-MVP-COMP-D COMP-D						Prepared 12/26/2007		Analyzed 29-Dec-07			
Lab Dup		60910-R2	Sediment											
(2,4,6-Tribromophenol)	NA	64			% Recovery	100		64	5 - 150%	PASS	13	30	PASS	

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
(d5-Phenol)	NA	38			% Recovery	100		38	5 - 140%	PASS	23	30	PASS	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g						0	30	PASS	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
2-Chlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
2-Nitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g						0	30	PASS	
4-Nitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
Pentachlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
Phenol	NA	ND	100	200	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID:	27166c-33117	QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Lab Blank	60906-B1	DI Water													
Aroclor 1016	NA	ND	10	20	ng/dry g										
Aroclor 1221	NA	ND	10	20	ng/dry g										
Aroclor 1232	NA	ND	10	20	ng/dry g										
Aroclor 1242	NA	ND	10	20	ng/dry g										
Aroclor 1248	NA	ND	10	20	ng/dry g										
Aroclor 1254	NA	ND	10	20	ng/dry g										
Aroclor 1260	NA	ND	10	20	ng/dry g										
Batch ID:	27166c-33117	LB-MVP-COMP-D	COMP-D		Prepared 12/26/2007				Analyzed 29-Dec-07						
Lab Dup	60910-R2	Sediment													
Aroclor 1016	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1221	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1232	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1242	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1248	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1254	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1260	NA	ND	10	20	ng/dry g						0	30	PASS		

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: 27166c-33117		QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Lab Blank 60906-B1		DI Water													
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g										
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g										
Diethyl Phthalate	NA	ND	100	125	ng/dry g										
Dimethyl Phthalate	NA	ND	50	75	ng/dry g										
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g										
Di-n-octyl Phthalate	NA	ND	10	20	ng/dry g										
Batch ID: 27166c-33117		QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Blank Spike 60906-BS1		DI Water													
bis(2-Ethylhexyl) Phthalate	NA	35	100	125	ng/dry g	28.5	0	123	5 - 160%	PASS					
Butylbenzyl Phthalate	NA	26.4	25	50	ng/dry g	28.5	0	93	0 - 195%	PASS					
Diethyl Phthalate	NA	25.5	100	125	ng/dry g	28.5	0	89	10 - 190%	PASS					
Dimethyl Phthalate	NA	21.8	50	75	ng/dry g	28.5	0	76	50 - 140%	PASS					
Di-n-butyl Phthalate	NA	35.2	75	100	ng/dry g	28.5	0	124	10 - 175%	PASS					
Di-n-octyl Phthalate	NA	25.2	10	20	ng/dry g	28.5	0	88	35 - 145%	PASS					
Batch ID: 27166c-33117		QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07					
Blank Spike Dup 60906-BS2		DI Water													
bis(2-Ethylhexyl) Phthalate	NA	26	100	125	ng/dry g	28.5	0	91	5 - 160%	PASS	30	30	PASS		
Butylbenzyl Phthalate	NA	22.3	25	50	ng/dry g	28.5	0	78	0 - 195%	PASS	18	30	PASS		
Diethyl Phthalate	NA	24.7	100	125	ng/dry g	28.5	0	87	10 - 190%	PASS	3	30	PASS		
Dimethyl Phthalate	NA	24	50	75	ng/dry g	28.5	0	84	50 - 140%	PASS	9	30	PASS		
Di-n-butyl Phthalate	NA	33.1	75	100	ng/dry g	28.5	0	116	10 - 175%	PASS	7	30	PASS		
Di-n-octyl Phthalate	NA	23.5	10	20	ng/dry g	28.5	0	82	35 - 145%	PASS	6	30	PASS		
Batch ID: 27166c-33117		LB-MVP-COMP-D COMP-D				Prepared 12/26/2007				Analyzed 29-Dec-07					
Matrix Spike 60910-MS1		Sediment													
bis(2-Ethylhexyl) Phthalate	NA	40.9	100	125	ng/dry g	28	0	146	5 - 160%	PASS					

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Butylbenzyl Phthalate	NA	33.5	25	50	ng/dry g	28	0	120	0 - 195%	PASS					
Diethyl Phthalate	NA	22	100	125	ng/dry g	28	0	79	10 - 190%	PASS					
Dimethyl Phthalate	NA	19.4	50	75	ng/dry g	28	0	69	50 - 140%	PASS					
Di-n-butyl Phthalate	NA	27.6	75	100	ng/dry g	28	0	99	10 - 175%	PASS					
Di-n-octyl Phthalate	NA	33.6	10	20	ng/dry g	28	15.6	64	35 - 145%	PASS					
Batch ID:		27166c-33117	LB-MVP-COMP-D COMP-D						Prepared 12/26/2007		Analyzed 29-Dec-07				
Matrix Spike Dup		60910-MS2	Sediment												
bis(2-Ethylhexyl) Phthalate	NA	42.6	100	125	ng/dry g	27	0	158	5 - 160%	PASS	8	30	PASS		
Butylbenzyl Phthalate	NA	27.6	25	50	ng/dry g	27	0	102	0 - 195%	PASS	16	30	PASS		
Diethyl Phthalate	NA	27.3	100	125	ng/dry g	27	0	101	10 - 190%	PASS	24	30	PASS		
Dimethyl Phthalate	NA	17.7	50	75	ng/dry g	27	0	66	50 - 140%	PASS	4	30	PASS		
Di-n-butyl Phthalate	NA	31.4	75	100	ng/dry g	27	0	116	10 - 175%	PASS	16	30	PASS		
Di-n-octyl Phthalate	NA	31.3	10	20	ng/dry g	27	15.6	58	35 - 145%	PASS	11	30	PASS		
Batch ID:		27166c-33117	LB-MVP-COMP-D COMP-D						Prepared 12/26/2007		Analyzed 29-Dec-07				
Lab Dup		60910-R2	Sediment												
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g						0	30	PASS		
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g						0	30	PASS		
Diethyl Phthalate	NA	ND	100	125	ng/dry g						0	30	PASS		
Dimethyl Phthalate	NA	ND	50	75	ng/dry g						0	30	PASS		
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g						0	30	PASS		
Di-n-octyl Phthalate	NA	14.9	10	20	ng/dry g						8	30	PASS	J	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Endrin Ketone	NA	ND	1	5	ng/dry g									
Heptachlor	NA	ND	1	5	ng/dry g									
Heptachlor Epoxide	NA	ND	1	5	ng/dry g									
Kepone	NA	ND	1	5	ng/dry g									
Methoxychlor	NA	ND	1	5	ng/dry g									
Mirex	NA	ND	1	5	ng/dry g									
Oxychlorane	NA	ND	1	5	ng/dry g									
Perthane	NA	ND	5	10	ng/dry g									
Toxaphene	NA	ND	10	50	ng/dry g									
trans-Nonachlor	NA	ND	1	5	ng/dry g									

Batch ID:	27166c-33117	QAQC Procedural Blank				Prepared 12/26/2007		Analized 29-Dec-07	
Blank Spike	60906-BS1	DI Water							
(PCB030)	NA	75			% Recovery	100	0	75	55 - 120% PASS
(PCB112)	NA	89			% Recovery	100	0	89	65 - 120% PASS
(PCB198)	NA	97			% Recovery	100	0	97	60 - 120% PASS
(TCMX)	NA	66			% Recovery	100	0	66	50 - 120% PASS
2,4'-DDD	NA	24.2	1	5	ng/dry g	28.5	0	85	50 - 135% PASS
2,4'-DDE	NA	25.7	1	5	ng/dry g	28.5	0	90	60 - 130% PASS
2,4'-DDT	NA	19.2	1	5	ng/dry g	28.5	0	67	40 - 135% PASS
4,4'-DDD	NA	21.9	1	5	ng/dry g	28.5	0	77	70 - 130% PASS
4,4'-DDE	NA	32	1	5	ng/dry g	28.5	0	112	65 - 130% PASS
4,4'-DDT	NA	21.7	1	5	ng/dry g	28.5	0	76	35 - 140% PASS
Aldrin	NA	23	1	5	ng/dry g	28.5	0	81	50 - 125% PASS
BHC-alpha	NA	23.7	1	5	ng/dry g	28.5	0	83	60 - 120% PASS
BHC-beta	NA	19.7	1	5	ng/dry g	28.5	0	69	60 - 120% PASS
BHC-delta	NA	26.3	1	5	ng/dry g	28.5	0	92	60 - 120% PASS
BHC-gamma	NA	26.1	1	5	ng/dry g	28.5	0	92	60 - 120% PASS
Chlordane-alpha	NA	23.2	1	5	ng/dry g	28.5	0	81	70 - 130% PASS

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Chlordane-gamma	NA	25.8	1	5	ng/dry g	28.5	0	91	60 - 120%	PASS				
cis-Nonachlor	NA	24.2	1	5	ng/dry g	28.5	0	85	60 - 120%	PASS				
DCPA (Dacthal)	NA	23.3	5	10	ng/dry g	28.5	0	82	60 - 140%	PASS				
Dicofol	NA	23.5	1	5	ng/dry g	28.5	0	82	65 - 125%	PASS				
Dieldrin	NA	30.3	1	5	ng/dry g	28.5	0	106	50 - 125%	PASS				
Endosulfan Sulfate	NA	23.9	1	5	ng/dry g	28.5	0	84	25 - 125%	PASS				
Endosulfan-I	NA	26.7	1	5	ng/dry g	28.5	0	94	45 - 125%	PASS				
Endosulfan-II	NA	24.3	1	5	ng/dry g	28.5	0	85	25 - 145%	PASS				
Endrin	NA	21.9	1	5	ng/dry g	28.5	0	77	60 - 125%	PASS				
Endrin Aldehyde	NA	27.9	1	5	ng/dry g	28.5	0	98	0 - 149%	PASS				
Endrin Ketone	NA	33.4	1	5	ng/dry g	28.5	0	117	45 - 125%	PASS				
Heptachlor	NA	18.3	1	5	ng/dry g	28.5	0	64	45 - 125%	PASS				
Heptachlor Epoxide	NA	20.8	1	5	ng/dry g	28.5	0	73	60 - 120%	PASS				
Kepone	NA	15.4	1	5	ng/dry g	28.5	0	54	60 - 120%	FAIL				
Methoxychlor	NA	16.1	1	5	ng/dry g	28.5	0	56	35 - 140%	PASS				
Mirex	NA	25.7	1	5	ng/dry g	28.5	0	90	50 - 130%	PASS				
Oxychlordane	NA	24.6	1	5	ng/dry g	28.5	0	86	70 - 130%	PASS				
Perthane	NA	17.7	5	10	ng/dry g	28.5	0	62	60 - 140%	PASS				
trans-Nonachlor	NA	25.9	1	5	ng/dry g	28.5	0	91	60 - 120%	PASS				

Batch ID: 27166c-33117
Blank Spike Dup 60906-BS2

QAQC Procedural Blank
DI Water

Prepared 12/26/2007

Analyzed 29-Dec-07

(PCB030)	NA	72			% Recovery	100	0	72	55 - 120%	PASS	4	30	PASS	
(PCB112)	NA	81			% Recovery	100	0	81	65 - 120%	PASS	9	30	PASS	
(PCB198)	NA	96			% Recovery	100	0	96	60 - 120%	PASS	1	30	PASS	
(TCMX)	NA	71			% Recovery	100	0	71	50 - 120%	PASS	7	30	PASS	
2,4'-DDD	NA	21.2	1	5	ng/dry g	28.5	0	74	50 - 135%	PASS	14	30	PASS	
2,4'-DDE	NA	22.7	1	5	ng/dry g	28.5	0	80	60 - 130%	PASS	12	30	PASS	
2,4'-DDT	NA	17.4	1	5	ng/dry g	28.5	0	61	40 - 135%	PASS	9	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
4,4'-DDD	NA	20.1	1	5	ng/dry g	28.5	0	71	70 - 130%	PASS	8	30	PASS	
4,4'-DDE	NA	29.8	1	5	ng/dry g	28.5	0	105	65 - 130%	PASS	6	30	PASS	
4,4'-DDT	NA	20.6	1	5	ng/dry g	28.5	0	72	35 - 140%	PASS	5	30	PASS	
Aldrin	NA	20.7	1	5	ng/dry g	28.5	0	73	50 - 125%	PASS	10	30	PASS	
BHC-alpha	NA	22.2	1	5	ng/dry g	28.5	0	78	60 - 120%	PASS	6	30	PASS	
BHC-beta	NA	19.9	1	5	ng/dry g	28.5	0	70	60 - 120%	PASS	1	30	PASS	
BHC-delta	NA	23.9	1	5	ng/dry g	28.5	0	84	60 - 120%	PASS	9	30	PASS	
BHC-gamma	NA	22	1	5	ng/dry g	28.5	0	77	60 - 120%	PASS	18	30	PASS	
Chlordane-alpha	NA	20.3	1	5	ng/dry g	28.5	0	71	70 - 130%	PASS	13	30	PASS	
Chlordane-gamma	NA	23	1	5	ng/dry g	28.5	0	81	60 - 120%	PASS	12	30	PASS	
cis-Nonachlor	NA	21.5	1	5	ng/dry g	28.5	0	75	60 - 120%	PASS	12	30	PASS	
DCPA (Dacthal)	NA	21.4	5	10	ng/dry g	28.5	0	75	60 - 140%	PASS	9	30	PASS	
Dicofol	NA	22.6	1	5	ng/dry g	28.5	0	79	65 - 125%	PASS	5	30	PASS	
Dieldrin	NA	28	1	5	ng/dry g	28.5	0	98	50 - 125%	PASS	8	30	PASS	
Endosulfan Sulfate	NA	22.1	1	5	ng/dry g	28.5	0	78	25 - 125%	PASS	7	30	PASS	
Endosulfan-I	NA	21.9	1	5	ng/dry g	28.5	0	77	45 - 125%	PASS	20	30	PASS	
Endosulfan-II	NA	19.3	1	5	ng/dry g	28.5	0	68	25 - 145%	PASS	22	30	PASS	
Endrin	NA	18.3	1	5	ng/dry g	28.5	0	64	60 - 125%	PASS	18	30	PASS	
Endrin Aldehyde	NA	26.2	1	5	ng/dry g	28.5	0	92	0 - 149%	PASS	6	30	PASS	
Endrin Ketone	NA	33	1	5	ng/dry g	28.5	0	116	45 - 125%	PASS	1	30	PASS	
Heptachlor	NA	18.6	1	5	ng/dry g	28.5	0	65	45 - 125%	PASS	2	30	PASS	
Heptachlor Epoxide	NA	18.7	1	5	ng/dry g	28.5	0	66	60 - 120%	PASS	10	30	PASS	
Kepone	NA	14.6	1	5	ng/dry g	28.5	0	51	60 - 120%	FAIL	6	30	PASS	
Methoxychlor	NA	16.4	1	5	ng/dry g	28.5	0	58	35 - 140%	PASS	2	30	PASS	
Mirex	NA	22.6	1	5	ng/dry g	28.5	0	79	50 - 130%	PASS	13	30	PASS	
Oxychlordane	NA	20.5	1	5	ng/dry g	28.5	0	72	70 - 130%	PASS	18	30	PASS	
Perthane	NA	17.6	5	10	ng/dry g	28.5	0	62	60 - 140%	PASS	0	30	PASS	
trans-Nonachlor	NA	25.3	1	5	ng/dry g	28.5	0	89	60 - 120%	PASS	2	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Batch ID:	27166c-33117	LB-MVP-COMP-D	COMP-D						Prepared 12/26/2007				Analyzed 29-Dec-07	
Matrix Spike	60910-MS1				Sediment									
(PCB030)	NA	95			% Recovery	100	0	95	55 - 120%	PASS				
(PCB112)	NA	99			% Recovery	100	0	99	65 - 120%	PASS				
(PCB198)	NA	107			% Recovery	100	0	107	60 - 120%	PASS				
(TCMX)	NA	91			% Recovery	100	0	91	50 - 120%	PASS				
2,4'-DDD	NA	25.1	1	5	ng/dry g	28	0	90	50 - 135%	PASS				
2,4'-DDE	NA	53.8	1	5	ng/dry g	28	2.3	184	60 - 130%	FAIL				
2,4'-DDT	NA	19.3	1	5	ng/dry g	28	0	69	40 - 135%	PASS				
4,4'-DDD	NA	31.8	1	5	ng/dry g	28	3	103	70 - 130%	PASS				
4,4'-DDE	NA	42.3	1	5	ng/dry g	28	30.5	42	65 - 130%	FAIL				
4,4'-DDT	NA	4.3	1	5	ng/dry g	28	0	15	35 - 140%	FAIL				
Aldrin	NA	20.3	1	5	ng/dry g	28	0	72	50 - 125%	PASS				
BHC-alpha	NA	25.7	1	5	ng/dry g	28	0	92	60 - 120%	PASS				
BHC-beta	NA	27.4	1	5	ng/dry g	28	0	98	60 - 120%	PASS				
BHC-delta	NA	24.8	1	5	ng/dry g	28	0	89	60 - 120%	PASS				
BHC-gamma	NA	25.5	1	5	ng/dry g	28	0	91	60 - 120%	PASS				
Chlordane-alpha	NA	16.2	1	5	ng/dry g	28	0.5	56	70 - 130%	FAIL				
Chlordane-gamma	NA	16.9	1	5	ng/dry g	28	1	57	60 - 120%	FAIL				
cis-Nonachlor	NA	19.8	1	5	ng/dry g	28	0	71	60 - 120%	PASS				
DCPA (Dacthal)	NA	17.5	5	10	ng/dry g	28	0	62	60 - 140%	PASS				
Dicofol	NA	20.8	1	5	ng/dry g	28	0	74	65 - 125%	PASS				
Dieldrin	NA	22.1	1	5	ng/dry g	28	0	79	50 - 125%	PASS				
Endosulfan Sulfate	NA	28.8	1	5	ng/dry g	28	0	103	25 - 125%	PASS				
Endosulfan-I	NA	33.7	1	5	ng/dry g	28	0	120	45 - 125%	PASS				
Endosulfan-II	NA	31.9	1	5	ng/dry g	28	0	114	25 - 145%	PASS				
Endrin	NA	18	1	5	ng/dry g	28	0	64	60 - 125%	PASS				
Endrin Aldehyde	NA	24.8	1	5	ng/dry g	28	0	89	0 - 149%	PASS				

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Endrin Ketone	NA	16.2	1	5	ng/dry g	28	0	58	45 - 125%	PASS				
Heptachlor	NA	15.8	1	5	ng/dry g	28	0	56	45 - 125%	PASS				
Heptachlor Epoxide	NA	17.6	1	5	ng/dry g	28	0	63	60 - 120%	PASS				
Kepone	NA	12.2	1	5	ng/dry g	28	0	44	60 - 120%	FAIL				
Methoxychlor	NA	7.1	1	5	ng/dry g	28	0	25	35 - 140%	FAIL				
Mirex	NA	16.2	1	5	ng/dry g	28	0	58	50 - 130%	PASS				
Oxychlorthane	NA	22.6	1	5	ng/dry g	28	0	81	70 - 130%	PASS				
Perthane	NA	24	5	10	ng/dry g	28	0	86	60 - 140%	PASS				
trans-Nonachlor	NA	15.5	1	5	ng/dry g	28	0	55	60 - 120%	FAIL				

Batch ID:	27166c-33117	LB-MVP-COMP-D COMP-D					Prepared 12/26/2007	Analyzed 29-Dec-07						
Matrix Spike Dup	60910-MS2	Sediment												
(PCB030)	NA	86			% Recovery	100	0	86	55 - 120%	PASS	0	30	PASS	
(PCB112)	NA	96			% Recovery	100	0	96	65 - 120%	PASS	0	30	PASS	
(PCB198)	NA	103			% Recovery	100	0	103	60 - 120%	PASS	0	30	PASS	
(TCMX)	NA	85			% Recovery	100	0	85	50 - 120%	PASS	0	30	PASS	
2,4'-DDD	NA	19	1	5	ng/dry g	27	0	70	50 - 135%	PASS	25	30	PASS	
2,4'-DDE	NA	16.3	1	5	ng/dry g	27	2.3	52	60 - 130%	FAIL	112	30	FAIL	
2,4'-DDT	NA	21.3	1	5	ng/dry g	27	0	79	40 - 135%	PASS	14	30	PASS	
4,4'-DDD	NA	31.8	1	5	ng/dry g	27	3	107	70 - 130%	PASS	3	30	PASS	
4,4'-DDE	NA	36.2	1	5	ng/dry g	27	30.5	21	65 - 130%	FAIL	67	30	FAIL	
4,4'-DDT	NA	0	1	5	ng/dry g	27	0	0	35 - 140%	FAIL	200	30	FAIL	
Aldrin	NA	17.4	1	5	ng/dry g	27	0	64	50 - 125%	PASS	13	30	PASS	
BHC-alpha	NA	29.2	1	5	ng/dry g	27	0	108	60 - 120%	PASS	16	30	PASS	
BHC-beta	NA	28.2	1	5	ng/dry g	27	0	104	60 - 120%	PASS	6	30	PASS	
BHC-delta	NA	20.8	1	5	ng/dry g	27	0	77	60 - 120%	PASS	14	30	PASS	
BHC-gamma	NA	31.2	1	5	ng/dry g	27	0	116	60 - 120%	PASS	24	30	PASS	
Chlordane-alpha	NA	12.5	1	5	ng/dry g	27	0.5	44	70 - 130%	FAIL	24	30	PASS	
Chlordane-gamma	NA	12.9	1	5	ng/dry g	27	1	44	60 - 120%	FAIL	26	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
cis-Nonachlor	NA	17.8	1	5	ng/dry g	27	0	66	60 - 120%	PASS	7	30	PASS	
DCPA (Dacthal)	NA	17.5	5	10	ng/dry g	27	0	65	60 - 140%	PASS	3	30	PASS	
Dicofol	NA	22.4	1	5	ng/dry g	27	0	83	65 - 125%	PASS	11	30	PASS	
Dieldrin	NA	19.5	1	5	ng/dry g	27	0	72	50 - 125%	PASS	9	30	PASS	
Endosulfan Sulfate	NA	22.7	1	5	ng/dry g	27	0	84	25 - 125%	PASS	20	30	PASS	
Endosulfan-I	NA	29.9	1	5	ng/dry g	27	0	111	45 - 125%	PASS	9	30	PASS	
Endosulfan-II	NA	30.7	1	5	ng/dry g	27	0	114	25 - 145%	PASS	0	30	PASS	
Endrin	NA	17.9	1	5	ng/dry g	27	0	66	60 - 125%	PASS	3	30	PASS	
Endrin Aldehyde	NA	27.5	1	5	ng/dry g	27	0	102	0 - 149%	PASS	14	30	PASS	
Endrin Ketone	NA	13.8	1	5	ng/dry g	27	0	51	45 - 125%	PASS	13	30	PASS	
Heptachlor	NA	16.7	1	5	ng/dry g	27	0	62	45 - 125%	PASS	8	30	PASS	
Heptachlor Epoxide	NA	17.6	1	5	ng/dry g	27	0	65	60 - 120%	PASS	3	30	PASS	
Kepone	NA	8.8	1	5	ng/dry g	27	0	33	60 - 120%	FAIL	29	30	PASS	
Methoxychlor	NA	7.9	1	5	ng/dry g	27	0	29	35 - 140%	FAIL	15	30	PASS	
Mirex	NA	15	1	5	ng/dry g	27	0	56	50 - 130%	PASS	4	30	PASS	
Oxychlorane	NA	19.8	1	5	ng/dry g	27	0	73	70 - 130%	PASS	10	30	PASS	
Perthane	NA	27.5	5	10	ng/dry g	27	0	102	60 - 140%	PASS	17	30	PASS	
trans-Nonachlor	NA	11.2	1	5	ng/dry g	27	0	41	60 - 120%	FAIL	29	30	PASS	
Batch ID:	27166c-33117	LB-MVP-COMP-D		COMP-D		Prepared 12/26/2007			Analyzed 29-Dec-07					
Lab Dup	60910-R2	Sediment												
(PCB030)	NA	57			% Recovery	100		57	55 - 120%	PASS	8	30	PASS	
(PCB112)	NA	66			% Recovery	100		66	65 - 120%	PASS	2	30	PASS	
(PCB198)	NA	61			% Recovery	100		61	60 - 120%	PASS	3	30	PASS	
(TCMX)	NA	61			% Recovery	100		61	50 - 120%	PASS	3	30	PASS	
2,4'-DDD	NA	ND	1	5	ng/dry g						0	30	PASS	
2,4'-DDE	NA	2.2	1	5	ng/dry g						9	30	PASS	J
2,4'-DDT	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDD	NA	1.9	1	5	ng/dry g						75	30	FAIL	J,Q3

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
4,4'-DDE	NA	32	1	5	ng/dry g						10	30	PASS	
4,4'-DDT	NA	ND	1	5	ng/dry g						0	30	PASS	
Aldrin	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-alpha	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-beta	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-delta	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-gamma	NA	ND	1	5	ng/dry g						0	30	PASS	
Chlordane-alpha	NA	ND	1	5	ng/dry g						0	30	PASS	
Chlordane-gamma	NA	1	1	5	ng/dry g						10	30	PASS	J
cis-Nonachlor	NA	ND	1	5	ng/dry g						0	30	PASS	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g						0	30	PASS	
Dicofol	NA	ND	1	5	ng/dry g						0	30	PASS	
Dieldrin	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan-I	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan-II	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin Aldehyde	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin Ketone	NA	ND	1	5	ng/dry g						0	30	PASS	
Heptachlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g						0	30	PASS	
Kepone	NA	ND	1	5	ng/dry g						0	30	PASS	
Methoxychlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Mirex	NA	ND	1	5	ng/dry g						0	30	PASS	
Oxychlordane	NA	ND	1	5	ng/dry g						0	30	PASS	
Perthane	NA	ND	5	10	ng/dry g						0	30	PASS	
Toxaphene	NA	ND	10	50	ng/dry g						0	30	PASS	
trans-Nonachlor	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

General Chemistry

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: Lab Blank	27166c 60906-B1	QAQC Procedural Blank									Prepared 12/18/2007			Analyzed 18-Dec-07	
					DI Water										
Percent Solids	NA	ND	0.1	0.1	Percent										
TRPH	NA	ND	0.01	0.02	% Dry Weight										
Batch ID: Blank Spike	27166c-5026001 60906-BS1	QAQC Procedural Blank								Prepared 12/18/2007			Analyzed 18-Dec-07		
					DI Water										
TRPH	NA	18.6	0.01	0.02	% Dry Weight	20.27	0	92	70 - 130%	PASS					
Batch ID: Blank Spike Dup	27166c-5026001 60906-BS2	QAQC Procedural Blank								Prepared 12/18/2007			Analyzed 18-Dec-07		
					DI Water										
TRPH	NA	19.5	0.01	0.02	% Dry Weight	20.27	0	96	70 - 130%	PASS	4	30	PASS		
Batch ID: Matrix Spike	27166c-5026001 60907-MS1	LB-MVP-COMP-A		COMP-A						Prepared 12/18/2007			Analyzed 18-Dec-07		
					Sediment										
TRPH	NA	0.2	0.01	0.02	% Dry Weight	0.168	0.05	89	70 - 130%	PASS					
Batch ID: Matrix Spike Dup	27166c-5026001 60907-MS2	LB-MVP-COMP-A		COMP-A						Prepared 12/18/2007			Analyzed 18-Dec-07		
					Sediment										
TRPH	NA	0.23	0.01	0.02	% Dry Weight	0.188	0.05	96	70 - 130%	PASS	8	30	PASS		
Batch ID: Lab Dup	27166c 60907-R2	LB-MVP-COMP-A		COMP-A						Prepared 12/18/2007			Analyzed 18-Dec-07		
					Sediment										
Percent Solids	NA	78.2	0.1	0.1	Percent						1	30	PASS		
pH	NA	8.8	0.1	0.2	pH Units						0	30	PASS		
TRPH	NA	0.05	0.01	0.02	% Dry Weight						0	30	PASS		

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB128	NA	ND	1	5	ng/dry g									
PCB138	NA	ND	1	5	ng/dry g									
PCB141	NA	ND	1	5	ng/dry g									
PCB149	NA	ND	1	5	ng/dry g									
PCB151	NA	ND	1	5	ng/dry g									
PCB153	NA	ND	1	5	ng/dry g									
PCB156	NA	ND	1	5	ng/dry g									
PCB157	NA	ND	1	5	ng/dry g									
PCB158	NA	ND	1	5	ng/dry g									
PCB167	NA	ND	1	5	ng/dry g									
PCB168+132	NA	ND	1	5	ng/dry g									
PCB169	NA	ND	1	5	ng/dry g									
PCB170	NA	ND	1	5	ng/dry g									
PCB177	NA	ND	1	5	ng/dry g									
PCB180	NA	ND	1	5	ng/dry g									
PCB183	NA	ND	1	5	ng/dry g									
PCB187	NA	ND	1	5	ng/dry g									
PCB189	NA	ND	1	5	ng/dry g									
PCB194	NA	ND	1	5	ng/dry g									
PCB195	NA	ND	1	5	ng/dry g									
PCB200	NA	ND	1	5	ng/dry g									
PCB201	NA	ND	1	5	ng/dry g									
PCB206	NA	ND	1	5	ng/dry g									
PCB209	NA	ND	1	5	ng/dry g									
Batch ID:	27166c-33117	QAQC Procedural Blank				Prepared 12/26/2007				Analyzed 29-Dec-07				
Blank Spike	60906-BS1	DI Water												
PCB008	NA	15.3	1	5	ng/dry g	22.8	0	67	60 - 125%	PASS				
PCB018	NA	14.9	1	5	ng/dry g	22.8	0	65	60 - 125%	PASS				

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB028	NA	16.5	1	5	ng/dry g	22.8	0	72	60 - 125%	PASS				
PCB031	NA	15.2	1	5	ng/dry g	22.8	0	67	60 - 125%	PASS				
PCB033	NA	16.6	1	5	ng/dry g	22.8	0	73	60 - 125%	PASS				
PCB037	NA	17.5	1	5	ng/dry g	22.8	0	77	60 - 125%	PASS				
PCB044	NA	18.3	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS				
PCB049	NA	17.4	1	5	ng/dry g	22.8	0	76	60 - 125%	PASS				
PCB052	NA	16.2	1	5	ng/dry g	22.8	0	71	60 - 125%	PASS				
PCB066	NA	18.5	1	5	ng/dry g	22.8	0	81	60 - 125%	PASS				
PCB070	NA	17.2	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS				
PCB074	NA	18.3	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS				
PCB077	NA	18.2	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS				
PCB081	NA	18.2	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS				
PCB087	NA	17.5	1	5	ng/dry g	22.8	0	77	60 - 125%	PASS				
PCB095	NA	18	1	5	ng/dry g	22.8	0	79	60 - 125%	PASS				
PCB097	NA	18	1	5	ng/dry g	22.8	0	79	60 - 125%	PASS				
PCB099	NA	18.1	1	5	ng/dry g	22.8	0	79	60 - 125%	PASS				
PCB101	NA	17.6	1	5	ng/dry g	22.8	0	77	60 - 125%	PASS				
PCB105	NA	18.4	1	5	ng/dry g	22.8	0	81	60 - 125%	PASS				
PCB110	NA	18.9	1	5	ng/dry g	22.8	0	83	60 - 125%	PASS				
PCB114	NA	19.2	1	5	ng/dry g	22.8	0	84	60 - 125%	PASS				
PCB118	NA	20.6	1	5	ng/dry g	22.8	0	90	60 - 125%	PASS				
PCB119	NA	17.5	1	5	ng/dry g	22.8	0	77	60 - 125%	PASS				
PCB123	NA	17.5	1	5	ng/dry g	22.8	0	77	60 - 125%	PASS				
PCB126	NA	21	1	5	ng/dry g	22.8	0	92	60 - 125%	PASS				
PCB128	NA	19.9	1	5	ng/dry g	22.8	0	87	60 - 125%	PASS				
PCB138	NA	20	1	5	ng/dry g	22.8	0	88	60 - 125%	PASS				
PCB141	NA	19.1	1	5	ng/dry g	22.8	0	84	60 - 125%	PASS				
PCB149	NA	17.8	1	5	ng/dry g	22.8	0	78	60 - 125%	PASS				
PCB151	NA	18.5	1	5	ng/dry g	22.8	0	81	60 - 125%	PASS				

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB153	NA	16.4	1	5	ng/dry g	22.8	0	72	60 - 125%	PASS				
PCB156	NA	22.4	1	5	ng/dry g	22.8	0	98	60 - 125%	PASS				
PCB157	NA	21.3	1	5	ng/dry g	22.8	0	93	60 - 125%	PASS				
PCB158	NA	21.5	1	5	ng/dry g	22.8	0	94	60 - 125%	PASS				
PCB167	NA	21.1	1	5	ng/dry g	22.8	0	93	60 - 125%	PASS				
PCB168+132	NA	38.8	1	5	ng/dry g	45.6	0	85	60 - 125%	PASS				
PCB169	NA	24	1	5	ng/dry g	22.8	0	105	60 - 125%	PASS				
PCB170	NA	23.7	1	5	ng/dry g	22.8	0	104	60 - 125%	PASS				
PCB177	NA	19.9	1	5	ng/dry g	22.8	0	87	60 - 125%	PASS				
PCB180	NA	22.8	1	5	ng/dry g	22.8	0	100	60 - 125%	PASS				
PCB183	NA	19.2	1	5	ng/dry g	22.8	0	84	60 - 125%	PASS				
PCB187	NA	21.5	1	5	ng/dry g	22.8	0	94	60 - 125%	PASS				
PCB189	NA	24.4	1	5	ng/dry g	22.8	0	107	60 - 125%	PASS				
PCB194	NA	23.9	1	5	ng/dry g	22.8	0	105	60 - 125%	PASS				
PCB195	NA	21.5	1	5	ng/dry g	22.8	0	94	60 - 125%	PASS				
PCB200	NA	20.9	1	5	ng/dry g	22.8	0	92	60 - 125%	PASS				
PCB201	NA	23.7	1	5	ng/dry g	22.8	0	104	60 - 125%	PASS				
PCB206	NA	27.4	1	5	ng/dry g	22.8	0	120	60 - 125%	PASS				
PCB209	NA	27.1	1	5	ng/dry g	22.8	0	119	60 - 125%	PASS				

Batch ID: 27166c-33117
Blank Spike Dup 60906-BS2

QAQC Procedural Blank
DI Water

Prepared 12/26/2007

Analyzed 29-Dec-07

PCB008	NA	14.6	1	5	ng/dry g	22.8	0	64	60 - 125%	PASS	5	30	PASS	
PCB018	NA	15	1	5	ng/dry g	22.8	0	66	60 - 125%	PASS	2	30	PASS	
PCB028	NA	15.1	1	5	ng/dry g	22.8	0	66	60 - 125%	PASS	9	30	PASS	
PCB031	NA	17	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	11	30	PASS	
PCB033	NA	16	1	5	ng/dry g	22.8	0	70	60 - 125%	PASS	4	30	PASS	
PCB037	NA	17.2	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	3	30	PASS	
PCB044	NA	16.8	1	5	ng/dry g	22.8	0	74	60 - 125%	PASS	8	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB049	NA	16.1	1	5	ng/dry g	22.8	0	71	60 - 125%	PASS	7	30	PASS	
PCB052	NA	15.5	1	5	ng/dry g	22.8	0	68	60 - 125%	PASS	4	30	PASS	
PCB066	NA	17.1	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	8	30	PASS	
PCB070	NA	16.7	1	5	ng/dry g	22.8	0	73	60 - 125%	PASS	3	30	PASS	
PCB074	NA	17.4	1	5	ng/dry g	22.8	0	76	60 - 125%	PASS	5	30	PASS	
PCB077	NA	18.1	1	5	ng/dry g	22.8	0	79	60 - 125%	PASS	1	30	PASS	
PCB081	NA	17.8	1	5	ng/dry g	22.8	0	78	60 - 125%	PASS	3	30	PASS	
PCB087	NA	18.5	1	5	ng/dry g	22.8	0	81	60 - 125%	PASS	5	30	PASS	
PCB095	NA	16.8	1	5	ng/dry g	22.8	0	74	60 - 125%	PASS	7	30	PASS	
PCB097	NA	16.5	1	5	ng/dry g	22.8	0	72	60 - 125%	PASS	9	30	PASS	
PCB099	NA	16.9	1	5	ng/dry g	22.8	0	74	60 - 125%	PASS	7	30	PASS	
PCB101	NA	18.7	1	5	ng/dry g	22.8	0	82	60 - 125%	PASS	6	30	PASS	
PCB105	NA	17.5	1	5	ng/dry g	22.8	0	77	60 - 125%	PASS	5	30	PASS	
PCB110	NA	17.1	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	10	30	PASS	
PCB114	NA	18.3	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS	5	30	PASS	
PCB118	NA	17.8	1	5	ng/dry g	22.8	0	78	60 - 125%	PASS	14	30	PASS	
PCB119	NA	17	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	3	30	PASS	
PCB123	NA	17.2	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	3	30	PASS	
PCB126	NA	18.2	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS	14	30	PASS	
PCB128	NA	19.3	1	5	ng/dry g	22.8	0	85	60 - 125%	PASS	2	30	PASS	
PCB138	NA	19.8	1	5	ng/dry g	22.8	0	87	60 - 125%	PASS	1	30	PASS	
PCB141	NA	18.4	1	5	ng/dry g	22.8	0	81	60 - 125%	PASS	4	30	PASS	
PCB149	NA	17	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	4	30	PASS	
PCB151	NA	17	1	5	ng/dry g	22.8	0	75	60 - 125%	PASS	8	30	PASS	
PCB153	NA	16.3	1	5	ng/dry g	22.8	0	71	60 - 125%	PASS	0	30	PASS	
PCB156	NA	20.5	1	5	ng/dry g	22.8	0	90	60 - 125%	PASS	9	30	PASS	
PCB157	NA	20.6	1	5	ng/dry g	22.8	0	90	60 - 125%	PASS	3	30	PASS	
PCB158	NA	18.9	1	5	ng/dry g	22.8	0	83	60 - 125%	PASS	12	30	PASS	
PCB167	NA	20.2	1	5	ng/dry g	22.8	0	89	60 - 125%	PASS	4	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB168+132	NA	37.6	1	5	ng/dry g	45.6	0	82	60 - 125%	PASS	2	30	PASS	
PCB169	NA	22.7	1	5	ng/dry g	22.8	0	100	60 - 125%	PASS	5	30	PASS	
PCB170	NA	21.5	1	5	ng/dry g	22.8	0	94	60 - 125%	PASS	10	30	PASS	
PCB177	NA	20	1	5	ng/dry g	22.8	0	88	60 - 125%	PASS	1	30	PASS	
PCB180	NA	6.8	1	5	ng/dry g	22.8	0	30	60 - 125%	FAIL	108	30	FAIL	
PCB183	NA	18.2	1	5	ng/dry g	22.8	0	80	60 - 125%	PASS	5	30	PASS	
PCB187	NA	19.8	1	5	ng/dry g	22.8	0	87	60 - 125%	PASS	8	30	PASS	
PCB189	NA	21	1	5	ng/dry g	22.8	0	92	60 - 125%	PASS	15	30	PASS	
PCB194	NA	24.1	1	5	ng/dry g	22.8	0	106	60 - 125%	PASS	1	30	PASS	
PCB195	NA	19.5	1	5	ng/dry g	22.8	0	86	60 - 125%	PASS	9	30	PASS	
PCB200	NA	20.3	1	5	ng/dry g	22.8	0	89	60 - 125%	PASS	3	30	PASS	
PCB201	NA	21.9	1	5	ng/dry g	22.8	0	96	60 - 125%	PASS	8	30	PASS	
PCB206	NA	23	1	5	ng/dry g	22.8	0	101	60 - 125%	PASS	17	30	PASS	
PCB209	NA	26	1	5	ng/dry g	22.8	0	114	60 - 125%	PASS	4	30	PASS	

Batch ID: 27166c-33117
Matrix Spike 60910-MS1

LB-MVP-COMP-D COMP-D
Sediment

Prepared 12/26/2007

Analyzed 29-Dec-07

PCB008	NA	19.4	1	5	ng/dry g	22.4	0	87	60 - 125%	PASS				
PCB018	NA	18.8	1	5	ng/dry g	22.4	0	84	60 - 125%	PASS				
PCB028	NA	19.1	1	5	ng/dry g	22.4	0	85	60 - 125%	PASS				
PCB031	NA	17.1	1	5	ng/dry g	22.4	0	76	60 - 125%	PASS				
PCB033	NA	19.6	1	5	ng/dry g	22.4	0	88	60 - 125%	PASS				
PCB037	NA	20.9	1	5	ng/dry g	22.4	0	93	60 - 125%	PASS				
PCB044	NA	18.6	1	5	ng/dry g	22.4	0	83	60 - 125%	PASS				
PCB049	NA	18.6	1	5	ng/dry g	22.4	0	83	60 - 125%	PASS				
PCB052	NA	18.7	1	5	ng/dry g	22.4	0	83	60 - 125%	PASS				
PCB066	NA	19.1	1	5	ng/dry g	22.4	0	85	60 - 125%	PASS				
PCB070	NA	17.8	1	5	ng/dry g	22.4	0	79	60 - 125%	PASS				
PCB074	NA	19.1	1	5	ng/dry g	22.4	0	85	60 - 125%	PASS				

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB077	NA	18.9	1	5	ng/dry g	22.4	1.5	78	60 - 125%	PASS				
PCB081	NA	19.2	1	5	ng/dry g	22.4	0	86	60 - 125%	PASS				
PCB087	NA	18.6	1	5	ng/dry g	22.4	0	83	60 - 125%	PASS				
PCB095	NA	19.6	1	5	ng/dry g	22.4	0.9	83	60 - 125%	PASS				
PCB097	NA	17.6	1	5	ng/dry g	22.4	0	79	60 - 125%	PASS				
PCB099	NA	17.9	1	5	ng/dry g	22.4	0	80	60 - 125%	PASS				
PCB101	NA	22	1	5	ng/dry g	22.4	0	98	60 - 125%	PASS				
PCB105	NA	18.2	1	5	ng/dry g	22.4	0	81	60 - 125%	PASS				
PCB110	NA	20.8	1	5	ng/dry g	22.4	0	93	60 - 125%	PASS				
PCB114	NA	14.6	1	5	ng/dry g	22.4	0	65	60 - 125%	PASS				
PCB118	NA	18.5	1	5	ng/dry g	22.4	0	83	60 - 125%	PASS				
PCB119	NA	17.6	1	5	ng/dry g	22.4	0	79	60 - 125%	PASS				
PCB123	NA	16.5	1	5	ng/dry g	22.4	0	74	60 - 125%	PASS				
PCB126	NA	16.4	1	5	ng/dry g	22.4	0	73	60 - 125%	PASS				
PCB128	NA	19.6	1	5	ng/dry g	22.4	0	88	60 - 125%	PASS				
PCB138	NA	21.4	1	5	ng/dry g	22.4	0	96	60 - 125%	PASS				
PCB141	NA	18.7	1	5	ng/dry g	22.4	0	83	60 - 125%	PASS				
PCB149	NA	20.5	1	5	ng/dry g	22.4	0	92	60 - 125%	PASS				
PCB151	NA	19.9	1	5	ng/dry g	22.4	0	89	60 - 125%	PASS				
PCB153	NA	20.5	1	5	ng/dry g	22.4	0	92	60 - 125%	PASS				
PCB156	NA	15.7	1	5	ng/dry g	22.4	0	70	60 - 125%	PASS				
PCB157	NA	17.3	1	5	ng/dry g	22.4	0	77	60 - 125%	PASS				
PCB158	NA	17	1	5	ng/dry g	22.4	0	76	60 - 125%	PASS				
PCB167	NA	17.6	1	5	ng/dry g	22.4	0	79	60 - 125%	PASS				
PCB168+132	NA	36.8	1	5	ng/dry g	44.7	0.6	81	60 - 125%	PASS				
PCB169	NA	20.4	1	5	ng/dry g	22.4	0	91	60 - 125%	PASS				
PCB170	NA	21.5	1	5	ng/dry g	22.4	0	96	60 - 125%	PASS				
PCB177	NA	18.4	1	5	ng/dry g	22.4	0	82	60 - 125%	PASS				
PCB180	NA	19.5	1	5	ng/dry g	22.4	0	87	60 - 125%	PASS				

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB183	NA	19.9	1	5	ng/dry g	22.4	0	89	60 - 125%	PASS				
PCB187	NA	19.7	1	5	ng/dry g	22.4	0	88	60 - 125%	PASS				
PCB189	NA	17.7	1	5	ng/dry g	22.4	0	79	60 - 125%	PASS				
PCB194	NA	22.3	1	5	ng/dry g	22.4	0	100	60 - 125%	PASS				
PCB195	NA	17.9	1	5	ng/dry g	22.4	0.7	77	60 - 125%	PASS				
PCB200	NA	17.3	1	5	ng/dry g	22.4	0	77	60 - 125%	PASS				
PCB201	NA	18.1	1	5	ng/dry g	22.4	0	81	60 - 125%	PASS				
PCB206	NA	21.3	1	5	ng/dry g	22.4	0	95	60 - 125%	PASS				
PCB209	NA	25.2	1	5	ng/dry g	22.4	0	112	60 - 125%	PASS				

Batch ID: 27166c-33117
Matrix Spike Dup 60910-MS2

LB-MVP-COMP-D COMP-D
Sediment

Prepared 12/26/2007

Analyzed 29-Dec-07

PCB008	NA	19.2	1	5	ng/dry g	21.6	0	89	60 - 125%	PASS	2	30	PASS	
PCB018	NA	18.3	1	5	ng/dry g	21.6	0	85	60 - 125%	PASS	1	30	PASS	
PCB028	NA	19.6	1	5	ng/dry g	21.6	0	91	60 - 125%	PASS	7	30	PASS	
PCB031	NA	17.7	1	5	ng/dry g	21.6	0	82	60 - 125%	PASS	8	30	PASS	
PCB033	NA	18.9	1	5	ng/dry g	21.6	0	87	60 - 125%	PASS	1	30	PASS	
PCB037	NA	19.2	1	5	ng/dry g	21.6	0	89	60 - 125%	PASS	4	30	PASS	
PCB044	NA	16.7	1	5	ng/dry g	21.6	0	77	60 - 125%	PASS	8	30	PASS	
PCB049	NA	18.4	1	5	ng/dry g	21.6	0	85	60 - 125%	PASS	2	30	PASS	
PCB052	NA	18	1	5	ng/dry g	21.6	0	83	60 - 125%	PASS	1	30	PASS	
PCB066	NA	19.1	1	5	ng/dry g	21.6	0	88	60 - 125%	PASS	3	30	PASS	
PCB070	NA	17.6	1	5	ng/dry g	21.6	0	81	60 - 125%	PASS	1	30	PASS	
PCB074	NA	18.8	1	5	ng/dry g	21.6	0	87	60 - 125%	PASS	2	30	PASS	
PCB077	NA	16.9	1	5	ng/dry g	21.6	1.5	71	60 - 125%	PASS	8	30	PASS	
PCB081	NA	18.1	1	5	ng/dry g	21.6	0	84	60 - 125%	PASS	2	30	PASS	
PCB087	NA	18.5	1	5	ng/dry g	21.6	0	86	60 - 125%	PASS	4	30	PASS	
PCB095	NA	17.5	1	5	ng/dry g	21.6	0.9	77	60 - 125%	PASS	9	30	PASS	
PCB097	NA	18.3	1	5	ng/dry g	21.6	0	85	60 - 125%	PASS	7	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB099	NA	18	1	5	ng/dry g	21.6	0	83	60 - 125%	PASS	4	30	PASS	
PCB101	NA	17.6	1	5	ng/dry g	21.6	0	81	60 - 125%	PASS	19	30	PASS	
PCB105	NA	17.7	1	5	ng/dry g	21.6	0	82	60 - 125%	PASS	1	30	PASS	
PCB110	NA	19.3	1	5	ng/dry g	21.6	0	89	60 - 125%	PASS	4	30	PASS	
PCB114	NA	14.7	1	5	ng/dry g	21.6	0	68	60 - 125%	PASS	5	30	PASS	
PCB118	NA	18.6	1	5	ng/dry g	21.6	0	86	60 - 125%	PASS	4	30	PASS	
PCB119	NA	16.6	1	5	ng/dry g	21.6	0	77	60 - 125%	PASS	3	30	PASS	
PCB123	NA	16.7	1	5	ng/dry g	21.6	0	77	60 - 125%	PASS	4	30	PASS	
PCB126	NA	17.8	1	5	ng/dry g	21.6	0	82	60 - 125%	PASS	12	30	PASS	
PCB128	NA	14.2	1	5	ng/dry g	21.6	0	66	60 - 125%	PASS	29	30	PASS	
PCB138	NA	20.6	1	5	ng/dry g	21.6	0	95	60 - 125%	PASS	1	30	PASS	
PCB141	NA	18.5	1	5	ng/dry g	21.6	0	86	60 - 125%	PASS	2	30	PASS	
PCB149	NA	17.4	1	5	ng/dry g	21.6	0	81	60 - 125%	PASS	13	30	PASS	
PCB151	NA	16.9	1	5	ng/dry g	21.6	0	78	60 - 125%	PASS	13	30	PASS	
PCB153	NA	18.1	1	5	ng/dry g	21.6	0	84	60 - 125%	PASS	9	30	PASS	
PCB156	NA	14.2	1	5	ng/dry g	21.6	0	66	60 - 125%	PASS	6	30	PASS	
PCB157	NA	15.6	1	5	ng/dry g	21.6	0	72	60 - 125%	PASS	7	30	PASS	
PCB158	NA	16	1	5	ng/dry g	21.6	0	74	60 - 125%	PASS	3	30	PASS	
PCB167	NA	17	1	5	ng/dry g	21.6	0	79	60 - 125%	PASS	0	30	PASS	
PCB168+132	NA	37.4	1	5	ng/dry g	43.2	0.6	85	60 - 125%	PASS	5	30	PASS	
PCB169	NA	24.6	1	5	ng/dry g	21.6	0	114	60 - 125%	PASS	22	30	PASS	
PCB170	NA	20.4	1	5	ng/dry g	21.6	0	94	60 - 125%	PASS	2	30	PASS	
PCB177	NA	19.5	1	5	ng/dry g	21.6	0	90	60 - 125%	PASS	9	30	PASS	
PCB180	NA	18.6	1	5	ng/dry g	21.6	0	86	60 - 125%	PASS	1	30	PASS	
PCB183	NA	17	1	5	ng/dry g	21.6	0	79	60 - 125%	PASS	12	30	PASS	
PCB187	NA	17.3	1	5	ng/dry g	21.6	0	80	60 - 125%	PASS	10	30	PASS	
PCB189	NA	15.1	1	5	ng/dry g	21.6	0	70	60 - 125%	PASS	12	30	PASS	
PCB194	NA	22.1	1	5	ng/dry g	21.6	0	102	60 - 125%	PASS	2	30	PASS	
PCB195	NA	22.1	1	5	ng/dry g	21.6	0.7	99	60 - 125%	PASS	25	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB200	NA	18.1	1	5	ng/dry g	21.6	0	84	60 - 125%	PASS	9	30	PASS	
PCB201	NA	17.9	1	5	ng/dry g	21.6	0	83	60 - 125%	PASS	2	30	PASS	
PCB206	NA	18.1	1	5	ng/dry g	21.6	0	84	60 - 125%	PASS	12	30	PASS	
PCB209	NA	22.4	1	5	ng/dry g	21.6	0	104	60 - 125%	PASS	8	30	PASS	
Batch ID:	27166c-33117	LB-MVP-COMP-D COMP-D							Prepared 12/26/2007	Analyzed 29-Dec-07				
Lab Dup	60910-R2	Sediment												
PCB008	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB018	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB028	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB031	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB033	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB037	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB044	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB049	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB052	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB066	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB070	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB074	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB077	NA	1.7	1	5	ng/dry g						34	30	FAIL	J,Q3
PCB081	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB087	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB095	NA	1.7	1	5	ng/dry g						52	30	FAIL	J,Q3
PCB097	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB099	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB101	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB105	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB110	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB114	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB118	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB119	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB123	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB126	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB128	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB138	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB141	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB149	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB151	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB153	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB156	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB157	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB158	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB167	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB168+132	NA	1.1	1	5	ng/dry g						10	30	PASS	J
PCB169	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB170	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB177	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB180	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB183	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB187	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB189	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB194	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB195	NA	1.4	1	5	ng/dry g						33	30	FAIL	J,Q3
PCB200	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB201	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB206	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB209	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Naphthalene	NA	ND	1	5	ng/dry g									
Perylene	NA	ND	1	5	ng/dry g									
Phenanthrene	NA	ND	1	5	ng/dry g									
Pyrene	NA	ND	1	5	ng/dry g									
Batch ID:	27166c-33117		QAQC Procedural Blank			Prepared 12/26/2007			Analyzed 29-Dec-07					
Blank Spike	60906-BS1		DI Water											
(d10-Acenaphthene)	NA	73			% Recovery	100	0	73	40 - 115%	PASS				
(d10-Phenanthrene)	NA	85			% Recovery	100	0	85	60 - 115%	PASS				
(d12-Chrysene)	NA	105			% Recovery	100	0	105	60 - 130%	PASS				
(d12-Perylene)	NA	106			% Recovery	100	0	106	55 - 135%	PASS				
(d8-Naphthalene)	NA	67			% Recovery	100	0	67	25 - 105%	PASS				
1-Methylnaphthalene	NA	41.1	1	5	ng/dry g	57	0	72	40 - 120%	PASS				
1-Methylphenanthrene	NA	51.6	1	5	ng/dry g	57	0	91	40 - 160%	PASS				
2,3,5-Trimethylnaphthalene	NA	42.3	1	5	ng/dry g	57	0	74	45 - 120%	PASS				
2,6-Dimethylnaphthalene	NA	41.3	1	5	ng/dry g	57	0	72	40 - 130%	PASS				
2-Methylnaphthalene	NA	41.9	1	5	ng/dry g	57	0	74	35 - 125%	PASS				
Acenaphthene	NA	42.3	1	5	ng/dry g	57	0	74	40 - 125%	PASS				
Acenaphthylene	NA	41	1	5	ng/dry g	57	0	72	40 - 130%	PASS				
Anthracene	NA	46.2	1	5	ng/dry g	57	0	81	45 - 150%	PASS				
Benz[a]anthracene	NA	65	1	5	ng/dry g	57	0	114	50- 175%	PASS				
Benzo[a]pyrene	NA	64.1	1	5	ng/dry g	57	0	112	50 - 160%	PASS				
Benzo[b]fluoranthene	NA	66.7	1	5	ng/dry g	57	0	117	45 - 160%	PASS				
Benzo[e]pyrene	NA	67.2	1	5	ng/dry g	57	0	118	40 - 160%	PASS				
Benzo[g,h,i]perylene	NA	66.6	1	5	ng/dry g	57	0	117	30 - 170%	PASS				
Benzo[k]fluoranthene	NA	66.4	1	5	ng/dry g	57	0	116	50 - 150%	PASS				
Biphenyl	NA	41.2	1	5	ng/dry g	57	0	72	45 - 120%	PASS				
Chrysene	NA	64.6	1	5	ng/dry g	57	0	113	40 - 160%	PASS				
Dibenz[a,h]anthracene	NA	63.9	1	5	ng/dry g	57	0	112	40 - 165%	PASS				

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Dibenzothiophene	NA	50.7	1	5	ng/dry g	57	0	89	65 - 125%	PASS				
Fluoranthene	NA	57.1	1	5	ng/dry g	57	0	100	45 - 165%	PASS				
Fluorene	NA	42.5	1	5	ng/dry g	57	0	75	55 - 150%	PASS				
Indeno[1,2,3-c,d]pyrene	NA	64.2	1	5	ng/dry g	57	0	113	40 - 170%	PASS				
Naphthalene	NA	40.3	1	5	ng/dry g	57	0	71	30 - 120%	PASS				
Perylene	NA	64.9	1	5	ng/dry g	57	0	114	30 - 175%	PASS				
Phenanthrene	NA	48.4	1	5	ng/dry g	57	0	85	35 - 160%	PASS				
Pyrene	NA	58.3	1	5	ng/dry g	57	0	102	50 - 150%	PASS				

Batch ID: 27166c-33117
Blank Spike Dup 60906-BS2

QAQC Procedural Blank
DI Water

Prepared 12/26/2007

Analyzed 29-Dec-07

(d10-Acenaphthene)	NA	68			% Recovery	100	0	68	40 - 115%	PASS	7	30	PASS	
(d10-Phenanthrene)	NA	79			% Recovery	100	0	79	60 - 115%	PASS	7	30	PASS	
(d12-Chrysene)	NA	97			% Recovery	100	0	97	60 - 130%	PASS	8	30	PASS	
(d12-Perylene)	NA	94			% Recovery	100	0	94	55 - 135%	PASS	12	30	PASS	
(d8-Naphthalene)	NA	63			% Recovery	100	0	63	25 - 105%	PASS	6	30	PASS	
1-Methylnaphthalene	NA	37.3	1	5	ng/dry g	57	0	65	40 - 120%	PASS	10	30	PASS	
1-Methylphenanthrene	NA	46.9	1	5	ng/dry g	57	0	82	40 - 160%	PASS	10	30	PASS	
2,3,5-Trimethylnaphthalene	NA	39	1	5	ng/dry g	57	0	68	45 - 120%	PASS	8	30	PASS	
2,6-Dimethylnaphthalene	NA	37.7	1	5	ng/dry g	57	0	66	40 - 130%	PASS	10	30	PASS	
2-Methylnaphthalene	NA	37.8	1	5	ng/dry g	57	0	66	35 - 125%	PASS	11	30	PASS	
Acenaphthene	NA	38	1	5	ng/dry g	57	0	67	40 - 125%	PASS	10	30	PASS	
Acenaphthylene	NA	37.5	1	5	ng/dry g	57	0	66	40 - 130%	PASS	9	30	PASS	
Anthracene	NA	41.4	1	5	ng/dry g	57	0	73	45 - 150%	PASS	10	30	PASS	
Benz[a]anthracene	NA	62.8	1	5	ng/dry g	57	0	110	50- 175%	PASS	4	30	PASS	
Benzo[a]pyrene	NA	68	1	5	ng/dry g	57	0	119	50 - 160%	PASS	5	30	PASS	
Benzo[b]fluoranthene	NA	69.1	1	5	ng/dry g	57	0	121	45 - 160%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	64.2	1	5	ng/dry g	57	0	113	40 - 160%	PASS	4	30	PASS	
Benzo[g,h,i]perylene	NA	68	1	5	ng/dry g	57	0	119	30 - 170%	PASS	2	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Benzo[k]fluoranthene	NA	67.4	1	5	ng/dry g	57	0	118	50 - 150%	PASS	1	30	PASS	
Biphenyl	NA	37.6	1	5	ng/dry g	57	0	66	45 - 120%	PASS	9	30	PASS	
Chrysene	NA	62.5	1	5	ng/dry g	57	0	110	40 - 160%	PASS	3	30	PASS	
Dibenz[a,h]anthracene	NA	63.7	1	5	ng/dry g	57	0	112	40 - 165%	PASS	0	30	PASS	
Dibenzothiophene	NA	45.8	1	5	ng/dry g	57	0	80	65 - 125%	PASS	11	30	PASS	
Fluoranthene	NA	50.8	1	5	ng/dry g	57	0	89	45 - 165%	PASS	12	30	PASS	
Fluorene	NA	41	1	5	ng/dry g	57	0	72	55 - 150%	PASS	4	30	PASS	
Indeno[1,2,3-c,d]pyrene	NA	66.6	1	5	ng/dry g	57	0	117	40 - 170%	PASS	3	30	PASS	
Naphthalene	NA	34.4	1	5	ng/dry g	57	0	60	30 - 120%	PASS	17	30	PASS	
Perylene	NA	63.1	1	5	ng/dry g	57	0	111	30 - 175%	PASS	3	30	PASS	
Phenanthrene	NA	44.5	1	5	ng/dry g	57	0	78	35 - 160%	PASS	9	30	PASS	
Pyrene	NA	52.5	1	5	ng/dry g	57	0	92	50 - 150%	PASS	10	30	PASS	

Batch ID:	27166c-33117	LB-MVP-COMP-D	COMP-D	Prepared 12/26/2007					Analyzed 29-Dec-07					
Matrix Spike	60910-MS1	Sediment												
(d10-Acenaphthene)	NA	84			% Recovery	100	0	84	40 - 115%	PASS				
(d10-Phenanthrene)	NA	91			% Recovery	100	0	91	60 - 115%	PASS				
(d12-Chrysene)	NA	89			% Recovery	100	0	89	60 - 130%	PASS				
(d12-Perylene)	NA	92			% Recovery	100	0	92	55 - 135%	PASS				
(d8-Naphthalene)	NA	77			% Recovery	100	0	77	25 - 105%	PASS				
1-Methylnaphthalene	NA	59.9	1	5	ng/dry g	55.9	36	43	40 - 120%	PASS				
1-Methylphenanthrene	NA	69.6	1	5	ng/dry g	55.9	29.5	72	40 - 160%	PASS				
2,3,5-Trimethylnaphthalene	NA	52.6	1	5	ng/dry g	55.9	10.5	75	45 - 120%	PASS				
2,6-Dimethylnaphthalene	NA	58.9	1	5	ng/dry g	55.9	27.3	57	40 - 130%	PASS				
2-Methylnaphthalene	NA	56	1	5	ng/dry g	55.9	31.7	43	35 - 125%	PASS				
Acenaphthene	NA	65.5	1	5	ng/dry g	55.9	25.4	72	40 - 125%	PASS				
Acenaphthylene	NA	35.3	1	5	ng/dry g	55.9	0.6	62	40 - 130%	PASS				
Anthracene	NA	61.5	1	5	ng/dry g	55.9	25.5	64	45 - 150%	PASS				
Benz[a]anthracene	NA	68.4	1	5	ng/dry g	55.9	28.3	72	50 - 175%	PASS				

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Benzo[a]pyrene	NA	72.3	1	5	ng/dry g	55.9	34.2	68	50 - 160%	PASS				
Benzo[b]fluoranthene	NA	59.3	1	5	ng/dry g	55.9	16.7	76	45 - 160%	PASS				
Benzo[e]pyrene	NA	57.5	1	5	ng/dry g	55.9	28	53	40 - 160%	PASS				
Benzo[g,h,i]perylene	NA	44.1	1	5	ng/dry g	55.9	16.1	50	30 - 170%	PASS				
Benzo[k]fluoranthene	NA	48.5	1	5	ng/dry g	55.9	31	31	50 - 150%	FAIL				
Biphenyl	NA	41.4	1	5	ng/dry g	55.9	8.1	60	45 - 120%	PASS				
Chrysene	NA	104.7	1	5	ng/dry g	55.9	70.4	61	40 - 160%	PASS				
Dibenz[a,h]anthracene	NA	45.7	1	5	ng/dry g	55.9	7.8	68	40 - 165%	PASS				
Dibenzothiophene	NA	56.1	1	5	ng/dry g	55.9	14.6	74	65 - 125%	PASS				
Fluoranthene	NA	101.1	1	5	ng/dry g	55.9	70.1	55	45 - 165%	PASS				
Fluorene	NA	63	1	5	ng/dry g	55.9	21.6	74	55 - 150%	PASS				
Indeno[1,2,3-c,d]pyrene	NA	39.8	1	5	ng/dry g	55.9	7.3	58	40 - 170%	PASS				
Naphthalene	NA	63.7	1	5	ng/dry g	55.9	87	-42	30 - 120%	FAIL				Q1
Perylene	NA	144.8	1	5	ng/dry g	55.9	155	-18	30 - 175%	FAIL				Q1
Phenanthrene	NA	134	1	5	ng/dry g	55.9	119.7	26	35 - 160%	FAIL				Q1
Pyrene	NA	105.2	1	5	ng/dry g	55.9	76.3	52	50 - 150%	PASS				

Batch ID:	27166c-33117	LB-MVP-COMP-D	COMP-D	Prepared 12/26/2007					Analyzed 29-Dec-07					
Matrix Spike Dup	60910-MS2	Sediment												
(d10-Acenaphthene)	NA	79			% Recovery	100	0	79	40 - 115%	PASS	0	30	PASS	
(d10-Phenanthrene)	NA	83			% Recovery	100	0	83	60 - 115%	PASS	0	30	PASS	
(d12-Chrysene)	NA	86			% Recovery	100	0	86	60 - 130%	PASS	0	30	PASS	
(d12-Perylene)	NA	86			% Recovery	100	0	86	55 - 135%	PASS	0	30	PASS	
(d8-Naphthalene)	NA	73			% Recovery	100	0	73	25 - 105%	PASS	0	30	PASS	
1-Methylnaphthalene	NA	67.5	1	5	ng/dry g	54	36	58	40 - 120%	PASS	30	30	PASS	
1-Methylphenanthrene	NA	274.9	1	5	ng/dry g	54	29.5	454	40 - 160%	FAIL	145	30	FAIL	Q2
2,3,5-Trimethylnaphthalene	NA	64.2	1	5	ng/dry g	54	10.5	99	45 - 120%	PASS	28	30	PASS	
2,6-Dimethylnaphthalene	NA	78.4	1	5	ng/dry g	54	27.3	95	40 - 130%	PASS	50	30	FAIL	Q2
2-Methylnaphthalene	NA	63	1	5	ng/dry g	54	31.7	58	35 - 125%	PASS	30	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Acenaphthene	NA	79	1	5	ng/dry g	54	25.4	99	40 - 125%	PASS	32	30	FAIL	Q2	
Acenaphthylene	NA	35.3	1	5	ng/dry g	54	0.6	64	40 - 130%	PASS	3	30	PASS		
Anthracene	NA	236.2	1	5	ng/dry g	54	25.5	390	45 - 150%	FAIL	144	30	FAIL	Q2	
Benz[a]anthracene	NA	208.3	1	5	ng/dry g	54	28.3	333	50- 175%	FAIL	129	30	FAIL	Q2	
Benzo[a]pyrene	NA	86.9	1	5	ng/dry g	54	34.2	98	50 - 160%	PASS	36	30	FAIL	Q2	
Benzo[b]fluoranthene	NA	69.5	1	5	ng/dry g	54	16.7	98	45 - 160%	PASS	25	30	PASS		
Benzo[e]pyrene	NA	64.3	1	5	ng/dry g	54	28	67	40 - 160%	PASS	23	30	PASS		
Benzo[g,h,i]perylene	NA	37.9	1	5	ng/dry g	54	16.1	40	30 - 170%	PASS	22	30	PASS		
Benzo[k]fluoranthene	NA	50.1	1	5	ng/dry g	54	31	35	50 - 150%	FAIL	12	30	PASS		
Biphenyl	NA	39.9	1	5	ng/dry g	54	8.1	59	45 - 120%	PASS	2	30	PASS		
Chrysene	NA	186	1	5	ng/dry g	54	70.4	214	40 - 160%	FAIL	111	30	FAIL	Q2	
Dibenz[a,h]anthracene	NA	35.1	1	5	ng/dry g	54	7.8	51	40 - 165%	PASS	29	30	PASS		
Dibenzothiophene	NA	84.2	1	5	ng/dry g	54	14.6	129	65 - 125%	FAIL	54	30	FAIL	Q2	
Fluoranthene	NA	1466.3	1	5	ng/dry g	54	70.1	2586	45 - 165%	FAIL	192	30	FAIL	Q2	
Fluorene	NA	112.4	1	5	ng/dry g	54	21.6	168	55 - 150%	FAIL	78	30	FAIL	Q2	
Indeno[1,2,3-c,d]pyrene	NA	28.5	1	5	ng/dry g	54	7.3	39	40 - 170%	FAIL	39	30	FAIL	Q2	
Naphthalene	NA	58.4	1	5	ng/dry g	54	87	-53	30 - 120%	FAIL	23	30	PASS	Q1	
Perylene	NA	192.3	1	5	ng/dry g	54	155	69	30 - 175%	PASS	341	30	FAIL	Q2	
Phenanthrene	NA	838.3	1	5	ng/dry g	54	119.7	1331	35 - 160%	FAIL	192	30	FAIL	Q1	
Pyrene	NA	1459	1	5	ng/dry g	54	76.3	2561	50 - 150%	FAIL	192	30	FAIL	Q2	
Batch ID:		27166c-33117	LB-MVP-COMP-D COMP-D						Prepared 12/26/2007			Analyzed 29-Dec-07			
Lab Dup		60910-R2	Sediment												
(d10-Acenaphthene)	NA	69			% Recovery	100		69	40 - 115%	PASS	8	30	PASS		
(d10-Phenanthrene)	NA	75			% Recovery	100		75	60 - 115%	PASS	3	30	PASS		
(d12-Chrysene)	NA	71			% Recovery	100		71	60 - 130%	PASS	7	30	PASS		
(d12-Perylene)	NA	55			% Recovery	100		55	55 - 135%	PASS	15	30	PASS		
(d8-Naphthalene)	NA	57			% Recovery	100		57	25 - 105%	PASS	5	30	PASS		
1-Methylnaphthalene	NA	52.8	1	5	ng/dry g						93	30	FAIL	Q2	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
1-Methylphenanthrene	NA	34.2	1	5	ng/dry g						31	30	FAIL	Q2
2,3,5-Trimethylnaphthalene	NA	13	1	5	ng/dry g						48	30	FAIL	Q2
2,6-Dimethylnaphthalene	NA	34.6	1	5	ng/dry g						53	30	FAIL	Q2
2-Methylnaphthalene	NA	45.2	1	5	ng/dry g						85	30	FAIL	Q2
Acenaphthene	NA	33.8	1	5	ng/dry g						66	30	FAIL	Q2
Acenaphthylene	NA	1.1	1	5	ng/dry g						10	30	PASS	J
Anthracene	NA	28.9	1	5	ng/dry g						27	30	PASS	
Benz[a]anthracene	NA	37	1	5	ng/dry g						61	30	FAIL	Q2
Benzo[a]pyrene	NA	55.4	1	5	ng/dry g						124	30	FAIL	Q2
Benzo[b]fluoranthene	NA	8.3	1	5	ng/dry g						101	30	FAIL	Q3
Benzo[e]pyrene	NA	32.3	1	5	ng/dry g						31	30	FAIL	Q2
Benzo[g,h,i]perylene	NA	16.8	1	5	ng/dry g						8	30	PASS	
Benzo[k]fluoranthene	NA	48	1	5	ng/dry g						110	30	FAIL	Q2
Biphenyl	NA	12.1	1	5	ng/dry g						101	30	FAIL	Q2
Chrysene	NA	88.6	1	5	ng/dry g						52	30	FAIL	Q2
Dibenz[a,h]anthracene	NA	9.2	1	5	ng/dry g						36	30	FAIL	Q3
Dibenzothiophene	NA	16.7	1	5	ng/dry g						30	30	PASS	
Fluoranthene	NA	74.5	1	5	ng/dry g						13	30	PASS	
Fluorene	NA	24.9	1	5	ng/dry g						30	30	PASS	
Indeno[1,2,3-c,d]pyrene	NA	7.1	1	5	ng/dry g						7	30	PASS	
Naphthalene	NA	147.5	1	5	ng/dry g						139	30	FAIL	Q2
Perylene	NA	171.5	1	5	ng/dry g						21	30	PASS	
Phenanthrene	NA	124.8	1	5	ng/dry g						9	30	PASS	
Pyrene	NA	85.6	1	5	ng/dry g						24	30	PASS	

CRG Marine Laboratories, Inc.

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

Trace Metals

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Lead (Pb)	NA	ND	0.025	0.05	µg/dry g									
Mercury (Hg)	NA	ND	0.01	0.02	µg/dry g									
Nickel (Ni)	NA	ND	0.025	0.05	µg/dry g									
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g									
Silver (Ag)	NA	ND	0.025	0.05	µg/dry g									
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g									

Batch ID: 27166c-17148
Blank Spike 60906-BS1

QAQC Procedural Blank
DI Water

Prepared 12/28/2007

Analyzed 02-Jan-08

Antimony (Sb)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS				
Arsenic (As)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	70 - 130%	PASS				
Cadmium (Cd)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS				
Chromium (Cr)	NA	2	0.025	0.05	µg/dry g	2	0	100	55 - 135%	PASS				
Copper (Cu)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	65 - 125%	PASS				
Lead (Pb)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	55 - 120%	PASS				
Mercury (Hg)	NA	2.2	0.01	0.02	µg/dry g	2	0	110	65 - 140%	PASS				
Nickel (Ni)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	70 - 130%	PASS				
Selenium (Se)	NA	1.7	0.025	0.05	µg/dry g	2	0	85	60 - 125%	PASS				
Silver (Ag)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	50 - 120%	PASS				
Zinc (Zn)	NA	1.7	0.025	0.05	µg/dry g	2	0	85	60 - 120%	PASS				

Batch ID: 27166c-17148
Blank Spike Dup 60906-BS2

QAQC Procedural Blank
DI Water

Prepared 12/28/2007

Analyzed 02-Jan-08

Antimony (Sb)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS	0	30	PASS	
Arsenic (As)	NA	1.8	0.025	0.05	µg/dry g	2	0	90	70 - 130%	PASS	5	30	PASS	
Cadmium (Cd)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS	0	30	PASS	
Chromium (Cr)	NA	2	0.025	0.05	µg/dry g	2	0	100	55 - 135%	PASS	0	30	PASS	
Copper (Cu)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	65 - 125%	PASS	0	30	PASS	
Lead (Pb)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	55 - 120%	PASS	0	30	PASS	
Mercury (Hg)	NA	2.1	0.01	0.02	µg/dry g	2	0	105	65 - 140%	PASS	5	30	PASS	

CRG Marine Laboratories, Inc.

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

Trace Metals

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Nickel (Ni)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	1.7	0.025	0.05	µg/dry g	2	0	85	60 - 125%	PASS	0	30	PASS	
Silver (Ag)	NA	0.3	0.025	0.05	µg/dry g	0.2	0	150	50 - 120%	FAIL	40	30	FAIL	
Zinc (Zn)	NA	1.7	0.025	0.05	µg/dry g	2	0	85	60 - 120%	PASS	0	30	PASS	
Batch ID:	27166c-17148	LB-MVP-COMP-A COMP-A							Prepared 12/28/2007	Analyzed 02-Jan-08				
Lab Dup	60907-R2	Sediment												
Antimony (Sb)	NA	0.376	0.025	0.05	µg/dry g						4	30	PASS	
Arsenic (As)	NA	9.383	0.025	0.05	µg/dry g						8	30	PASS	
Cadmium (Cd)	NA	0.158	0.025	0.05	µg/dry g						7	30	PASS	
Chromium (Cr)	NA	29	0.025	0.05	µg/dry g						4	30	PASS	
Copper (Cu)	NA	22.37	0.025	0.05	µg/dry g						3	30	PASS	
Lead (Pb)	NA	21.42	0.025	0.05	µg/dry g						8	30	PASS	
Mercury (Hg)	NA	0.058	0.01	0.02	µg/dry g						4	30	PASS	
Nickel (Ni)	NA	18.55	0.025	0.05	µg/dry g						3	30	PASS	
Selenium (Se)	NA	0.223	0.025	0.05	µg/dry g						4	30	PASS	
Silver (Ag)	NA	0.109	0.025	0.05	µg/dry g						7	30	PASS	
Zinc (Zn)	NA	80.44	0.025	0.05	µg/dry g						2	30	PASS	

**SUB-CONTRACT LAB
REPORT**

Project ID: P27166c
Client: CRG Laboratories
Analysis: Grain Size
Matrix: Sediment
Delivered: January 4, 2008



Sample ID	Lab Rep.	phi Size																											
		<-1	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	>12	
		Microns																											
		>2000	1410	1000	710	500	354	250	177	125	88.4	62.5	44.2	31.3	22.1	15.6	11.1	7.8	5.5	3.9	2.8	1.95	1.38	0.98	0.69	0.49	0.35	<0.24	
	coarse sand	coarse sand	med sand	med sand	med sand	med sand	fine sand	very fine sand	very fine sand	very fine sand	very fine sand	very fine sand	course silt	course silt	course silt	silt	fine silt	very fine silt	very fine silt	clay	clay	clay	clay	clay	clay	clay	clay		
LB-MVP-Comp-A	1	0.00	0.00	0.00	0.00	0.00	0.00	0.81	2.77	5.86	7.93	9.20	9.97	10.07	9.50	9.08	7.78	6.42	4.75	4.35	3.06	1.95	2.08	2.22	1.61	0.59	0.00		
LB-MVP-Comp-A	2	0.00	0.00	0.00	0.00	0.00	0.29	1.65	4.25	6.80	7.75	8.41	9.33	9.91	9.58	9.07	7.57	6.10	4.45	4.04	2.84	1.82	1.95	2.06	1.55	0.60	0.00		
LB-MVP-Comp-B	1	0.00	0.00	0.00	0.00	0.00	0.37	2.79	7.09	9.96	9.72	9.01	8.62	8.07	7.27	6.85	5.99	5.18	4.06	3.88	2.82	1.85	2.03	2.25	1.62	0.58	0.00		
LB-MVP-Comp-C	1	0.00	0.00	0.00	0.00	0.00	0.58	3.38	7.16	9.04	8.52	7.97	7.96	8.00	7.73	7.62	6.76	5.75	4.37	4.08	2.89	1.85	2.03	2.16	1.57	0.59	0.00		
LB-MVP-Comp-D	1	0.00	0.00	0.00	0.00	0.00	0.33	2.36	7.21	10.39	10.43	9.16	8.23	7.61	6.84	6.03	5.69	5.05	4.42	3.50	3.35	2.44	1.60	1.70	1.85	1.34	0.48	0.00	

Project ID: P27166c
Client: CRG Laboratories
Analysis: Grain Size
Matrix: Sediment
Delivered: January 4, 2008



Sample ID	Lab Rep.	Sample Date	Analysis Date	Summary (Percent)					Percentile (microns)					Percentile (phi)					Microns			phi			Dispersion or Sorting Index	Distribution (phi)	
				Gravel*	Sand	Silt	Clay	Silt-Clay	5%	16%	50%	84%	95%	5%	16%	50%	84%	95%	Mean	Median	Mode	Mean	Median	Mode		Skewness	Kurtosis
LB-MVP-Comp-A	1	6-Dec-07	20-Dec-07	0.00	17.37	66.77	15.86	82.63	0.76	2.83	13.81	46.92	81.25	10.38	8.48	6.18	4.41	3.62	23.82	13.81	18.72	5.39	6.18	5.74	2.03	-0.39	-2.66
LB-MVP-Comp-A	2	6-Dec-07	20-Dec-07	0.00	20.73	64.41	14.86	79.27	0.80	3.05	14.73	54.61	97.32	10.31	8.37	6.09	4.19	3.36	27.29	14.73	18.49	5.20	6.09	5.76	2.09	-0.43	-2.67
LB-MVP-Comp-B	1	6-Dec-07	20-Dec-07	0.00	29.93	55.05	15.03	70.07	0.76	3.03	19.89	72.35	114.23	10.38	8.38	5.65	3.79	3.12	34.56	19.89	71.00	4.85	5.65	3.81	2.30	-0.35	-2.58
LB-MVP-Comp-C	1	6-Dec-07	20-Dec-07	0.00	28.67	56.17	15.16	71.33	0.78	2.98	17.47	73.29	118.83	10.35	8.40	5.84	3.77	3.07	34.28	17.47	72.42	4.87	5.84	3.78	2.32	-0.42	-2.57
LB-MVP-Comp-D	1	6-Dec-07	20-Dec-07	0.00	39.87	47.38	12.75	60.13	0.91	3.81	28.70	101.98	158.30	10.12	8.04	5.12	3.29	2.65	48.62	28.70	75.86	4.36	5.12	3.72	2.38	-0.32	-2.57

*Percentage of the sample retained on a 2 mm sieve.

CHAIN-OF-CUSTODY

Chain of Custody Record

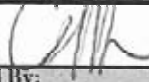
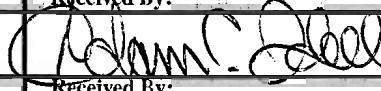
To: CRG Marine Laboratories 2020 Del Amo Blvd. Torrance, CA 90501 (310) 533-5191 (310) 533-5003 Fax Contact: Misty Mercier	Date Received: Lab #:	From: Kinnetic Laboratories, Inc 307 Washington St. Santa Cruz, CA 95060 (831) 457-3950 (831) 426-0405 Fax Contact: Amy Howk	
---	--	---	---

Project: Colorado Lagoon/Marine Stadium Soils Investigation Complete by: 3 weeks	Matrix: Soil	Project #: 5274.02
---	---------------------	---------------------------

SampleID	StationID	Sample Date	Sample Time	Sample Type	Analysis	Container	Pres	No. of Bottles	LabID	Condition Upon Receipt
LB-MVP-COMP-A	COMP-A	12/6/07	1515	Comp	Bulk Soil Chemistry*	500mL WMGJ	4° c	1		
LB-MVP-COMP-B	COMP-B	↓	1040	Comp	Bulk Soil Chemistry*	500mL WMGJ	4° c	1		
LB-MVP-COMP-C	COMP-C	↓	1418	Comp	Bulk Soil Chemistry*	500mL WMGJ	4° c	1		
LB-MVP-COMP-D	COMP-D	↓	1132	Comp	Bulk Soil Chemistry*	500mL WMGJ	4° c	1		

Data Report MUST include the following: Sample ID, Analytical Method, Detection Limit, Date of Extraction if applicable, Date of Analysis, Analytical Results and Signature of QA Reviewer. Submit all data in paper and digital formats to KLI. Email digital to edd@kinneticlabs.com. All times on this sheet are military time.

Special Instructions/Comments: * Bulk Soil Chemistry includes: % Solids, pH, Particle Size, Metals (Sb, As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn), OC Pest, TRPH, PCB Aroclors, PCB Congeners, PAHs, Phthalates, and Phenols. **Please report in Dry Weight**

Sampled and Relinquished By: 	Date/Time: 12/10/07 1140	Transporter: KLI	Received By: 	Date/Time: 12/10/07 11:45
Relinquished By:	Date/Time:	Transporter:	Received By:	Date/Time:

27166c

CRG
Marine Laboratories, Inc.
SAMPLE RECEIVING

CRG Project ID
 327166c

CLIENT NAME Kinnetic DATE RECEIVED 12/10/07

COURIER INFORMATION		
<input type="checkbox"/> CRG	<input type="checkbox"/> FEDEX	TRACKING NUMBER
<input checked="" type="checkbox"/> OTHER*	<input type="checkbox"/> UPS	

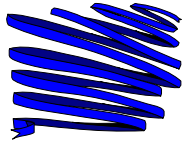
TEMPERATURE
6 °C <input type="checkbox"/> BLUE ICE
<input checked="" type="checkbox"/> WET ICE
<input type="checkbox"/> NO ICE

Chain-of-Custody
<input checked="" type="checkbox"/> INCLUDED
<input checked="" type="checkbox"/> SIGNED
<input type="checkbox"/> NOT INCLUDED

SAMPLE MATRIX
<input checked="" type="checkbox"/> LIQUID
<input checked="" type="checkbox"/> SOLID
<input type="checkbox"/> OTHER*

CONDITION OF SAMPLES UPON ARRIVAL			
	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*NOTES
Sample LB8-LP-Comp-2 12/7/07@B10 had <u>no</u> COC. 2 liter Ambers for Organics.
COMPLETED BY: <u>[Signature]</u>



CRG

Marine Laboratories, Inc.

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

March 12, 2008

Kinnetic Laboratories, Inc.
307 Washington St.
Santa Cruz, CA 95060

Re: CRG Marine Laboratories
Kinnetic Laboratories, Inc.

Project ID: KIN006
Project ID: Colorado Lagoon/
Colorado Lagoon/Marine Stadium S

ATTN: Amy Howk

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your Colorado Lagoon/ Colorado Lagoon/Marine Stadium S project. According to the chain-of-custody, 2 samples were received intact at CRG on 1/30/2008. Per your instructions, the samples were analyzed for:

- Percent Solids Using Method EPA 160.3
- pH Using Method SM 4500 H+
- TRPH Using Method SM 5520 E
- Trace Metals By ICPMS Using Method EPA 6020m
- Mercury (Hg) By CVAFS Using Method EPA 245.7m
- Acid Extractable Compounds By GCMS Using Method EPA 8270Cm
- Aroclor PCBs By GCMS Using Method EPA 8270Cm
- Base/Neutral Extractable Compounds By GCMS Using Method EPA 8270Cm
- Chlorinated Pesticides By GCMS Using Method EPA 8270Cm
- PCB Congeners By GCMS Using Method EPA 8270Cm
- Polynuclear Aromatic Hydrocarbons By GCMS Using Method EPA 8270Cm

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs. Particle size data from our sub-contract laboratory is included.

Regards,
Claire Waggoner

Reviewed and Approved _____

Project Sample List

Kinnetic Laboratories, Inc.

CRG Project ID: **KIN006**

Project Officer: Amy Howk

Project Description: Colorado Lagoon/

<i>CRG Sample ID#</i>	<i>Client Sample ID</i>	<i>Sample Description</i>	<i>Date Sampled</i>	<i>Matrix</i>
63659	LB-MVP-COMP-E	COMP-E	30-Jan-08	Soil
63660	LB-MVP-COMP-F	COMP-F	30-Jan-08	Soil

CRG's QUALITY ASSURANCE PROGRAM SUMMARY

BATCH: CRG's Quality Assurance Program Document defines a batch as a group of 20 or fewer samples of similar matrix, processed together under the same conditions and with the same reagents. Quality control samples are associated with each batch and are used to assess the validity of the sample analyses. CRG typically uses batch sizes of 10-15 samples.

PROCEDURAL BLANKS: Laboratory contamination was controlled through the analysis of procedural blanks on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that all procedural blanks be below 10 times the MDL and all detectable constituents in the blanks be flagged in the sample results. The Procedural Blanks are presented in the Procedural Blank section of this report.

ACCURACY: Accuracy of the project data was indicated by analysis of matrix spikes, surrogate spikes, certified reference materials, positive controls, and/or laboratory control materials on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits. The Acceptance Ranges are presented in the Accuracy Data section of this report.

PRECISION: Precision of the project data was determined by analysis of duplicate matrix spikes, blank spikes, and/or duplicate test sample analysis on a minimum frequency of 1 per batch. CRG's Quality Assurance Program Document requires that for 95% of the compounds >10 times the MDL, the % Relative Percent Difference (%RPD) should be within the specified acceptance range. The %RPD for the duplicate test sample analysis can be significantly affected by the homogeneity of the sample matrix within the sample container itself causing additional variability in the analytical results. In these cases, the QA/QC Acceptance Limits may be exceeded. The %RPD and Acceptance Ranges are presented in the Precision Data section of this report.

TOTAL/DISSOLVED: In some instances, the results for the "Dissolved" fraction can be higher than the "Total" fraction for a particular parameter. This is typically caused by the analytical variation for each result and indicates that the target parameter is primarily in the dissolved phase.

GLOSSARY OF TERMS

<u>Qualifier</u>	<u>Definition</u>
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeds the calibration range
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
M1	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference.
M2	The MS/MSD RPD was out of control due to matrix interference.
M3	Detection of the analyte was difficult due to matrix interference.
M4	Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.
ND or U	Parameter not detected at the indicated reporting limit.
NES	Not enough sample.
Q1	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.
Q2	The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.
Q3	RPD values are not accurate and not applicable because the results for R1 and/or R2 are lower than 10 times the MDL.
Q4	Due to the sample rate of the instrument, the peak area was underestimated because the apex of the peak was missed. This random error has caused this compound to fail for the spike and/or precision. This failure does not indicate any significant problems with the analysis of this sample and the data passes CRG's QAPP requirements.
R	Analyte was removed by the sample preparation/extraction procedure as seen by the MS/MSD recoveries. RPD acceptance ranges do not apply.

Qualifier Summary for KIN006

General Chemistry

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
63659-R1	LB-MVP-COMP-E	J	TRPH
63660-R1	LB-MVP-COMP-F	J	TRPH
63660-R2	LB-MVP-COMP-F	J	TRPH

Qualifier Summary for KIN006

PCB Congeners

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
63659-R1	LB-MVP-COMP-E	J	PCB138
63659-R1	LB-MVP-COMP-E	J	PCB149
63659-R1	LB-MVP-COMP-E	J	PCB153
63659-R1	LB-MVP-COMP-E	J	PCB180

Qualifier Summary for KIN006

Polynuclear Aromatic Hydrocarbons

<i>Sample ID</i>	<i>Client Sample ID</i>	<i>Qualifier</i>	<i>Parameter</i>
63659-R1	LB-MVP-COMP-E	J	Benz[a]anthracene
63660-R2	LB-MVP-COMP-F	J	Benz[a]anthracene
63659-R1	LB-MVP-COMP-E	J	Benzo[a]pyrene
63660-R2	LB-MVP-COMP-F	J	Benzo[a]pyrene
63659-R1	LB-MVP-COMP-E	J	Benzo[b]fluoranthene
63660-R2	LB-MVP-COMP-F	J,Q3	Benzo[b]fluoranthene
63660-R1	LB-MVP-COMP-F	J	Benzo[e]pyrene
63660-R2	LB-MVP-COMP-F	J	Benzo[e]pyrene
63659-R1	LB-MVP-COMP-E	J	Benzo[g,h,i]perylene
63660-R1	LB-MVP-COMP-F	J	Benzo[g,h,i]perylene
63660-R2	LB-MVP-COMP-F	J,Q3	Benzo[g,h,i]perylene
63659-R1	LB-MVP-COMP-E	J	Chrysene
63660-R1	LB-MVP-COMP-F	J	Chrysene
63660-R2	LB-MVP-COMP-F	J	Chrysene
63659-R1	LB-MVP-COMP-E	J	Fluoranthene
63660-R1	LB-MVP-COMP-F	J	Fluoranthene
63660-R2	LB-MVP-COMP-F	J	Fluoranthene
63659-R1	LB-MVP-COMP-E	J	Perylene
63660-R2	LB-MVP-COMP-F	J	Perylene
63659-R1	LB-MVP-COMP-E	J	Pyrene
63660-R1	LB-MVP-COMP-F	J	Pyrene
63660-R2	LB-MVP-COMP-F	J	Pyrene

DATA REPORT

CRG Marine Laboratories, Inc.

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

General Chemistry

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
Percent Solids	NA	79.2	0.1	0.1	Percent	45149	2/13/2008	2/13/2008	EPA 160.3	
pH	NA	8.1	0.1	0.2	pH Units	5216010	2/18/2008	2/18/2008	SM 4500 H+	
TRPH	NA	0.01	0.01	0.02	% Dry Weight	5214008	2/18/2008	2/18/2008	SM 5520 E	J
63660-R1	LB-MVP-COMP-FCOMP-F				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
Percent Solids	NA	82.9	0.1	0.1	Percent	45149	2/13/2008	2/13/2008	EPA 160.3	
pH	NA	8.4	0.1	0.2	pH Units	5216010	2/18/2008	2/18/2008	SM 4500 H+	
TRPH	NA	0.01	0.01	0.02	% Dry Weight	5214008	2/18/2008	2/18/2008	SM 5520 E	J

CRG Marine Laboratories, Inc.

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

Trace Metals

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
Antimony (Sb)	NA	0.3	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Arsenic (As)	NA	9	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Barium (Ba)	NA	102.9	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Cadmium (Cd)	NA	0.1	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Chromium (Cr)	NA	25	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Copper (Cu)	NA	21.5	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Lead (Pb)	NA	9.01	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Mercury (Hg)	NA	0.08	0.01	0.02	µg/dry g	4076	2/18/2008	2/20/2008	EPA 245.7m	
Nickel (Ni)	NA	15.8	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Selenium (Se)	NA	0.2	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Silver (Ag)	NA	0.2	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Zinc (Zn)	NA	56.1	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
63660-R1	LB-MVP-COMP-FCOMP-F				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
Antimony (Sb)	NA	0.3	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Arsenic (As)	NA	7.9	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Barium (Ba)	NA	103.3	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Cadmium (Cd)	NA	0.2	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Chromium (Cr)	NA	29.8	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Copper (Cu)	NA	22.7	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Lead (Pb)	NA	11.26	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Mercury (Hg)	NA	0.08	0.01	0.02	µg/dry g	4076	2/18/2008	2/20/2008	EPA 245.7m	
Nickel (Ni)	NA	17.9	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Selenium (Se)	NA	0.2	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Silver (Ag)	NA	0.231	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	
Zinc (Zn)	NA	65	0.025	0.05	µg/dry g	18060	2/18/2008	2/26/2008	EPA 6020m	

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
(2,4,6-Tribromophenol)	NA	55			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d5-Phenol)	NA	56			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Chlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Nitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4-Nitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Pentachlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Phenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
63660-R1	LB-MVP-COMP-FCOMP-F				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
(2,4,6-Tribromophenol)	NA	77			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d5-Phenol)	NA	50			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Chlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Nitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4-Nitrophenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Pentachlorophenol	NA	ND	50	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Phenol	NA	ND	100	200	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
Aroclor 1016	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1221	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1232	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1242	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1248	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1254	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1260	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
63660-R1	LB-MVP-COMP-FCOMP-F				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
Aroclor 1016	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1221	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1232	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1242	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1248	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1254	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aroclor 1260	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Diethyl Phthalate	NA	ND	100	125	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dimethyl Phthalate	NA	ND	50	75	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Di-n-octyl Phthalate	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
63660-R1	LB-MVP-COMP-FCOMP-F				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Diethyl Phthalate	NA	ND	100	125	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dimethyl Phthalate	NA	ND	50	75	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Di-n-octyl Phthalate	NA	ND	10	20	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
(PCB030)	NA	87			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(PCB112)	NA	84			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(PCB198)	NA	84			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(TCMX)	NA	87			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4'-DDD	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4'-DDE	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4'-DDT	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4,4'-DDD	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4,4'-DDE	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4,4'-DDT	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aldrin	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-alpha	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-beta	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-delta	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-gamma	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Chlordane-alpha	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Chlordane-gamma	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
cis-Nonachlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dicofol	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dieldrin	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endosulfan-I	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endosulfan-II	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endrin	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endrin Aldehyde	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endrin Ketone	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Heptachlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Methoxychlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Mirex	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Oxychlorthane	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Perthane	NA	ND	5	10	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Toxaphene	NA	ND	10	50	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
trans-Nonachlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

63660-R1 LB-MVP-COMP-FCOMP-F Soil Sampled: 30-Jan-08 Received: 30-Jan-08

(PCB030)	NA	92			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(PCB112)	NA	93			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(PCB198)	NA	91			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(TCMX)	NA	91			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4'-DDD	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4'-DDE	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,4'-DDT	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4,4'-DDD	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4,4'-DDE	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
4,4'-DDT	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Aldrin	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-alpha	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-beta	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-delta	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
BHC-gamma	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Chlordane-alpha	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Chlordane-gamma	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
cis-Nonachlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRL Marine Laboratories, Inc.

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

Chlorinated Pesticides

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Dicofol	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dieldrin	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endosulfan-I	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endosulfan-II	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endrin	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endrin Aldehyde	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Endrin Ketone	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Heptachlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Methoxychlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Mirex	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Oxychlorane	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Perthane	NA	ND	5	10	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Toxaphene	NA	ND	10	50	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
trans-Nonachlor	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
PCB003	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB008	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB018	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB028	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB031	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB033	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB037	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB044	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB049	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB052	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB056/060	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB066	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB070	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB074	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB077	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB081	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB087	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB095	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB097	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB099	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB101	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB105	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB110	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB114	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB118	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB119	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB123	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB126	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB128	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB138	NA	2.2	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
PCB141	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB149	NA	1.7	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
PCB151	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB153	NA	1.6	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
PCB156	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB157	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB158	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB167	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB168+132	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB169	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB170	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB174	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB177	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB180	NA	2	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
PCB183	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB187	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB189	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB194	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB195	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB200	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB201	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB206	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB209	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

63660-R1

LB-MVP-COMP-FCOMP-F

Soil

Sampled: 30-Jan-08

Received: 30-Jan-08

PCB003	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
--------	----	----	---	---	----------	-------	-----------	----------	------------	--

CRG Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB008	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB018	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB028	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB031	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB033	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB037	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB044	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB049	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB052	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB056/060	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB066	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB070	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB074	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB077	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB081	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB087	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB095	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB097	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB099	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB101	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB105	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB110	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB114	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB118	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB119	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB123	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB126	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB128	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB138	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRL Marine Laboratories, Inc.

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

PCB Congeners

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
PCB141	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB149	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB151	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB153	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB156	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB157	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB158	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB167	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB168+132	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB169	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB170	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB174	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB177	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB180	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB183	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB187	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB189	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB194	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB195	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB200	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB201	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB206	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
PCB209	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
63659-R1	LB-MVP-COMP-ECOMP-E				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
(d10-Acenaphthene)	NA	80			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d10-Phenanthrene)	NA	85			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d12-Chrysene)	NA	84			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d12-Perylene)	NA	73			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d8-Naphthalene)	NA	65			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
1-Methylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
1-Methylphenanthrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,3,5-Trimethylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,6-Dimethylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Methylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Acenaphthene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Acenaphthylene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Anthracene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Benz[a]anthracene	NA	1	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Benzo[a]pyrene	NA	1.2	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Benzo[b]fluoranthene	NA	1.5	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Benzo[e]pyrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Benzo[g,h,i]perylene	NA	1.2	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Benzo[k]fluoranthene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Biphenyl	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Chrysene	NA	2.6	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Dibenz[a,h]anthracene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dibenzothiophene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Fluoranthene	NA	1.8	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Fluorene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Indeno[1,2,3-c,d]pyrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Naphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Perylene	NA	2.3	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Phenanthrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Pyrene	NA	2.3	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
63660-R1	LB-MVP-COMP-FCOMP-F				Soil		Sampled: 30-Jan-08		Received: 30-Jan-08	
(d10-Acenaphthene)	NA	80			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d10-Phenanthrene)	NA	83			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d12-Chrysene)	NA	87			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d12-Perylene)	NA	78			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
(d8-Naphthalene)	NA	66			% Recovery	35037	2/13/2008	3/5/2008	EPA 8270Cm	
1-Methylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
1-Methylphenanthrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,3,5-Trimethylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2,6-Dimethylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
2-Methylnaphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Acenaphthene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Acenaphthylene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Anthracene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Benz[a]anthracene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Benzo[a]pyrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Benzo[b]fluoranthene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Benzo[e]pyrene	NA	1.6	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Benzo[g,h,i]perylene	NA	1	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Benzo[k]fluoranthene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Biphenyl	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Chrysene	NA	1.7	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J
Dibenz[a,h]anthracene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Dibenzothiophene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Fluoranthene	NA	1.7	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Batch	Prepared	Analyzed	Method	QA Code
Fluorene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Indeno[1,2,3-c,d]pyrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Naphthalene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Perylene	NA	5.6	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Phenanthrene	NA	ND	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	
Pyrene	NA	2.1	1	5	ng/dry g	35037	2/13/2008	3/5/2008	EPA 8270Cm	J

QUALITY CONTROL REPORT

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: 35037		QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Lab Blank 63658-B1		DI Water													
(2,4,6-Tribromophenol)	NA	55			% Recovery	100		55	5 - 150%	PASS					
(d5-Phenol)	NA	57			% Recovery	100		57	5 - 140%	PASS					
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g										
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g										
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g										
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g										
2-Chlorophenol	NA	ND	50	100	ng/dry g										
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g										
2-Nitrophenol	NA	ND	100	200	ng/dry g										
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g										
4-Nitrophenol	NA	ND	100	200	ng/dry g										
Pentachlorophenol	NA	ND	50	100	ng/dry g										
Phenol	NA	ND	100	200	ng/dry g										
Batch ID: 35037		QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Blank Spike 63658-BS1		DI Water													
(2,4,6-Tribromophenol)	NA	68			% Recovery	100	0	68	5 - 150%	PASS					
(d5-Phenol)	NA	70			% Recovery	100	0	70	5 - 140%	PASS					
2-Chlorophenol	NA	232.5	50	100	ng/dry g	322.5	0	72	15 - 140%	PASS					
4-Chloro-3-methylphenol	NA	225.3	100	200	ng/dry g	322.5	0	70	30 - 135%	PASS					
4-Nitrophenol	NA	210	100	200	ng/dry g	322.5	0	65	20 - 140%	PASS					
Pentachlorophenol	NA	101.7	50	100	ng/dry g	322.5	0	32	0 - 150	PASS					
Phenol	NA	224.4	100	200	ng/dry g	322.5	0	70	10 - 140%	PASS					
Batch ID: 35037		QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Blank Spike Dup 63658-BS2		DI Water													
(2,4,6-Tribromophenol)	NA	71			% Recovery	100	0	71	5 - 150%	PASS	4	30	PASS		

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
(d5-Phenol)	NA	64			% Recovery	100	0	64	5 - 140%	PASS	9	30	PASS	
2-Chlorophenol	NA	211.3	50	100	ng/dry g	322.5	0	66	15 - 140%	PASS	9	30	PASS	
4-Chloro-3-methylphenol	NA	228.6	100	200	ng/dry g	322.5	0	71	30 - 135%	PASS	1	30	PASS	
4-Nitrophenol	NA	227.1	100	200	ng/dry g	322.5	0	70	20 - 140%	PASS	7	30	PASS	
Pentachlorophenol	NA	109.4	50	100	ng/dry g	322.5	0	34	0 - 150	PASS	6	30	PASS	
Phenol	NA	215.3	100	200	ng/dry g	322.5	0	67	10 - 140%	PASS	4	30	PASS	

Batch ID: 35037 **LB-MVP-COMP-F COMP-F** **Prepared 2/13/2008** **Analyzed 05-Mar-08**
Matrix Spike 63660-MS1 **Soil**

(2,4,6-Tribromophenol)	NA	74			% Recovery	100	0	74	5 - 150%	PASS				
(d5-Phenol)	NA	62			% Recovery	100	0	62	5 - 140%	PASS				
2-Chlorophenol	NA	204.5	50	100	ng/dry g	329.9	0	62	15 - 140%	PASS				
4-Chloro-3-methylphenol	NA	233.3	100	200	ng/dry g	329.9	0	71	30 - 135%	PASS				
4-Nitrophenol	NA	213.8	100	200	ng/dry g	329.9	0	65	20 - 140%	PASS				
Pentachlorophenol	NA	367.6	50	100	ng/dry g	329.9	0	111	0 - 150	PASS				
Phenol	NA	220.9	100	200	ng/dry g	329.9	0	67	10 - 140%	PASS				

Batch ID: 35037 **LB-MVP-COMP-F COMP-F** **Prepared 2/13/2008** **Analyzed 05-Mar-08**
Matrix Spike Dup 63660-MS2 **Soil**

(2,4,6-Tribromophenol)	NA	79			% Recovery	100	0	79	5 - 150%	PASS	0	30	PASS	
(d5-Phenol)	NA	64			% Recovery	100	0	64	5 - 140%	PASS	0	30	PASS	
2-Chlorophenol	NA	209.2	50	100	ng/dry g	331.8	0	63	15 - 140%	PASS	2	30	PASS	
4-Chloro-3-methylphenol	NA	239.8	100	200	ng/dry g	331.8	0	72	30 - 135%	PASS	1	30	PASS	
4-Nitrophenol	NA	254.4	100	200	ng/dry g	331.8	0	77	20 - 140%	PASS	17	30	PASS	
Pentachlorophenol	NA	287.1	50	100	ng/dry g	331.8	0	87	0 - 150	PASS	24	30	PASS	
Phenol	NA	219.7	100	200	ng/dry g	331.8	0	66	10 - 140%	PASS	2	30	PASS	

Batch ID: 35037 **LB-MVP-COMP-F COMP-F** **Prepared 2/13/2008** **Analyzed 05-Mar-08**
Lab Dup 63660-R2 **Soil**

(2,4,6-Tribromophenol)	NA	77			% Recovery	100		77	5 - 150%	PASS	0	30	PASS	
------------------------	----	----	--	--	------------	-----	--	----	----------	------	---	----	------	--

CRG Marine Laboratories, Inc.

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

Acid Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
(d5-Phenol)	NA	63			% Recovery	100		63	5 - 140%	PASS	23	30	PASS	
2,4,6-Trichlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
2,4-Dichlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
2,4-Dimethylphenol	NA	ND	100	200	ng/dry g						0	30	PASS	
2,4-Dinitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
2-Chlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
2-Methyl-4,6-dinitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
2-Nitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
4-Chloro-3-methylphenol	NA	ND	100	200	ng/dry g						0	30	PASS	
4-Nitrophenol	NA	ND	100	200	ng/dry g						0	30	PASS	
Pentachlorophenol	NA	ND	50	100	ng/dry g						0	30	PASS	
Phenol	NA	ND	100	200	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Aroclor PCBs

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID:	35037	QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Lab Blank	63658-B1	DI Water													
Aroclor 1016	NA	ND	10	20	ng/dry g										
Aroclor 1221	NA	ND	10	20	ng/dry g										
Aroclor 1232	NA	ND	10	20	ng/dry g										
Aroclor 1242	NA	ND	10	20	ng/dry g										
Aroclor 1248	NA	ND	10	20	ng/dry g										
Aroclor 1254	NA	ND	10	20	ng/dry g										
Aroclor 1260	NA	ND	10	20	ng/dry g										
Batch ID:	35037	LB-MVP-COMP-F	COMP-F		Prepared 2/13/2008				Analyzed 05-Mar-08						
Lab Dup	63660-R2	Soil													
Aroclor 1016	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1221	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1232	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1242	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1248	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1254	NA	ND	10	20	ng/dry g						0	30	PASS		
Aroclor 1260	NA	ND	10	20	ng/dry g						0	30	PASS		

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: 35037		QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Lab Blank 63658-B1		DI Water													
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g										
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g										
Diethyl Phthalate	NA	ND	100	125	ng/dry g										
Dimethyl Phthalate	NA	ND	50	75	ng/dry g										
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g										
Di-n-octyl Phthalate	NA	ND	10	20	ng/dry g										
Batch ID: 35037		QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Blank Spike 63658-BS1		DI Water													
bis(2-Ethylhexyl) Phthalate	NA	40	100	125	ng/dry g	32.3	0	124	5 - 160%	PASS					
Butylbenzyl Phthalate	NA	31.8	25	50	ng/dry g	32.3	0	98	0 - 195%	PASS					
Diethyl Phthalate	NA	31.1	100	125	ng/dry g	32.3	0	96	10 - 190%	PASS					
Dimethyl Phthalate	NA	28.7	50	75	ng/dry g	32.3	0	89	50 - 140%	PASS					
Di-n-butyl Phthalate	NA	35.3	75	100	ng/dry g	32.3	0	109	10 - 175%	PASS					
Di-n-octyl Phthalate	NA	26.9	10	20	ng/dry g	32.3	0	83	35 - 145%	PASS					
Batch ID: 35037		QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08					
Blank Spike Dup 63658-BS2		DI Water													
bis(2-Ethylhexyl) Phthalate	NA	44.5	100	125	ng/dry g	32.3	0	138	5 - 160%	PASS	11	30	PASS		
Butylbenzyl Phthalate	NA	33.9	25	50	ng/dry g	32.3	0	105	0 - 195%	PASS	6	30	PASS		
Diethyl Phthalate	NA	29.2	100	125	ng/dry g	32.3	0	90	10 - 190%	PASS	5	30	PASS		
Dimethyl Phthalate	NA	27	50	75	ng/dry g	32.3	0	84	50 - 140%	PASS	6	30	PASS		
Di-n-butyl Phthalate	NA	37	75	100	ng/dry g	32.3	0	115	10 - 175%	PASS	5	30	PASS		
Di-n-octyl Phthalate	NA	29.7	10	20	ng/dry g	32.3	0	92	35 - 145%	PASS	10	30	PASS		
Batch ID: 35037		LB-MVP-COMP-F COMP-F				Prepared 2/13/2008				Analyzed 05-Mar-08					
Matrix Spike 63660-MS1		Soil													
bis(2-Ethylhexyl) Phthalate	NA	50.1	100	125	ng/dry g	33	0	152	5 - 160%	PASS					

CRG Marine Laboratories, Inc.

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

Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Butylbenzyl Phthalate	NA	34	25	50	ng/dry g	33	0	103	0 - 195%	PASS				
Diethyl Phthalate	NA	31.1	100	125	ng/dry g	33	0	94	10 - 190%	PASS				
Dimethyl Phthalate	NA	26	50	75	ng/dry g	33	0	79	50 - 140%	PASS				
Di-n-butyl Phthalate	NA	44.1	75	100	ng/dry g	33	0	134	10 - 175%	PASS				
Di-n-octyl Phthalate	NA	29.2	10	20	ng/dry g	33	0	88	35 - 145%	PASS				
Batch ID: 35037		LB-MVP-COMP-F COMP-F							Prepared 2/13/2008		Analyzed 05-Mar-08			
Matrix Spike Dup 63660-MS2		Soil												
bis(2-Ethylhexyl) Phthalate	NA	50.4	100	125	ng/dry g	33.2	0	152	5 - 160%	PASS	0	30	PASS	
Butylbenzyl Phthalate	NA	34.9	25	50	ng/dry g	33.2	0	105	0 - 195%	PASS	2	30	PASS	
Diethyl Phthalate	NA	29	100	125	ng/dry g	33.2	0	87	10 - 190%	PASS	8	30	PASS	
Dimethyl Phthalate	NA	25.2	50	75	ng/dry g	33.2	0	76	50 - 140%	PASS	4	30	PASS	
Di-n-butyl Phthalate	NA	38.2	75	100	ng/dry g	33.2	0	115	10 - 175%	PASS	15	30	PASS	
Di-n-octyl Phthalate	NA	33.8	10	20	ng/dry g	33.2	0	102	35 - 145%	PASS	14	30	PASS	
Batch ID: 35037		LB-MVP-COMP-F COMP-F							Prepared 2/13/2008		Analyzed 05-Mar-08			
Lab Dup 63660-R2		Soil												
bis(2-Ethylhexyl) Phthalate	NA	ND	100	125	ng/dry g						0	30	PASS	
Butylbenzyl Phthalate	NA	ND	25	50	ng/dry g						0	30	PASS	
Diethyl Phthalate	NA	ND	100	125	ng/dry g						0	30	PASS	
Dimethyl Phthalate	NA	ND	50	75	ng/dry g						0	30	PASS	
Di-n-butyl Phthalate	NA	ND	75	100	ng/dry g						0	30	PASS	
Di-n-octyl Phthalate	NA	ND	10	20	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Endrin Ketone	NA	ND	1	5	ng/dry g									
Heptachlor	NA	ND	1	5	ng/dry g									
Heptachlor Epoxide	NA	ND	1	5	ng/dry g									
Methoxychlor	NA	ND	1	5	ng/dry g									
Mirex	NA	ND	1	5	ng/dry g									
Oxychlorane	NA	ND	1	5	ng/dry g									
Perthane	NA	ND	5	10	ng/dry g									
Toxaphene	NA	ND	10	50	ng/dry g									
trans-Nonachlor	NA	ND	1	5	ng/dry g									

Batch ID:	35037	QAQC Procedural Blank		Prepared 2/13/2008	Analyzed 05-Mar-08
Blank Spike	63658-BS1	DI Water			
(PCB030)	NA	89		% Recovery 100	0 89 55 - 120% PASS
(PCB112)	NA	90		% Recovery 100	0 90 65 - 120% PASS
(PCB198)	NA	84		% Recovery 100	0 84 60 - 120% PASS
(TCMX)	NA	88		% Recovery 100	0 88 50 - 120% PASS
2,4'-DDD	NA	33.6	1 5	ng/dry g 32.3	0 104 50 - 135% PASS
2,4'-DDE	NA	30.4	1 5	ng/dry g 32.3	0 94 60 - 130% PASS
2,4'-DDT	NA	33.7	1 5	ng/dry g 32.3	0 104 40 - 135% PASS
4,4'-DDD	NA	31.4	1 5	ng/dry g 32.3	0 97 70 - 130% PASS
4,4'-DDE	NA	35.3	1 5	ng/dry g 32.3	0 109 65 - 130% PASS
4,4'-DDT	NA	28.1	1 5	ng/dry g 32.3	0 87 35 - 140% PASS
Aldrin	NA	34.5	1 5	ng/dry g 32.3	0 107 50 - 125% PASS
BHC-alpha	NA	31.9	1 5	ng/dry g 32.3	0 99 60 - 120% PASS
BHC-beta	NA	24.1	1 5	ng/dry g 32.3	0 75 60 - 120% PASS
BHC-delta	NA	32.4	1 5	ng/dry g 32.3	0 100 60 - 120% PASS
BHC-gamma	NA	31.7	1 5	ng/dry g 32.3	0 98 60 - 120% PASS
Chlordane-alpha	NA	33.2	1 5	ng/dry g 32.3	0 103 70 - 130% PASS
Chlordane-gamma	NA	30.7	1 5	ng/dry g 32.3	0 95 60 - 120% PASS

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
cis-Nonachlor	NA	36.4	1	5	ng/dry g	32.3	0	113	60 - 120%	PASS				
DCPA (Dacthal)	NA	33.2	5	10	ng/dry g	32.3	0	103	60 - 140%	PASS				
Dicofol	NA	21.3	1	5	ng/dry g	32.3	0	66	65 - 125%	PASS				
Dieldrin	NA	35.5	1	5	ng/dry g	32.3	0	110	50 - 125%	PASS				
Endosulfan Sulfate	NA	26.2	1	5	ng/dry g	32.3	0	81	25 - 125%	PASS				
Endosulfan-I	NA	33	1	5	ng/dry g	32.3	0	102	45 - 125%	PASS				
Endosulfan-II	NA	30.9	1	5	ng/dry g	32.3	0	96	25 - 145%	PASS				
Endrin	NA	33.8	1	5	ng/dry g	32.3	0	105	60 - 125%	PASS				
Endrin Aldehyde	NA	34.1	1	5	ng/dry g	32.3	0	106	0 - 149%	PASS				
Endrin Ketone	NA	28.1	1	5	ng/dry g	32.3	0	87	45 - 125%	PASS				
Heptachlor	NA	35.4	1	5	ng/dry g	32.3	0	110	45 - 125%	PASS				
Heptachlor Epoxide	NA	32.8	1	5	ng/dry g	32.3	0	102	60 - 120%	PASS				
Methoxychlor	NA	26	1	5	ng/dry g	32.3	0	80	35 - 140%	PASS				
Mirex	NA	30.3	1	5	ng/dry g	32.3	0	94	50 - 130%	PASS				
Oxychlorane	NA	34.2	1	5	ng/dry g	32.3	0	106	70 - 130%	PASS				
Perthane	NA	30.7	5	10	ng/dry g	32.3	0	95	60 - 140%	PASS				
trans-Nonachlor	NA	31.8	1	5	ng/dry g	32.3	0	98	60 - 120%	PASS				

Batch ID: 35037

Blank Spike Dup 63658-BS2

QAQC Procedural Blank

DI Water

Prepared 2/13/2008

Analyzed 05-Mar-08

(PCB030)	NA	84			% Recovery	100	0	84	55 - 120%	PASS	6	30	PASS	
(PCB112)	NA	90			% Recovery	100	0	90	65 - 120%	PASS	0	30	PASS	
(PCB198)	NA	89			% Recovery	100	0	89	60 - 120%	PASS	6	30	PASS	
(TCMX)	NA	76			% Recovery	100	0	76	50 - 120%	PASS	15	30	PASS	
2,4'-DDD	NA	34.6	1	5	ng/dry g	32.3	0	107	50 - 135%	PASS	3	30	PASS	
2,4'-DDE	NA	33.3	1	5	ng/dry g	32.3	0	103	60 - 130%	PASS	9	30	PASS	
2,4'-DDT	NA	29.9	1	5	ng/dry g	32.3	0	93	40 - 135%	PASS	11	30	PASS	
4,4'-DDD	NA	33.8	1	5	ng/dry g	32.3	0	105	70 - 130%	PASS	8	30	PASS	
4,4'-DDE	NA	34.2	1	5	ng/dry g	32.3	0	106	65 - 130%	PASS	3	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
4,4'-DDT	NA	28.3	1	5	ng/dry g	32.3	0	88	35 - 140%	PASS	1	30	PASS	
Aldrin	NA	28.4	1	5	ng/dry g	32.3	0	88	50 - 125%	PASS	19	30	PASS	
BHC-alpha	NA	33	1	5	ng/dry g	32.3	0	102	60 - 120%	PASS	3	30	PASS	
BHC-beta	NA	26.2	1	5	ng/dry g	32.3	0	81	60 - 120%	PASS	8	30	PASS	
BHC-delta	NA	32.3	1	5	ng/dry g	32.3	0	100	60 - 120%	PASS	0	30	PASS	
BHC-gamma	NA	31.1	1	5	ng/dry g	32.3	0	96	60 - 120%	PASS	2	30	PASS	
Chlordane-alpha	NA	34.4	1	5	ng/dry g	32.3	0	107	70 - 130%	PASS	4	30	PASS	
Chlordane-gamma	NA	33.5	1	5	ng/dry g	32.3	0	104	60 - 120%	PASS	9	30	PASS	
cis-Nonachlor	NA	35.8	1	5	ng/dry g	32.3	0	111	60 - 120%	PASS	2	30	PASS	
DCPA (Dacthal)	NA	33.5	5	10	ng/dry g	32.3	0	104	60 - 140%	PASS	1	30	PASS	
Dicofol	NA	28	1	5	ng/dry g	32.3	0	87	65 - 125%	PASS	27	30	PASS	
Dieldrin	NA	28.3	1	5	ng/dry g	32.3	0	88	50 - 125%	PASS	22	30	PASS	
Endosulfan Sulfate	NA	29.5	1	5	ng/dry g	32.3	0	91	25 - 125%	PASS	12	30	PASS	
Endosulfan-I	NA	34.7	1	5	ng/dry g	32.3	0	107	45 - 125%	PASS	6	30	PASS	
Endosulfan-II	NA	36.9	1	5	ng/dry g	32.3	0	114	25 - 145%	PASS	17	30	PASS	
Endrin	NA	36	1	5	ng/dry g	32.3	0	111	60 - 125%	PASS	6	30	PASS	
Endrin Aldehyde	NA	34.8	1	5	ng/dry g	32.3	0	108	0 - 149%	PASS	2	30	PASS	
Endrin Ketone	NA	31.8	1	5	ng/dry g	32.3	0	98	45 - 125%	PASS	13	30	PASS	
Heptachlor	NA	31.9	1	5	ng/dry g	32.3	0	99	45 - 125%	PASS	11	30	PASS	
Heptachlor Epoxide	NA	31.9	1	5	ng/dry g	32.3	0	99	60 - 120%	PASS	3	30	PASS	
Methoxychlor	NA	27.6	1	5	ng/dry g	32.3	0	85	35 - 140%	PASS	6	30	PASS	
Mirex	NA	30.6	1	5	ng/dry g	32.3	0	95	50 - 130%	PASS	1	30	PASS	
Oxychlordane	NA	37.3	1	5	ng/dry g	32.3	0	115	70 - 130%	PASS	9	30	PASS	
Perthane	NA	34.2	5	10	ng/dry g	32.3	0	106	60 - 140%	PASS	11	30	PASS	
trans-Nonachlor	NA	30.9	1	5	ng/dry g	32.3	0	96	60 - 120%	PASS	3	30	PASS	
Batch ID:	35037	LB-MVP-COMP-F COMP-F						Prepared 2/13/2008		Analyzed 05-Mar-08				
Matrix Spike	63660-MS1		Soil											
(PCB030)	NA	83			% Recovery	100	0	83	55 - 120%	PASS				

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
(PCB112)	NA	97			% Recovery	100	0	97	65 - 120%	PASS				
(PCB198)	NA	90			% Recovery	100	0	90	60 - 120%	PASS				
(TCMX)	NA	74			% Recovery	100	0	74	50 - 120%	PASS				
2,4'-DDD	NA	37.2	1	5	ng/dry g	33	0	113	50 - 135%	PASS				
2,4'-DDE	NA	33.8	1	5	ng/dry g	33	0	102	60 - 130%	PASS				
2,4'-DDT	NA	21.1	1	5	ng/dry g	33	0	64	40 - 135%	PASS				
4,4'-DDD	NA	37.5	1	5	ng/dry g	33	0	114	70 - 130%	PASS				
4,4'-DDE	NA	38.5	1	5	ng/dry g	33	0	117	65 - 130%	PASS				
4,4'-DDT	NA	21.6	1	5	ng/dry g	33	0	65	35 - 140%	PASS				
Aldrin	NA	33.1	1	5	ng/dry g	33	0	100	50 - 125%	PASS				
BHC-alpha	NA	32.2	1	5	ng/dry g	33	0	98	60 - 120%	PASS				
BHC-beta	NA	32.8	1	5	ng/dry g	33	0	99	60 - 120%	PASS				
BHC-delta	NA	34.4	1	5	ng/dry g	33	0	104	60 - 120%	PASS				
BHC-gamma	NA	33.8	1	5	ng/dry g	33	0	102	60 - 120%	PASS				
Chlordane-alpha	NA	36	1	5	ng/dry g	33	0	109	70 - 130%	PASS				
Chlordane-gamma	NA	30.9	1	5	ng/dry g	33	0	94	60 - 120%	PASS				
cis-Nonachlor	NA	33.3	1	5	ng/dry g	33	0	101	60 - 120%	PASS				
DCPA (Dacthal)	NA	36	5	10	ng/dry g	33	0	109	60 - 140%	PASS				
Dicofol	NA	25.5	1	5	ng/dry g	33	0	77	65 - 125%	PASS				
Dieldrin	NA	37.2	1	5	ng/dry g	33	0	113	50 - 125%	PASS				
Endosulfan Sulfate	NA	32.6	1	5	ng/dry g	33	0	99	25 - 125%	PASS				
Endosulfan-I	NA	35.3	1	5	ng/dry g	33	0	107	45 - 125%	PASS				
Endosulfan-II	NA	36.3	1	5	ng/dry g	33	0	110	25 - 145%	PASS				
Endrin	NA	39.1	1	5	ng/dry g	33	0	118	60 - 125%	PASS				
Endrin Aldehyde	NA	39.2	1	5	ng/dry g	33	0	119	0 - 149%	PASS				
Endrin Ketone	NA	35.8	1	5	ng/dry g	33	0	108	45 - 125%	PASS				
Heptachlor	NA	29.6	1	5	ng/dry g	33	0	90	45 - 125%	PASS				
Heptachlor Epoxide	NA	33.3	1	5	ng/dry g	33	0	101	60 - 120%	PASS				
Methoxychlor	NA	22.6	1	5	ng/dry g	33	0	68	35 - 140%	PASS				

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Mirex	NA	29.9	1	5	ng/dry g	33	0	91	50 - 130%	PASS				
Oxychlorthane	NA	33	1	5	ng/dry g	33	0	100	70 - 130%	PASS				
Perthane	NA	39	5	10	ng/dry g	33	0	118	60 - 140%	PASS				
trans-Nonachlor	NA	33.9	1	5	ng/dry g	33	0	103	60 - 120%	PASS				
Batch ID:	35037	LB-MVP-COMP-F	COMP-F					Prepared 2/13/2008	Analyzed 05-Mar-08					
Matrix Spike Dup	63660-MS2	Soil												
(PCB030)	NA	81			% Recovery	100	0	81	55 - 120%	PASS	0	30	PASS	
(PCB112)	NA	82			% Recovery	100	0	82	65 - 120%	PASS	0	30	PASS	
(PCB198)	NA	74			% Recovery	100	0	74	60 - 120%	PASS	0	30	PASS	
(TCMX)	NA	77			% Recovery	100	0	77	50 - 120%	PASS	0	30	PASS	
2,4'-DDD	NA	40.4	1	5	ng/dry g	33.2	0	122	50 - 135%	PASS	8	30	PASS	
2,4'-DDE	NA	32.2	1	5	ng/dry g	33.2	0	97	60 - 130%	PASS	5	30	PASS	
2,4'-DDT	NA	22.6	1	5	ng/dry g	33.2	0	68	40 - 135%	PASS	6	30	PASS	
4,4'-DDD	NA	34.6	1	5	ng/dry g	33.2	0	104	70 - 130%	PASS	9	30	PASS	
4,4'-DDE	NA	35.8	1	5	ng/dry g	33.2	0	108	65 - 130%	PASS	8	30	PASS	
4,4'-DDT	NA	22.8	1	5	ng/dry g	33.2	0	69	35 - 140%	PASS	6	30	PASS	
Aldrin	NA	34.8	1	5	ng/dry g	33.2	0	105	50 - 125%	PASS	5	30	PASS	
BHC-alpha	NA	32.3	1	5	ng/dry g	33.2	0	97	60 - 120%	PASS	1	30	PASS	
BHC-beta	NA	27.3	1	5	ng/dry g	33.2	0	82	60 - 120%	PASS	19	30	PASS	
BHC-delta	NA	34.9	1	5	ng/dry g	33.2	0	105	60 - 120%	PASS	1	30	PASS	
BHC-gamma	NA	35.4	1	5	ng/dry g	33.2	0	107	60 - 120%	PASS	5	30	PASS	
Chlordane-alpha	NA	32.9	1	5	ng/dry g	33.2	0	99	70 - 130%	PASS	10	30	PASS	
Chlordane-gamma	NA	32.6	1	5	ng/dry g	33.2	0	98	60 - 120%	PASS	4	30	PASS	
cis-Nonachlor	NA	32.2	1	5	ng/dry g	33.2	0	97	60 - 120%	PASS	4	30	PASS	
DCPA (Dacthal)	NA	35.3	5	10	ng/dry g	33.2	0	106	60 - 140%	PASS	3	30	PASS	
Dicofol	NA	24.8	1	5	ng/dry g	33.2	0	75	65 - 125%	PASS	3	30	PASS	
Dieldrin	NA	36.1	1	5	ng/dry g	33.2	0	109	50 - 125%	PASS	4	30	PASS	
Endosulfan Sulfate	NA	34.3	1	5	ng/dry g	33.2	0	103	25 - 125%	PASS	4	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Endosulfan-I	NA	33.3	1	5	ng/dry g	33.2	0	100	45 - 125%	PASS	7	30	PASS	
Endosulfan-II	NA	35.2	1	5	ng/dry g	33.2	0	106	25 - 145%	PASS	4	30	PASS	
Endrin	NA	31.4	1	5	ng/dry g	33.2	0	95	60 - 125%	PASS	22	30	PASS	
Endrin Aldehyde	NA	38	1	5	ng/dry g	33.2	0	114	0 - 149%	PASS	3	30	PASS	
Endrin Ketone	NA	36.1	1	5	ng/dry g	33.2	0	109	45 - 125%	PASS	0	30	PASS	
Heptachlor	NA	29.5	1	5	ng/dry g	33.2	0	89	45 - 125%	PASS	1	30	PASS	
Heptachlor Epoxide	NA	34.6	1	5	ng/dry g	33.2	0	104	60 - 120%	PASS	3	30	PASS	
Methoxychlor	NA	22.6	1	5	ng/dry g	33.2	0	68	35 - 140%	PASS	1	30	PASS	
Mirex	NA	26.7	1	5	ng/dry g	33.2	0	80	50 - 130%	PASS	13	30	PASS	
Oxychlorthane	NA	36.8	1	5	ng/dry g	33.2	0	111	70 - 130%	PASS	10	30	PASS	
Perthane	NA	34.9	5	10	ng/dry g	33.2	0	105	60 - 140%	PASS	12	30	PASS	
trans-Nonachlor	NA	35.2	1	5	ng/dry g	33.2	0	106	60 - 120%	PASS	3	30	PASS	

Batch ID: 35037 LB-MVP-COMP-F COMP-F Prepared 2/13/2008 Analyzed 05-Mar-08
 Lab Dup: 63660-R2 Soil

(PCB030)	NA	87			% Recovery	100		87	55 - 120%	PASS	6	30	PASS	
(PCB112)	NA	88			% Recovery	100		88	65 - 120%	PASS	6	30	PASS	
(PCB198)	NA	83			% Recovery	100		83	60 - 120%	PASS	9	30	PASS	
(TCMX)	NA	90			% Recovery	100		90	50 - 120%	PASS	1	30	PASS	
2,4'-DDD	NA	ND	1	5	ng/dry g						0	30	PASS	
2,4'-DDE	NA	ND	1	5	ng/dry g						0	30	PASS	
2,4'-DDT	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDD	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDE	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDT	NA	ND	1	5	ng/dry g						0	30	PASS	
Aldrin	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-alpha	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-beta	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-delta	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Chlorinated Pesticides

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
BHC-gamma	NA	ND	1	5	ng/dry g						0	30	PASS	
Chlordane-alpha	NA	ND	1	5	ng/dry g						0	30	PASS	
Chlordane-gamma	NA	ND	1	5	ng/dry g						0	30	PASS	
cis-Nonachlor	NA	ND	1	5	ng/dry g						0	30	PASS	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g						0	30	PASS	
Dicofol	NA	ND	1	5	ng/dry g						0	30	PASS	
Dieldrin	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan Sulfate	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan-I	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan-II	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin Aldehyde	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin Ketone	NA	ND	1	5	ng/dry g						0	30	PASS	
Heptachlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Heptachlor Epoxide	NA	ND	1	5	ng/dry g						0	30	PASS	
Methoxychlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Mirex	NA	ND	1	5	ng/dry g						0	30	PASS	
Oxychlordane	NA	ND	1	5	ng/dry g						0	30	PASS	
Perthane	NA	ND	5	10	ng/dry g						0	30	PASS	
Toxaphene	NA	ND	10	50	ng/dry g						0	30	PASS	
trans-Nonachlor	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

General Chemistry

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID:	45149	QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 13-Feb-08					
Lab Blank	63658-B1	DI Water													
Percent Solids	NA	ND	0.1	0.1	Percent										
TRPH	NA	ND	0.01	0.02	% Dry Weight										
Batch ID:	5214008	QAQC Procedural Blank				Prepared 2/18/2008				Analyzed 18-Feb-08					
Blank Spike	63658-BS1	DI Water													
TRPH	NA	19.3	0.01	0.02	% Dry Weight	20.27	0	95	70 - 130%	PASS					
Batch ID:	5214008	QAQC Procedural Blank				Prepared 2/18/2008				Analyzed 18-Feb-08					
Blank Spike Dup	63658-BS2	DI Water													
TRPH	NA	19.3	0.01	0.02	% Dry Weight	20.27	0	95	70 - 130%	PASS	0	30	PASS		
Batch ID:	5216010	LB-MVP-COMP-E COMP-E				Prepared 2/18/2008				Analyzed 18-Feb-08					
Lab Dup	63659-R2	Soil													
pH	NA	8.1	0.1	0.2	pH Units						0	30	PASS		
Batch ID:	5214008	LB-MVP-COMP-F COMP-F				Prepared 2/18/2008				Analyzed 18-Feb-08					
Matrix Spike	63660-MS1	Soil													
TRPH	NA	0.14	0.01	0.02	% Dry Weight	0.156	0.01	83	70 - 130%	PASS					
Batch ID:	5214008	LB-MVP-COMP-F COMP-F				Prepared 2/18/2008				Analyzed 18-Feb-08					
Matrix Spike Dup	63660-MS2	Soil													
TRPH	NA	0.17	0.01	0.02	% Dry Weight	0.167	0.01	96	70 - 130%	PASS	15	30	PASS		
Batch ID:	45149	LB-MVP-COMP-F COMP-F				Prepared 2/13/2008				Analyzed 13-Feb-08					
Lab Dup	63660-R2	Soil													
Percent Solids	NA	79.4	0.1	0.1	Percent						4	30	PASS		
TRPH	NA	0.01	0.01	0.02	% Dry Weight						0	30	PASS	J	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID:	35037	QAQC Procedural Blank			Prepared 2/13/2008					Analyzed 05-Mar-08					
Blank Spike	63658-BS1	DI Water													
PCB003	NA	28.3	1	5	ng/dry g	25.8	0	110	60 - 125%	PASS					
PCB008	NA	27.6	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS					
PCB018	NA	25.2	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS					
PCB028	NA	24.1	1	5	ng/dry g	25.8	0	93	60 - 125%	PASS					
PCB031	NA	26.9	1	5	ng/dry g	25.8	0	104	60 - 125%	PASS					
PCB033	NA	25.9	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS					
PCB037	NA	25.8	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS					
PCB044	NA	28.1	1	5	ng/dry g	25.8	0	109	60 - 125%	PASS					
PCB049	NA	26.4	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS					
PCB052	NA	27.1	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS					
PCB056/060	NA	25.1	1	5	ng/dry g	25.8	0	97	60 - 125%	PASS					
PCB066	NA	26.5	1	5	ng/dry g	25.8	0	103	60 - 125%	PASS					
PCB070	NA	25.7	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS					
PCB074	NA	25.4	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS					
PCB077	NA	27	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS					
PCB081	NA	27.5	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS					
PCB087	NA	27.6	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS					
PCB095	NA	25.6	1	5	ng/dry g	25.8	0	99	60 - 125%	PASS					
PCB097	NA	25.5	1	5	ng/dry g	25.8	0	99	60 - 125%	PASS					
PCB099	NA	26.1	1	5	ng/dry g	25.8	0	101	60 - 125%	PASS					
PCB101	NA	27.4	1	5	ng/dry g	25.8	0	106	60 - 125%	PASS					
PCB105	NA	26	1	5	ng/dry g	25.8	0	101	60 - 125%	PASS					
PCB110	NA	27.2	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS					
PCB114	NA	26.6	1	5	ng/dry g	25.8	0	103	60 - 125%	PASS					
PCB118	NA	26.5	1	5	ng/dry g	25.8	0	103	60 - 125%	PASS					
PCB119	NA	27	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS					

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB123	NA	26.1	1	5	ng/dry g	25.8	0	101	60 - 125%	PASS				
PCB126	NA	27.2	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS				
PCB128	NA	26.9	1	5	ng/dry g	25.8	0	104	60 - 125%	PASS				
PCB138	NA	26.4	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS				
PCB141	NA	27.9	1	5	ng/dry g	25.8	0	108	60 - 125%	PASS				
PCB149	NA	26.9	1	5	ng/dry g	25.8	0	104	60 - 125%	PASS				
PCB151	NA	27.1	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS				
PCB153	NA	28.2	1	5	ng/dry g	25.8	0	109	60 - 125%	PASS				
PCB156	NA	27.9	1	5	ng/dry g	25.8	0	108	60 - 125%	PASS				
PCB157	NA	26.2	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS				
PCB158	NA	26.5	1	5	ng/dry g	25.8	0	103	60 - 125%	PASS				
PCB167	NA	24.3	1	5	ng/dry g	25.8	0	94	60 - 125%	PASS				
PCB168+132	NA	52.9	1	5	ng/dry g	51.6	0	103	60 - 125%	PASS				
PCB169	NA	28.7	1	5	ng/dry g	25.8	0	111	60 - 125%	PASS				
PCB170	NA	27.1	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS				
PCB174	NA	26.1	1	5	ng/dry g	22.6	0	115	60 - 125%	PASS				
PCB177	NA	27.2	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS				
PCB180	NA	28.8	1	5	ng/dry g	25.8	0	112	60 - 125%	PASS				
PCB183	NA	27	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS				
PCB187	NA	27.3	1	5	ng/dry g	25.8	0	106	60 - 125%	PASS				
PCB189	NA	24.6	1	5	ng/dry g	25.8	0	95	60 - 125%	PASS				
PCB194	NA	27.4	1	5	ng/dry g	25.8	0	106	60 - 125%	PASS				
PCB195	NA	24.6	1	5	ng/dry g	22.6	0	109	60 - 125%	PASS				
PCB200	NA	26.3	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS				
PCB201	NA	25.4	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS				
PCB206	NA	28.4	1	5	ng/dry g	25.8	0	110	60 - 125%	PASS				
PCB209	NA	26.2	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS				

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Batch ID:	35037	QAQC Procedural Blank			Prepared 2/13/2008					Analyzed 05-Mar-08				
Blank Spike Dup	63658-BS2	DI Water												
PCB003	NA	27.4	1	5	ng/dry g	25.8	0	106	60 - 125%	PASS	4	30	PASS	
PCB008	NA	26.1	1	5	ng/dry g	25.8	0	101	60 - 125%	PASS	6	30	PASS	
PCB018	NA	24.8	1	5	ng/dry g	25.8	0	96	60 - 125%	PASS	2	30	PASS	
PCB028	NA	24.3	1	5	ng/dry g	25.8	0	94	60 - 125%	PASS	1	30	PASS	
PCB031	NA	28.2	1	5	ng/dry g	25.8	0	109	60 - 125%	PASS	5	30	PASS	
PCB033	NA	25.8	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	0	30	PASS	
PCB037	NA	26	1	5	ng/dry g	25.8	0	101	60 - 125%	PASS	1	30	PASS	
PCB044	NA	25.9	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	9	30	PASS	
PCB049	NA	27.6	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS	5	30	PASS	
PCB052	NA	25.7	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	5	30	PASS	
PCB056/060	NA	25.3	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS	1	30	PASS	
PCB066	NA	26.2	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS	1	30	PASS	
PCB070	NA	23.7	1	5	ng/dry g	25.8	0	92	60 - 125%	PASS	8	30	PASS	
PCB074	NA	26.7	1	5	ng/dry g	25.8	0	103	60 - 125%	PASS	5	30	PASS	
PCB077	NA	26.2	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS	3	30	PASS	
PCB081	NA	25.4	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS	9	30	PASS	
PCB087	NA	25	1	5	ng/dry g	25.8	0	97	60 - 125%	PASS	10	30	PASS	
PCB095	NA	24.4	1	5	ng/dry g	25.8	0	95	60 - 125%	PASS	4	30	PASS	
PCB097	NA	27.6	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS	8	30	PASS	
PCB099	NA	26.7	1	5	ng/dry g	25.8	0	103	60 - 125%	PASS	2	30	PASS	
PCB101	NA	25.4	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS	8	30	PASS	
PCB105	NA	26.1	1	5	ng/dry g	25.8	0	101	60 - 125%	PASS	0	30	PASS	
PCB110	NA	26.3	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS	3	30	PASS	
PCB114	NA	27.3	1	5	ng/dry g	25.8	0	106	60 - 125%	PASS	3	30	PASS	
PCB118	NA	24.7	1	5	ng/dry g	25.8	0	96	60 - 125%	PASS	7	30	PASS	
PCB119	NA	24.5	1	5	ng/dry g	25.8	0	95	60 - 125%	PASS	10	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB123	NA	26.4	1	5	ng/dry g	25.8	0	102	60 - 125%	PASS	1	30	PASS	
PCB126	NA	24.8	1	5	ng/dry g	25.8	0	96	60 - 125%	PASS	9	30	PASS	
PCB128	NA	24.4	1	5	ng/dry g	25.8	0	95	60 - 125%	PASS	9	30	PASS	
PCB138	NA	27.4	1	5	ng/dry g	25.8	0	106	60 - 125%	PASS	4	30	PASS	
PCB141	NA	25.8	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	8	30	PASS	
PCB149	NA	25.8	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	4	30	PASS	
PCB151	NA	27.7	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS	2	30	PASS	
PCB153	NA	27.5	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS	2	30	PASS	
PCB156	NA	25.8	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	8	30	PASS	
PCB157	NA	24.8	1	5	ng/dry g	25.8	0	96	60 - 125%	PASS	6	30	PASS	
PCB158	NA	25.6	1	5	ng/dry g	25.8	0	99	60 - 125%	PASS	4	30	PASS	
PCB167	NA	24	1	5	ng/dry g	25.8	0	93	60 - 125%	PASS	1	30	PASS	
PCB168+132	NA	50.3	1	5	ng/dry g	51.6	0	97	60 - 125%	PASS	6	30	PASS	
PCB169	NA	24.9	1	5	ng/dry g	25.8	0	97	60 - 125%	PASS	13	30	PASS	
PCB170	NA	24.9	1	5	ng/dry g	25.8	0	97	60 - 125%	PASS	8	30	PASS	
PCB174	NA	23.9	1	5	ng/dry g	22.6	0	106	60 - 125%	PASS	9	30	PASS	
PCB177	NA	27.2	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS	0	30	PASS	
PCB180	NA	26.8	1	5	ng/dry g	25.8	0	104	60 - 125%	PASS	7	30	PASS	
PCB183	NA	25.4	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS	7	30	PASS	
PCB187	NA	25.2	1	5	ng/dry g	25.8	0	98	60 - 125%	PASS	8	30	PASS	
PCB189	NA	27.1	1	5	ng/dry g	25.8	0	105	60 - 125%	PASS	10	30	PASS	
PCB194	NA	25.8	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	6	30	PASS	
PCB195	NA	24	1	5	ng/dry g	22.6	0	106	60 - 125%	PASS	3	30	PASS	
PCB200	NA	25.7	1	5	ng/dry g	25.8	0	100	60 - 125%	PASS	2	30	PASS	
PCB201	NA	28.2	1	5	ng/dry g	25.8	0	109	60 - 125%	PASS	11	30	PASS	
PCB206	NA	27.5	1	5	ng/dry g	25.8	0	107	60 - 125%	PASS	3	30	PASS	
PCB209	NA	28.1	1	5	ng/dry g	25.8	0	109	60 - 125%	PASS	7	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Batch ID:	35037	LB-MVP-COMP-F							Prepared 2/13/2008	Analyzed 05-Mar-08				
Matrix Spike	63660-MS1	COMP-F												
		Soil												
PCB008	NA	27	1	5	ng/dry g	26.4	0	102	60 - 125%	PASS				
PCB018	NA	25.7	1	5	ng/dry g	26.4	0	97	60 - 125%	PASS				
PCB028	NA	28.4	1	5	ng/dry g	26.4	0	108	60 - 125%	PASS				
PCB031	NA	27.7	1	5	ng/dry g	26.4	0	105	60 - 125%	PASS				
PCB033	NA	26.2	1	5	ng/dry g	26.4	0	99	60 - 125%	PASS				
PCB037	NA	28.4	1	5	ng/dry g	26.4	0	108	60 - 125%	PASS				
PCB044	NA	26	1	5	ng/dry g	26.4	0	98	60 - 125%	PASS				
PCB049	NA	27.2	1	5	ng/dry g	26.4	0	103	60 - 125%	PASS				
PCB052	NA	27.2	1	5	ng/dry g	26.4	0	103	60 - 125%	PASS				
PCB056/060	NA	52.3	1	5	ng/dry g	49.5	0	106	60 - 125%	PASS				
PCB066	NA	26.5	1	5	ng/dry g	26.4	0	100	60 - 125%	PASS				
PCB070	NA	25.3	1	5	ng/dry g	26.4	0	96	60 - 125%	PASS				
PCB074	NA	27.1	1	5	ng/dry g	26.4	0	103	60 - 125%	PASS				
PCB077	NA	27.8	1	5	ng/dry g	26.4	0	105	60 - 125%	PASS				
PCB081	NA	27.8	1	5	ng/dry g	26.4	0	105	60 - 125%	PASS				
PCB087	NA	26.4	1	5	ng/dry g	26.4	0	100	60 - 125%	PASS				
PCB095	NA	25.3	1	5	ng/dry g	26.4	0	96	60 - 125%	PASS				
PCB097	NA	28	1	5	ng/dry g	26.4	0	106	60 - 125%	PASS				
PCB099	NA	25.7	1	5	ng/dry g	26.4	0	97	60 - 125%	PASS				
PCB101	NA	26.1	1	5	ng/dry g	26.4	0	99	60 - 125%	PASS				
PCB105	NA	25.6	1	5	ng/dry g	26.4	0	97	60 - 125%	PASS				
PCB110	NA	26.2	1	5	ng/dry g	26.4	0	99	60 - 125%	PASS				
PCB114	NA	28.1	1	5	ng/dry g	26.4	0	106	60 - 125%	PASS				
PCB118	NA	25.3	1	5	ng/dry g	26.4	0	96	60 - 125%	PASS				
PCB119	NA	26.9	1	5	ng/dry g	26.4	0	102	60 - 125%	PASS				
PCB123	NA	25.6	1	5	ng/dry g	26.4	0	97	60 - 125%	PASS				

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB126	NA	28.5	1	5	ng/dry g	26.4	0	108	60 - 125%	PASS				
PCB128	NA	26.5	1	5	ng/dry g	26.4	0	100	60 - 125%	PASS				
PCB138	NA	25.8	1	5	ng/dry g	26.4	0	98	60 - 125%	PASS				
PCB141	NA	26.9	1	5	ng/dry g	26.4	0	102	60 - 125%	PASS				
PCB149	NA	27.4	1	5	ng/dry g	26.4	0	104	60 - 125%	PASS				
PCB151	NA	28	1	5	ng/dry g	26.4	0	106	60 - 125%	PASS				
PCB153	NA	26.4	1	5	ng/dry g	26.4	0	100	60 - 125%	PASS				
PCB156	NA	28.5	1	5	ng/dry g	26.4	0	108	60 - 125%	PASS				
PCB157	NA	26	1	5	ng/dry g	26.4	0	98	60 - 125%	PASS				
PCB158	NA	27.2	1	5	ng/dry g	26.4	0	103	60 - 125%	PASS				
PCB167	NA	27.5	1	5	ng/dry g	26.4	0	104	60 - 125%	PASS				
PCB168+132	NA	52.3	1	5	ng/dry g	52.8	0	99	60 - 125%	PASS				
PCB169	NA	29.3	1	5	ng/dry g	26.4	0	111	60 - 125%	PASS				
PCB170	NA	28.2	1	5	ng/dry g	26.4	0	107	60 - 125%	PASS				
PCB174	NA	26.4	1	5	ng/dry g	23.1	0	114	60 - 125%	PASS				
PCB177	NA	28	1	5	ng/dry g	26.4	0	106	60 - 125%	PASS				
PCB180	NA	27.4	1	5	ng/dry g	26.4	0	104	60 - 125%	PASS				
PCB183	NA	27.7	1	5	ng/dry g	26.4	0	105	60 - 125%	PASS				
PCB187	NA	28.9	1	5	ng/dry g	26.4	0	109	60 - 125%	PASS				
PCB189	NA	29.5	1	5	ng/dry g	26.4	0	112	60 - 125%	PASS				
PCB194	NA	27.7	1	5	ng/dry g	26.4	0	105	60 - 125%	PASS				
PCB195	NA	23.2	1	5	ng/dry g	23.1	0	100	60 - 125%	PASS				
PCB200	NA	26.4	1	5	ng/dry g	26.4	0	100	60 - 125%	PASS				
PCB201	NA	26	1	5	ng/dry g	26.4	0	98	60 - 125%	PASS				
PCB206	NA	26.2	1	5	ng/dry g	26.4	0	99	60 - 125%	PASS				
PCB209	NA	25.2	1	5	ng/dry g	26.4	0	95	60 - 125%	PASS				

Batch ID: 35037
Matrix Spike Dup 63660-MS2

LB-MVP-COMP-F COMP-F
Soil

Prepared 2/13/2008

Analyzed 05-Mar-08

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB008	NA	26.9	1	5	ng/dry g	26.5	0	102	60 - 125%	PASS	1	30	PASS	
PCB018	NA	26.5	1	5	ng/dry g	26.5	0	100	60 - 125%	PASS	3	30	PASS	
PCB028	NA	27.5	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	4	30	PASS	
PCB031	NA	26.1	1	5	ng/dry g	26.5	0	98	60 - 125%	PASS	7	30	PASS	
PCB033	NA	26.6	1	5	ng/dry g	26.5	0	100	60 - 125%	PASS	1	30	PASS	
PCB037	NA	27.5	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	4	30	PASS	
PCB044	NA	26.8	1	5	ng/dry g	26.5	0	101	60 - 125%	PASS	2	30	PASS	
PCB049	NA	26.4	1	5	ng/dry g	26.5	0	100	60 - 125%	PASS	4	30	PASS	
PCB052	NA	27.3	1	5	ng/dry g	26.5	0	103	60 - 125%	PASS	0	30	PASS	
PCB056/060	NA	53.5	1	5	ng/dry g	49.8	0	107	60 - 125%	PASS	2	30	PASS	
PCB066	NA	27.8	1	5	ng/dry g	26.5	0	105	60 - 125%	PASS	5	30	PASS	
PCB070	NA	26.3	1	5	ng/dry g	26.5	0	99	60 - 125%	PASS	3	30	PASS	
PCB074	NA	25	1	5	ng/dry g	26.5	0	94	60 - 125%	PASS	9	30	PASS	
PCB077	NA	28.2	1	5	ng/dry g	26.5	0	106	60 - 125%	PASS	1	30	PASS	
PCB081	NA	27.6	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	1	30	PASS	
PCB087	NA	26.1	1	5	ng/dry g	26.5	0	98	60 - 125%	PASS	2	30	PASS	
PCB095	NA	24.2	1	5	ng/dry g	26.5	0	91	60 - 125%	PASS	5	30	PASS	
PCB097	NA	26.9	1	5	ng/dry g	26.5	0	102	60 - 125%	PASS	5	30	PASS	
PCB099	NA	26.1	1	5	ng/dry g	26.5	0	98	60 - 125%	PASS	1	30	PASS	
PCB101	NA	25.7	1	5	ng/dry g	26.5	0	97	60 - 125%	PASS	2	30	PASS	
PCB105	NA	29	1	5	ng/dry g	26.5	0	109	60 - 125%	PASS	12	30	PASS	
PCB110	NA	27.5	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	5	30	PASS	
PCB114	NA	29	1	5	ng/dry g	26.5	0	109	60 - 125%	PASS	3	30	PASS	
PCB118	NA	26.6	1	5	ng/dry g	26.5	0	100	60 - 125%	PASS	4	30	PASS	
PCB119	NA	25.6	1	5	ng/dry g	26.5	0	97	60 - 125%	PASS	6	30	PASS	
PCB123	NA	25.1	1	5	ng/dry g	26.5	0	95	60 - 125%	PASS	2	30	PASS	
PCB126	NA	28.7	1	5	ng/dry g	26.5	0	108	60 - 125%	PASS	0	30	PASS	
PCB128	NA	27.3	1	5	ng/dry g	26.5	0	103	60 - 125%	PASS	3	30	PASS	
PCB138	NA	25.9	1	5	ng/dry g	26.5	0	98	60 - 125%	PASS	0	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
PCB141	NA	27.2	1	5	ng/dry g	26.5	0	103	60 - 125%	PASS	0	30	PASS		
PCB149	NA	26.7	1	5	ng/dry g	26.5	0	101	60 - 125%	PASS	3	30	PASS		
PCB151	NA	28.2	1	5	ng/dry g	26.5	0	106	60 - 125%	PASS	0	30	PASS		
PCB153	NA	24.5	1	5	ng/dry g	26.5	0	92	60 - 125%	PASS	8	30	PASS		
PCB156	NA	27.6	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	4	30	PASS		
PCB157	NA	26.3	1	5	ng/dry g	26.5	0	99	60 - 125%	PASS	0	30	PASS		
PCB158	NA	27	1	5	ng/dry g	26.5	0	102	60 - 125%	PASS	1	30	PASS		
PCB167	NA	27.5	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	0	30	PASS		
PCB168+132	NA	51.3	1	5	ng/dry g	53.1	0	97	60 - 125%	PASS	2	30	PASS		
PCB169	NA	28.1	1	5	ng/dry g	26.5	0	106	60 - 125%	PASS	5	30	PASS		
PCB170	NA	26	1	5	ng/dry g	26.5	0	98	60 - 125%	PASS	9	30	PASS		
PCB174	NA	25.6	1	5	ng/dry g	23.2	0	110	60 - 125%	PASS	4	30	PASS		
PCB177	NA	26.9	1	5	ng/dry g	26.5	0	102	60 - 125%	PASS	5	30	PASS		
PCB180	NA	26.5	1	5	ng/dry g	26.5	0	100	60 - 125%	PASS	4	30	PASS		
PCB183	NA	26.5	1	5	ng/dry g	26.5	0	100	60 - 125%	PASS	5	30	PASS		
PCB187	NA	28.2	1	5	ng/dry g	26.5	0	106	60 - 125%	PASS	4	30	PASS		
PCB189	NA	26.9	1	5	ng/dry g	26.5	0	102	60 - 125%	PASS	10	30	PASS		
PCB194	NA	28.2	1	5	ng/dry g	26.5	0	106	60 - 125%	PASS	1	30	PASS		
PCB195	NA	25.1	1	5	ng/dry g	23.2	0	108	60 - 125%	PASS	8	30	PASS		
PCB200	NA	24.9	1	5	ng/dry g	26.5	0	94	60 - 125%	PASS	6	30	PASS		
PCB201	NA	25.7	1	5	ng/dry g	26.5	0	97	60 - 125%	PASS	2	30	PASS		
PCB206	NA	27.8	1	5	ng/dry g	26.5	0	105	60 - 125%	PASS	6	30	PASS		
PCB209	NA	27.6	1	5	ng/dry g	26.5	0	104	60 - 125%	PASS	9	30	PASS		
Batch ID:	35037	LB-MVP-COMP-F COMP-F							Prepared 2/13/2008		Analyzed 05-Mar-08				
Lab Dup	63660-R2			Soil											
PCB003	NA	ND	1	5	ng/dry g						0	30	PASS		
PCB008	NA	ND	1	5	ng/dry g						0	30	PASS		
PCB018	NA	ND	1	5	ng/dry g						0	30	PASS		

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB028	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB031	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB033	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB037	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB044	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB049	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB052	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB056/060	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB066	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB070	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB074	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB077	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB081	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB087	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB095	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB097	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB099	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB101	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB105	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB110	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB114	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB118	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB119	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB123	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB126	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB128	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB138	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB141	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB149	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

PCB Congeners

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
PCB151	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB153	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB156	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB157	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB158	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB167	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB168+132	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB169	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB170	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB174	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB177	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB180	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB183	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB187	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB189	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB194	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB195	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB200	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB201	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB206	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB209	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Naphthalene	NA	ND	1	5	ng/dry g									
Perylene	NA	ND	1	5	ng/dry g									
Phenanthrene	NA	ND	1	5	ng/dry g									
Pyrene	NA	ND	1	5	ng/dry g									
Batch ID:	35037	QAQC Procedural Blank				Prepared 2/13/2008				Analyzed 05-Mar-08				
Blank Spike	63658-BS1	DI Water												
(d10-Acenaphthene)	NA	81			% Recovery	100	0	81	40 - 115%	PASS				
(d10-Phenanthrene)	NA	84			% Recovery	100	0	84	60 - 115%	PASS				
(d12-Chrysene)	NA	85			% Recovery	100	0	85	60 - 130%	PASS				
(d12-Perylene)	NA	75			% Recovery	100	0	75	55 - 135%	PASS				
(d8-Naphthalene)	NA	75			% Recovery	100	0	75	25 - 105%	PASS				
1-Methylnaphthalene	NA	52.1	1	5	ng/dry g	64.5	0	81	40 - 120%	PASS				
1-Methylphenanthrene	NA	58.1	1	5	ng/dry g	64.5	0	90	40 - 160%	PASS				
2,3,5-Trimethylnaphthalene	NA	54.4	1	5	ng/dry g	64.5	0	84	45 - 120%	PASS				
2,6-Dimethylnaphthalene	NA	54.2	1	5	ng/dry g	64.5	0	84	40 - 130%	PASS				
2-Methylnaphthalene	NA	51.2	1	5	ng/dry g	64.5	0	79	35 - 125%	PASS				
Acenaphthene	NA	55.2	1	5	ng/dry g	64.5	0	86	40 - 125%	PASS				
Acenaphthylene	NA	55.9	1	5	ng/dry g	64.5	0	87	40 - 130%	PASS				
Anthracene	NA	53.9	1	5	ng/dry g	64.5	0	84	45 - 150%	PASS				
Benzo[a]anthracene	NA	54.6	1	5	ng/dry g	64.5	0	85	50 - 175%	PASS				
Benzo[a]pyrene	NA	46.4	1	5	ng/dry g	64.5	0	72	50 - 160%	PASS				
Benzo[b]fluoranthene	NA	46.2	1	5	ng/dry g	64.5	0	72	45 - 160%	PASS				
Benzo[e]pyrene	NA	46.1	1	5	ng/dry g	64.5	0	71	40 - 160%	PASS				
Benzo[g,h,i]perylene	NA	38	1	5	ng/dry g	64.5	0	59	30 - 170%	PASS				
Benzo[k]fluoranthene	NA	47.2	1	5	ng/dry g	64.5	0	73	50 - 150%	PASS				
Biphenyl	NA	50.1	1	5	ng/dry g	64.5	0	78	45 - 120%	PASS				
Chrysene	NA	56.4	1	5	ng/dry g	64.5	0	87	40 - 160%	PASS				
Dibenz[a,h]anthracene	NA	43.4	1	5	ng/dry g	64.5	0	67	40 - 165%	PASS				

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Dibenzothiophene	NA	53.8	1	5	ng/dry g	64.5	0	83	65 - 125%	PASS				
Fluoranthene	NA	53.8	1	5	ng/dry g	64.5	0	83	45 - 165%	PASS				
Fluorene	NA	53.8	1	5	ng/dry g	64.5	0	83	55 - 150%	PASS				
Indeno[1,2,3-c,d]pyrene	NA	41.4	1	5	ng/dry g	64.5	0	64	40 - 170%	PASS				
Naphthalene	NA	48.9	1	5	ng/dry g	64.5	0	76	30 - 120%	PASS				
Perylene	NA	44.6	1	5	ng/dry g	64.5	0	69	30 - 175%	PASS				
Phenanthrene	NA	53	1	5	ng/dry g	64.5	0	82	35 - 160%	PASS				
Pyrene	NA	55.3	1	5	ng/dry g	64.5	0	86	50 - 150%	PASS				

Batch ID: 35037
Blank Spike Dup 63658-BS2

QAQC Procedural Blank
DI Water

Prepared 2/13/2008

Analyzed 05-Mar-08

(d10-Acenaphthene)	NA	77			% Recovery	100	0	77	40 - 115%	PASS	5	30	PASS	
(d10-Phenanthrene)	NA	83			% Recovery	100	0	83	60 - 115%	PASS	1	30	PASS	
(d12-Chrysene)	NA	84			% Recovery	100	0	84	60 - 130%	PASS	1	30	PASS	
(d12-Perylene)	NA	64			% Recovery	100	0	64	55 - 135%	PASS	16	30	PASS	
(d8-Naphthalene)	NA	68			% Recovery	100	0	68	25 - 105%	PASS	10	30	PASS	
1-Methylnaphthalene	NA	48.8	1	5	ng/dry g	64.5	0	76	40 - 120%	PASS	6	30	PASS	
1-Methylphenanthrene	NA	59.4	1	5	ng/dry g	64.5	0	92	40 - 160%	PASS	2	30	PASS	
2,3,5-Trimethylnaphthalene	NA	54	1	5	ng/dry g	64.5	0	84	45 - 120%	PASS	0	30	PASS	
2,6-Dimethylnaphthalene	NA	51.7	1	5	ng/dry g	64.5	0	80	40 - 130%	PASS	5	30	PASS	
2-Methylnaphthalene	NA	48.9	1	5	ng/dry g	64.5	0	76	35 - 125%	PASS	4	30	PASS	
Acenaphthene	NA	51.6	1	5	ng/dry g	64.5	0	80	40 - 125%	PASS	7	30	PASS	
Acenaphthylene	NA	51.8	1	5	ng/dry g	64.5	0	80	40 - 130%	PASS	8	30	PASS	
Anthracene	NA	55.2	1	5	ng/dry g	64.5	0	86	45 - 150%	PASS	2	30	PASS	
Benz[a]anthracene	NA	51.7	1	5	ng/dry g	64.5	0	80	50 - 175%	PASS	6	30	PASS	
Benzo[a]pyrene	NA	41.3	1	5	ng/dry g	64.5	0	64	50 - 160%	PASS	12	30	PASS	
Benzo[b]fluoranthene	NA	42.4	1	5	ng/dry g	64.5	0	66	45 - 160%	PASS	9	30	PASS	
Benzo[e]pyrene	NA	41.9	1	5	ng/dry g	64.5	0	65	40 - 160%	PASS	9	30	PASS	
Benzo[g,h,i]perylene	NA	31.9	1	5	ng/dry g	64.5	0	49	30 - 170%	PASS	19	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Benzo[k]fluoranthene	NA	45.2	1	5	ng/dry g	64.5	0	70	50 - 150%	PASS	4	30	PASS	
Biphenyl	NA	48.8	1	5	ng/dry g	64.5	0	76	45 - 120%	PASS	3	30	PASS	
Chrysene	NA	53.8	1	5	ng/dry g	64.5	0	83	40 - 160%	PASS	5	30	PASS	
Dibenz[a,h]anthracene	NA	34.1	1	5	ng/dry g	64.5	0	53	40 - 165%	PASS	23	30	PASS	
Dibenzothiophene	NA	53.7	1	5	ng/dry g	64.5	0	83	65 - 125%	PASS	0	30	PASS	
Fluoranthene	NA	56.5	1	5	ng/dry g	64.5	0	88	45 - 165%	PASS	6	30	PASS	
Fluorene	NA	54.8	1	5	ng/dry g	64.5	0	85	55 - 150%	PASS	2	30	PASS	
Indeno[1,2,3-c,d]pyrene	NA	33.7	1	5	ng/dry g	64.5	0	52	40 - 170%	PASS	21	30	PASS	
Naphthalene	NA	46.8	1	5	ng/dry g	64.5	0	73	30 - 120%	PASS	4	30	PASS	
Perylene	NA	39.8	1	5	ng/dry g	64.5	0	62	30 - 175%	PASS	11	30	PASS	
Phenanthrene	NA	56.9	1	5	ng/dry g	64.5	0	88	35 - 160%	PASS	7	30	PASS	
Pyrene	NA	59.6	1	5	ng/dry g	64.5	0	92	50 - 150%	PASS	7	30	PASS	

Batch ID: 35037 **LB-MVP-COMP-F COMP-F** **Prepared** 2/13/2008 **Analyzed** 05-Mar-08
Matrix Spike 63660-MS1 **Soil**

(d10-Acenaphthene)	NA	79			% Recovery	100	0	79	40 - 115%	PASS				
(d10-Phenanthrene)	NA	84			% Recovery	100	0	84	60 - 115%	PASS				
(d12-Chrysene)	NA	85			% Recovery	100	0	85	60 - 130%	PASS				
(d12-Perylene)	NA	77			% Recovery	100	0	77	55 - 135%	PASS				
(d8-Naphthalene)	NA	67			% Recovery	100	0	67	25 - 105%	PASS				
1-Methylnaphthalene	NA	46.3	1	5	ng/dry g	66	0	70	40 - 120%	PASS				
1-Methylphenanthrene	NA	60.1	1	5	ng/dry g	66	0	91	40 - 160%	PASS				
2,3,5-Trimethylnaphthalene	NA	54.2	1	5	ng/dry g	66	0	82	45 - 120%	PASS				
2,6-Dimethylnaphthalene	NA	51.4	1	5	ng/dry g	66	0	78	40 - 130%	PASS				
2-Methylnaphthalene	NA	50.2	1	5	ng/dry g	66	0	76	35 - 125%	PASS				
Acenaphthene	NA	54.7	1	5	ng/dry g	66	0	83	40 - 125%	PASS				
Acenaphthylene	NA	51.8	1	5	ng/dry g	66	0	78	40 - 130%	PASS				
Anthracene	NA	49.7	1	5	ng/dry g	66	0	75	45 - 150%	PASS				
Benz[a]anthracene	NA	54.9	1	5	ng/dry g	66	0.6	82	50 - 175%	PASS				

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Benzo[a]pyrene	NA	51.4	1	5	ng/dry g	66	0.6	77	50 - 160%	PASS				
Benzo[b]fluoranthene	NA	51.3	1	5	ng/dry g	66	0.7	77	45 - 160%	PASS				
Benzo[e]pyrene	NA	47.7	1	5	ng/dry g	66	1.6	70	40 - 160%	PASS				
Benzo[g,h,i]perylene	NA	44.6	1	5	ng/dry g	66	1.2	66	30 - 170%	PASS				
Benzo[k]fluoranthene	NA	50.5	1	5	ng/dry g	66	0	77	50 - 150%	PASS				
Biphenyl	NA	48	1	5	ng/dry g	66	0	73	45 - 120%	PASS				
Chrysene	NA	57.7	1	5	ng/dry g	66	1.7	85	40 - 160%	PASS				
Dibenz[a,h]anthracene	NA	44.9	1	5	ng/dry g	66	0	68	40 - 165%	PASS				
Dibenzothiophene	NA	53.2	1	5	ng/dry g	66	0	81	65 - 125%	PASS				
Fluoranthene	NA	57.3	1	5	ng/dry g	66	1.6	84	45 - 165%	PASS				
Fluorene	NA	53.8	1	5	ng/dry g	66	0	82	55 - 150%	PASS				
Indeno[1,2,3-c,d]pyrene	NA	43.2	1	5	ng/dry g	66	0	65	40 - 170%	PASS				
Naphthalene	NA	44.5	1	5	ng/dry g	66	0	67	30 - 120%	PASS				
Perylene	NA	51.6	1	5	ng/dry g	66	5.1	70	30 - 175%	PASS				
Phenanthrene	NA	54.1	1	5	ng/dry g	66	0	82	35 - 160%	PASS				
Pyrene	NA	59.8	1	5	ng/dry g	66	1.9	88	50 - 150%	PASS				

Batch ID:	35037	LB-MVP-COMP-F COMP-F	Prepared 2/13/2008	Analyzed 05-Mar-08
Matrix Spike Dup	63660-MS2	Soil		

(d10-Acenaphthene)	NA	78			% Recovery	100	0	78	40 - 115%	PASS	0	30	PASS	
(d10-Phenanthrene)	NA	82			% Recovery	100	0	82	60 - 115%	PASS	0	30	PASS	
(d12-Chrysene)	NA	85			% Recovery	100	0	85	60 - 130%	PASS	0	30	PASS	
(d12-Perylene)	NA	81			% Recovery	100	0	81	55 - 135%	PASS	0	30	PASS	
(d8-Naphthalene)	NA	68			% Recovery	100	0	68	25 - 105%	PASS	0	30	PASS	
1-Methylnaphthalene	NA	45.9	1	5	ng/dry g	66.4	0	69	40 - 120%	PASS	1	30	PASS	
1-Methylphenanthrene	NA	57.4	1	5	ng/dry g	66.4	0	86	40 - 160%	PASS	4	30	PASS	
2,3,5-Trimethylnaphthalene	NA	53.6	1	5	ng/dry g	66.4	0	81	45 - 120%	PASS	1	30	PASS	
2,6-Dimethylnaphthalene	NA	53.6	1	5	ng/dry g	66.4	0	81	40 - 130%	PASS	4	30	PASS	
2-Methylnaphthalene	NA	49.4	1	5	ng/dry g	66.4	0	74	35 - 125%	PASS	3	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Acenaphthene	NA	52.3	1	5	ng/dry g	66.4	0	79	40 - 125%	PASS	5	30	PASS	
Acenaphthylene	NA	55.3	1	5	ng/dry g	66.4	0	83	40 - 130%	PASS	5	30	PASS	
Anthracene	NA	50.6	1	5	ng/dry g	66.4	0	76	45 - 150%	PASS	1	30	PASS	
Benz[a]anthracene	NA	57.9	1	5	ng/dry g	66.4	0.6	86	50- 175%	PASS	5	30	PASS	
Benzo[a]pyrene	NA	54.6	1	5	ng/dry g	66.4	0.6	81	50 - 160%	PASS	5	30	PASS	
Benzo[b]fluoranthene	NA	52.8	1	5	ng/dry g	66.4	0.7	78	45 - 160%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	48	1	5	ng/dry g	66.4	1.6	70	40 - 160%	PASS	0	30	PASS	
Benzo[g,h,i]perylene	NA	45.4	1	5	ng/dry g	66.4	1.2	67	30 - 170%	PASS	2	30	PASS	
Benzo[k]fluoranthene	NA	53.1	1	5	ng/dry g	66.4	0	80	50 - 150%	PASS	4	30	PASS	
Biphenyl	NA	48.9	1	5	ng/dry g	66.4	0	74	45 - 120%	PASS	1	30	PASS	
Chrysene	NA	58.5	1	5	ng/dry g	66.4	1.7	86	40 - 160%	PASS	1	30	PASS	
Dibenz[a,h]anthracene	NA	50.5	1	5	ng/dry g	66.4	0	76	40 - 165%	PASS	11	30	PASS	
Dibenzothiophene	NA	52.5	1	5	ng/dry g	66.4	0	79	65 - 125%	PASS	2	30	PASS	
Fluoranthene	NA	56.6	1	5	ng/dry g	66.4	1.6	83	45 - 165%	PASS	1	30	PASS	
Fluorene	NA	52.5	1	5	ng/dry g	66.4	0	79	55 - 150%	PASS	4	30	PASS	
Indeno[1,2,3-c,d]pyrene	NA	48.9	1	5	ng/dry g	66.4	0	74	40 - 170%	PASS	13	30	PASS	
Naphthalene	NA	46.8	1	5	ng/dry g	66.4	0	70	30 - 120%	PASS	6	30	PASS	
Perylene	NA	51.9	1	5	ng/dry g	66.4	5.1	70	30 - 175%	PASS	0	30	PASS	
Phenanthrene	NA	52.7	1	5	ng/dry g	66.4	0	79	35 - 160%	PASS	4	30	PASS	
Pyrene	NA	59.8	1	5	ng/dry g	66.4	1.9	87	50 - 150%	PASS	1	30	PASS	

Batch ID: 35037
Lab Dup 63660-R2

LB-MVP-COMP-F COMP-F
Soil

Prepared 2/13/2008

Analyzed 05-Mar-08

(d10-Acenaphthene)	NA	80			% Recovery	100		80	40 - 115%	PASS	0	30	PASS	
(d10-Phenanthrene)	NA	84			% Recovery	100		84	60 - 115%	PASS	1	30	PASS	
(d12-Chrysene)	NA	90			% Recovery	100		90	60 - 130%	PASS	3	30	PASS	
(d12-Perylene)	NA	83			% Recovery	100		83	55 - 135%	PASS	6	30	PASS	
(d8-Naphthalene)	NA	71			% Recovery	100		71	25 - 105%	PASS	7	30	PASS	
1-Methylnaphthalene	NA	ND	1	5	ng/dry g						0	30	PASS	

CRG Marine Laboratories, Inc.

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

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
1-Methylphenanthrene	NA	ND	1	5	ng/dry g						0	30	PASS	
2,3,5-Trimethylnaphthalene	NA	ND	1	5	ng/dry g						0	30	PASS	
2,6-Dimethylnaphthalene	NA	ND	1	5	ng/dry g						0	30	PASS	
2-Methylnaphthalene	NA	ND	1	5	ng/dry g						0	30	PASS	
Acenaphthene	NA	ND	1	5	ng/dry g						0	30	PASS	
Acenaphthylene	NA	ND	1	5	ng/dry g						0	30	PASS	
Anthracene	NA	ND	1	5	ng/dry g						0	30	PASS	
Benz[a]anthracene	NA	1.1	1	5	ng/dry g						10	30	PASS	J
Benzo[a]pyrene	NA	1.1	1	5	ng/dry g						10	30	PASS	J
Benzo[b]fluoranthene	NA	1.4	1	5	ng/dry g						33	30	FAIL	J,Q3
Benzo[e]pyrene	NA	1.6	1	5	ng/dry g						0	30	PASS	J
Benzo[g,h,i]perylene	NA	1.5	1	5	ng/dry g						40	30	FAIL	J,Q3
Benzo[k]fluoranthene	NA	ND	1	5	ng/dry g						0	30	PASS	
Biphenyl	NA	ND	1	5	ng/dry g						0	30	PASS	
Chrysene	NA	1.7	1	5	ng/dry g						0	30	PASS	J
Dibenz[a,h]anthracene	NA	ND	1	5	ng/dry g						0	30	PASS	
Dibenzothiophene	NA	ND	1	5	ng/dry g						0	30	PASS	
Fluoranthene	NA	1.5	1	5	ng/dry g						13	30	PASS	J
Fluorene	NA	ND	1	5	ng/dry g						0	30	PASS	
Indeno[1,2,3-c,d]pyrene	NA	ND	1	5	ng/dry g						0	30	PASS	
Naphthalene	NA	ND	1	5	ng/dry g						0	30	PASS	
Perylene	NA	4.5	1	5	ng/dry g						22	30	PASS	J
Phenanthrene	NA	ND	1	5	ng/dry g						0	30	PASS	
Pyrene	NA	1.7	1	5	ng/dry g						21	30	PASS	J

CRG Marine Laboratories, Inc.

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

Trace Metals

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: 18060		QAQC Procedural Blank				Prepared 2/18/2008				Analyzed 26-Feb-08					
Lab Blank 63658-B1		DI Water													
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g										
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g										
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g										
Cadmium (Cd)	NA	ND	0.025	0.05	µg/dry g										
Chromium (Cr)	NA	ND	0.025	0.05	µg/dry g										
Copper (Cu)	NA	ND	0.025	0.05	µg/dry g										
Lead (Pb)	NA	ND	0.025	0.05	µg/dry g										
Mercury (Hg)	NA	ND	0.01	0.02	µg/dry g										
Nickel (Ni)	NA	ND	0.025	0.05	µg/dry g										
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g										
Silver (Ag)	NA	ND	0.025	0.05	µg/dry g										
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g										
Batch ID: 18060		QAQC Procedural Blank				Prepared 2/18/2008				Analyzed 26-Feb-08					
Blank Spike 63658-BS1		DI Water													
Antimony (Sb)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS					
Arsenic (As)	NA	1.8	0.025	0.05	µg/dry g	2	0	90	70 - 130%	PASS					
Barium (Ba)	NA	2.2	0.025	0.05	µg/dry g	2	0	110	70 - 140%	PASS					
Cadmium (Cd)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS					
Chromium (Cr)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	55 - 135%	PASS					
Copper (Cu)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	65 - 125%	PASS					
Lead (Pb)	NA	1.87	0.025	0.05	µg/dry g	2	0	94	55 - 120%	PASS					
Mercury (Hg)	NA	2.5	0.01	0.02	µg/dry g	2	0	125	65 - 140%	PASS					
Nickel (Ni)	NA	1.8	0.025	0.05	µg/dry g	2	0	90	70 - 130%	PASS					
Selenium (Se)	NA	2.3	0.025	0.05	µg/dry g	2	0	115	60 - 125%	PASS					
Silver (Ag)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	50 - 120%	PASS					
Zinc (Zn)	NA	1.7	0.025	0.05	µg/dry g	2	0	85	60 - 120%	PASS					

CRG Marine Laboratories, Inc.

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

Trace Metals

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code	
Batch ID: 18060		QAQC Procedural Blank				Prepared 2/18/2008				Analyzed 26-Feb-08					
Blank Spike Dup 63658-BS2		DI Water													
Antimony (Sb)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS	0	30	PASS		
Arsenic (As)	NA	1.8	0.025	0.05	µg/dry g	2	0	90	70 - 130%	PASS	0	30	PASS		
Barium (Ba)	NA	2.2	0.025	0.05	µg/dry g	2	0	110	70 - 140%	PASS	0	30	PASS		
Cadmium (Cd)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	70 - 130%	PASS	0	30	PASS		
Chromium (Cr)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	55 - 135%	PASS	0	30	PASS		
Copper (Cu)	NA	1.9	0.025	0.05	µg/dry g	2	0	95	65 - 125%	PASS	0	30	PASS		
Lead (Pb)	NA	1.91	0.025	0.05	µg/dry g	2	0	95	55 - 120%	PASS	2	30	PASS		
Mercury (Hg)	NA	2.5	0.01	0.02	µg/dry g	2	0	125	65 - 140%	PASS	0	30	PASS		
Nickel (Ni)	NA	1.8	0.025	0.05	µg/dry g	2	0	90	70 - 130%	PASS	0	30	PASS		
Selenium (Se)	NA	2.4	0.025	0.05	µg/dry g	2	0	120	60 - 125%	PASS	4	30	PASS		
Silver (Ag)	NA	0.2	0.025	0.05	µg/dry g	0.2	0	100	50 - 120%	PASS	0	30	PASS		
Zinc (Zn)	NA	1.8	0.025	0.05	µg/dry g	2	0	90	60 - 120%	PASS	6	30	PASS		
Batch ID: 18060		LB-MVP-COMP-E COMP-E				Prepared 2/18/2008				Analyzed 26-Feb-08					
Lab Dup 63659-R2		Soil													
Antimony (Sb)	NA	0.4	0.025	0.05	µg/dry g						29	30	PASS		
Arsenic (As)	NA	10	0.025	0.05	µg/dry g						11	30	PASS		
Barium (Ba)	NA	106.2	0.025	0.05	µg/dry g						3	30	PASS		
Cadmium (Cd)	NA	0.1	0.025	0.05	µg/dry g						0	30	PASS		
Chromium (Cr)	NA	30.4	0.025	0.05	µg/dry g						19	30	PASS		
Copper (Cu)	NA	24.7	0.025	0.05	µg/dry g						14	30	PASS		
Lead (Pb)	NA	11.25	0.025	0.05	µg/dry g						22	30	PASS		
Mercury (Hg)	NA	0.08	0.01	0.02	µg/dry g						0	30	PASS		
Nickel (Ni)	NA	18.6	0.025	0.05	µg/dry g						16	30	PASS		
Selenium (Se)	NA	0.2	0.025	0.05	µg/dry g						0	30	PASS		
Silver (Ag)	NA	0.259	0.025	0.05	µg/dry g						26	30	PASS		
Zinc (Zn)	NA	69.8	0.025	0.05	µg/dry g						22	30	PASS		

CRG Marine Laboratories, Inc.

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

Trace Metals

QUALITY CONTROL REPORT

Analyte	Fraction	Result	MDL	RL	Units	Spike Level	Source Result	% Recovery	Acceptance Limits	Limit Pass/Fail	RPD	RPD LIMIT	Limit Pass/Fail	QA Code
Batch ID: 18060 CRM		QAQC CRM (RTC016-050) Lot# BE016 Sediment						Prepared 2/18/2008			Analyzed 26-Feb-08			
Arsenic (As)	NA	7.4	0.025	0.05	µg/dry g	6.56		113	5.64 - 7.48	PASS				
Cadmium (Cd)	NA	0.3	0.025	0.05	µg/dry g	0.34		88	0.04 - 0.63	PASS				
Chromium (Cr)	NA	18.2	0.025	0.05	µg/dry g	18.8		97	6.19 - 31.4	PASS				
Copper (Cu)	NA	16	0.025	0.05	µg/dry g	14.8		108	12.2 - 17.5	PASS				
Lead (Pb)	NA	14.97	0.025	0.05	µg/dry g	14.4		104	10.9 - 17.9	PASS				
Mercury (Hg)	NA	0.33	0.01	0.02	µg/dry g	0.158		209	0.010 - 0.357	PASS				
Nickel (Ni)	NA	18	0.025	0.05	µg/dry g	16.7		108	12.4 - 21.1	PASS				
Zinc (Zn)	NA	75.6	0.025	0.05	µg/dry g	63.5		119	50.3 - 76.6	PASS				
Batch ID: 18060 CRM Dup		QAQC CRM (RTC016-050) Lot# BE016 Sediment						Prepared 2/18/2008			Analyzed 26-Feb-08			
Arsenic (As)	NA	7.9	0.025	0.05	µg/dry g	6.56		120	5.64 - 7.48	FAIL	7	30	PASS	
Cadmium (Cd)	NA	0.3	0.025	0.05	µg/dry g	0.34		88	0.04 - 0.63	PASS	0	30	PASS	
Chromium (Cr)	NA	18.3	0.025	0.05	µg/dry g	18.8		97	6.19 - 31.4	PASS	1	30	PASS	
Copper (Cu)	NA	16.4	0.025	0.05	µg/dry g	14.8		111	12.2 - 17.5	PASS	2	30	PASS	
Lead (Pb)	NA	15.44	0.025	0.05	µg/dry g	14.4		107	10.9 - 17.9	PASS	3	30	PASS	
Mercury (Hg)	NA	0.3	0.01	0.02	µg/dry g	0.158		190	0.010 - 0.357	PASS	10	30	PASS	
Nickel (Ni)	NA	18.3	0.025	0.05	µg/dry g	16.7		110	12.4 - 21.1	PASS	2	30	PASS	
Zinc (Zn)	NA	75.9	0.025	0.05	µg/dry g	63.5		120	50.3 - 76.6	PASS	0	30	PASS	

**SUB-CONTRACT LAB
REPORT**

Project ID: KIN006
Client: CRG Laboratories
Analysis: Grain Size
Matrix: Sediment
Delivered: March 6, 2008



Sample ID	Lab Rep.	phi Size																											
		<-1	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	>12	
		Microns																											
		>2000	1410	1000	710	500	354	250	177	125	88.4	62.5	44.2	31.3	22.1	15.6	11.1	7.8	5.5	3.9	2.8	1.95	1.38	0.98	0.69	0.49	0.35	<0.24	
	coarse sand	coarse sand	med sand	med sand	med sand	med sand	fine sand	very fine sand	very fine sand	very fine sand	very fine sand	very fine sand	course silt	course silt	course silt	silt	fine silt	very fine silt	very fine silt	clay	clay	clay	clay	clay	clay	clay	clay		
LB-MVP-COMP-E	1	0.00	0.00	0.00	0.00	0.00	0.00	0.17	1.59	4.20	7.15	8.81	9.77	10.28	10.02	8.97	8.16	6.75	5.53	4.14	3.85	2.76	1.79	1.93	2.08	1.50	0.54	0.00	
LB-MVP-COMP-E	2	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.96	4.76	7.67	9.26	10.11	10.39	9.91	8.75	7.82	6.37	5.17	3.87	3.61	2.60	1.69	1.81	1.98	1.43	0.52	0.00	
LB-MVP-COMP-F	1	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.70	4.27	7.12	8.74	9.81	10.43	10.21	9.16	8.26	6.73	5.42	4.01	3.71	2.66	1.73	1.84	1.98	1.42	0.51	0.00	

Project ID: KIN006
Client: CRG Laboratories
Analysis: Grain Size
Matrix: Sediment
Delivered: March 6, 2008



Sample ID	Lab Rep.	Sample Date	Analysis Date	Summary (Percent)					Percentile (microns)					Percentile (phi)					Microns			phi			Dispersion or Sorting Index	Distribution (phi)	
				Gravel*	Sand	Silt	Clay	Silt-Clay	5%	16%	50%	84%	95%	5%	16%	50%	84%	95%	Mean	Median	Mode	Mean	Median	Mode		Skewness	Kurtosis
LB-MVP-COMP-E	1	30-Jan-08	20-Feb-08	0.00	21.92	63.63	14.46	78.08	0.81	3.17	16.72	55.78	95.66	10.29	8.31	5.91	4.16	3.38	28.24	16.72	26.19	5.15	5.91	5.26	2.07	-0.37	-2.66
LB-MVP-COMP-E	2	30-Jan-08	20-Feb-08	0.00	23.98	62.38	13.64	76.02	0.85	3.43	18.20	59.59	102.67	10.22	8.20	5.78	4.07	3.28	30.37	18.20	26.39	5.04	5.78	5.25	2.07	-0.36	-2.68
LB-MVP-COMP-F	1	30-Jan-08	20-Feb-08	0.00	22.14	64.01	13.84	77.86	0.85	3.35	17.04	56.39	98.08	10.22	8.23	5.88	4.15	3.35	28.82	17.04	26.13	5.12	5.88	5.26	2.04	-0.37	-2.68

*Percentage of the sample retained on a 2 mm sieve.

CHAIN-OF-CUSTODY



Marine Laboratories, Inc.

SAMPLE RECEIVING

CRG Project ID

KIN005

CLIENT NAME Kinnetic Labs

DATE RECEIVED 1/30/08

COURIER INFORMATION

<input type="checkbox"/> CRG	<input type="checkbox"/> FEDEX	TRACKING NUMBER
<input checked="" type="checkbox"/> OTHER*	<input type="checkbox"/> UPS	

TEMPERATURE

NO ICE

Chain-of-Custody

INCLUDED

SIGNED

NOT INCLUDED

SAMPLE MATRIX

LIQUID

SOLID

OTHER*

CONDITION OF SAMPLES UPON ARRIVAL

	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*NOTES

COMPLETED BY: