

McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

Mark Sullivan Spill Control Products	Client Project ID: Moleculoc	Date Sampled: 12/12/1	11
1872 Del Rio Way		Date Received: 12/12/2	11
10/2 Der lite way	Client Contact: Mark Sullivan	Date Reported: 12/19/1	11
Paradise, CA 95969	Client P.O.:	Date Completed: 12/22/1	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 McComphell Applytical Laboratories for your applytical packs

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

Report To: Marl	ebsite: <u>www.mc</u> elephone: (877	BELL 1534 WI PITTSBU ccampbe 7) 252-92	ANA LLOW PA JRG, CA 9 ILcom Er 262	LY ASS RO 4565-1 nail: n	FIC AD 701 nain@ Fax	AL	2, I amp 25) 2	Dell	ЭН .com .9269	9				T G	'UR Geo'	RN Fra	AR	C Ol	CH JNI EDI			OH E PE Ch	F C DF eck		ST SH Ex	OI 24 ccel le is	HR effl	RI V uent		CO IR te (d "J	RD 72 72 72 71 72 72 72 72 72 72 72 72 72 72 72 72 72	HR DV g is	5 DAY
Company: Mark	Sullivan Sni	Il Contr	ol Produ	ete									-	-					P	inal	7515	Re	ques	51					+		ther	+	comments
1872	Del Pio Way	n contr	orriouu	cts									-						-	-	Y	2											Filter
Para	dise CA 959	59		F-Ma	il· ieł	m	leon	nca	st ne	t			-						LED	7	7 4												Samples
Tele: (530) 68	0.7038	,,	1	Fov: /)	scon	irca	st+me				-	50					TAC	9	9	-											for Metals
Project #:	0-7958			Projec	t No.	1	Mol	0.011	loc				-	A60		H			NTR	2	0												analysis:
Project #.				Tojet	t Ivai	me.	IVIOI	ecu	100				-	I/EP		EIC			8	2	10												Yes / No
Project Location:								-	1311	826	Y W			UB		2	2																
Sampler Signatur	re:			-		-		_			MET	TUO	D.	by	VdS	DR			30 (S	1	0												
		SAM	PLING	~	lers	L	MA	TR	IX	PI	RES	ERV	ED	Metals	s by F	260 in			A 103		E												
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Container	Type Contair	Water	Soil	Air	Sludge	ICE	HCL	HNO ₃	Other	TCLP RCRA 8 N	ZHETCLP VOC	BTEX by EPA 85	% moisture	RCI	Flashpoint by EP	PCB	CAMIT									i.			
Saturated		12/12	11:30	2	gl				>					\checkmark	1	V	V	1	1	3	6			-					+			+	
Moleculoc		/2011	am											~	N	7	~	X	~	0	X)				<u> </u>							·
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Kelinquished By:		Date:	Time:	Rece	wed B	y:		r						DE	CHL	ORI	NATE	CO	IN L.	AB_INEF	ts	_	_	vo	a	re	in li	an	114	ge	Kern	ipu	a der
Relinquished By:		Date:	Time:	Rece	ived By	y:					-			PR	ESEI	RVE	DIN	VO	DAS	08	G	ME	TAL	s	р <i>о</i> отн	IER	ha	e h	ac	ddi	tion	nat	

McCampbell Analytical, Inc 1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262	•	CHAIN-OF-CUSTODY RECO WorkOrder: 1112349 A ClientCode:	Page 1 of 1 MSSCP
	WaterTrax WriteOn	_EDF Excel Fax Email Hard	Copy ThirdParty J-flag
Report to:		Bill to:	Requested TAT: 5 days
Mark Sullivan Mark Sullivan Spill Control Products 1872 Del Rio Way Paradise, CA 95969 530-680-7938 FAX:	Email: cc: PO: ProjectNo: Moleculoc	Mark Sullivan Mark Sullivan Spill Control Products 1872 Del Rio Way Paradise, CA 95969	Date Received: 12/12/2011 Date Add-On: 12/20/2011 Date Printed: 12/20/2011
		Requested Tests (See lec	jend below)

Lab ID	Client ID	Matrix	Collection Date Ho	d 1	2	3	4	5	6	7	8	9	10	11	12
1112349-001	Saturated Moleculoc	Solid	12/12/2011 11:30] A	А										

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.

	Analy Analy Coun	rtical, ts''	lnc.		1534 Willow F Toll Free Telephon http://www.mccamp	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: obell.com / E-mail: main@	94565-1701 (925) 252-9269 mccampbell.com	n	
Mark Sullivan Spill Control Produc	cts (Client Pro	ject ID: N	Aolec	uloc	Date Sampled:	12/12/11		
1872 Del Rio Way						Date Received:	12/12/11		
1072 Der No Way	(Client Co	ntact: Mar	k Sull	ivan	Date Extracted:	12/20/11		
Paradise, CA 95969	(Client P.C).:			Date Analyzed:	12/21/11		
Pol	ychlorin	ated Bipl	henyls (PC	(Bs) A	Aroclors by GC	-ECD*			
Extraction Method: SW3550B	111024	Analy	ytical Method: S	SW8082			Work Order:	1112349	
	Saturated N	Moleculoc							
Client ID								Limit for =1	
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	
		Surrog	gate Recov	veries	(%)	1			
% SS:	9	8							
Comments	a1	4							
* water samples in µg/L, soil/sludge/solid sa and all TCLP & SPLP extracts are reported i	imples in m in mg/L.	ng/kg, wipe s	samples in µg	/wipe,	filter samples in µg/	filter, product/oil/non	-aqueous liqui	d samples	
ND means not detected above the reporting Surrogate Standard; DF = Dilution Factor	limit/metho	od detection	limit; N/A m	neans a	nalyte not applicable	e to this analysis; %S	S = Percent Re	covery of	
# surrogate diluted out of range or surrogate	coelutes w	ith another J	peak.						
4) reporting limit raised due to the physical nature of the sample									

	Anal Iity Cou	ytical unts''	<u>, Inc.</u>		1534 Willow Toll Free Telepho http://www.mccam	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-1701 (925) 252-9269 ⊉mccampbell.co) om
Mark Sullivan Spill Control Produc	ets	Client Pr	oject ID:	Molec	uloc	Date Sampled:	12/12/11	
1972 D. I.D W.						Date Received	12/12/11	
1872 Del Rio Way		Client Co	ontact: M	ark Sul	livan	Date Extracted	12/20/11	
Paradise, CA 95969		Client P.	D.:			Date Analyzed	12/21/11	
		С	AM / CCF	R 17 Me	tals*	1		
Lab ID	11123	49-001A					Reporting Lir	nit for $DF = 1$
Client ID	Sat Mo	urated leculoc					ND means i above the re	not detected eporting limit
Matrix		S					S	W
Extraction Type	TC	DTAL					mg/Kg	mg/L
		ICF	Metals, C	oncent	ration*		<u></u>	
Analytical Method: SW6020		Ext	raction Metho	d: SW305	0B		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	().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						
					•		<u>.</u>	
Comments								
*water samples are reported in µg/L, produc soil/sludge/solid samples in mg/kg, wipe sar # means surrogate diluted out of range; ND = or instrument	t/oil/non- nples in µ means no	-aqueous liq ug/wipe, filt ot detected al	uid samples er samples ir pove the rep	and all T h µg/filte porting lin	CLP / STLC / DIST r. nit/method detection	LC / SPLP extracts are limit; N/A means not	reported in n applicable to	ng/L, this sample
		1 1 .						

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 μ m 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:	QC Matrix: Soil					WorkOrder: 1112349			
EPA Method: SW8082	EPA Method: SW8082 Extraction: SW3550B					Ş	Spiked Sam	ple ID:	1112555-005A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	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 NONE	this extraction batch were ND	less than th	e method	RL with th	ne following	g exception	IS:			

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.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + 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.

DHS ELAP Certification 1644

K__QA/QC Officer



QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Solid	QC Matrix:	Soil			BatchID	: 63552		WorkC	order: 1112349
EPA Method: SW6020 Extraction	: SW3050B					;	Spiked Sam	ple ID:	1112571-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	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 extractio NONE	n batch were ND	less than th	e method	RL with t	he following	g exceptior	18:		

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.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + 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.

DHS ELAP Certification 1644

✓ _QA/QC Officer