McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www mccampbell com / E-mail: main@mccampbell com

Analytical Report

Brunsing Associates, Inc. 5468 Skylane Blvd, Ste 201 Santa Rosa, CA 95403	Client Project ID: #12294.01; Westside Park Boat Launch	Date Sampled: 08/16/12
		Date Received: 08/17/12
	Client Contact: Marilyn Wedel	Date Reported: 08/27/12
	Client P.O.:	Date Completed: 08/27/12

WorkOrder: 1208465

August 28, 2012

Dear Marilyn:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#12294.01; Westside Park Boat Launch,**
2) QC data for the above samples, 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 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.

Brunsing Associates, Inc. Chain-of Custody Form

1208465

Project #	Project Address	# of Containers	Analysis	C.O.C. No. 15056
~~12294.01~~ ~~DSEA.ES~~	Westside Park Boat Launch			
Phase: 1	Sampler's Signature			Remarks:

Date Sampled	Sample I.D.	Time (24 Hour)	Matrix	# of Containers	TPH-diesel/motor oil	8081 (Och Pest)	8141 (Org Phos)	8151 (Org Herb)	8270 (Semi Vol)	8081 (PCBs)	CAM 17 Metals	Butylins	Remarks
8-16-12	WPB-1A-D	0952	Soil	4 brass sleeves	X	X	X	X	X	X	X	X	
	WPB-2 A-D	1018											HOLD
	WPB-3 A-D	1029			X	X	X	X	X	X	X	X	
	WPB-4 A-D	1039											HOLD
	WPB-5 A-D	1045											HOLD

ICE in: 5.9c
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ___ CONTAINERS ✓
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION

Laboratory: McCampbell

Preservation: A - HCL; B - HNO3; C - Ice (Specify) TAT: R; 2-WK; Urgent; Immediate (Specify)

Relinquished by: (signed)	Date/Time 8/16/12 1230	Received by: (signed)	Results to (office Use Only):
Relinquished by: (signed)	Date/Time 8/16/12 1630	Received by: (signed)	
Relinquished by: (signed)	Date/Time 8/17/12 1550	Received for Laboratory by: (signed)	

5468 Skylane Blvd., Suite 201
Santa Rosa, CA 95403
Phone: 707-838-3027
Fax: 707-838-4420
Email: mwedel@brunsing.com

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1208465 **ClientCode: BAIW**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Maria Wedel
Brunsing Associates, Inc.
5468 Skylane Blvd, Ste 201
Santa Rosa, CA 95403
(707) 838-3027 FAX: (707) 838-4420

Email: mwedel@brunsing.com
cc:
PO:
ProjectNo: #12294.01; Westside Park Boat Launch

Bill to:
Accounts Payable
Brunsing Associates, Inc.
5468 Skylane Blvd
Santa Rosa, CA 95403

Requested TAT: 5 days

Date Received: **08/17/2012**
Date Printed: **08/17/2012**

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
1208465-001	WPB-1A-D	Soil	8/16/2012 9:52	☐	A	A	A	A	A	A	A					
1208465-003	WPB-3A-D	Soil	8/16/2012 10:29	☐	A	A	A	A	A	A	A					

Test Legend:

1	8081PCB_S	2	8141BMS_S	3	8151A_S	4	8270D_S	5	CAM17MS_S
6	TPH(DMO)_S	7	TRIBUTYLTIN_S	8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

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.

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Sample Receipt Checklist

Client Name: **Brunsing Associates, Inc.** Date and Time Received: **8/17/2012 3:44:19 PM**

Project Name: **#12294.01; Westside Park Boat Launch** LogIn Reviewed by: Melissa Valles

WorkOrder N°: **1208465** Matrix: Soil Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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Brunsing Associates, Inc.	Client Project ID: #12294.01; Westside Park Boat Launch	Date Sampled: 08/16/12
5468 Skylane Blvd, Ste 201		Date Received: 08/17/12
	Client Contact: Marilyn Wedel	Date Extracted: 08/17/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 08/17/12-08/18/12

Organochlorine Pesticides (8080 Basic Target List) + PCBs

Extraction Method: SW3550B | Analytical Method: SW8081A/8082 | Work Order: 1208465

Lab ID	1208465-001A	1208465-003A			Reporting Limit for DF =1	
Client ID	WPB-1A-D	WPB-3A-D				
Matrix	S	S			S	W
DF	5	5				
Compound	**Concentration**				mg/kg	µg/L
Aldrin	ND<0.0050	ND<0.0050			0.001	NA
a-BHC	ND<0.0050	ND<0.0050			0.001	NA
b-BHC	ND<0.0050	ND<0.0050			0.001	NA
d-BHC	ND<0.0050	ND<0.0050			0.001	NA
g-BHC	ND<0.0050	ND<0.0050			0.001	NA
Chlordane (Technical)	ND<0.12	ND<0.12			0.025	NA
a-Chlordane	ND<0.0050	ND<0.0050			0.001	NA
g-Chlordane	ND<0.0050	ND<0.0050			0.001	NA
p,p-DDD	ND<0.0050	ND<0.0050			0.001	NA
p,p-DDE	ND<0.0050	ND<0.0050			0.001	NA
p,p-DDT	ND<0.0050	ND<0.0050			0.001	NA
Dieldrin	ND<0.0050	ND<0.0050			0.001	NA
Endosulfan I	ND<0.0050	ND<0.0050			0.001	NA
Endosulfan II	ND<0.0050	ND<0.0050			0.001	NA
Endosulfan sulfate	ND<0.0050	ND<0.0050			0.001	NA
Endrin	ND<0.0050	ND<0.0050			0.001	NA
Endrin aldehyde	ND<0.0050	ND<0.0050			0.001	NA
Endrin ketone	ND<0.0050	ND<0.0050			0.001	NA
Heptachlor	ND<0.0050	ND<0.0050			0.001	NA
Heptachlor epoxide	ND<0.0050	ND<0.0050			0.001	NA
Hexachlorobenzene	ND<0.050	ND<0.050			0.01	NA
Hexachlorocyclopentadiene	ND<0.10	ND<0.10			0.02	NA
Methoxychlor	ND<0.0050	ND<0.0050			0.001	NA
Toxaphene	ND<0.25	ND<0.25			0.05	NA
Aroclor1016	ND<0.25	ND<0.25			0.05	NA
Aroclor1221	ND<0.25	ND<0.25			0.05	NA
Aroclor1232	ND<0.25	ND<0.25			0.05	NA
Aroclor1242	ND<0.25	ND<0.25			0.05	NA
Aroclor1248	ND<0.25	ND<0.25			0.05	NA
Aroclor1254	ND<0.25	ND<0.25			0.05	NA
Aroclor1260	ND<0.25	ND<0.25			0.05	NA
PCBs, total	ND<0.25	ND<0.25			0.05	NA
Surrogate Recoveries (%)						
%SS:	82	84				
Comments	a3	a3				

* soil/sludge/solid samples in mg/kg.

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

a3) sample diluted due to high organic content.

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		Date Received: 08/17/12
5468 Skylane Blvd, Ste 201	Client Contact: Marilyn Wedel	Date Extracted: 08/20/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 08/25/12

Organophosphorous Pesticides by GC-MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8141Am | Work Order: 1208465

Lab ID	1208465-001A	1208465-003A			Reporting Limit for DF =1	
Client ID	WPB-1A-D	WPB-3A-D				
Matrix	S	S			S	W
DF	20	50				
Compound	**Concentration**				mg/kg	µg/L
Alachlor	ND<2.0	ND<5.0			0.1	NA
Atrazine	ND<2.0	ND<5.0			0.1	NA
Azinphos methyl (Guthion)	ND<5.0	ND<10			0.1	NA
Bolstar (Sulprofos)	ND<2.0	ND<5.0			0.1	NA
Chloropyrifos	ND<2.0	ND<5.0			0.1	NA
Coumaphos	ND<2.0	ND<5.0			0.1	NA
Demeton	ND<2.0	ND<5.0			0.1	NA
Diazinon	ND<2.0	ND<5.0			0.1	NA
Dichlorvos (DDVP)	ND<2.0	ND<5.0			0.1	NA
Dimethoate	ND<2.0	ND<5.0			0.1	NA
Disulfoton (Di-Syston)	ND<2.0	ND<5.0			0.1	NA
EPN	ND<2.0	ND<5.0			0.1	NA
EPTC	ND<2.0	ND<5.0			0.1	NA
Ethion	ND<2.0	ND<5.0			0.1	NA
Ethoprop	ND<2.0	ND<5.0			0.1	NA
Ethyl parathion	ND<2.0	ND<5.0			0.1	NA
Fensulfothion	ND<2.0	ND<5.0			0.1	NA
Fenthion	ND<2.0	ND<5.0			0.1	NA
Fonofos	ND<2.0	ND<5.0			0.1	NA
Malathion	ND<2.0	ND<5.0			0.1	NA
Mevinphos (Phosdrin)	ND<2.0	ND<5.0			0.1	NA
Molinate	ND<2.0	ND<5.0			0.1	NA
Methyl parathion	ND<2.0	ND<5.0			0.1	NA
Phorate (Thimet)	ND<2.0	ND<5.0			0.1	NA
Prometon	ND<2.0	ND<5.0			0.1	NA
Ronnel	ND<2.0	ND<5.0			0.1	NA
Simazine	ND<2.0	ND<5.0			0.1	NA
Stirofos (Tetrachlorvinphos)	ND<2.0	ND<5.0			0.1	NA
Terbacil	ND<2.0	ND<5.0			0.1	NA
Terbufos (Terbuphos)	ND<2.0	ND<5.0			0.1	NA
Thiobencarb	ND<2.0	ND<5.0			0.1	NA
Tokuthion (Prothiofos)	ND<2.0	ND<5.0			0.1	NA
Trichloronate (Agritox)	ND<2.0	ND<5.0			0.1	NA
Surrogate Recoveries (%)						
%SS:	117	83				
Comments	a3	a3				

* soil/sludge/solid/powder samples in mg/kg.

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

a3) sample diluted due to high organic content.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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		Date Received: 08/17/12
5468 Skylane Blvd, Ste 201	Client Contact: Marilyn Wedel	Date Extracted: 08/20/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 08/22/12

Chlorinated Herbicides by GC-ECD (Basic Target List)*

Extraction Method: SW8151A | Analytical Method: SW8151A | Work Order: 1208465

Lab ID	1208465-001A	1208465-003A			Reporting Limit for DF =1	
Client ID	WPB-1A-D	WPB-3A-D				
Matrix	S	S			S	W
DF	20	50				
Compound	**Concentration**				mg/kg	µg/L
Acifluorfen	ND<1.0	ND<2.5			0.05	NA
Bentazon	ND<1.0	ND<2.5			0.05	NA
Chloramben	ND<1.0	ND<2.5			0.05	NA
2,4-D (Dichlorophenoxyacetic acid)	ND<1.0	ND<2.5			0.05	NA
2,4-DB	ND<1.0	ND<2.5			0.05	NA
Dalapon	ND<1.0	ND<2.5			0.05	NA
DCPA (mono & diacid)	ND<1.0	ND<2.5			0.05	NA
Dicamba	ND<1.0	ND<2.5			0.05	NA
3,5-Dichlorobenzoic Acid	ND<1.0	ND<2.5			0.05	NA
Dichloroprop	ND<1.0	ND<2.5			0.05	NA
Dinoseb (DNBP)	ND<1.0	ND<2.5			0.05	NA
MCPA	ND<100	ND<250			5.0	NA
MCPP	ND<100	ND<250			5.0	NA
4-Nitrophenol	ND<1.0	ND<2.5			0.05	NA
Pentachlorophenol (PCP)	ND<1.0	ND<2.5			0.05	NA
Picloram	ND<1.0	ND<2.5			0.05	NA
2,4,5-T (Trichlorophenoxy acetic acid)	ND<1.0	ND<2.5			0.05	NA
2,4,5-TP (Silvex)	ND<1.0	ND<2.5			0.05	NA
Surrogate Recoveries (%)						
%SS:	---#	---#				
Comments	a3	a3				

* water samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples 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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

a3) sample diluted due to high organic content.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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		Date Received: 08/17/12
5468 Skylane Blvd, Ste 201	Client Contact: Marilyn Wedel	Date Extracted: 08/20/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 08/21/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1208465

Lab ID	1208465-001A
Client ID	WPB-1A-D
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.2	5.0	0.25	Acenaphthylene	ND<1.2	5.0	0.25
Acetochlor	ND<1.2	5.0	0.25	Anthracene	ND<1.2	5.0	0.25
Benzidine	ND<6.5	5.0	1.3	Benzoic Acid	ND<12	5.0	2.5
Benzo (a) anthracene	ND<1.2	5.0	0.25	Benzo (b) fluoranthene	ND<1.2	5.0	0.25
Benzo (k) fluoranthene	ND<1.2	5.0	0.25	Benzo (g,h,i) perylene	ND<1.2	5.0	0.25
Benzo (a) pyrene	ND<1.2	5.0	0.25	Benzyl Alcohol	ND<6.5	5.0	1.3
1,1-Biphenyl	ND<1.2	5.0	0.25	Bis (2-chloroethoxy) Methane	ND<1.2	5.0	0.25
Bis (2-chloroethyl) Ether	ND<1.2	5.0	0.25	Bis (2-chloroisopropyl) Ether	ND<1.2	5.0	0.25
Bis (2-ethylhexyl) Phthalate	ND<1.2	5.0	0.25	4-Bromophenyl Phenyl Ether	ND<1.2	5.0	0.25
Butylbenzyl Phthalate	ND<1.2	5.0	0.25	4-Chloroaniline	ND<1.2	5.0	0.25
4-Chloro-3-methylphenol	ND<1.2	5.0	0.25	2-Chloronaphthalene	ND<1.2	5.0	0.25
2-Chlorophenol	ND<1.2	5.0	0.25	4-Chlorophenyl Phenyl Ether	ND<1.2	5.0	0.25
Chrysene	ND<1.2	5.0	0.25	Dibenzo (a,h) anthracene	ND<1.2	5.0	0.25
Dibenzofuran	ND<1.2	5.0	0.25	Di-n-butyl Phthalate	ND<1.2	5.0	0.25
1,2-Dichlorobenzene	ND<1.2	5.0	0.25	1,3-Dichlorobenzene	ND<1.2	5.0	0.25
1,4-Dichlorobenzene	ND<1.2	5.0	0.25	3,3-Dichlorobenzidine	ND<2.5	5.0	0.5
2,4-Dichlorophenol	ND<1.2	5.0	0.25	Diethyl Phthalate	ND<1.2	5.0	0.25
2,4-Dimethylphenol	ND<1.2	5.0	0.25	Dimethyl Phthalate	ND<1.2	5.0	0.25
4,6-Dinitro-2-methylphenol	ND<6.5	5.0	1.3	2,4-Dinitrophenol	ND<32	5.0	6.3
2,4-Dinitrotoluene	ND<1.2	5.0	0.25	2,6-Dinitrotoluene	ND<1.2	5.0	0.25
Di-n-octyl Phthalate	ND<1.2	5.0	0.25	1,2-Diphenylhydrazine	ND<1.2	5.0	0.25
Fluoranthene	ND<1.2	5.0	0.25	Fluorene	ND<1.2	5.0	0.25
Hexachlorobenzene	ND<1.2	5.0	0.25	Hexachlorobutadiene	ND<1.2	5.0	0.25
Hexachlorocyclopentadiene	ND<6.5	5.0	1.3	Hexachloroethane	ND<1.2	5.0	0.25
Indeno (1,2,3-cd) pyrene	ND<1.2	5.0	0.25	Isophorone	ND<1.2	5.0	0.25
2-Methylnaphthalene	ND<1.2	5.0	0.25	2-Methylphenol (o-Cresol)	ND<1.2	5.0	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.2	5.0	0.25	Naphthalene	ND<1.2	5.0	0.25
2-Nitroaniline	ND<6.5	5.0	1.3	3-Nitroaniline	ND<6.5	5.0	1.3
4-Nitroaniline	ND<6.5	5.0	1.3	Nitrobenzene	ND<1.2	5.0	0.25
2-Nitrophenol	ND<6.5	5.0	1.3	4-Nitrophenol	ND<6.5	5.0	1.3
N-Nitrosodiphenylamine	ND<1.2	5.0	0.25	N-Nitrosodi-n-propylamine	ND<1.2	5.0	0.25
Pentachlorophenol	ND<6.5	5.0	1.3	Phenanthrene	ND<1.2	5.0	0.25
Phenol	ND<1.2	5.0	0.25	Pyrene	ND<1.2	5.0	0.25
1,2,4-Trichlorobenzene	ND<1.2	5.0	0.25	2,4,5-Trichlorophenol	ND<1.2	5.0	0.25
2,4,6-Trichlorophenol	ND<1.2	5.0	0.25				

Surrogate Recoveries (%)

%SS1:	73	%SS2:	70
%SS3:	62	%SS4:	60
%SS5:	43	%SS6:	75

Comments: a3

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

ND means not detected at or 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.

a3) sample diluted due to high organic content.

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5468 Skylane Blvd, Ste 201	Client Contact: Marilyn Wedel	Date Extracted: 08/20/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 08/21/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1208465

Lab ID	1208465-003A
Client ID	WPB-3A-D
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<5.0	20	0.25	Acenaphthylene	ND<5.0	20	0.25
Acetochlor	ND<5.0	20	0.25	Anthracene	ND<5.0	20	0.25
Benzidine	ND<26	20	1.3	Benzoic Acid	ND<50	20	2.5
Benzo (a) anthracene	ND<5.0	20	0.25	Benzo (b) fluoranthene	ND<5.0	20	0.25
Benzo (k) fluoranthene	ND<5.0	20	0.25	Benzo (g,h,i) perylene	ND<5.0	20	0.25
Benzo (a) pyrene	ND<5.0	20	0.25	Benzyl Alcohol	ND<26	20	1.3
1,1-Biphenyl	ND<5.0	20	0.25	Bis (2-chloroethoxy) Methane	ND<5.0	20	0.25
Bis (2-chloroethyl) Ether	ND<5.0	20	0.25	Bis (2-chloroisopropyl) Ether	ND<5.0	20	0.25
Bis (2-ethylhexyl) Phthalate	ND<5.0	20	0.25	4-Bromophenyl Phenyl Ether	ND<5.0	20	0.25
Butylbenzyl Phthalate	ND<5.0	20	0.25	4-Chloroaniline	ND<5.0	20	0.25
4-Chloro-3-methylphenol	ND<5.0	20	0.25	2-Chloronaphthalene	ND<5.0	20	0.25
2-Chlorophenol	ND<5.0	20	0.25	4-Chlorophenyl Phenyl Ether	ND<5.0	20	0.25
Chrysene	ND<5.0	20	0.25	Dibenzo (a,h) anthracene	ND<5.0	20	0.25
Dibenzofuran	ND<5.0	20	0.25	Di-n-butyl Phthalate	ND<5.0	20	0.25
1,2-Dichlorobenzene	ND<5.0	20	0.25	1,3-Dichlorobenzene	ND<5.0	20	0.25
1,4-Dichlorobenzene	ND<5.0	20	0.25	3,3-Dichlorobenzidine	ND<10	20	0.5
2,4-Dichlorophenol	ND<5.0	20	0.25	Diethyl Phthalate	ND<5.0	20	0.25
2,4-Dimethylphenol	ND<5.0	20	0.25	Dimethyl Phthalate	ND<5.0	20	0.25
4,6-Dinitro-2-methylphenol	ND<26	20	1.3	2,4-Dinitrophenol	ND<130	20	6.3
2,4-Dinitrotoluene	ND<5.0	20	0.25	2,6-Dinitrotoluene	ND<5.0	20	0.25
Di-n-octyl Phthalate	ND<5.0	20	0.25	1,2-Diphenylhydrazine	ND<5.0	20	0.25
Fluoranthene	ND<5.0	20	0.25	Fluorene	ND<5.0	20	0.25
Hexachlorobenzene	ND<5.0	20	0.25	Hexachlorobutadiene	ND<5.0	20	0.25
Hexachlorocyclopentadiene	ND<26	20	1.3	Hexachloroethane	ND<5.0	20	0.25
Indeno (1,2,3-cd) pyrene	ND<5.0	20	0.25	Isophorone	ND<5.0	20	0.25
2-Methylnaphthalene	ND<5.0	20	0.25	2-Methylphenol (o-Cresol)	ND<5.0	20	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND<5.0	20	0.25	Naphthalene	ND<5.0	20	0.25
2-Nitroaniline	ND<26	20	1.3	3-Nitroaniline	ND<26	20	1.3
4-Nitroaniline	ND<26	20	1.3	Nitrobenzene	ND<5.0	20	0.25
2-Nitrophenol	ND<26	20	1.3	4-Nitrophenol	ND<26	20	1.3
N-Nitrosodiphenylamine	ND<5.0	20	0.25	N-Nitrosodi-n-propylamine	ND<5.0	20	0.25
Pentachlorophenol	ND<26	20	1.3	Phenanthrene	ND<5.0	20	0.25
Phenol	ND<5.0	20	0.25	Pyrene	ND<5.0	20	0.25
1,2,4-Trichlorobenzene	ND<5.0	20	0.25	2,4,5-Trichlorophenol	ND<5.0	20	0.25
2,4,6-Trichlorophenol	ND<5.0	20	0.25				

Surrogate Recoveries (%)

%SS1:	67	%SS2:	62
%SS3:	58	%SS4:	61
%SS5:	---#	%SS6:	78

Comments: a3

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

ND means not detected at or 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.

a3) sample diluted due to high organic content.

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Brunsing Associates, Inc.	Client Project ID: #12294.01; Westside Park Boat Launch	Date Sampled: 08/16/12
		Date Received 08/17/12
5468 Skylane Blvd, Ste 201	Client Contact: Marilyn Wedel	Date Extracted 08/17/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed 08/22/12

CAM / CCR 17 Metals*

Lab ID	1208465-001A	1208465-003A			Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	WPB-1A-D	WPB-3A-D				
Matrix	S	S			S	W
Extraction Type	TOTAL	TOTAL			mg/Kg	mg/L

ICP Metals, Concentration*

Analytical Method: SW6020 Extraction Method: SW3050B Work Order: 1208465

Dilution Factor	1	1			1	1
Antimony	ND	ND			0.5	NA
Arsenic	2.1	3.1			0.5	NA
Barium	18	29			5.0	NA
Beryllium	ND	ND			0.5	NA
Cadmium	ND	0.44			0.25	NA
Chromium	27	37			0.5	NA
Cobalt	3.3	3.7			0.5	NA
Copper	7.4	11			0.5	NA
Lead	2.6	3.4			0.5	NA
Mercury	ND	0.082			0.05	NA
Molybdenum	ND	0.77			0.5	NA
Nickel	25	36			0.5	NA
Selenium	ND	ND			0.5	NA
Silver	ND	ND			0.5	NA
Thallium	ND	ND			0.5	NA
Vanadium	21	23			0.5	NA
Zinc	35	36			5.0	NA
%SS:	116	114				

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

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Angela Rydelius, Lab Manager

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Brunsing Associates, Inc.	Client Project ID: #12294.01; Westside Park Boat Launch	Date Sampled: 08/16/12
		Date Received: 08/17/12
5468 Skylane Blvd, Ste 201	Client Contact: Marilyn Wedel	Date Extracted: 08/17/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 08/20/12

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1208465

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1208465-001A	WPB-1A-D	S	1.7	12	1	101	e7,e2
1208465-003A	WPB-3A-D	S	2.6	9.2	1	104	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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Brunsing Associates, Inc. 5468 Skylane Blvd, Ste 201 Santa Rosa, CA 95403	Client Project ID: #12294.01; Westside Park Boat Launch	Date Sampled: 08/16/12
		Date Received: 08/17/12
	Client Contact: Marilyn Wedel	Date Extracted: 08/20/12
	Client P.O.:	Date Analyzed: 08/22/12

Tributyltin by GC-MS*

Extraction Method: SW3550B | Analytical Method: MAI-Organic Tin | Work Order: 1208465

Lab ID	1208465-001A	1208465-003A			Reporting Limit for DF =1	
Client ID	WPB-1A-D	WPB-3A-D				
Matrix	S	S				
DF	1	1			S	W
Compound	**Concentration**				mg/kg	ug/L
Dibutyltin	ND	ND			0.02	NA
Diphenyltin	ND	ND			0.02	NA
Monobutyltin	ND	ND			0.02	NA
Monophenyltin	ND	ND			0.02	NA
Tetrabutyltin	ND	ND			0.02	NA
Tributyltin	ND	ND			0.02	NA
Triphenyltin	ND	ND			0.02	NA
Total Butyltins	ND	ND			0.02	NA
Surrogate Recoveries (%)						
%SS:	92	69				
Comments						

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

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 69998 | WorkOrder: 1208465

EPA Method: SW8081A/8082 **Extraction: SW3550B** **Spiked Sample ID: 1208465-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aldrin	ND<0.005	0.050	NR	NR	NR	80.9	N/A	N/A	70 - 130
g-BHC	ND<0.005	0.050	NR	NR	NR	89.3	N/A	N/A	70 - 130
p,p-DDT	ND<0.005	0.050	NR	NR	NR	81.9	N/A	N/A	70 - 130
Dieldrin	ND<0.005	0.050	NR	NR	NR	89.8	N/A	N/A	70 - 130
Endrin	ND<0.005	0.050	NR	NR	NR	83.1	N/A	N/A	70 - 130
Heptachlor	ND<0.005	0.050	NR	NR	NR	84.3	N/A	N/A	70 - 130
%SS:	82	0.050	NR	NR	NR	82	N/A	N/A	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 69998 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/17/12	08/17/12 11:48 PM	1208465-003A	08/16/12 10:29 AM	08/17/12	08/18/12 12:25 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.

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QC SUMMARY REPORT FOR SW8141A

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 70011 | WorkOrder: 1208465

EPA Method: SW8141Am **Extraction: SW3550B** **Spiked Sample ID: 1208465-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Alachlor	ND<2	0.20	NR	NR	NR	85.4	N/A	N/A	20 - 140
Atrazine	ND<2	0.20	NR	NR	NR	68.1	N/A	N/A	20 - 140
Disulfoton (Di-Syston)	ND<2	0.20	NR	NR	NR	91.7	N/A	N/A	20 - 140
Fenthion	ND<2	0.20	NR	NR	NR	74.5	N/A	N/A	20 - 140
Methyl parathion	ND<2	0.20	NR	NR	NR	49.5	N/A	N/A	20 - 140
%SS:	117	1	NR	NR	NR	101	N/A	N/A	60 - 140

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

BATCH 70011 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/20/12	08/25/12 7:20 PM	1208465-003A	08/16/12 10:29 AM	08/20/12	08/25/12 7:45 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 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.

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QC SUMMARY REPORT FOR SW8151A

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 70012 | WorkOrder: 1208465

EPA Method: SW8151A **Extraction: SW8151A** **Spiked Sample ID: 1208465-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
2,4-D (Dichlorophenoxyacetic acid)	ND<1	0.10	NR	NR	NR	120	N/A	N/A	60 - 140
2,4-DB	ND<1	0.10	NR	NR	NR	108	N/A	N/A	60 - 140
Dalapon	ND<1	0.10	NR	NR	NR	126	N/A	N/A	60 - 140
Dicamba	ND<1	0.10	NR	NR	NR	119	N/A	N/A	60 - 140
2,4,5-TP (Silvex)	ND<1	0.10	NR	NR	NR	124	N/A	N/A	60 - 140
%SS:	---#	0.10	NR	NR	NR	97	N/A	N/A	60 - 140

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

BATCH 70012 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/20/12	08/22/12 11:41 AM	1208465-003A	08/16/12 10:29 AM	08/20/12	08/22/12 3:36 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 or 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.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 70030 | WorkOrder: 1208465

EPA Method: SW8270C **Extraction: SW3550B** **Spiked Sample ID: 1208465-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acenaphthene	ND<5	5	NR	NR	NR	111	N/A	N/A	30 - 130
4-Chloro-3-methylphenol	ND<5	5	NR	NR	NR	122	N/A	N/A	30 - 130
2-Chlorophenol	ND<5	5	NR	NR	NR	121	N/A	N/A	30 - 130
1,4-Dichlorobenzene	ND<5	5	NR	NR	NR	103	N/A	N/A	30 - 130
2,4-Dinitrotoluene	ND<5	5	NR	NR	NR	108	N/A	N/A	30 - 130
4-Nitrophenol	ND<26	5	NR	NR	NR	97	N/A	N/A	30 - 130
N-Nitrosodi-n-propylamine	ND<5	5	NR	NR	NR	106	N/A	N/A	30 - 130
Pentachlorophenol	ND<26	5	NR	NR	NR	107	N/A	N/A	30 - 130
Phenol	ND<5	5	NR	NR	NR	114	N/A	N/A	30 - 130
Pyrene	ND<5	5	NR	NR	NR	127	N/A	N/A	30 - 130
1,2,4-Trichlorobenzene	ND<5	5	NR	NR	NR	115	N/A	N/A	30 - 130
%SS1:	67	5	NR	NR	NR	69	N/A	N/A	30 - 130
%SS2:	62	5	NR	NR	NR	66	N/A	N/A	30 - 130
%SS3:	58	5	NR	NR	NR	65	N/A	N/A	30 - 130
%SS4:	61	5	NR	NR	NR	63	N/A	N/A	30 - 130
%SS5:	---#	5	NR	NR	NR	59	N/A	N/A	30 - 130
%SS6:	78	5	NR	NR	NR	71	N/A	N/A	30 - 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 70030 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/20/12	08/21/12 10:12 PM	1208465-003A	08/16/12 10:29 AM	08/20/12	08/21/12 9:46 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and / or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix, sample diluted due to high matrix or analyte content, or MS/MSD samples diluted due to high organic content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the me hod blank at low levels.

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QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 69968 | WorkOrder: 1208465

EPA Method: SW6020 **Extraction: SW3050B** **Spiked Sample ID: 1208424-012A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Antimony	ND	50	95.3	96.8	1.51	93.4	75 - 125	20	75 - 125
Arsenic	1.5	50	98.2	99.7	1.51	99.8	75 - 125	20	75 - 125
Barium	1400	500	109	109	0	96.6	75 - 125	20	75 - 125
Beryllium	ND	50	95.1	95.1	0	94.6	75 - 125	20	75 - 125
Cadmium	0.40	50	96.5	96.6	0.0616	95.9	75 - 125	20	75 - 125
Chromium	12	50	92.8	91.5	1.18	92.9	75 - 125	20	75 - 125
Cobalt	4.9	50	90.8	90.9	0.179	95.8	75 - 125	20	75 - 125
Copper	12	50	92.9	93	0.0853	98.7	75 - 125	20	75 - 125
Lead	3.0	50	97.1	96.7	0.331	95.1	75 - 125	20	75 - 125
Mercury	0.093	1.25	102	102	0	96.3	75 - 125	20	75 - 125
Molybdenum	ND	50	97.1	98.7	1.65	94.6	75 - 125	20	75 - 125
Nickel	20	50	98.2	98.7	0.417	91.2	75 - 125	20	75 - 125
Selenium	ND	50	97.6	99.4	1.83	97.9	75 - 125	20	75 - 125
Silver	ND	50	95.9	97.1	1.26	96.5	75 - 125	20	75 - 125
Thallium	ND	50	95.6	95.9	0.271	92.9	75 - 125	20	75 - 125
Vanadium	18	50	95.9	95.2	0.567	95	75 - 125	20	75 - 125
Zinc	36	500	94.8	95.3	0.567	98	75 - 125	20	75 - 125
%SS:	97	500	100	98	1.15	90	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 69968 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/17/12	08/22/12 2:50 AM	1208465-003A	08/16/12 10:29 AM	08/17/12	08/22/12 2:57 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 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

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
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http://www mccampbell com / E-mail: main@mccampbell com

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 69970 | WorkOrder: 1208465

EPA Method: SW8015B **Extraction: SW3550B** **Spiked Sample ID: 1208440-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	12	40	92.4	92.6	0.159	120	70 - 130	30	70 - 130
%SS:	98	25	92	92	0	117	70 - 130	30	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 69970 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/17/12	08/20/12 9:22 PM	1208465-003A	08/16/12 10:29 AM	08/17/12	08/20/12 8:16 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 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.

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QC SUMMARY REPORT FOR BUTYLTINS

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 70143 | WorkOrder: 1208465

EPA Method: MAI-Organic Tin **Extraction: SW3550B** **Spiked Sample ID: 1208465-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Dibutyltin	ND	3	103	102	0.989	102	70 - 130	20	70 - 130
Diphenyltin	ND	3	102	104	2.60	98	70 - 130	20	70 - 130
Monobutyltin	ND	3	96.2	89.1	7.75	93	70 - 130	20	70 - 130
Monophenyltin	ND	3	96.8	101	4.26	85	70 - 130	20	70 - 130
Tetrabutyltin	ND	3	92.2	93.5	1.44	105	70 - 130	20	70 - 130
Tributyltin	ND	3	97.6	99.2	1.64	101	70 - 130	20	70 - 130
Triphenyltin	ND	3	100	105	4.17	96.5	70 - 130	20	70 - 130
%SS:	92	1.5	91	95	3.84	90	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 70143 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208465-001A	08/16/12 9:52 AM	08/20/12	08/22/12 6:09 AM	1208465-003A	08/16/12 10:29 AM	08/20/12	08/22/12 10:01 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.

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Analytical Report

Brunsing Associates, Inc. 5468 Skylane Blvd, Ste 201 Santa Rosa, CA 95403	Client Project ID: #12294.01; Westside + DoranPuck, Bodega Bay	Date Sampled: 09/05/12
		Date Received: 09/06/12
	Client Contact: Marilyn Wedel	Date Reported: 09/10/12
	Client P.O.:	Date Completed: 09/10/12

WorkOrder: 1209115

September 10, 2012

Dear Marilyn:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#12294.01; Westside + DoranPuck, Bodega Bay,**
2) QC data for the above samples, 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 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.

1209115

Brunsing Associates, Inc. Chain-of Custody Form

RUSH

Project #	Project Address			# of Containers	Analysis			C.O.C. No. 15024
12294.01	Westside Doran Park, Bodega Bay, CA				Arsenic (As)	Vanadium (V)		
Phase: 001A	Sampler's Signature							Remarks:
Date Sampled	Sample I.D.	Time (24 Hour)	Matrix					
09-05-12	CW-1A+1B	1230p	Soil	2	X	X		72 hr TAT
09-05-12	BW-1A+1B	1300p	Soil	2	X	X		72 hr TAT

ICE/t° 2.1
GOOD CONDITION ___ APPROPRIATE
HEADSPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___

PRESERVATION	VOAS	O&G	METALS	OTHER

Laboratory: MCCampbell 9/6/12 1245

Preservation: A - HCL; B - HNO3; C - Ice (Specify) TAT: R; 2-WK; Urgent; Immediate (Specify) → 72hr

Relinquished by: (signed)	Date/Time 9/5/12 1421	Received by: (signed)	Results to (office Use Only):
Relinquished by: (signed)	Date/Time 9/6/12 1616	Received by: (signed)	
Relinquished by: (signed)	Date/Time	Received for Laboratory by: (signed)	

5468 Skylane Blvd., Suite 201
Santa Rosa, CA 95403
Phone: 707-838-3027
Fax: 707-838-4420
Email: mwedel@brunsing.com

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1209115 **ClientCode: BAIW**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Marilyn Wedel
Brunsing Associates, Inc.
5468 Skylane Blvd, Ste 201
Santa Rosa, CA 95403
(707) 838-3027 FAX: (707) 838-4420

Email: mwedel@brunsing.com
cc:
PO:
ProjectNo: #12294.01; Westside + DoranPuck, Bodega Bay

Bill to:
Accounts Payable
Brunsing Associates, Inc.
5468 Skylane Blvd
Santa Rosa, CA 95403

Requested TAT: 3 days

Date Received: **09/06/2012**
Date Printed: **09/06/2012**

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
1209115-001	Cyp-1A+1B	Soil	9/5/2012 12:30	☐	A											
1209115-002	BW-1A+1B	Soil	9/5/2012 13:00	☐	A											

Test Legend:

1	METALSMS_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments:

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.

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Sample Receipt Checklist

Client Name: **Brunsing Associates, Inc.** Date and Time Received: **9/6/2012 5:52:57 PM**

Project Name: **#12294.01; Westside + DoranPuck, Bodega Bay** LogIn Reviewed by: Zoraida Cortez

WorkOrder N°: **1209115** Matrix: Soil Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 2.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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Brunsing Associates, Inc.	Client Project ID: #12294.01; Westside + DoranPuck, Bodega Bay	Date Sampled: 09/05/12
5468 Skylane Blvd, Ste 201		Date Received: 09/06/12
	Client Contact: Marilyn Wedel	Date Extracted: 09/06/12
Santa Rosa, CA 95403	Client P.O.:	Date Analyzed: 09/07/12

Metals*

Extraction method: SW3050B Analytical methods: SW6020 Work Order: 1209115

Lab ID	Client ID	Matrix	Extraction Type	Arsenic	Vanadium	DF	% SS	Comments
001A	Cyp-1A+1B	S	TOTAL	4.2	42	1	110	
002A	BW-1A+1B	S	TOTAL	3.8	31	1	109	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA
	S	TOTAL	0.5	0.5	mg/kg

*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

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 70404 | WorkOrder: 1209115

EPA Method: SW6020 **Extraction: SW3050B** **Spiked Sample ID: 1209010-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Arsenic	5.5	50	107	107	0	104	75 - 125	20	75 - 125
Vanadium	18	50	103	109	3.88	94.3	75 - 125	20	75 - 125
%SS:	89	500	91	99	7.74	102	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 70404 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209115-001A	09/05/12 12:30 PM	09/06/12	09/07/12 4:37 PM	1209115-002A	09/05/12 1:00 PM	09/06/12	09/07/12 4:45 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 = matrix interference and/or 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.

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QA/QC Officer