



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,

Wendy Hsiao

Project Manager

Wordy Plsia D



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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix Water	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

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Page 1 of 9



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
		SunStar La	borato	ies, Inc.					
Metals by EPA 6010B						1.2.1			
Antimony	ND	50	ug/l	1	2071604	07/16/12	07/16/12	EPA 6010B	
Silver	ND	50	"		"	п		"	
Arsenic	ND	50			"		"		
Barium	460	50	"	"	"		n	"	
Beryllium	ND	50	"	"	"	"	07/16/12		
Cadmium	ND	50	"	"			07/16/12		
Chromium	ND	50	"	"	"	"		""	
Cobalt	ND	50	"			"			
Copper	ND	50	"	п		"	"		
Lead	ND	50	"		"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"		
Nickel	ND	50	"	"	"	"			
Selenium	ND	50	"		"	"		"	
Thallium	ND	50	"			"			
Vanadium	ND	50	"	"		"	n	" 15 m	
Zinc	ND	50	n		"	"			
Cold Vapor Extraction EPA 7470/	7471								
Mercury	ND	0.50	ug/l	1	2071605	07/16/12	07/17/12	EPA 7470A Water	
Polychlorinated Biphenyls by EPA	Method 8082							10 16 16 2	
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	"	п	"	"	"		R-01
PCB-1248	ND	200	"	"	"	10,00			R-0
PCB-1254	ND	200	"	"	"	"	" 1		R-0
PCB-1260	ND	200	n n	"		"	"	"	R-0
Surrogate: Tetrachloro-meta-xylene		115 %	35	-140	"	e 1 " " "	"	"	

SunStar Laboratories, Inc.

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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
		SunStar La	aborato	ries. Inc.					
				100, 11101					
Conventional Chemistry	Parameters by APHA/EPA			105, 1110					
Conventional Chemistry				25	2071607	07/16/12	07/19/12	EPA 418.1	

SunStar Laboratories, Inc.

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Project: SES-Dublin

Project Number: 575-443

Reporting

Project Manager: Brand Burfield

Reported: 07/19/12 12:57

%REC

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2071604 - EPA 3010A			1							
Blank (2071604-BLK1)				Prepared	& Analyze	ed: 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	11							
Nickel	ND	50	11							
Selenium	ND	50	"							
Thallium	ND	50	"							
Vanadium	ND	50	п							
Zinc	ND	50	"							
LCS (2071604-BS1)				Prepared	& Analyz	ed: 07/16/	12	We be to be		
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	п	500		101	75-125			
Lead	522	50	"	500		104	75-125			
Matrix Spike (2071604-MS1)	So	ource: T1212	12-01	Prepared	& Analyz	ed: 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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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.

Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
	The state of the s				· · · · · · · · · · · · · · · · · · ·	A A A A A A A A A A A A A A A A A A A	The state of the s	The state of the s

Batch 2071604 - EPA 3010A

Daten 20/1004 Erit Dozon									The second second	
Matrix Spike Dup (2071604-MSD1)	Source	ce: T12121	2-01	Prepared of	& Analyze	ed: 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	11	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

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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)				Prepared:	07/16/12	Analyzed	1: 07/17/12			
Mercury	ND	0.50	ug/l	T Made						
LCS (2071605-BS1)				Prepared:	07/16/12	Analyzed	1: 07/17/12			ERRIE
Mercury	4.74	0.50	ug/l	5.00		94.9	75-125			
Matrix Spike (2071605-MS1)	So	urce: T12121	2-01	Prepared:	07/16/12	Analyzed	1: 07/17/12			
Mercury	4.44	0.50	ug/l	5.00	0.137	86.1	75-125			
Matrix Spike Dup (2071605-MSD1)	So	urce: T12121	2-01	Prepared:	: 07/16/12	Analyzed	d: 07/17/12	TAUS.		
Mercury	3.75	0.50	ug/l	5.00	0.137	72.2	75-125	16.9	20	QM-05

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Wendy Hsiao, Project Manager



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Project: SES-Dublin

Project Number: 575-443

Reporting

Project Manager: Brand Burfield

Reported: 07/19/12 12:57

%REC

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2071606 - EPA 3510C GCM	S/ECD									
Blank (2071606-BLK1)				Prepared:	07/16/12	Analyzed	1: 07/17/12			
PCB-1016	ND	2.00	ug/l							
PCB-1221	ND	2.00	"							
PCB-1232	ND	2.00	n							
PCB-1242	ND	2.00	n							
PCB-1248	ND	2.00	.11							
PCB-1254	ND	2.00	11.							
PCB-1260	ND	2.00	"							
Surrogate: Tetrachloro-meta-xylene	1.11	7907	"	1.00		111	35-140			
LCS (2071606-BS1)				Prepared:	07/16/12	Analyze	d: 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	N. Carlot	"	1.00		116	40-130			
LCS Dup (2071606-BSD1)				Prepared	07/16/12	Analyze	d: 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	71 18
Surrogate: Tetrachloro-meta-xylene	1.04		"	1.00	Market Comment	104	40-130			

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Project: SES-Dublin

4703 Tidewater Ave Ste B

Project Number: 575-443

Reported:

Oakland CA, 94601

Project Manager: Brand Burfield

07/19/12 12:57

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
Batch 2071607 - 418.1 / 5520C&F Mod.										
Blank (2071607-BLK1)				Prepared:	07/16/12	Analyzed	1: 07/19/12			
TRPH	ND	6.0	mg/l							
LCS (2071607-BS1)				Prepared:	07/16/12	Analyzed	H: 07/19/12			
TRPH	50.1	6.0	mg/l	43.7		115	75-125			
Matrix Spike (2071607-MS1)	Son	urce: T12121	2-01	Prepared	07/16/12	Analyzed	1: 07/19/12			
TRPH	2220	150	mg/l	43.7	2170	120	75-125			
Matrix Spike Dup (2071607-MSD1)	So	urce: T12121	2-01	Prepared	07/16/12	Analyzed	1: 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						1.00				
Blank (2071613-BLK1)				Prepared	: 07/16/12	Analyzed	d: 07/18/12			
Total Solids	ND		%							
Duplicate (2071613-DUP1)	So	urce: T12121	12-01	Prepared	: 07/16/12	Analyze	d: 07/18/12			
Total Solids	0.361		%		0.366			1.35	20	

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Wendy Hsiao, Project Manager

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Page 8 of 9



PSI -- Oakland Project: SES-Dublin
4703 Tidewater Ave Ste B Project Number: 575-443 Reported:
Oakland CA, 94601 Project Manager: Brand Burfield 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

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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.:

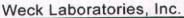
Received: 7/18/2012

Page: 1 of 1

REPORT #	PRODUCT / TEST	METHOD	RESULT	UNITS	START:DT
Control of the Contro	duct T121212-01 DATE 7/13/12 TIME: 1600				
	nmary Test VISCOSITY, BROOKFIELD OOKFIELD VISCOSITY	AOCS JA 10-87	10	centipoise	7/17/2012
	NDLE #		1 20	RPM	7/17/2012
SPE	ED MPERATURE, DEGREES FAHRENHEIT	SM 2550B	71 6	Fahrenheit	7/17/201

MICHELSON LABORATORIES, INC.

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



WIL

Analytical Laboratory Service - Since 1964

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.

Lab Sample ID: 2G16017-01 Sampled by: client	Sample I	The Land of	T121212-01 12 16:00						Mat	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Flashpoint	>200		and the days	°F	1	EPA 1010	7/17/12	7/17/12 10:21	W2G0628	
Sulfur. Total			50	mg/l	1	EPA 6010B	7/16/12	7/19/12 11:30	W2G0596	



Certificate of Analysis

Quality Control Section

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

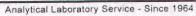
Batch W2G0628 - EPA 1010

LCS (W2G0628-BS1)					Prepared: 07	/17/12 A	nalyzed: 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			
Ouplicate (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 Ana	alyzed: 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 Ana	alyzed: 07/19	7/12 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					
latrix 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.

Contact: Kim G Tu (Project Manager)

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



Authorized Signature

ELAP # 1132

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
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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

Chain of Custody Record

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

Client: PFT Address: 4703 TTD Phone: 10 434-9 Project Manager: B	MANTEN 1200 BURTER	Fax: 9 1	6 434	-7676	44	601	Proje Colle Bato		ame B.	31 T12	12	F112) L	but	_ Clie_ ED	ent Projec	of	_ _ _ _
Sample ID	Date Sampled		Sample Type	Container Type	TO KINGGETH	8260 BTEX OXY ONLY	TELEGY POINT	S(PO) %	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	7	IPA- BLTGGAR	RC63	Laboratory ID #		omments/Preservative	Total # of containers
S. VAILT	7/13/12	16:00	WAST	250 m	×			†	+				+			10	1,	1
				250 m		×	×			92						3	HNOZ	1
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Reliminated by Company	7/13/12		A STATE OF THE PROPERTY OF THE PARTY OF THE	by: (signature	-		ate / Ti							ntaine			Notes	
Relinquished by: (signature) Date / T	7:15	Received	by: (signature		TIE	ate / Ti	me	-10	nain c				Y/N/N Y/N/N	_			
G-So	7/14/12	927	/	23.		7/14	112	127		Rece					old Y	1.0		
Relinquished by: (signature			Received	by: (signature)	D	ate / Ti	me						181	12/1/200			



SAMPLE RECEIVING REVIEW SHEET

BATCH # 121212			
Client Name: PSI - Oakland Project:	SES-Du	blin	
Received by: Date/Time Re	ceived:	7/14/12	2 927
Delivered by: Client SunStar Courier GSO FedEx	Other		
Total number of coolers received Temp criteria = 6°C	> 0°C (no	frozen con	ntainers)
Temperature: cooler #1 1.2 °C +/- the CF (-0.2°C) = 1.0 °C correction	cted temperati	ure	
cooler #2°C +/- the CF (- 0.2°C) =°C corre	cted temperati	ure	
cooler #3°C +/- the CF (- 0.2°C) =°C corre	cted temperat	ure	
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		□No*	
Proper preservative indicated on COC/containers for analyses requested	Yes	□No*	□N/A
Complete shipment received in good condition with correct temperatures, or preservatives and within method specified holding times. * Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Receiving Sheet III Sheet Sh	*		1 -
Comments:			