



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

19 July 2012

Brand Burfield
PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland, CA 94601
RE: SES-Dublin

Enclosed are the results of analyses for samples received by the laboratory on 07/14/12 09:27. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Wendy Hsiao". The signature is written in a cursive, flowing style.

Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: SES-Dublin Project Number: 575-443 Project Manager: Brand Burfield	Reported: 07/19/12 12:57
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S. VAULT	T121212-01	Water	07/13/12 16:00	07/14/12 09:27

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: SES-Dublin
Project Number: 575-443
Project Manager: Brand Burfield

Reported:
07/19/12 12:57

**S. VAULT
T121212-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Antimony	ND	50	ug/l	1	2071604	07/16/12	07/16/12	EPA 6010B	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	460	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	07/16/12	"	
Cadmium	ND	50	"	"	"	"	07/16/12	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.50	ug/l	1	2071605	07/16/12	07/17/12	EPA 7470A Water	

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	200	ug/l	100	2071606	07/16/12	07/17/12	EPA 8082	R-01
PCB-1221	ND	200	"	"	"	"	"	"	R-01
PCB-1232	ND	200	"	"	"	"	"	"	R-01
PCB-1242	ND	200	"	"	"	"	"	"	R-01
PCB-1248	ND	200	"	"	"	"	"	"	R-01
PCB-1254	ND	200	"	"	"	"	"	"	R-01
PCB-1260	ND	200	"	"	"	"	"	"	R-01

Surrogate: Tetrachloro-meta-xylene 115 % 35-140 " " " "

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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S. VAULT
T121212-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

TRPH	2200	150	mg/l	25	2071607	07/16/12	07/19/12	EPA 418.1	
Total Solids	0.366		%	1	2071613	07/16/12	07/18/12	EPA 160.3	

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Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071604 - EPA 3010A

Blank (2071604-BLK1)

Prepared & Analyzed: 07/16/12

Antimony	ND	50	ug/l							
Silver	ND	50	"							
Arsenic	ND	50	"							
Barium	ND	50	"							
Beryllium	ND	50	"							
Cadmium	ND	50	"							
Chromium	ND	50	"							
Cobalt	ND	50	"							
Copper	ND	50	"							
Lead	ND	50	"							
Molybdenum	ND	50	"							
Nickel	ND	50	"							
Selenium	ND	50	"							
Thallium	ND	50	"							
Vanadium	ND	50	"							
Zinc	ND	50	"							

LCS (2071604-BS1)

Prepared & Analyzed: 07/16/12

Arsenic	511	50	ug/l	500		102	75-125			
Barium	505	50	"	500		101	75-125			
Cadmium	490	50	"	500		97.9	75-125			
Chromium	503	50	"	500		101	75-125			
Lead	522	50	"	500		104	75-125			

Matrix Spike (2071604-MS1)

Source: T121212-01

Prepared & Analyzed: 07/16/12

Arsenic	596	50	ug/l	500	ND	119	75-125			
Barium	983	50	"	500	457	105	75-125			
Cadmium	549	50	"	500	ND	110	75-125			
Chromium	565	50	"	500	ND	113	75-125			
Lead	562	50	"	500	ND	112	75-125			

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: SES-Dublin
Project Number: 575-443
Project Manager: Brand Burfield

Reported:
07/19/12 12:57

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071604 - EPA 3010A

Matrix Spike Dup (2071604-MSD1)

Source: T121212-01

Prepared & Analyzed: 07/16/12

Arsenic	481	50	ug/l	500	ND	96.2	75-125	21.3	20	QR-02
Barium	857	50	"	500	457	80.0	75-125	13.7	20	
Cadmium	449	50	"	500	ND	89.8	75-125	20.1	20	QR-02
Chromium	462	50	"	500	ND	92.3	75-125	20.1	20	QR-02
Lead	456	50	"	500	ND	91.1	75-125	20.9	20	QR-02

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: SES-Dublin
Project Number: 575-443
Project Manager: Brand Burfield

Reported:
07/19/12 12:57

Cold Vapor Extraction EPA 7470/7471 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2071605 - EPA 7470A Water										
Blank (2071605-BLK1)										
Mercury	ND	0.50	ug/l							Prepared: 07/16/12 Analyzed: 07/17/12
LCS (2071605-BS1)										
Mercury	4.74	0.50	ug/l	5.00		94.9	75-125			Prepared: 07/16/12 Analyzed: 07/17/12
Matrix Spike (2071605-MS1)										
Mercury	4.44	0.50	ug/l	5.00	0.137	86.1	75-125			Source: T121212-01 Prepared: 07/16/12 Analyzed: 07/17/12
Matrix Spike Dup (2071605-MSD1)										
Mercury	3.75	0.50	ug/l	5.00	0.137	72.2	75-125	16.9	20	QM-05

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Oakland CA, 94601

Project: SES-Dublin
Project Number: 575-443
Project Manager: Brand Burfield

Reported:
07/19/12 12:57

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071606 - EPA 3510C GCMS/ECD

Blank (2071606-BLK1)

Prepared: 07/16/12 Analyzed: 07/17/12

PCB-1016	ND	2.00	ug/l							
PCB-1221	ND	2.00	"							
PCB-1232	ND	2.00	"							
PCB-1242	ND	2.00	"							
PCB-1248	ND	2.00	"							
PCB-1254	ND	2.00	"							
PCB-1260	ND	2.00	"							

Surrogate: Tetrachloro-meta-xylene

1.11 " 1.00 111 35-140

LCS (2071606-BS1)

Prepared: 07/16/12 Analyzed: 07/17/12

PCB-1016	8.79	2.00	ug/l	10.0		87.9	40-130			
PCB-1260	8.13	2.00	"	10.0		81.3	40-130			

Surrogate: Tetrachloro-meta-xylene

1.16 " 1.00 116 40-130

LCS Dup (2071606-BSD1)

Prepared: 07/16/12 Analyzed: 07/17/12

PCB-1016	9.32	2.00	ug/l	10.0		93.2	40-130	5.88	30	
PCB-1260	7.71	2.00	"	10.0		77.1	40-130	5.31	30	

Surrogate: Tetrachloro-meta-xylene

1.04 " 1.00 104 40-130

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: SES-Dublin Project Number: 575-443 Project Manager: Brand Burfield	Reported: 07/19/12 12:57
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071607 - 418.1 / 5520C&F Mod.

Blank (2071607-BLK1)		Prepared: 07/16/12 Analyzed: 07/19/12								
TRPH	ND	6.0	mg/l							
LCS (2071607-BS1)		Prepared: 07/16/12 Analyzed: 07/19/12								
TRPH	50.1	6.0	mg/l	43.7		115	75-125			
Matrix Spike (2071607-MS1)		Source: T121212-01		Prepared: 07/16/12 Analyzed: 07/19/12						
TRPH	2220	150	mg/l	43.7	2170	120	75-125			
Matrix Spike Dup (2071607-MSD1)		Source: T121212-01		Prepared: 07/16/12 Analyzed: 07/19/12						
TRPH	2360	150	mg/l	43.7	2170	447	75-125	6.22	20	QM-02, QM-04

Batch 2071613 - General Preparation

Blank (2071613-BLK1)		Prepared: 07/16/12 Analyzed: 07/18/12								
Total Solids	ND		%							
Duplicate (2071613-DUP1)		Source: T121212-01		Prepared: 07/16/12 Analyzed: 07/18/12						
Total Solids	0.361		%		0.366			1.35	20	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: SES-Dublin
Project Number: 575-443
Project Manager: Brand Burfield

Reported:
07/19/12 12:57

Notes and Definitions

- R-01 The Reporting Limit has been raised to account for dilution necessary due to matrix interference.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- QM-04 Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Our Experience Is Your Protection

Michelson Laboratories, Inc.

6280 Chalet Drive, Commerce, California 90040-3761, Telephone (562) 928-0553 / FAX (562) 927-6625

LABORATORY CERTIFICATE

Submitted By: SUNSTAR LABS
25712 COMMERCENTRE DRIVE
LAKE FOREST, CA 92630
Attn : WENDY HSIAO

Date: 07/18/2012
Lab No. : 071812-C101286
Report No. : 071812-C101286A
Order No. :
Received : 7/18/2012
Page : 1 of 1

REPORT #	PRODUCT / TEST	METHOD	RESULT	UNITS	START:DT
C101286-01	Product :T121212-01 DATE:7/13/12 TIME:1600 Summary Test VISCOSITY, BROOKFIELD BROOKFIELD VISCOSITY SPINDLE # SPEED TEMPERATURE, DEGREES FAHRENHEIT	AOCS JA 10-87 SM 2550B	 10 1 20 71.6	 centipoise RPM Fahrenheit	 7/17/2012 7/17/2012 7/17/2012 7/17/2012

MICHELSON LABORATORIES, INC.

Roy Lung, Instrumentation Manager | 7/18/2012 4:02:23 PM



Certificate of Analysis

Report Date: 07/19/12 13:26
Received Date: 07/16/12 10:40
Turnaround Time: 2 workdays

Phones: (949) 297-5020
Fax: (949) 297-5027

P.O. #:

Project: T121212

Attn: Wendy Hsiao

Client: SunStar Laboratories, Inc.
25712 Commercentre Drive
Lake Forest, CA 92630

Dear Wendy Hsiao :

Enclosed are the results of analyses for samples received 7/16/2012 with the Chain of Custody document. The samples were received in good condition, at 6.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Table with 11 columns: Analyte, Result, MDL, MRL, Units, Dil, Method, Prepared, Analyzed, Batch, Qualifier. Rows include Flashpoint and Sulfur, Total.



Certificate of Analysis

Quality Control Section

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W2G0628 - EPA 1010

LCS (W2G0628-BS1)

Prepared: 07/17/12 Analyzed: 07/17/12 10:21

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Flashpoint		81.0		°F	81.0	100	98-102		

Duplicate (W2G0628-DUP1)

Source: 2G16017-01

Prepared: 07/17/12 Analyzed: 07/17/12 10:21

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Flashpoint	>200.....	>200		°F					

Metals (Aqueous) by EPA 6000/7000 Series Methods - Quality Control

Batch W2G0596 - EPA 6010B

Blank (W2G0596-BLK1)

Prepared: 07/16/12 Analyzed: 07/19/12 11:26

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Sulfur, Total		ND		mg/l					

LCS (W2G0596-BS1)

Prepared: 07/16/12 Analyzed: 07/19/12 11:28

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Sulfur, Total		458		mg/l	500	92	75-125		

Matrix Spike (W2G0596-MS1)

Source: 2G16017-01

Prepared: 07/16/12 Analyzed: 07/19/12 11:31

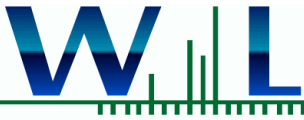
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Sulfur, Total	753.....	986	MS-02	mg/l	500	47	75-125		

Matrix Spike Dup (W2G0596-MSD1)

Source: 2G16017-01

Prepared: 07/16/12 Analyzed: 07/19/12 11:32

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Sulfur, Total	753.....	2150	MS-02	mg/l	500	279	75-125	74	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



Authorized Signature

Contact: Kim G Tu (Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

- MS-02** The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity
- NR Not Reportable

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: PSI
 Address: 4703 TIDENHAMP ME. STE B OAKLAND CA 94601
 Phone: 910 434-9200 Fax: 910 434-7676
 Project Manager: B. BURFIELD

Date: July 13, 2012 Page: 1 Of 1
 Project Name: SES - DUBLIN
 Collector: B. BURFIELD Client Project #: SH-443
 Batch #: T1212 EDF #: N/A

Sample ID	Date Sampled	Time	Sample Type	Container Type	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers	
S. VAULT	7/13/12	16:00	WATER	250 ml	X								01	HNO3	1	
				250 ml	X									HNO3	1	
				250 ml	X									HNO3	1	
				250 ml	X										1	
				40 ml											1	
				IL											1	
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>7/13/12 17:15</u>					Received by: (signature) <u>GSO ADRIAN # 107416566</u> Date / Time <u>7/14/12 9:27</u>					Total # of containers <u>9</u>		Notes				
Relinquished by: (signature) <u>GSO</u> Date / Time <u>7/14/12 9:27</u>					Received by: (signature) <u>[Signature]</u> Date / Time <u>7/14/12 9:27</u>					Chain of Custody seals Y/N/NA <u>Y</u>		Seals intact? Y/N/NA <u>Y</u>				
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Received good condition/cold <u>Y</u>		Turn around time: <u>48 HR</u>				

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T121212

Client Name: PSI - Oakland

Project: SES - Dublin

Received by: DM

Date/Time Received: 7/14/12 927

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no **frozen** containers)

Temperature: cooler #1 1.2 °C +/- the CF (-0.2°C) = 1.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date

DM 7/14/12

Comments:
