



Analytical Report

Mark Sullivan Spill Control Products 1872 Del Rio Way Paradise, CA 95969	Client Project ID: Moleculoc	Date Sampled: 12/12/11
		Date Received: 12/12/11
	Client Contact: Mark Sullivan	Date Reported: 12/19/11
	Client P.O.:	Date Completed: 12/22/11

WorkOrder: 1112349 A

December 29, 2011

Dear Mark:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **Moleculoc**,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1112349 A ClientCode: MSSCP

- WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Mark Sullivan
 Mark Sullivan Spill Control Products
 1872 Del Rio Way
 Paradise, CA 95969
 530-680-7938 FAX:

Email:
 cc:
 PO:
 ProjectNo: Moleculoc

Bill to:

Mark Sullivan
 Mark Sullivan Spill Control Products
 1872 Del Rio Way
 Paradise, CA 95969

Requested TAT: 5 days

Date Received: 12/12/2011
Date Add-On: 12/20/2011
Date Printed: 12/20/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1112349-001	Saturated Moleculoc	Solid	12/12/2011 11:30	<input type="checkbox"/>	A	A											

Test Legend:

1	8082A_PCB_Solid	2	CAM17MS_Solid	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments: PCBs and CAM 17 added 12/20/11 5 day per email

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Mark Sullivan Spill Control Products 1872 Del Rio Way Paradise, CA 95969	Client Project ID: Moleculoc	Date Sampled: 12/12/11
		Date Received: 12/12/11
	Client Contact: Mark Sullivan	Date Extracted: 12/20/11
	Client P.O.:	Date Analyzed: 12/21/11

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B

Analytical Method: SW8082

Work Order: 1112349

Lab ID	1112349-001A				Reporting Limit for DF =1	
Client ID	Saturated Moleculoc					
Matrix	S					
DF	1					
					S	W
Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND<0.50				0.05	NA
Aroclor1221	ND<0.50				0.05	NA
Aroclor1232	ND<0.50				0.05	NA
Aroclor1242	ND<0.50				0.05	NA
Aroclor1248	ND<0.50				0.05	NA
Aroclor1254	ND<0.50				0.05	NA
Aroclor1260	ND<0.50				0.05	NA
PCBs, total	ND<0.50				0.05	NA

Surrogate Recoveries (%)

%SS:	98				
Comments	a14				

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

a14) reporting limit raised due to the physical nature of the sample



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		Date Received 12/12/11
	Client Contact: Mark Sullivan	Date Extracted 12/20/11
	Client P.O.:	Date Analyzed 12/21/11

CAM / CCR 17 Metals*

Lab ID	1112349-001A				Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	Saturated Moleculoc					
Matrix	S				S	W
Extraction Type	TOTAL				mg/Kg	mg/L

ICP Metals, Concentration*

Analytical Method: SW6020

Extraction Method: SW3050B

Work Order: 1112349

Dilution Factor	1				1	1
Antimony	ND				0.5	NA
Arsenic	ND				0.5	NA
Barium	180				5.0	NA
Beryllium	ND				0.5	NA
Cadmium	ND				0.25	NA
Chromium	0.82				0.5	NA
Cobalt	ND				0.5	NA
Copper	1.8				0.5	NA
Lead	8.4				0.5	NA
Mercury	ND				0.05	NA
Molybdenum	17				0.5	NA
Nickel	ND				0.5	NA
Selenium	ND				0.5	NA
Silver	ND				0.5	NA
Thallium	ND				0.5	NA
Vanadium	2.1				0.5	NA
Zinc	42				5.0	NA
%SS:	108					

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.
 %SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor



QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 63542

WorkOrder: 1112349

EPA Method: SW8082		Extraction: SW3550B					Spiked Sample ID: 1112555-005A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Aroclor1260	ND<0.25	0.15	106	103	2.61	94.9	70 - 130	20	70 - 130	
%SS:	110	0.050	115	114	1.23	74	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 63542 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112349-001A	12/12/11 11:30 AM	12/20/11	12/21/11 3:31 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 63552

WorkOrder: 1112349

Analyte	EPA Method: SW6020		Extraction: SW3050B				Spiked Sample ID: 1112571-001A		
	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Antimony	ND	50	96.8	105	8.11	92.8	75 - 125	20	75 - 125
Arsenic	4.5	50	108	117	7.42	110	75 - 125	20	75 - 125
Barium	100	500	109	119	7.94	103	75 - 125	20	75 - 125
Beryllium	ND	50	99.1	106	6.63	101	75 - 125	20	75 - 125
Cadmium	ND	50	106	114	7.70	101	75 - 125	20	75 - 125
Chromium	36	50	93.8	105	6.35	104	75 - 125	20	75 - 125
Cobalt	12	50	103	111	5.84	97.6	75 - 125	20	75 - 125
Copper	39	50	101	112	6.09	108	75 - 125	20	75 - 125
Lead	8.1	50	100	116	12.4	97.3	75 - 125	20	75 - 125
Mercury	0.39	1.25	108	121	9.13	106	75 - 125	20	75 - 125
Molybdenum	ND	50	103	112	8.20	97.5	75 - 125	20	75 - 125
Nickel	31	50	102	113	6.76	106	75 - 125	20	75 - 125
Selenium	ND	50	106	114	6.70	97.2	75 - 125	20	75 - 125
Silver	ND	50	101	110	7.85	95.4	75 - 125	20	75 - 125
Thallium	ND	50	107	116	8.39	104	75 - 125	20	75 - 125
Vanadium	70	50	NR	NR	NR	107	75 - 125	20	75 - 125
Zinc	50	500	104	113	7.36	109	75 - 125	20	75 - 125
%SS:	107	500	107	114	6.58	109	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 63552 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112349-001A	12/12/11 11:30 AM	12/20/11	12/21/11 6:35 PM	1112349-001A	12/12/11 11:30 AM	12/20/11	12/21/11 11:22 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not applicable to this method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.