	MAJOR DIVISION		GROUP SYMBOL	LETTER SYMBOL	GROUPNAME
		GRAVEL WITH	<b>THE</b>	GW	Weisgraded GRAVEL
		* 5% FINES	10000	GP	Poorly graded GRAVEL
	GRAVEL AMD GRAVELLY		TO SE	GW-GM	Well-graded GRAVEL with sit
	SOILS MORE THAN 50% OF	GRAVEL WITH BETWEEN 5%		GW-GC	Well-graded GRAVEL with day
	COARSE FRACTION	AND 15% FINES	1115	GP-GM	Poorly graded GRAVEL with sit
	NO. 4 SIEVE		: O	GP-GC	Pocify graded GRAVEL with day
COADSE		GRAVEL WITH	197.6	GM	Sity GRAVEL
COARSE GRAINED SOILS		≥ 1646 FINEC		GC	Clayey GRAVEL
CONTAINS MORE THAN 50% FINES		SAND WITH		SW	Wel-graded SAND
	SAIRD AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	* 5% FINES		(F)	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% HINES		SW-SM	Wes-graded SAMD with sit
				sw-sc	Weit-graded SAND with day
				SP-SM	Poorly graded SAND with sit
				SP-SC	Poorly graded SAND with day
				SM	Sity Saled
· · · · · · · · · · · · · · · · · · ·		≥ 15% FINES		sc	Cayey SANO
				ML.	Incorporate SILT with low plasticity
FINE.		LICUID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plasticity
GRAHED SOILS	SILT AMD			OL.	Organic SILT with low plasticity
CONTAINS AORE THAIL SUSS FINES	CLAY	LIQUID LIMBT		KH	Electic inorganic SILT with moderate to high plasticity
		GREATER THAN 50		СН	Fat inorganic CLAY with moderate to high plasticity
				СН	Organic SILT or CLAY with moderate to high plasticity
Ha	GHLY ORGANIC SOI	L5	2 772 772 77 772 777 777	PT	PEAT sols with high organic contents

Fill Material	Is Staining Present Yes (No)
1. Is Fill Material Present Yes No	Color BRN MEC (10426/6) MOTTERD W/
2. Percentage Fill (%) N/A	Color BRN MEC (10 42 6/6) MOTTERD W/  Odor D. MEC. Ben. (16424/4) & V. PRIE BEN.  [ 1. Odor Strength (circle one) (10427)
3. Fill Description (circle all that apply)	1. Odor Strength (circle one) (1042 7)
Asphalt Metal Plastic	
Concrete Wood Glass	Organic Petroleum Chemical
Igneous/Metamorphic Gravel N/A	Other
Other	Moisture Condition (circle one)  Ory Moist Wet
PG Signature Mula Deffers	PG Registration # 7735
Additional Comments No RECOVERY IN S	SUDE HAMNER: COLLECTED
	COUECTED FROM AUGER.
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		ation				Suba	rea;	Date Started: Date Completed:	
	1	)G-	-86	3		,	į	5A 6-19-13 6-19-13	
	Clie	nt: DC	)E		Pro	ect Nar	ne/#	SSFL-69253-69376 4203 002 223 02224-95049 4 . Q Total Donthy 1 1 1 1 1 1 1 1 1 1	
	15			CDM SM	ITH		Dr	rill Contractor/Driller: Strongany 2nd HA=4.8	
	I			es or No			լու	rill Method: Itandauger Slice Jame Depth Drilled Into Bedrock:	
				(ground:	8=14 04	B= 73		orehole diameter: 2.75	
			round:					epth to GW: NA Sampling Method:	
	rau 1			pment U Alpha/B		ncake	Pe	Review & Na: Slide namuse	
	0			T	eta[v] Pa	псаке	1-	June 18 June H 1733 Geologist: David Rojas	
	Depth (feet)	Recovery	(ppm)	Radiological (µR/cpm)	Sample Name	Sample	uscs	Description of Materials	
Ch. m	ļ <del>.</del>	1	1		CL. 6/2	0000	ল		
SAMPL 90-0:		0.5/	5	14/64	SL-863 SA5A-SB O.O-0.5	0900	SP	SAND, but 7. 54RB/4), Fan, pa, so to se, quest loose dup, some one (roots, butully leaves), = 5% silt, v/0% of SILTY SAND, (7. 54R44) Fam W/some med to come	
GO- G	′∥ :				0.0-05	1	SM	Cut Some one (roots, arduckey leavers), 25% silt, ~/0%	espiget
	-		06	14/84				GILTY SAND, (7.54R44) Fam W/some med the come que, pg, so to sa quest, ~20% silt, few amb org (roots), to grand - fsizel, quest	aneeg
	2 -	K.	0.0	14/96					
	-	Ace						han —	
				111 /a (			SM	SINTY SAND, (7.5YR 4/4) Form Warmed on, po, sr to sa, quart, dry, slits mod compaited, slitviable, dry	2.5
	3 -	HAND	0.0	14/84				quatry dry, Slite most compacted, Sli Friade drys	
	_	\$		,				102010	
	-							Strawbau)	
	40		0.0	14/72	25 812		SM	SILTY SAND, (7.5 YR 4/6), f grow 4th to few med grow pages to see great, sli med comparted, mod frieble, one to sli most, to ant coare grain w/ depth, and less silt w/ depth	3.7
		1			SA5A-SB	0920		Sr to sa guest, sli mod conparted mod triable	
SAMPL		1		م الم	4.0-5.0	Clac		dry to sti most, to ant coare grain " depth,	
4.0.5.0		<b> </b>	0.0	17/9 6				and less site of depth	
	-							Refusals @ 4.8 x 4.8	,
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	CDI Sm					BOR	INC	G LOG AND SAMPLING RECORD Page 1 of 1	
	ABBRE\			grola					
	c: coarse	J116		grained light		: poorly :		led t: trace nr:no recovery  v: Very	
16.	dk: dark i: fine		m:	medlum od: moder	sa:	subang	ılar	wg: well graded	
<u>[[</u>	- ,,,,,,		(1)(	or model	ate Sr:	subroun	aed	φ: dlameter bgs:below ground surface	

Locati	on ID:	4			Subare	ea:	Date Started:	Date Completed:	
Projec	t: SSF	L		$\xi_{i}^{*}q$	. ,		Geologist:	Total Depth:	
Depth (feet) bgs	Recovery (feet)	QId (mdd)	Radiological (µR/cpm)	Sample Name	Sample Time	SOSN	Description	of Materials	
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	<b>N</b> #		-	<u> </u>	L				
CDS	'nit	h			B	ORI	ING LOG AND SAMPLING F	RECORD PA	ageof

	<del>-</del>		
	FSDS CI	hecked By V. G	2 Carren
Sample ID <u>SL - 863 - 9</u>			
Matrix (circle one) Soil Sediment Water	Start Depth		Depth Units (circle one) - Inches Feet
Check if Composite DPT		llection Method (circle nd Auger/Slide Hamme	·
QC Type (circle one)  N FD FB RB	Parent Sample I	ΔΛ	/A .
Field Geologist	vid Rojas		
Sampler	al Cortes		

	Parameters	Method	Analyze?
5 100	110 1	EPA 6010	Х
	Metals	EPA 6020	X
l	ivietais	EPA 7471 (Soil)	Х
		EPA 7470 (Water)	
I	Fluoride	EPA 300.0/9056	
ĺ	SVOCs	EPA 8270	
	TÍC	EPA 8270	_
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate		
	Confirmation	EPA 6850/6860	
ſ	all.	EPA 9045 (Soil)	X
l	рН	EPA 9040 (Water)	
ı	Hexavalent		
۱	Chromium	EPA 7196/7199	!
ĺ	Herbicides	EPA 8151	
ſ	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
ន	VOCs	EPA 8260	!
Encores	1,4 Dioxane	EPA 8260 SIM	
뜝	TPH-GŖO	EPA 8015	
	TPH-EFH	EPA 8015	$\overline{\mathbf{x}}$
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	- "-
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
1986	NDMA	EPA 1625	
É		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 slidehammer SS Sloves & 14-02 jour.

LETTER SYMBOL

GW

GР

GROUP NAME

Wet-graded GRAVEL

Poorly graded GRAVEL

FSDS Revision 2.0 5/30/2012

GROUP SYMBOL

GRAVEL WITH

15% FINES

Soil Classification (circle one)

NA - Not Applicable

MAJOR DIVISION

- 1							
- 1		GRAVEL AND GRAVELLY		2041	GW-GM	Well-graded GRAVEL with silt	
		SOILS MORE THAN	GRAVEL WITH	1000	GW-GC	Wel-graded GRAVEL with day	
		50% OF COARSE FRACTION	BETWEEN 5% AND 15% FINES	विप्रदेश	GP-GM	Poorly graded GRAVEL with sit	
		RETAINED ON NO. 4 SIEVE		:0.	GP-GC	Pocify graded GRAVEL with day	
			CRAVEL WITH	025	GM	Sity GRAVEL	
	COARSE GRAINED SOILS		GRAVELWITH	2000	вс	Copey GRAVEL	
	CONTAINS MORE THAN		SAND WITH		SW	Wel-graded SAND	
	50% FINES		* 5% FINES		(SP)	Poorly graded SAND	
		SAHD AHD		333 35 13	SW-SM	Wes-graded SAND with eit	
	i	SANDY SOILS MORE THAN	SAND WITH		SW-SC	Weit-graded SAND with day	
		50% OF COARSE FRACTION	BETWEEN 5% AND 15% FINES	330 331	sp.\$м	Poorly graded SAND with sit	
		PASSING ON NO. 4 SIEVE			SP-SC	Poorly graded SAND with day	
					SM	CHAS VIIS	
			EAND WITH ≥ 15% FINES		sc sc	Cayey SAND	
F				72,22,22	ML.	françario SILT without plastoly	
			LIQUID LIMIT		CL.		
	FINE. GRAINED		LESS THAN 50		OL.	Lean inorganic CLAY with low plasticity	
	SOILS CONTAINS	SILT ANO CLAY		TITTITI	MH	Organic SILT with low planticity	
	MORE THAN 50% FINES		LIQUID LIMIT GREATER		CH	Elastic inorganic SILT with moderate to high plasticity  Fat inorganic CLAY with moderate to high plasticity	
			THAN 50		СН		
$\vdash$		SHLY ORGANIC SO	<u>                                     </u>	<del>22.2</del>	er er	Organic SILT or CLAY with moderate to high plasticity  PEAT sots with high organic contents	
L		ARET OR CORE TO SO		5 27 57 5 5		1 DAT SOS WATTINGTOLOGIC CORRECT	
	ill Material Fill Material	Present (Y	es No			Is Staining Present Yes No	
1. Is I	Fill Material ercentage Fil Fill Descript sphalt concrete gneous/Meta	II (%)	II that apply) Plast Glass	ic		Color  Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemical  N/A Other  Moisture Condition (circle one)  Dry Moist Wet	
1. Is I 2. Pe 3. A Co Ig	Fill Material ercentage Fil Fill Descript sphalt concrete gneous/Meta	tion (circle a  Metal  Wood  amorphic Gra	II that apply) Plast Glass	ic		Color  Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemical  N/A  Other  Moisture Condition (circle one)	
1. Is I 2. Pe 3. A Co Ig	Fill Material ercentage Fil Fill Descript sphalt concrete gneous/Meta	tion (circle a  Metal  Wood  amorphic Gra	II that apply) Plast Glass	ic		Color  Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemical  N/A Other  Moisture Condition (circle one)  Dry Moist Wet	

## SSFL Phase 3 – Field Sample Data Sheet

					CDIM 2WILL
		FSDS Checked I	ву <u>V. С.</u>	4=	
Sample ID <u>Sk - 863 -</u>	SA5A-SB-4.			•	10920
Matrix (circle one)	Start Depth_	4.0 5.0			(circle one)
Check if Composite	DPT Slide Hamm	Collection er Hand Auger	Method (circle	•	Sediment
QC Type (circle one) —	RB Parent S	Sample ID	/	VA	
Field Geologist	David Rojas				
Causalan	Vidal Corte	2.3			

### Analysis

Parameters	Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	X
IMEGRIS	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	'
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
mil	EPA 9045 (Soil)	X
pH	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

W.C	Parameters	Method	Analyze?
es	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
5	TPH-GRO	EPA 8015	X
1517	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
737	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
3	Methyl Mercury	EPA 1630 🔨	

2 16-02 jane & 2 Encorei

	MAJOR DIVISION		GROUP SYMBOL	SYMBOL	GROUP NAME
		GRAVEL WITH	Tree!	GW	Wel-graded GRAVEL
		* 5% FINES	35,530	GP	Poorly graded GRAVEL
	GRAVEL AHD GRAVELLY			GW-GM	Well-graded GRAVEL with sit
	SOILS MORE THAN 50% OF	GRAVEL VATH BETWEEN 5%	<b>过</b> 线	ew-ec	Well-graded GRAVEL with day
	COARSE FRACTION	AND 15% FINES	10,110	GP-GM	Poorly graded GRAVEL with sit
	RETAINED ON NO. 4 SIEVE		· O:	GP-GC	Poorty graded GRAVEL with day
COARSE		GRAVEL WITH	iodio	GM	Sity GRAVEL
GRANED SOILS CONTAINS		E 1696 FINES		ec	Clayey GRAVEL
AORE THAN 50% FINES		SAND WITH		SW	Well-graded SAND
		S% FINES		SF*	Poorly graded SAND
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Wes-graded SAND with sit
				swsc	Well-graded SAND with day
				SP-SM	Poorly graded SAND with sit
				SP-SC	Poorly graded SAND with day
		HTIW DMA3		(SM)	SHYSAND
		≥ 15% FINES		sc	Crayey SAND
!				ML.	honyanic SILT with low plasticity
FINE		LICUID LIMIT LESS THAN SO		CL	Lean increase CLAY with low plasticity
GRAINED SOILS CONTAINS	SILT AND			OL.	Organic SiLT with low plasticity
ORE THAIL	CLAY	LIQUID LIMIT		MH	Elastic inorganic SILT with moderate to high plasticity
		GREATER THAN 50		СН	Fall inorganic CLAY with moderate to high plasticity
				сн	Organic SILT or CLAY with moderate to high plasticity
His	OHLY ORGANIC SOI	LS	3 77 57 3 57 37 32	PT	PEAT sols with high organic contents

Fill Material	Is Staining Present Yes (No)
1. Is Fill Material Present Yes No	color Strong bron (7.54R4/6)
2. Percentage Fill (%) None	Odor
3. Fill Description (circle all that apply)  Asphalt Metal Plastic	1. Odor Strength (circle one)  None Slight Strong
Concrete Wood Glass  Igneous/Metamorphic Gravel N/A	Organic Petroleum Chemical  N/A Other
Other	Moisture Condition (circle one)  (bry) Moist Wet
PG Signature Mulu Hoffman	PG Registration # 7735
Additional Comments Unable to collect	E way handanger
	and in water the

	Location ID				Subar	ea:		Date Starte	ed:		Date Comp	leted:	7
	DG-8	3/21					2	1 .	18-13	?	1	e-18-13	
	Client: DOE			Proje	ct Nam	e/#:	SSEL-6526		02:223:02231:9:			3.E = HA +e1:	<u>.</u>
	Company N	ame: C	DM SMIT			Dri	II Contrac	tor/Driller:	Strongo			2nd HA = 4.8	
	GPS collected Yes or No					Dri	II Method	Slindh			Depth Drille	ed into Bedrock:	1
	Radiological Background: $\chi = 15$ 48 = 68					Boi	rehole dia	meter: 2	175 inch	24)		NA	
	PID Backgro	ound: (	2,0			Dej	oth to GW	/:	ACA		Sampling M		
	Radiologica					PG	Rewiew-8	11. 1 1 1	10		Slider	Bruner	
	/ Microl		1	ta / Pan	cake	<u> </u>	Ilm	W B	gran	1/35	Geologist:	David Rojas	
	Depth (feet) bgs Recovery (feet)	Old (mdd)	tadiological (µR/cpm)	Sample Name	Sample Time	nscs		W	Descri	iption of Ma	aterials	<b>9</b>	
			IK.										
AMPLE 10-0.5	0.5	0.0	15/90	31-864 SAGA-SB 0.0-0.5	1355	5%	SAND	weilt,	homo (7.5) to sa, 9	VR 4/3) W	10thed W/(	7.5 VR 3/3) F-V e to sli compand (nots)	
			14/60			SM	CITY	CALIA	Jan. 17 6	(YDU/-).	an the n W	ソイベ わかいハンナ	(2).5 (2)
		0.0	1.1/62				Far	m W/Fen	and Me	d gm, 1	og srt	sa quate 1	
	- Him		4/20				chy	, to and	real, s	3000) 11 06 prot	z. 1 <b>V</b> 1000 u	e, - 2010- 2	
	2 - 1 1900	0.0	14/78				U	,	0	,		Pro-	
						514	SILTY	SAND	AA. exc	rept st	rong bu	(7.54R4/6)-	-2.4
SAMPLE IN	37	0.0	14/72				Con	42. CM Bil	deal.	<i>u</i>		-	20
10-5.0	COPA					37	SAND	W/3/LT	Stone	bw (7,5	4R4/6) me	the Wak king of sortesa, as	-3.2 +
المر المراب	4	0.0	14/84		ins.	SP	) ohy	testi m	erst, m	od cons	oudated to	consolitated	3.8
	'	ĺ		SA45A-SB	1410	31	SAND	to mod.	mable 17126/6) MIO	Hed Wyd	bm DYR 5/8	land of yel bruffe el, gli to med fa sondstone gravel	184/4),
•		6.0	14/102	40-50			ali vu	w. Pars	nto sa que unt silty s	and blobs	, trant	sandsone gravel	Fine-sized had
	7 🗍 📗					Ì		Re	Fuels	9 <i>3.8</i>	£ 4.8	-	
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IL.	CDM Smith				во	RIN	IG LO	AND S	AMPLING	RECO	RD	Page 1 of <u>1</u>	`
	ABBREVIATIO mt: amount		r: grained	g	g: poor	y gra	ded t	: trace	nr:no recov	ery			
c	: coarse	ĺt	: light	ŗ.	nd: roun	ded	V	: very		1			
	lk: dark : fine		n: medium		a: suban			/g: well grade		ground curfo			

Locat	ion ID:				Subar	ea:	Date Started:	Date Completed:	
Projec	t: SSF	L		527	land 1		Geologist:	Total Depth:	***
Depth (feet) bgs	Recovery (feet)	. (wdd) Gld	Radiological (µR/cpm)	Sample Name	Sample Time	nscs	Descri	otion of Materials	
CDI					ВО	RIN	IG LOG AND SAMPLING	RECORD Page_of	

## SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

	CDIVI SMITN
	FSDS Checked By
Sample ID Sh-864-SA5	5A-SB-0.0-0.5 Date/Time 6-18-13 / 1355
Matrix (circle one)  Soil Sediment Water	Start Depth O.O Depth Units (circle one) Inches Feet
Check if Composite DPT	Collection Method (circle one)
QC Type (circle one)  N FD FB RB	Parent Sample ID
Field Geologist	AVID ROJAS
Sampler	DAL CORTES

### Analysis

Ž	Parameters	Method	Analyze?
1000		EPA 6010	X
Ē,	Matala	EPA 6020	X
Metals	ivietaiz	EPA 7471 (Soil)	X
Ä		EPA 7470 (Water)	
1	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
200	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	Х
	1,4 Dioxane	EPA 8270 SIM	
-	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
-	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	メ
	μπ	EPA 9040 (Water)	•
	Hexavalent		
1	Chromium	EPA 7196/7199	
١	Herbicides	EPA 8151	
I	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
ន	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ង	TPH-GRO	EPA 8015	
749912 3 4435	TPH-EFH	EPA 8015	X
A GAN	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
VIA.	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
- 1 - 1 - 1	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
E		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

	MAJOR DIVISION		GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
		GRAVEL WITH	10	GW	Wei-graded GRAVEL
		• 5% FINES	$\frac{1}{2}$	GР	Poorly graded GRAVEL
	GRAVEL AHD GRAVELLY			GW-GM	Well-graded GRAVEL with sit
	SOILS MORE THAN	GRAVEL WITH	1.6%	GW-GC	Wel-graded GRAVEL with clay
	50% OF COARSE	8ETWEEN 5% AND 15% FINES	3.1.6	GP-GM	Poorty graded GRAVEL with sit
	PRACTION RETAINED ON NO. 4 SIEVE		.0.	GP-GC	Pocity graded GRAVEL with day
		65 N.C. 11274	2000	GM	Sity GRAVEL
COARSE GRAINED SOILS		GRAVEL WITH	100	GC .	Cayey GRAVEL
CONTAINS MORE THAIL		SAND WITH		SW	Weil graded SAND
50% FINES		* 5% FINES		SP	Poorly graded SAND
	SAND AND			SW-SM	Wes-graded SAND with six
	SAHD AND SAHDY SOILS MORE THAN 50% OF	SAND WITH		sw.sc	V/ct-graded SAND with day
	COARSE FRACTION	BETWEEN 5% AND 15% HINES		(SP-SM)	Poorly graded SAND with sitt
	PASSING ON NO. 4 SIEVE			SP-SC	Poorly graded SAND With day
		HTIN DIAS		SM	Sity SANO
		≥ 15% FINES		sc	Crayey SAND
				ML	Inaryanic SILT with law plasticity
Sus		LICUID LIMIT LESS THAN 50		CL.	Lean inorganic CLAY with low plasticity
FINE GRAINED SOILS	SILT AND			OL	Organic SILT with low plasticity
CONTAINS MORE THAN 50% FINES	CLAY			MH	Elastic inorganic SiLT with moderate to high plasticity
30 B 1 RC3		LIQUID LIMIT <u>GREATER</u> THAN 50		СН	Fat inorganic CLAY with moderate to high plasticity
				сн	Organic SILT or CLAY with moderate to high plasticity
Ħĸ	SHLY ORGANIC SOI	.5	2 775 777 7 275 775 775	РТ	PEAT sols with high organic contents
Fill Material					Is Staining Present Yes (No)
s Fill Material	Present (V	es) No			is Staining Present Yes (No)
			i <i>0</i> 7		color brn (7.54R4/3) mottle 1 1/7.54
ercentage Fil	l (%)	race	10	ĺ	C Odor
_		SMOIS	3		1. Odor Strength (circle one)
3. Fill Descrip	tion (circle al	that apply)			(None) Slight Strong
	*		1		Trong Sight Strong
Asphalt	(Metal)	Plasti	c		
	<del></del> -				2. Odor Description (circle one)
Concrete	Wood	Glass	-		Organic Petroleum Chemical
			[		- Chemical
Igneous/Meta	amorphic Gra	vel N/A	- [		N/A) Other
.≯ <b>⊼</b> .			-		
Other $\frac{3N}{2}$	Hluminau		_		Moisture Condition (circle one)
				ļ	
		A / / .			(Dry) Moist Wet
. <	mles				7725
nature	•	U Jagger	27)		— PG Registration #
tional Comm	ents		NA		
				/	
	<del></del>			4	

2086.2

F5DS Revision b.B S/3m/2d12

NA - Not Applicable

	FSDS Checked By	1.Cot
Sample ID	A-SB-0-5.0 Date/Time	6-18-13/1410
Matrix (circle one) Soil Sediment Water	Start Depth 4.0 End Depth 5.0	Depth Units (circle one) - Inches Feet
Check if Composite DPT		(circle one)
QC Type (circle one)  N FD FB RB	Parent Sample ID	WA
Field Geologist	vid Rojas	
Sampler	lal Cortes	

Parameters	Method	Analyze?
	EPA 6010	又
Metals	EPA 6020	X
INICIOIS	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	×
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	×
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
11	EPA 9045 (Soil)	×
pH / All	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	1

	Parameters	Method	Analyze?
S	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ᇤ	TPH-GRO	EPA 8015	X
W	TPH-EFH	EPA 8015	么
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
Žv.	Formaldehyde	EPA 8315	
Ų.	NDMA	EPA 1625	
Ħ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 16-02 jans & 2 Encours

	MAJOR DIVISION		GROUP SYMBOL	SYMBOL	GROUP NAME
		GRAVEL WITH	Tree	GW	Wel-graded GRAVEL
		• 5% FINES		GР	Poorty graded GRAVEL
	GRAVEL AND GRAVELLY		474	GW-GM	Well-graded GRAVEL with silt
	SOILS MORE THAN 50% OF	GRAVEL WITH BETWEEN 5%	10%	GW-GC	Well-graded GRAVEL with day
	COARSE FRACTION	AND 15% FINES	:0:11E	GP-GM	Poorly graded GRAVEL with sit
	RETAINED ON NO. 4 SIEVE		ું 💮	GP-GC	Poorty graded GRAVEL with day
COARSE		GRAVEL WITH	<u>:</u> 95:6	G/M	Sity GRAVEL
GRAMED SOILS CONTAINS		E ROPPIACE		GC	Clayery GRAVEL
ORE THAN 50% FINES		SAND WITH		SW	Well-graded SAND
	SAMO AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	* 5% FNES		(SP)	Poorly graded SAND
		SANO WITH BETWEEN 5% AND 15% HINES		SW-SM	Wes-graded SAND with six
				sw-sc	Well-graded SAND with day
				SP-SM	Poorty graded SAND with sit
				SP-SC	Poorly graded SAND with day
		SAND WITH > 15% FINES		SM	Sity SAND
		2 1978 FINES		sc	Cayey SAND
			7	ML	Inorganic SILT with low plasticity
FINE		LICVID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plasticity
GRAINED SOILS XXXIAINS	SłLT Gł∕A			OL	Organic SILT with low plasticity
ORE THAT	CLAY	LIQUID LIMIT		мн	Elastic inorganic SILT with moderate to high plasticity
		GREATER THAN 50		СН	Fet inorganic CLAY with moderate to high plasticity
				СН	Organic SILT or CLAY with moderate to high plasticity
Ha	SHLY ORGANIC SOL	LS	3 27 27 2 27 27 27	РТ	PEAT sola With high organic contents

1. Is Fill Material Present Yes No	Is Staining Present Yes (No)  Color Remuel (10) R 1/6) milled "yellow (10) R 5/6)
2. Percentage Fill (%) NONE	Odor and dkyel bru (IDYR4/4)
3. Fill Description (circle all that apply)  Asphalt Metal Plastic	1. Odor Strength (circle one)  None Slight Strong
Concrete Wood Glass	Organic Petroleum Chemical
Igneous/Metamorphic Gravel N/A	N/A Other
Other	Moisture Condition (circle one)  Dry Moist Wet
Additional Comments Collected Using Inc.  What he y stand	Indauger because soil could in slitchenmen steeres.
NA – Not Applicable	2605 Newsign 18 - 5700 Neg 2

	Location ID:		Subare		Date Started:	Date Comp	leted:	7
	DG-865		S	sa	6-19-13	1 6	,-19-13 m	dh
	Client: DOE	Proje	ct Name	/#: <del>-93F1:-6525</del> 8	-63376:1203:002:223:02231:SSPI	Total Depth	: Ist DPT = 94	9,5
	Company Name: CI		1	Drill Contrac	tor/Driller: Strong an	)	AND DET: 9.	7
	GPS collected? Ye	s or No		Drill Method:	DPT JOH	Depth Drille	and OPT = 9.0 and OPT = 9.0 d Into Bedrock:	4
	Radiological Backg	ground: \ = 12 &			meter: 2,25	•	NA	
	PID Background: ()			Depth to GW		Sampling M		
	Radiological Equip			G Review/8	, 4, 4		SSleeves	
		<b></b> 1	cake 🗟	Willes	Wallen #7	)3 Geologisti	David Rojas	
	1 1 1			1	Toppian) il ()	/ July   Good of State	Lavia nojas	-
	Depth (feet) bgs Recovery (feet) PID (ppm)	ndiologic JuR/cpm) Sample Name	Sample Time	တ္က	W		•	
	pth (fe bgs scove (feet) PID PID	iolc RVc am	am Lin	SOS	Descripti	ion of Materials		
	Del R	Radiological (µR/cpm) Sample Name	S	_				
	0.0	12/80 51-865	1340	BANT	WEUT hoo 75VP	5%) C		+ 112%sil+
SAMPLE	0.5 0.0	12/80 5L-865 10/72 SA5A-SB 0.0-0.5	. 5 10	M drus.	SILT, brn (7.5YR slits ned compact	71) tomany pa	SV & 30 god	P.O.4
0.0-0.5				P (to as	t asphalt I agnes	as crowd = files	it malleized so	
	0.0	10/48	3	M CAN'S	W/C = 11.01	1000111	10/=+ 100	1
j	'	·		(17 5 VI	W/SILT, dk yel lam (1/6) onel lamo (7.5 yr sa, quart, dry, we silt, to aret informed on W. Sandy silt, y po	2 (10167/4) MOTE	2 75 Nove ton-	1
	32.0		1	SUL	so an met dan wa	Company Sec	Levelle to Fran	la.
ļ		10/00		~10%	Siltert authorized	CO. A. D. Davido	) to mit	1
	2-1/35 00	19/90	L	moth	ne W. Sandie silt. V o	of har lings 7/4)	, 00 12700	2.0
			S	M SILTY	SAND, bru (7.5 YR	5/2 month of w/ of	144 Jan 17.5VR 9/	1) ~. ~
į				fami	/ few to some mul qu	m on sext as o	used dry ~2	B% slf
	3 00	1966		Compa	etal, sliFriable s	al assuretal	-loum) at -	
1	3 - 00	140		topop	ust becoming non	lanuvite Whenthe	Long -	
				mod c	empocked and more	friends, to this	come mottling -	
	-	- (	-	Wysasu	lysilt A.A.	,	8 _	
	4 0.0	10/6b St. 51			3		_	11 1
		52-865	355 5	M SILTY	SAND, A:A except compacted & mod f	ne lowesting	4 mil	4.0
		SA5A-SB	Γ.	mode	compacted a mod f	reall to Fright	701005	
		10/ 4.0-5.0			•	The state of the s	' –	
i	5' [2]   0,0	10/54 4.0-5.0					• • -	
	-		1				7	
1	3.0		1					
	A = A = A = A = A = A = A = A = A = A =	04.					_	
-	6 740 0.0	766	Ì			•	_	
	]		1	Ì				
	4 1 1		57	Y C1174	SALID UNG LOVE	VP 5/4 441 1) 4	<del>/                                    </del>	-6.5
1	7 ]  0,0  1	0/72	יכן	N SILLY	SAND, yellow (O	The 74) Wolled	soborpus ]	
		,,,,	].	Clork	4) form w/tran	of read gray, pro	ST 10500, great	رکا
1	_		i	01100	mod compated, fria lebest sandusitt	are gray rose		l0
1		٨/		tew KI	all someons in	ar her muciosk	3/4) of consult	
	8	%84		CLANE	Y SAND, y pale lan	av(IDVR 7/2) mattle	W/hon/mye5	7.8
			3	Lava	pop, sr to sir quart	( , , , , , , , , , , , , , , , , , , ,	Frield d	9
	-		-		1 (1) 2 (4) . (1)	l present as lan	. 70-11	-8.4
		6/	99	1 ~ 20196	low pleasures, buttle		J. J. god bond	·
	7 ] /d 60 ["	778	110 /31			ottled w/yel/10YR?	Torid Clab.	
	`19 ''	5/45A-3B	"   "	(IOVR 6)		2, guents, dry, v	/ I	
	0.0	984 90-100				only to sli mount		01.
		<u>/                                    </u>		1 2000	udatore gravel@10			-9,7
	CDM_					Refusel	64,5,7,1,7,U	
	Smith		BOR	ING LOG	AND SAMPLING	RECORD	Page 1 of	
Ļ		.,						
11	BBREVIATIONS: nt: amount gr	grained pg	: poorly g	rraded to	trace nr:no recovery			
c:	coarse It:		d: rounde	ed v:	very			
			subangu	ilar wa	g: well graded			
11:	me M	od: moderate sr:	subroun	uea φ:	diameter bgs:below gro	und surface		

Locat	ion ID:				Subar	ea:		Date Started:	Date Compl	eted:
Projec	t: SSF	-L		1 1/2	<u> </u>		Q	Geologist;	Total Depth	
Depth (feet) bgs	Recovery (feet)	Old (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	SOSO		Descripti	on of Materials	
		- Whitelet Alexander					`	er en en en en en en en en en en en en en		
-		-								
-										- - -
	•	-								<b>1</b>
										- - -
1 1 1 1 1									•	
<u> </u>			A. (A. (A. (A. (A. (A. (A. (A. (A. (A. (			-				- - - - -
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1										
				,	MANAGE LES CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE					- - - - -
CDI Sn	vi Vitk	<u> </u>	<u> J.</u> .		ВО	RIN	IG LO	G AND SAMPLING I	RECORD	Pageof

### SSFL Phase 3 - Field Sample Data Sheet

				CDM Smith
		FSDS Checked By	V-Cr2	
Sample ID SL-	865-SA	5A-SB-0.0-0.5 Date/	Time 6-19-13/	1340
Matrix (circle one	1	Start Depth 0.0	Depth Units (	
(Soil) Sedimen	t Water	End Depth 0,5	Inches	Feet
Check if Composite	DPT	Collection Metl Slide Hammer Hand Auger/Slid	n <b>od (circle one)</b> le Hammer Trenching	Sediment
QC Type (circle on	ie) ———	<del>,</del>		
N FD	FB RB	Parent Sample ID	NA	
Field Geologist	David T	Rojas		
Sampler	Vidal (	?ortes		

### Analysis

	Parameters	Method	Analyze?
		EPA 6010	Х
်	Metals	EPA 6020	X
	110(013	EPA 7471 (Soil)	7
L		EPA 7470 (Water)	
ĮF	luoride	EPA 300.0/9056	
S	VOCs	EPA 8270	
T	ic	EPA 8270	
P	'AHs	EPA 8270 SIM	X
1	,4 Dioxane	EPA 8270 SIM	
D	ioxins	EPA 1613	X
Ρ	CBs/PCTs	EPA 8082	
Р	erchlorate	EPA 314.0/331	
Ρ	erchlorate		T
C	onfirmation	EPA 6850/6860	
р		EPA 9045 (Soil)	Х
۲		EPA 9040 (Water)	1
Н	exavalent		
C	hromium	EPA 7196/7199	
H	erbicides	EPA 8151	
P	esticides	EPA 8081	

1.22	Parameters	Method	Analyze?
S	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
5	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
ž		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
X	Methyl Mercury	EPA 1630	

20pt SS Slooves & 14-02 jan

GROUP HAME Wei-graded GRAVEL

GROUP SYMBOL

GRAVEL WITH

Soil Classification (circle one)

MAJOR DIVISION

	E .	• 5% FINES	01/2020	G₽	Poorty graded GRAVEL	
	GRAVEL AND		70.17	GW-GM	Well-graded GRAVEL with six	
	GRAVELLY SOILS MORE THAN	GRAVEL WITH	<b>16</b> 00	gw-gc	Weil-graded GRAVEL with day	
	56% OF	BETWEEN 5% AND 15% FINES	REPUBLISH N	GP-GM	Poorly graded GRAVEL with sit	
	PRACTICAL RETARNED CN NO. 4 SIEVE		-0.	GP-GC	Pocny graded GRAVEL with day	
		25 0 5 1171	0.15	GM	Sity GRAVEL	
COARSE GRANIED		GRAVEL WITH	7777	GC	Clayer GRAVEL	
SOILS CONTAINS MORE THAN		SAND WITH		SW	Wei-graded SANO	
50% FINES		* 5% FINES		SP	Poorly graded SAND	
	SAMD AND			SW-SM	Wet-greded SANO with sit	
	SAMD AND SAMDY SOILS MORE THAN 50% OF	SAND WITH		SW-SC	Wet-graded SAND with day	
ļ	FRACTION	BETWEEN 5% ANU 15% HINES		(SP.SM)	Poorly graded SAND with sitt	
	PASSING ON NO. 4 SIEVE			SP-SC	Poorly graded SAND with day	
		6.445.44		SM	Sity SAND	
		SAND WITH ≥ 15% FINES		sc	Cayey SAND	
		<del> </del>		ML.	françonic SILT wite low plastaly	
		LICUID LIMIT LESS THAN 50		CL.	Lean inorganic CLAY with low plast oby	
FINE. GRANED	SiLT	ELGA WATER		OL.	Organic SILT with low plasticity	
SOILS CONTAINS MORE THAN	SILT AND CLAY			мн	Elastic inorganic SILT with moderate to high plasticity	
50% FINES		LIQUID LIMIT GREATER		сн	Fat inorganic CLAY with moderate to high plasticity	
		THAN 50		сн	Organic SILT or CLAY with moderate to high plasticity	
	HIGHLY CARGANIC 50	J	2 2 2 2	PT	PEAT sols with high organic contents	
– Fill Material I. Is Fill Materia	al Present (	Yes No	17.		Color byn (7.5 YR 5/4)	
Fill Material  I. Is Fill Material  2. Percentage f  3. Fill Descri  Asphalt  Concrete	al Present (	Trace all that apply Plas Glas	tic s	3	color byn (7.54R 5/4)	al
Fill Material  1. Is Fill Material  2. Percentage f  3. Fill Descri  Asphalt  Concrete	al Present (Fill (%)  ption (circle a  Metal  Wood	Trace all that apply Plas Glas	tic s	3	Color (7.5 YR 5/4)  Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemica	al
Fill Material  1. Is Fill Material  2. Percentage f  3. Fill Descri  Asphalt  Concrete  Igneous/Me	al Present (Fill (%)	Trace all that apply Plas Glas	tic s	3	Color (7.5 YR 5/4)  Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemica  N/A Other  Moisture Condition (circle one)	al
Fill Material  1. Is Fill Material  2. Percentage f  3. Fill Descri  Asphalt  Concrete  Igneous/Me  Other  Signature	al Present (Fill (%)	Trace all that apply Plas Glas	tic s	3	Color (7.5 YR 5/4)  Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemica  N/A Other  Moisture Condition (circle one)  Dry Moist Wet	al

	FSDS Checked By Vacation
Sample ID SL~865	5-SA5A-SB-4,0-5,0 Date/Time 6-19-13 / 1355
Matrix (circle one)  Soil Sediment	Start Depth 4,0 Water End Depth 5,0  Depth Units (circle one) -
Check if Composite	Collection Method (circle one)  DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment
QC Type (circle one) —	RB Parent Sample ID
Field Geologist	David Rojas
Sampler	Vidal Cortes

	Parameters	Method	Analyze?
100		EPA 6010	X.
ી ,	<b>V</b> letals	EPA 6020	Χ
Ψľ	vietais	EPA 7471 (Soil)	X
§L		EPA 7470 (Water)	
F	luoride	EPA 300.0/9056	
S	SVOCs	EPA 8270	
Ī	TIC	EPA 8270	
F	PAHs	EPA 8270 SIM	X
1	,4 Dioxane	EPA 8270 SIM	
Ţ	Dioxins	EPA 1613	X
F	CBs/PCTs	EPA 8082	
P	Perchlorate	EPA 314.0/331	
P	Perchlorate		
c	Confirmation	EPA 6850/6860	
	.11	EPA 9045 (Soil)	火
<u>े</u>   P	Н	EPA 9040 (Water)	• • • • • • • • • • • • • • • • • • • •
F	lexavalent		
C	hromium	EPA 7196/7199	
F	lerbicides	EPA 8151	
P	'estícides	EPA 8081	

	Parameters	Method	Analyze?
ន	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
<u></u> 5	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
E		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 16 03 jars & 2 Excores)

GROUP HAME Wet-graded GRAVEL

Soil Classification (circle one)

MAJOR DIVISION

GRAVEL WITH

		1	GRAVELYMTH	<b></b> -		L	1	
			* 5% FINES	10,530	GP	Poorly graded GRAVEL		
		GRAVEL AND GRAVELLY	GRAVEL WITH	0.040	GW-GM	Well-graded GRAVEL with silt		
		SOILS MORE THAN			GW-GC	Well-graded GRAVEL with clay		
		50% OF COARSE FRACTION	BETWEEN 5% AND 15% FINES	131163	GP-GM	Poorty graded GRAVEL with sit		
		RETAINED ON NO. 4 SIEVE		.0.	GP-GC	Pocity graded GRAVEL with day		
			GRAVEL WATH	1826	GM	Sity GRAVEL		
	COARSE GRAINED SOILS		GRAVEL WITH £ 1090 FINES		ငေ	Cayey GRAVEL		
	CONTAINS MORE THAN		SAND WITH		SW	Well-graded SAND		
	50% FINES		* 5% FINES		SP	Poorly graded SAND		
		SARD AND			SW-SM	Well-graded SAND with sit		
		SANDY SOILS MORE THAN 50% OF	SAND WITH		sw.sc	Well-graded SAND with day		
		50% OF COARSE FRACTION	BETWEEN 5% ANU 15% FINES		SP-SM	Poorly graded SAND with sit		
		PASSING ON NO. 4 SIEVE			SP-SC	Poorly graded SAND with day		
			EAND WITH	<b>多</b> 图 20	(SA)	Sity Sano		
			≥ 15% FINES		SC SC	Cayey SAND		
					M.	hxaganic SiLT with tow plasticity		
		¥	LIQUID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plasticity		
	FINE GRAINED SOILS	SILT ANO CLAY			OL	Organic SILT with low plast city		
	SOILS CONTAINS MORE THAI		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity		
	50% FINES				сн	Fol inorganic CLAY with moderate to high plasticity		
			,,,,,,,,,		СН	Organic SILT or CLAY with moderate to high plasticity		*****
	н	GHLY ORGANIC 50	ILS	7 77 77 7 77 77 77	PT	PEAT sors with high organic contents		f
	Fill Material					Is Staining Present Yes (No)	•	
	Fill Materia	Dresent V	es (No)			Is Staining Present Yes (No.)	VL, Co	1105/
	, , , , , , , , , , , , , , , , , , , ,	r resent <sub>1</sub>	es (NO)			Color Dry 1.54K/3/mottled	Ystrony bom?	54K78
2. F	ercentage Fi	iii (%) t	Jone			C Odor		
	3	,				1. Odor Strength (circle one)		
Г	3. Fill Descrip	tion (circle a	ll that apply)			(None ) Slight Stro	ing	
						J Singin Stro	'' <sup>5</sup>	
	Asphalt	Metal	Plast	ic				
				1		2. Odor Description (circle one	e) ————————————————————————————————————	
	Concrete	Wood Glass				Organic Petroleum Chemical		
						Organic Fetroleum Chemical		
	Igneous/Met	amorphic Gra	avel (N/A	ノー	İ	N/A Other		
	_	-				,		
	Other					Moisture Condition (circle one		
							- I	
						Dry Moist Wet		
		moles &		,		رار ال	5	
PG Sig	nature	//	VOJEJN	<del>(21</del> )		— PG Registration #	<u> </u>	
	1 <del>-</del>		cu			_		
Add	itional Comn	nents		•				
				$\langle \chi \chi \rangle$				

# SSFL Phase 3 - Field Sample Data Sheet

CDM Smi	th
FSDS Checked By V-GV	
Imple ID SL-865-SA5A-SB-9.0-10.0 Date/Time 6-19-13 / 1410	
Matrix (circle one) Soil Sediment Water  End Depth 10.0  Depth Units (circle one) Inches Feet	
eck if Composite DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment	
QC Type (circle one)  N FD FB RB Parent Sample ID	_
noter Vidal Cortes	
npler Vidal Cortes	

### **Analysis**

Parameters	Method	Analyze
	EPA 6010	X
Metals	EPA 6020	X
7	EPA 7471 (Soil)	X
	EPA 7470 (Water)	<del>                                     </del>
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	<del>                                     </del>
Dioxins	EPA 1613	×
PCBs/PCTs	EPA 8082	1
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	1X
Pr.	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	<del>                                     </del>

730	Parameters	Method	Analyze?
S	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ű	TPH-GRO	EPA 8015	<del>       </del>
	TPH-EFH	EPA 8015	X
70	Glycols	EPA 8015	<del>                                     </del>
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	<del>                                     </del>
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 16 oz jan & 2 Encaes

	tion (circle or		GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
		GRAVEL VATH	15-50	GW	Wet-graded GRAVEL
		• 5% FINES	\$00000	GP	Poorly graded GRAVEL
	GRAVEL AND			GW-GM	Wet-graded GRAVEL with sit
	GRAVELLY SOILS MORE THAN	GRAVEL WITH	16/	GW-GC	Well-graded GRAVEL with clay
	50% OF COARSE	BETWEEN 5% AND 15% FINES	1871	GP-GM	Poorly graded GRAVEL with eit
	RETAINED ON NO. 4 SIEVE		0	GP-GC	Pocify graded GRAVEL with play
		GRAVEL WITH	37.63	GM	Sity GRAVEL
COARSE CRAINED		± 1095 FINES		GC	Clayer GRAVEL
SOILS CONTAINS MORE THAN	SAND AND SANDY SOLS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH 15% FINES		sw	Wei-graded SAND
50% FINES				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-greded SAHD with six
				SW-SC	Wet-graded SAND with day
				SP-SM	Poorly graded SAND with sit
				SP-SC	Poorly graded SAND with day
		EAND WITH ≥ 15% FINES		SM	SHy SANO
				SC	Crayey SAND
				ML	Incorporate SIET with low planticity
		LIQUID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plasticity
FINE GRAINED	SILT			OL.	Organic SILT with low plasticity
SOILS CONTAINS MORE THAN	AND CLAY		1000	MH	Elastic inorganic SILT with moderate to high plasticit
50% FINES		LIQUID LIMIT GREATER		СН	Fat inorganic CLAY with moderate to high plasticity
		THAN 50		CH	Organic SILT or CLAY with moderate to high plasticit
		70.5	7 77 77 77 77 7		PEAT sots with high organic contents

HIGHLY CRIGANIC SOILS Y 22 22 2 PT	PEAT sols with high organic contents
Fill Material  1. Is Fill Material Present Yes (No)	Is Staining Present Yes No Color by yel (10) R/6) mother Wysl 10) R/6 on
2. Percentage Fill (%) None  3. Fill Description (circle all that apply)	Odor Goldon (IOVR 6)  1. Odor Strength (circle one)  (None) Slight Strong
Asphalt Metal Plastic	2. Odor Description (circle one)
Concrete Wood Glass  Igneous/Metamorphic Gravel N/A	Organic Petroleum Chemical  N/A Other
Other	Moisture Condition (circle one)  (Dry) Moist Wet
PG Signature William	PG Registration #
Additional Comments	

17954

NA – Not Applicable

	Location II				Subar		A JO 12	
	DG ~		<u>o</u>	D1	A 31-		A 6-19-13 6-19-13	
	Company N		DM SMI	TH Proje	ect Nam	10/#:	: 85FL-65256-63076.1203.002.223.02231.53PHS MB Total Depth: IstHA = 6.4  III Contractor/Driller: Stormannel	
	GPS collec					Dri	06/	
	<u> </u>				R=1.5	Bo		
	PID Backgr	ound:	0.0	<del>0-10-19</del>	<u> </u>		pth to GW: NA Sampling Method:	
	Radiologica						Review & Now A Slide harmones	
	/ Micro	R 🗸 .	Alpha/Be	eta 🗸 Par	cake Z		Will Soffman #7735 Geologist: David Rajar	
	Depth (feet) bgs Recovery (feet)		Radiological (µR/cpm)	0 6	Φ		\ \( \lambda \)	
	th (fa	PID (mdd)	olo Selo	Sample Name	Sample Time	SSS	Description of Materials	
	Re		E dd.	l α z	\ <sub>S</sub> ⊢	כ		
~~ · · · · · · · · · · · · · · · · · ·	1205/	0.0	13/116	SL-866	LOYD	SP	SAND MANY KURYA) I was a will	
SAMPLE	70.5	0.0	13/78	SL-866 SA5A-SB 0,0-0.5	, , , ,	-	SAND, bru (7.54R4/9) F-med que 10/sone George, pa Sv tosa, quest, dref, sli territ comparte, sli fricello to hand, few to some one (voots) 5% sit	.4
0.0-0.5	∥. ∃			0.0 0.5		9%	to hand, few to some one (roots) 45% sitt -	. (
	( -	0,0	13/78			r.ayn	SAND W/SILT, bw (7.5 YR44) Fqw W Far ant med que po sv to say quests dry comparted, sli Friedle to hand ~10% 511t, want granter graval two sizel hand	
					ĺ	ı	NIN & CITY Guets dry, compacted, sli Friend to hard	
							10 70 511, want gethere graval tuo syel haw	
	2-	0.0	13/78		ľ	\$ <b>/</b> }\	SILTY SAND, dkyelkow (104R3/6) mottled wyd (104R776)	Ø
	1						Comparted, mod trubbe to hard, ~15% 31H 2.	
	-				ļ	SM	VPLOENT L	4
	3	0.0	13/78				SILTY SAND, pun (7.5 YR 4/4) mottled 4/(10/R %) and	
		[	1		l		yel (OVR 16) F-in an W/some cocese, pg St to Sel	
	_		,	Ì	,	214	of Silty sand no dules, sa to angular sli cametel who hard to sli Friable, colors are mottling described above plus dKredfern (5 VR 3/4), to ant grants & siltstone gravel-F-med sped, ~ 1590 511+	3.5
	4 🗆	0.0	3/72		K	714	in it is to all Friends colored mottling described	
	`-		•		, c) <u>c</u>	V.	above plus direction (5 VR 3/4) trant grants	
	∄ ∣				7		& siltstone gravel-F-med sized, ~ 1590511	4.5
	5	6.0	3/64		S	W	SILTY SAND, dK yel knu (OYR 4/4) Farm, past=30,	7,5
	2 1		701				quote, dra, mod loose, mod Friable to trable	
							quete dra mod loose, mod Friedle to Frable	
VIPLE	, 🖁 📗	00/1	3/04	5L-866 SASA-SB 3-0-0-RR 1,5-6.5			C(1) (CA ) (CA ) (CA ) (A) (A) (A) (A) (A) (A) (A) (A) (A)	
5-65		0.0	701	5.6.5	112		growel, know yet (10 yR 6/4) motted us yet (10 yR 9/4),	
		_					mod well comete to mad hard, sli Frieble, dry,	20
							Somer glacet, F- med signed, mod hard to kard,	GH
l	4						Slitriable, sa to angular ~ 20% SIT -	
	]						gravel, know yet (104R 6/4) mollted if yet (104R 9/4), mod well cannot to mod had, sli Frieble, dry, - Some yet teet, F-med sized, mod had to know, - Sli Frieble, Sa to angular ~ 20% slt  Refuedle @ 6,4\$ 6.2	
							Rejusaid & Gitx 6.2	•
	]			ļ			-	
	-	İ		İ				
					-		-	
	-							
	]		1				<b>-</b>	
-	-							
	]						-	
	CDM Smith	i			BOR	RIN	G LOG AND SAMPLING RECORD Page 1 of 1	
	BBREVIATIO	NS:					Tage Lot	
an	nt: amount	gr:	grained		: poorly (			
:	coarse :: dark		light medium		d: rounde subange		V: very Wg: well graded	
	fine		d: moder		subroun			

### SSFL Phase 3 – Field Sample Data Sheet

**CDM Smith** 

	CONSTITUT
	FSDS Checked By V. Gt
Sample ID Sh-866-SA	5A-SB-0.0-0.5 Date/Time 6-19-13/1040
Matrix (circle one) Soil Sediment Water	Start Depth O.6 Depth Units (circle one) Inches Feet
Check if Composite DPT	Collection Method (circle one)  Slide Hammer Hand Auger/Slide Hammer Trenching Sediment
QC Type (circle one)  N FD FB RB	Parent Sample ID
Field Geologist Dav	id Rojan
Sampler Vida	d Covites

#### Analysis

Parameters	Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	X
Interais	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	×
PCBs/PCTs	EPA 8082	
Perchiorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
	EPA 9045 (Soil)	X
pН	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

Silving Silving Silving	Parameters	Method	Analyze?
ន	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
됴	TPH-GRO	EPA 8015	
	ТРН-ЕГН	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
453	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ħ		NOAA Status and	•
Sediment	Organotin	Trends, Krone et al.	
🐰	Methyl Mercury	EPA 1630	

2 Slidehanner sleves & 14-07 jan

L AND ELLY LS THAN OF RSE HON SOILS THAN OF TH	GRAVEL WITH  15% FINES  GRAVEL WITH BETWEEN 5% AND 15% FINES  GRAVEL WITH 10% FINES  SAND WITH 15% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT GREATER THAN 50		GW GP GW-GM GP-GC GP-GM GC SW-SM SW-SC SP-SM SP-SC SM GC ML CL OL	Wei-graded GRAVEL Poodly graded GRAVEL Wei-graded GRAVEL with sit Wei-graded GRAVEL with day Poodly graded GRAVEL with day Poodly graded GRAVEL with day Sity GRAVEL Clayer GRAVEL Wei-graded SAND Poodly graded SAND Wei-graded SAND with sit Wei-graded SAND with day Poodly graded SAND with day Poodly graded SAND with day Sity SAND Clayer SAND Clayer SAND Increased SILT with law plasticity Lean inorganic CLAY with low plasticity
ELLY LS THAN OF RSE INON ED CN MEVE  AND SOILS THAN OF RSE THAN OF RSE MEVE  T OF T OF T OF T OF T OF T OF T OF T	GRAVEL WITH BETWEEN 5% AND 15% FINES  GRAVEL WITH 2 10% FINES  SAND WITH 5% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		GW-GM GW-GC GP-GM GC SW SW-SM SW-SC SP-SM SP-SC SM CC ML CL	Well-graded GRAVEL with sit Well-graded GRAVEL with sit Poorty graded GRAVEL with sit Poorty graded GRAVEL with say Sity GRAVEL Clayer GRAVEL Well-graded SAND Poorty graded SAND Well-graded SAND with sit Well-graded SAND with sit Well-graded SAND with sit Poorty graded SAND with sit
ELLY LS THAN OF RSE INON ED CN MEVE  AND SOILS THAN OF RSE THAN OF RSE MEVE  T OF T OF T OF T OF T OF T OF T OF T	GRAVEL WITH 2 10% FINES  GRAVEL WITH 2 10% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		GW-GC GP-GM GP-GC GM GC SW SW-SM SW-SC SP-SM SP-SC SM GC ML CL	Well-graded GRAVEL with sit Well-graded GRAVEL with sit Poorty graded GRAVEL with sit Poorty graded GRAVEL with say Sity GRAVEL Clayer GRAVEL Well-graded SAND Poorty graded SAND Well-graded SAND with sit Well-graded SAND with sit Well-graded SAND with sit Poorty graded SAND with sit
LS THAN OF RSE INN IN INTERPRETATION OF RSE INN IN INTERPRETATION OF RSE IN INTERPRETATION OF REPORT OF REPORT OF REPORT OF REPORT OF REPORT OF REPORT OF REPORT OF REPORT OF RSE IN INTERPRETATION OF REPORT OF RE	GRAVEL WITH 2 10% FINES  GRAVEL WITH 2 10% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		GP-GM GP-GC GM GC SW SW-SM SW-SM SP-SC SM SC ML CL	Well-graded GRAVEL with clay Poorly graded GRAVEL with cay Sity GRAVEL Clayey GRAVEL Well-graded SAND Poorly graded SAND Well-graded SAND Well-graded SAND with sit Well-graded SAND with sit Well-graded SAND with day Poorly graded SAND with day Poorly graded SAND with eay Sity SAND Crayey SAND frompartic SILT with low plasticity Lean inorganic CLAY with low plasticity
OFF RSE HOND SOILS THAN O SOILS THAN O SOILS	GRAVEL WITH 2 10% FINES  GRAVEL WITH 2 10% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		GP-GC GM GC SW SW-SM SW-SC SP-SM SP-SC SM SC ML CL	Poorly graded GRAVEL with eit Poorly graded GRAVEL with day Sity GRAVEL Clayer GRAVEL Wet-graded SAND Poorly graded SAND Wet-graded SAND with eit Victi-graded SAND with eit Victi-graded SAND with eit Poorly graded SAND with eit Poorly graded SAND with eit Poorly graded SAND with eit Clayer SAND Clayer SAND fromgaric SILT with low plasticity Lean inorgaric CLAY with low plasticity
AND SOILS THAN OF THE MENT OF	SAND WITH 1.5% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2.15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		GM GC SW SP-SM SW-SC SP-SM SP-SC SM SC ML CL	Poorly graded GRAVEL with day Sity GRAVEL Chayey GRAVEL Wet-graded SAND Poorly graded SAND Wet-graded SAND with sit Wet-graded SAND with day Poorly graded SAND with day Poorly graded SAND with day Sity SAND Chayey SAND Incaparic SILT with low plasticity Lean inorganic CLAY with low plasticity
AND SOILS THAN OF SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	SAND WITH 1.5% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2.15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		SW-SM SW-SM SW-SC SP-SC SM SC ML CL	Sity GRAVEL Clayer GRAVEL Well-graded SAND Poonly graded SAND Well-graded SAND with sit Well-graded SAND with sit Well-graded SAND with sit Poorly graded SAND with sit Poorly graded SAND with sit Poorly graded SAND with day Sity SAND Clayer SAND frompartic SILT with low plasticity Lean inorganic CLAY with low plasticity
SOILS THAN OF RSE HON JEVE	SAND WITH 1.5% FINES  SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2.15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		SW-SM-SW-SC-SP-SC-SM-SC-ML-CL-	Clayery CRAVEL  Well-graded SAND  Poorly graded SAND  Well-graded SAND with elit  Well-graded SAND with day  Poorly graded SAND with elit  Poorly graded SAND with elit  Poorly graded SAND with day  Sity SAND  Clayery SAND  finangaric SILT with law plasticity  Lean inorgaric CLAY with low plasticity
SOILS THAN OF RSE HON JEVE	SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		SW-SM SW-SC SP-SM SP-SC SM SC ML CL	Poorly graded SAND  Well-graded SAND with sit  Well-graded SAND with day  Poorly graded SAND with sit  Poorly graded SAND with day  Sity SAND  Cayey SAND  fractionic SILT with low plasticity  Lean inorganic CLAY with low plasticity
SOILS THAN OF RSE HON SEVE	SAND WITH BETWEEN 5% AND 15% FINES  CAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		SW-SM SW-SC SP-SM SP-SC SM SC ML CL	Well-graded SAND with sit  Well-graded SAND with day  Poorly graded SAND with sit  Poorly graded SAND with day  Sity SAND  Crayey SAND  frompartic SILT with low plasticity  Lean inorganic CLAY with low plasticity
SOILS THAN OF RSE HON SEVE	EAND MITH 2 15% FINES  LIQUID LIMIT LESS THAN SO  LIQUID LIMIT GREATER		SW-SC SP-SM SP-SC SM SC ML CL	Wet-graded SAND with day Poorly graded SAND with ailt Poorly graded SAND with day Sity SAND Cayey SAND frangaric SILT with law plasticity Lean inorganic CLAY with low plasticity
THAN OF SEE THON IGON SEVE	EAND MITH 2 15% FINES  LIQUID LIMIT LESS THAN SO  LIQUID LIMIT GREATER		SP-SM SP-SC SM SC ML CL	Poorly graded SAND with elit Poorly graded SAND with day Sity SAND Clayery SAND finangaria SILT with low plasticity Lean inorgania CLAY with low plasticity
T D ON	EAND WITH 2 15% FINES  LIQUID LIMIT LESS THAN SO  LIQUID LIMIT GREATER		SP-SC SM SC ML CL	Poorly graded SAND with day Sity SAND Cayey SAND frangaric SILT with law plantally Lean inorganic CLAY with low plasticity
T 50	≥ 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		SM SC ML CL	Sity SAND Cayey SAND finangaric SILT with law plantally Lean inorganic CLAY with low plasticity
D NY	≥ 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		SC ML CL	Cayey SAND floorganic SILT with low plasticity Lean inorganic CLAY with low plasticity
D NY	≥ 15% FINES  LIQUID LIMIT LESS THAN 50  LIQUID LIMIT GREATER		ML. CL.	Cayey SAND floorganic SILT with low plasticity Lean inorganic CLAY with low plasticity
D NY	LICUID LIMIT GREATER		CL.	Lean inorganic CLAY with low plasticity
D NY	LICUID LIMIT GREATER			
D NY	LIQUID LIMIT GREATER		OL.	
Y	GREATER			Organic SILT with few plasticity
ANIC SOIL	GREATER	<i>UJJ</i>	МН	Elastic inorganic SILT with moderate to high plasticity
ANIC SOIL	I MAN EU		СН	Fat inorganic CLAY with moderate to high plasticity
ANIC SOIL			CH	Organic SiLT or CLAY with moderate to high plasticity
	LS	A CO A CO A TA TA TA	PT	PEAT sols with high organic contents
rcle all etal ood	vel N/A	ic		Color  Co
		7	1/A-	
	0	nic Gravel N/A	hic Gravel N/A	hic Gravel N/A

				DIVI DIIII(II)
	FSDS Check	ked By <u>V. Ca</u> -	L	
Sample ID SL-860	SA5A 6- <del>3B5</del> 1 - SB-5.5-6.5 AM	Date/Time	-19-13/1	115
Soil Sediment	Water End Depth		Depth Units (circ	le one) -
Check if Composite	DPT Slide Hammer Hand A	The same of the sa		ediment
QC Type (circle one) —	RB Parent Sample ID _	N4	<del>]</del>	
Field Geologist	David Rojas			
Sampler	Vidal Cortes			

Ţ	Parameters	Method	Analyze
Š		EPA 6010	X
	  Metals	EPA 6020	X
	ivictals	EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	-
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	7-3
ĺ	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	<del>- / - )</del>
	Perchlorate	EPA 314.0/331	
I	Perchlorate		
*	Confirmation	EPA 6850/6860	
I	all	EPA 9045 (Soil)	×
1	pH	EPA 9040 (Water)	
ı	Hexavalent		
ı	Chromium	EPA 7196/7199	
I	Herbicides	EPA 8151	
I	Pesticides	EPA 8081	******

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
ᇤ	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	1
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	<u> </u>
	NDMA	EPA 1625	
ţ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
X	Methyl Mercury	EPA 1630	

1 stide hauser, 1 loozjav, & 2 Encous steere

	MAJOR DIVISION		GROUP SYMBOL	LETTER SYMBOL	GROUP HAME	
		GRAVEL WITH	<b>LET</b>	GW	Was-graded GRAVEL	
,		* 5% FINES	10,540	GР	Poorly graded GRAVEL	
	GRAVEL AND GRAVELLY			GW-GM	VVell-graded GRAVEL with silk	
	SOILS MORE THAN	GRAVEL WITH		GW-GC	Well-graded GRAVEL with clay	
	50% OF COARSE FRACTION	BETWEEN 5% AND 15% FINES	1115	GP-GM	Poorly graded GRAVEL with sit	
	RETAINED ON NO. 4 SIEVE		· C-	GP-GC	Poorly graded GRAVEL with day	,
		COME WILL	502.5	GN.	Sity GRAVEL	
COARSE SOILS		CRAVEL WITH	777	GC .	Cayey GRAVEL	
CONTAINS MORE THAN		SAND WITH		SW	Well-graded SAND	
50% FINES		* 5% FINES		SP:	Poorly graded SAND	
	SAND AND SANDY SOILS MORE THAN			SW-SM	Wes-graded SANO with sit	
	MORE THAN 50% OF	SAND WITH BETWEEN 5%		SW-SC	Well-graded SAND with day	
	COARSE FRACTION PASSING ON	AND 15% FIRES		SP-SM	Poorty graded SAND with silt	
	NO. 4 SIEVE			SP-SC	Poorly graded SAND With day	
		HTIW OKA3		(Si)	Sity SAHO	
		≥ 15% FINES		sc	Cayey SAND	
				ML.	heagonic SILT with low planticity	
FINE		LESS THAN 50		CL	Lean irrengante CLAY with low plasticity	
GRAINED SOLS CONTAINS	SILT AND CLAY			ΟL	Organic SILT with low plasticity	
MORE THAT		LIQUID LIMIT GREATER THAN 50	,,,,,,,,	MH	Elastic inorganic SILT with moderate to high plasticity	
				CH	Fat inorganic CLAY with moderate to high plasticity	
				CH	Organic SILT or CLAY with moderate to high plasticity	
	KSHLY CRIGANIC SO	ils	4 44 44 X	PT	PEAT sols with high organic contents	
Fill Material				7	Is Staining Present Yes No	
s Fill Materia	il Present Y	es No			color dKyellon (10YR4/4)	
ercentage F	ill (%)	None			C Odor	
					1. Odor Strength (circle one)	
3. Fill Descrip	otion (circle a	ll that apply)			(None) Slight Stron	g
Asphalt	Metal	Plast	ic			
/ ideas				1	1	
			I		— 2. Odor Description (circle one)	
Concrete	booW	Glass	,		2. Odor Description (circle one)	
Concrete	Wood	Glass	;		Organic Petroleum Chen	
		5	,		Organic Petroleum Chen	nical
	Wood tamorphic Gra	5	; )			nical
Igneous/Me		avel N/A			Organic Petroleum Chen	nical
Igneous/Me	tamorphic Gra	avel N/A			Organic Petroleum Chen  N/A Other  Moisture Condition (circle one)	nical
Igneous/Me	tamorphic Gra	avel N/A			Organic Petroleum Chen	nical
Igneous/Me	tamorphic Gra	avel N/A			Organic Petroleum Chen  (N/A) Other  Moisture Condition (circle one)  (Dry) Moist Wet	nical
Igneous/Me Other	tamorphic Gra	avel N/A	)		Organic Petroleum Chen  N/A Other  Moisture Condition (circle one)  Dry Moist Wet	nical
Igneous/Me Other	tamorphic Gra	avel N/A			Organic Petroleum Chen  N/A Other  Moisture Condition (circle one)  Dry Moist Wet	nical

Page 1

NA - Not Applicable

FSDS Revision 2.0

5/30/2012

Santa Susana Field Laboratory/94489

	II.	ation		_		Suba		Date Started: Date 0	Completed:	
			<u>-86'</u>	7			5	A 6-20-13	6-20-13	
	#	nt: DO			Proje	ect Nan	1e/#:	88FL-85288-03376.1203.002.223.02231.99PH3 1300 Total	Depth: ノベナ ガイニング・ラ	,
	15	company Name: COM SMITH					Dri	Il Contractor/Driller: NA	2nd HA=4.5	
	GPS collected Yes or No  Radiological Background:						Dri	Il Method: Handauger & Slide Kymer Depth	Drilled Into Bedrock:	
							Bo	rehole diameter: 2.27	NA	
	- '			pment U	end:		_		ling Method:	
				Alpha/B		ıcake	100	Review & No.: Slice #7735 Geolo	behanner	
	Ð.					I	-	Geological Holos	gist: David Rojas	
	Depth (feet)	ĸ	(feet)	Rac	Sample	Sample Time	SOSI	Description of Materials		
SAMPLE		10.5	0.0	14/88	51-867 5454-88 0.0-0.5	0825	37/	SAND JSILT, lam (7.5VR 5/4) fmg dry, med compacted, slits mod fix tr ant siltstone cravel Ityel bruck mod well cometed, mod friank to ha	w To section and	+ MO% alt
0.0-0.5		4 /	2 0.0	13/84	0.0-0.5		150	dry, med compacted, slits mud Fit	able transforg (not	Σ), 70 (05.7) \$) χη Ε
	1	-	100	13/78		ĺ	SM	The ant siltstone gravel It yel bry	1.5 y 6/3), tabulan 7	20,3
	'	ゴ	10.0	19/16				mod well comeses, mod thank is ha	200,	•
	1	-						SILTY SAND, strong bun (7.5 YR46) pg, sr to a guest duy, sli tomedo friable, ~20% sitt, the and orga	) torn you and men	gun
		1		101				ficile 2209051 the part of all	vivila)	C
	2	-  <sub>6</sub> <u>4</u>	10.0	13/84				Tricale, 20 10011, 00 and out		
		<b>그 첫</b>			i			•	4	
		#AND AUGER							1	
	3.	18	0,0	13/16					4	
		- ₹					İ		1	
AMPLE.	E	7			C. 01/2	7/2/2		SILTY SAND, A. A except also has t	Tare ant of fine	<b>-</b> 2 /
3,5-4,5	HE		0.0	13/78	SK-PUT BE-FEARS	0850	SM	SILTY SAND, A. A except also has to weathered standed to a gravel - brown would have (10 yr %), f-mann, pay so certainly, sin friends to most neigh, in with depth	e(OVR 46) mottle de 1/2	Die
1		Ä		'~	3,5 4.5		ŀ	certification, sty friends to most hand, in	Kreases to town in	æ.
		4	00					with lepth		
	-	]	1	121.				RA 1.04511	1 C	4,5
	-	┨		13/102		ì	-	Refusalsi@ 4.5 \$ 4	~J . ]	
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	CD Sn	M niti	h			BOF	RIN	G LOG AND SAMPLING RECORD	Page 1 of 1	
		VIATIO				<del></del>				:
	nt: am coarse			r: grained : light		: poorly d: round				
dk	र: dark		n	n: medlum	sa	a: round : subang		v: very wg: well graded		
<u>[f:</u>	fine		n	rod: mode	rate sr:	subrou	nded	ф: dlameter bgs:below ground surface		

Locati	on ID:				Subare	ea:		Date Started:		Date Complet	ed:	
Projec	t: SSF	·L			<u> </u>			Geologist:		Total Depth:		
Depth (feet) bgs		Old (mdd)	Radiological (µR/cpm)	Sample Name	Sample Time	SOSA		Descrip	otion of Ma			
			Rac									
CD Sn	M hiti	1			во	RIì	NG LO	G AND SAMPLING	RECO	RD	Pageof	.

	FSDS Checked By	Vigto
Sample ID SL-867-SA5	A-SB-0.0-0.5 Date/T	ime_6-20-13/0825
Matrix (circle one) Soil Sediment Water	Start Depth O.5	Depth Units (circle one) -
Check if Composite DP		od (circle one)  Hammer Trenching Sediment
QC Type (circle one) ————————————————————————————————————	Parent Sample ID	NA
Field GeologistDaw	ed Rojas	
SamplerVida	al Cortes	

Parameter:	s Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	X
ivictals	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	Х
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
рН	EPA 9045 (Soil)	X
μπ 	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

	Parameters	Method	Analyze?
ង	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ᇤ	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
dişiy	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
157 157	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 Slidehammer Sleeves & 1 4 or jar

GROUP NAME

Soil Classification (circle one)

AVEL AND RAVELLY SOILS SOILS NETHAN 50% OF COARSE RACTION TAMED ON TAMED ON TAMED AND AND NOY SOILS NETHAN 50% OF COARSE THAN 50% OF COARSE THAN 50% OF SOILS NETHAN 50% OF SOILS NETHAN 50% OF SOILS NETHAN 50% OF COARSE SIEVE	GRAVEL WITH 1.5% FINES  GRAVEL WITH BETWIED 5% AND 15% FINES  GRAVEL WITH 1.5% FINES  SAND WITH BETWIED 5% AND 15% FINES  SAND WITH 2.15% FINES  LIQUID LIMIT LESS TPAN 50  LIQUID LIMIT GREATER		GW GP GW-GM GW-GC GP-GM GC SW SW-SC GP-SM SP-SC SM SC CL CL CL	Wes-graced GRAVEL Poorly graded GRAVEL Wes-graded GRAVEL with sit West-graded GRAVEL with sit West-graded GRAVEL with sit Poorly graded GRAVEL with sit Poorly graded GRAVEL with sit Poorly graded GRAVEL Clayey GRAVEL West-graded SAND Poorly graded SAND West-graded SAND West-graded SAND with sit Visit-graded SAND with sit Poorly graded SAND with sit sit sit sit sit sit sit sit sit sit
RAVELLY SOILS SOILS SOILS SOILS SOILS SOILS RETHAN SOILS AND AND NOY SOILS SOILS SOILS SOILS COARSE RACTION SOILS	GRAVEL WITH BETWEEN 5% AND 15% FINES  GRAVEL WITH _ 16% FINES  SAND WITH - 15% FINES  SAND WITH BETWEEN 5% AND 15% FINES  SAND WITH _ 15% FINES  LIQUID LIMIT LESS THAN 50		GW-GM GW-GC GP-GM GP-GC GW SW SP SW-SM SW-SC SP-SC SM CC	Well-graded GRAVEL with sit  Well-graded GRAVEL with sit  Poorly graded GRAVEL with sit  Poorly graded GRAVEL with sit  Poorly graded GRAVEL  Well-graded SAND  Poorly graded SAND  Well-graded SAND with sit  Viell-graded SAND with sit  Poorly graded SAND with sit
RAVELLY SOILS SOILS SOILS SOILS SOILS SOILS RETHAN SOILS AND AND NOY SOILS SOILS SOILS SOILS COARSE RACTION SOILS	BETWEEN 5% AND 15% FINES  GRAVEL WITH _ 10% FINES  SAND WITH 15% FINES  SAND WITH BETWEEN 5% AND 15% FINES  SAND WITH LESS THAN 50  UQUID LIMIT		GW-GC GP-GM GP-GC GM GC SW SP SW-SM SW-SC SP-SC SM GC SM GC SW-SC	Weit-graded GRAVEL with elay Poorly graded GRAVEL with eld Poorly graded GRAVEL with eay Sity GRAVEL Clayey GRAVEL Weit-graded SAND Poorly graded SAND Weit-graded SAND Weit-graded SAND with eld Vieit-graded SAND with eld Poorly graded SAND with eld Poorly graded SAND with elay Poorly graded SAND with elay Sity SAND Clayey SAND fixuyurid SILT with low plasticity
AND AND AND NOY SOILS THAN SON OF COARSE MACHINA TAMED ON 3.4 SIEVE	BETWEEN 5% AND 15% FINES  GRAVEL WITH _ 10% FINES  SAND WITH 15% FINES  SAND WITH BETWEEN 5% AND 15% FINES  SAND WITH LESS THAN 50  UQUID LIMIT		GP-GM GP-GC GM GC SW SP SW-SM SW-SC SP-SC SM SC ML CL	Poorly graded GRAVEL with sit  Poorly graded GRAVEL with day  Sity GRAVEL  Clayery GRAVEL  Well-graded SAND  Poorly graded SAND  Well-graded SAND with sit  Well-graded SAND with sit  Poorly graded SAND with sit  Poorly graded SAND with sit  Poorly graded SAND with sit  Poorly graded SAND with sit  Clayery SAND  fixayaride SILT with low plasticity
COARSE MACTICM TAMED CN  3.4 SIEVE  AND AND NOY SOILS WE THAN SON OF COARSE RACTION SINO ON  SILT AND	GRAVEL WITH  ± 100 FINES  SAND WITH  5% FINES  SAND WITH  BETWEEN 5%  AND 15% HIRES  \$ AND WITH  ≥ 15% FINES  LIQUID LIMIT  LESS TPAN 50		GP-GC GM GC SW SP-SM SP-SC SM SC GP-SM CC	Poorly graded GRAVEL with day Sity GRAVEL Clayey GRAVEL Well-graded SAND Poorly graded SAND Well-graded SAND with set Vicel-graded SAND with set Poorly graded SAND with set Poorly graded SAND with set Poorly graded SAND with set Clayey SAND Incayarid SILT with low plasticity
AMO AND AND NOY SOILS WE THAN SOILS COARSE RACTION SILVE	SAND WITH  SAND WITH  SAND WITH  BETWEEN 5%  AND 15% FINES  SAND WITH  ≥ 15% FINES  LIQUID LIMIT  LIQUID LIMIT  LIQUID LIMIT		GM GC SW SP SW-SM SW-SC GP-SM SP-SC SM GC GC	Sity GRAVEL Chyey GRAVEL Well-graded SAND Poorly graded SAND Well-graded SAND with sit Well-graded SAND with sit Well-graded SAND with sit Poorly graded SAND with sit Poorly graded SAND with sit Poorly graded SAND with clay Sity SAND Clayey SAND Inxayaric SILT with low plasticity
ONE THAN SON OF COARSE RACTION SSING ON A SIEVE	SAND WITH  SAND WITH  SAND WITH  BETWEEN 5%  AND 15% FINES  SAND WITH  ≥ 15% FINES  LIQUID LIMIT  LIQUID LIMIT  LIQUID LIMIT		SP-SM SP-SC SP-SM SP-SC SP-SC SM CC	Clayey GRAVEL  Well-graded SAND  Poorly graded SAND  Well-graded SAND with sit  Well-graded SAND with sit  Poorly graded SAND with sit  Poorly graded SAND with sit  Poorly graded SAND with clay  Sity SAND  Clayey SAND  fixayaric SILT with low plastally
ONE THAN SON OF COARSE RACTION SSING ON A SIEVE	SAND WITH  SAND WITH  SAND WITH  BETWEEN 5%  AND 15% FINES  SAND WITH  ≥ 15% FINES  LIQUID LIMIT  LIQUID LIMIT  LIQUID LIMIT		SW SP SW-SM SW-SC SP-SC SM SC ML CL	Well-graded SAND Poorly graded SAND Well-graded SAND with sit Well-graded SAND with sit Poorly graded SAND with sit Poorly graded SAND with sit Poorly graded SAND with day Sity SAND Clayery SAND fixaryands SILT with low plasticity
ONE THAN SON OF COARSE RACTION SSING ON A SIEVE	SAND WITH BETWEEN 5% AND 15% FINES  SAND WITH  \$ 15% FINES  LIQUID LIMIT LESS THAN 50		SP-SM SP-SC SP-SC SM SC SC	Poonly graded SAND  Well-graded SAND with set  Viell-graded SAND with set  Poonly graded SAND with set  Poonly graded SAND with set  Poonly graded SAND with clay  Sity SAND  Crayery SAND  Incarparic SILT with low plasticity
ONE THAN SON OF COARSE RACTION SSING ON A SIEVE	SAND WITH BETWEEN 5% AND 15% FINES  SAND WITH  \$ 15% FINES  LIQUID LIMIT LESS THAN 50		SW-SM SW-SC SP-SC SM SC ML CL	West-graded SAND with set  Viest-graded SAND with clay  Poorly graded SAND with set  Poorly graded SAND with clay  Sity SAND  Crayery SAND  Incayarid SILT with low plasticity
ONE THAN SON OF COARSE RACTION SSING ON A SIEVE	BETWEEN 5% AND 15% FINES  SAND WITH  ≥ 15% FINES  LIQUID LIMIT  LESS THAN 50  UQUID LIMIT		SW-SC SP-SC SM SC ML Ct	Vieli-graded SAND with clay Poorly graded SAND with silt Poorly graded SAND with clay Sity SAND Crayey SAND Incayaric SILT with low plasticity
ONE THAN SON OF COARSE RACTION SSING ON A SIEVE	BETWEEN 5% AND 15% FINES  SAND WITH  ≥ 15% FINES  LIQUID LIMIT  LESS THAN 50  UQUID LIMIT		(S) SP SS SS SS SS SS SS SS SS SS SS SS SS	Pochy graded SAND with silt Posity graded SAND with clay Sity SAHD Crayery SAND fixaganic SILT with low plasticity
COARSE RACTION SSING ON 0. 4 SIEVE SILT AND	BETWEEN 5% AND 15% FINES  SAND WITH  ≥ 15% FINES  LIQUID LIMIT  LESS THAN 50  UQUID LIMIT		SP-SC SM SC ML CL	Pochy graded SAND with silt Posity graded SAND with clay Sity SAHD Crayery SAND fixaganic SILT with low plasticity
SILT AND	≥ 15% FINES  LIQUID LIMIT LESS TPAN 50  LIQUID LIMIT		SP-SC SM SC ML CL	Poorly graded SAND with day Sity SAND Crayery SAND Incapario SILT with low plasticity
ANO ]	≥ 15% FINES  LIQUID LIMIT LESS TPAN 50  LIQUID LIMIT		SM SC ML CL	Sity SAND Crayey SAND fixayaric SILT with low plasticity
ANO ]	≥ 15% FINES  LIQUID LIMIT LESS TPAN 50  LIQUID LIMIT		Cr %	Crayery SANO fixasyanic SILT with low plasticity
ANO ]	LESS THAN 50		ML CL	fixayaric SILT with low plasticity
ANO ]	LESS THAN 50		CL	
ANO ]	LIQUIDLIMIT			cean anguite CEAT with ow passedy
ANO ]	LIQUID LIMIT GREATER	mini		Clementa Cit 7 with town start site
	LIQUID LIMIT GREATER			Organic SILT with low plasticity
	GREATER		MH	Elastic inorganic SILT with moderate to high plasticity
	GREATER THAN 50		сн	Fat morganic CLAY with moderate to high plasticity
			сн	Organic SILT or CLAY with moderate to high practicity  PEAT sole with high organic contents
Metal Wood  prphic Gra	Plast Glass	ic		Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemical  N/A Other  Moisture Condition (circle one)  (Dry) Moist Wet
s_	Offner O	NA-		PG Registration # 7735
	circle al Metal Wood Orphic Gra	(circle all that apply)  Metal Plast  Wood Glass  orphic Gravel  Stone Gravel	sent (Yes) (No Trace  (circle all that apply)  Metal Plastic  Wood Glass  orphic Gravel  Stone Gravel	sent (Yes) (NOTE Trace)  (circle all that apply)  Metal Plastic  Wood Glass  orphic Gravel  Stone Gravel

33FL	Phase 3 – Field Sample Data Sheet  CDM Sr	nith
·	FSDS Checked By V. Cots	
Sample ID SL-867-8	BASA -SB -3.5 -4.5 Date/Time 6-20-13 / 0850	
Matrix (circle one) Soil Sediment Water	Start Depth	)
Check if Composite DPT	Collection Method (circle one)  Slide Hammer Hand Auger/Slide Hammer Trenching Sedimen	nt
QC Type (circle one)  N FD FB RB	Parent Sample ID	
Field GeologistDavid	Rojas	
ampler Vidal	Cortes	

Sampler

Paramet	ers Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAH <sub>5</sub>	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
На	EPA 9045 (Soil)	/X
bu	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	1

27.52	Parameters	Method	Analyze?
ន	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
Щ	TPH-GRO	EPA 8015	X
W.	TPH-EFH	EPA 8015	X'
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
24 (Z)	NDMA	EPA 1625	
Ě		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
X	Methyl Mercury	EPA 1630	<del> </del>

2 slidehammer skers, 1-40xjon, & 2 Emeries

	tion (circle or MAJOR DMSION		GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
		GRAVEL WITH		GW	We3-graded GRAVEL
		• 5% FINES		GP	Poorly graded GRAVEL
•	GRAVEL AND GRAVELLY		1941	GW-GM	Wei-graded GRAVEL with sit
	SOILS MORE THAN	GRAVEL WITH		gw-gc	Well-graded GRAVEL with clay
	50% OF COARSE FRACTION	BETWEEN 5% AND 15% FINES	175	GP-GM	Poorly graded GRAVEL with sit
	RETAINED CH NO. 4 SIEVE		0	GP-GC	Pocify graded GRAVEL with day
		GRAVEL VATH	id His	GMI	Sity GRAVEL
COARSE GRAINED SOILS CONTAINS CONTAINS MORE THAN 50% FINES		GRAVEL WITH		GC	Clayey GRAVEL
	SAMD AND SANDY SOILS MORE THAN MORE THAN SON OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SANO WITH * 5% FINES		SW	Weil-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% PINES		SW-SM	Wes-graded SANO with sit
				sw-sc	Well-graded SAND with day
				SP-SM	Poorty graded SAND with sit
				SP-SC	Poorly graded SAND with day
		EAND WITH ≥ 15% FINES		(34)	SHY SAND
				5C	Crayey SAND
				M2L	hooganic SILT with keep planticity
		LIQUID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plasticity
FINE. GRAINED SOILS	SILT			OL.	Organic SILT with low plasticity
CONTAINS MORE THAN	CLAY			МН	Elastic inorganic SILT with moderate to high plasticity
50% FINES		LIQUID LIMIT GREATER THAN 50		сн	Fat inorganic CLAY with moderate to high plasticity
		164470		сн	Organic SILT or CLAY with moderate to high placeon
r	SIGHLY ORGANIC 50	OILS.	26 27 27	'I et I	PEAT sots with high organic contents

HIGHLY ORGANIC SOILS	PEAT sold With high organic contents
1. Is Fill Material Present Yes No  2. Percentage Fill (%)	Is Staining Present Yes (No) bounged  Color Strong bon (75 YR4/6) & (10 YR 1/6) mottled  Color with yel bon (10 YR 1/8)
3. Fill Description (circle all that apply)  Asphalt Metal Plastic	None Slight Strong
Concrete Wood Glass	Organic Petroleum Chemical  N/A Other
Igneous/Metamorphic Gravel (N/A) Other	Moisture Condition (circle one)  Ory  Moist Wet
PG Signature Will Legistren Additional Comments	PG Registration # 7735

Santa Susana Field Laboratory/94489

	Loca	tion II	);		-	Suba	rea:	Date Started: Date Completed:	<del></del>		
	T)	(Co 8	36	<b>3.</b> -			51				
	Clien	t: DO	E	<del></del>	Proj	ect Nan	1e/#:	9SFL-66258-63376-1203:002:2231:9SPH3-1351a Total Depth: 1 St HA= 4	ر له		
				ерју ѕмі	TH		Dr	Il Contractor/Driller: $\Lambda/\Lambda$			
	GPS	collec	teday	es ør No	11		Dr	Il Method: Strange A - Denth Drilled into Bodresky			
	Radio	ologic	al Baci	(ground:	X= 13 4	9-100	50	Tenole diameter: 2,75			
				O,O pment Us	2041			pth to GW: NA Sampling Method:			
					eta 🔽 Pai	ncake	200	Review & No. Harden #7735 Geologist D. 12	ب		
		1					$\vdash$	Mull Hafforn # 735 Geologist: David Rojas	_		
	Depth (feet) bgs	Recovery (feet)	DIA (maa)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	2			
	p de	Sec.	ق ۵	udio JuRy	San	San	13	Description of Materials			
45	₩ <u>₩</u>		00	13/0	CO COC	000	L-13.	,			
SAMPL		13.5	0.0	13/41	SL-866 SA5A-33 00-05	OCPO	汉	SAND with SILT, It yel born (IDYRY4) mottled cycyl bu			
0.0-0.5	] 4			1760	0005			(104R 5/4) Form of few to some med ging to create your pages of some of the sold to be some med ging to create your pages of the sold to sold	0.5		
	=	1		13/108			1	mid friends to friends, dry < 5% siltstone & south	and Jarohett		
		l					ויאגיי	(grown + to consersized, to to fow on trong (roots), din			
	-	ŀ	ļ					SAND with SILT A.A. except strong bond 7.5 YR = mottled wy It bun (7.5 YR 6/4), Also centains 5iltstor & Sandstone A.A. & organization of the contains 5iltstores of the contains 5ilts	k) //		
	2-		0.0	13/92			SM	+ Sandation (7.5 YR 6/4) Also centain silts to	3-1.6		
		RY.									
		AUGER						yel (7.5 YR %) Form of Fees malary pa; Sr to sa go	ŧ		
	3	<i>Y</i>	0:0	13/100				July, 20% 511+ ined compacted to well compact	skt		
	-	Ũ					SM	yel (7.5 YR 16), Form y Few malgan, pg, 9r to sa go our, 120%, 511+ med compacted to well compact mod frichte to cont one (voods) I to ant sittestoned so few 511ty sand nedulus becomes more prevalent y dep notulus are medwell to well compacted, hard to shi to	inguit 32		
		HAND						norther are med well to well comments, hard to slift	ebl.		
	4 ,,	I	0.0	13/24		Į		Slighty clayers of low photest stiff,			
j	' 🛭				SA-ELE SASASB	1025	52		4.0		
MPLE					<i>こ</i> れりれつり 4.ひ・5.6	ľ	"	Comp. Made 1000 to 100			
5,0	5		0,0	13/100			_	SAND, but yel (IOYR 16) mottled W/U pale bum (IOYR	(1/4)		
	э <u>Т</u>					Ì		fam if few med and to crowcom, Da, Sr to sa, gen med loose, dry, to and weathers sitty sandstone	5, 0-5.0		
	1			İ		ı		or to so I be to and weather stry sometime	Salse)		
	-							Sr to sa, fine to med sizel, used people cemeted, Fi	metric.)		
	7	1	l	İ				DP 10/10/49			
				ĺ				Refusals@ 4.8 & 4.9			
	4							-			
1	4	Ì					Ì				
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	CDM BORING LOG AND SAMPLING RECORD Page 1 of 1										
L	BBREV							G LOG AND SAIVIPLING RECORD Page 1 of _1			
ar	nt: amou		gr	: grained		: poorly		ed t: trace nr:no recovery			
16	coarse : dark			light : medium		d: round : subang		v: very wg: well graded			
	fine			od: moder	ate sr:	subrour		φ; diameter has help w ground surface	!		

Locati	on ID:					Subare	ea:	Date Started:	Date Compl	eted:
Projec	t: SSF	:L				J		Geologist:	Total Depth	
Depth (feet) bgs	Recovery (feet)	PID	. (mdd)	Radiological (µR/cpm)	Sample Name	Sample Time	SOSN	Description	n of Materials	
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CD Sn	'nit	h				BC	RII	NG LOG AND SAMPLING F	RECORD	Pageof

	FSDS Checked By V. Co. Vo
Sample ID	A5A-SB-0:0-0.5 Date/Time 6-20-13/0950
Soil Sediment Water	Start Depth
Check if Composite DPT	Collection Method (circle one)  Slide Hammer Hand Auger/Slide Hammer Trenching Sediment
QC Type (circle one)  N FD FB RB	Parent Sample ID
Field Geologist David R	Djas
SamplerVidal C	Portes

	Parameters	Method	Analyze?
		EPA 6010	X
Marala	Metals	EPA 6020	X
	Interaiz	EPA 7471 (Soil)	Х
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM (	, ,
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate		
	Confirmation	EPA 6850/6860	
	На	EPA 9045 (Soil)	X
	Pu	EPA 9040 (Water)	
3.00	Hexavalent		
Ç	Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
ř	Pesticides	EPA 8081	

00-6	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
iği.	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 sliddremmen sleever & 1 Hoxjan

GROUP NAME

Soil Classification (circle one)

NA - Not Applicable

MAJOR DIVISION

			SYMBOL	SYMBOL	SKOCH NAME
		GRAVEL WITH		GW	We's graded GRAVEL
		· 5% FINES	10 C.C	GР	Poorly graded GRAVEL
	GRAVEL AHD GRAVELLY			GW-GM	Well-graded GRAVEL with silt
	SOILS MORE THAN	GRAVEL WITH	1 1/1	GW-GC	Well-graded GRAVEL with day
	50% OF COARSE	BETWEEN 5% AND 15% FINES	RIVER	G₽-GM	Poorly graded GRAVEL with sit
	PHACTION RETAINED ON NO. 4 SIEVE			GP-GC	
	NOCH SILVE		1000		Pocity graded GRAVEL with day
COARSE GRAINED SOILS CONTAINS MORE THAN SO'S FINES		GRAVEL WITH	1900	GM	Sity GRAVEL
SOILS				GC C	Coyey GRAVEL
MORE THAN 50% FINES		SAND WITH		SW	Wet-graded SAND
			2000000	SP	Poorly graded SAND
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE			SW-SM	Well-graded SAND with sit
		SAND WITH BETWEEN 5% AND 15% HINES		SW-SC	Well-graded SAND with day
	FRACTION PASSING ON NO. 4 SIEVE			SP-SM	Pocity graded SAND with silt
	NO. 4 SIEVE			SP-SC	Poorly graded SAND with day
		SAND WITH		SM	Sity SAND
		≥ 15% FINES		sc	Crayey SAND
				ML	hangaric SILT with few planticity
		LIQUID LIMIT LESS THAN 50		CL	Lean increaric CLAY with low plasticity
GRAMED	SILT			OL.	Organic SILT with low plasticity
GRAINED SOILS CONTAINS MORE THAN	AND CLAY		ПППП	мн	Electic inorganic SILT with moderate to high plasticity
50% FINES		LIQUID LIMIT GREATER		СН	Fat inorganic CLAY with moderate to high plasticity
ļ		THAN 50	4444	сн	
His	HLY CREANES SOF	1.5	######################################	PT	Organic SILT or CLAY with moderate to high plasticity  PEAT sola with high organic contents
Is Fill Material  Percentage Fill  3. Fill Descript  Asphalt  Concrete  Igneous/Meta	ion (circle al Metal Wood	1 that apply) Plasti Glass	400 - 200		Color (Velkum (OVR 44) mills) 4/49 (2) 10  Odor (10 VR 5/4)  1. Odor Strength (circle one)  None Slight Strong  Organic Petroleum Chemical  N/A Other  Moisture Condition (circle one)
Signature diditional Commo	Mil J	Spress			Dry Moist Wet  PG Registration #

0.000

3:05 Revision 3:0 5/30/2012

### SSFL Phase 3 - Field Sample Data Sheet **CDM Smith** FSDS Checked By VCt Sample ID Sh-868-SA5A-SB-4.0-5.0 Date/Time 6-20-13/1025 Start Depth\_\_\_\_\_\_\_4,0 Matrix (circle one) Depth Units (circle one) -Soil) Sediment Water Inches (Feet) End Depth \_ 5.0 Collection Method (circle one) **Check if Composite** DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment QC Type (circle one) NIA Parent Sample ID \_\_\_\_\_ (N) FD RB David Rojas Field Geologist\_\_\_\_\_

Vidal Cortes

### **Analysis**

Sampler \_\_\_\_\_

Parameters	Method	Analyze
	EPA 6010	X
Metals	EPA 6020	X
WICCOIS	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	×
PCBs/PCTs	EPA 8082	<u></u>
Perchlorate	EPA 314.0/331	
Perchlorate	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Confirmation	EPA 6850/6860	
рН	EPA 9045 (Soil)	×
pri	EPA 9040 (Water)	· · · · · · · · · · · · · · · · · · ·
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	<del></del>

2275	Parameters	Method	Analyze?
ន	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	T
9	TPH-GRO	EPA 8015	X
	ТРН-ЕҒН	EPA 8015	マン
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	··
	Nitrates	EPA 300.0/9056	<del></del>
	Energetics	EPA 8330	
45.75	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	·-
Sediment	Organotin	Trends, Krone et al.	
š	Methyl Mercury	EPA 1630	

2 55 NECOES, 2 ENGRES,

LETTER SYMBOL

GROUP NAME Wei-graded GRAVEL

Poorly graded GRAVEL

45/35 Revision 344

5/30/2012

GROUP SYMBOL

GRAVEL WITH

\* 5% FINES

Soil Classification (circle one)

NA - Not Applicable

MAJOR DIMSION

GRAVEL AND GRAVEL AND GRAVEL WITH CONTROL WITH CONTROL							
SOURCE STATE OF TH				74.37	GW-GM	Well-graded GRAVEL with silt	
SOURCE PROVIDED AND THE PROVIDED BY ASPECT THAT SOURCE SOU		SOILS	GRAVEL WITH	10/	GW-GC	Well-graded GRAVEL with day	
SOULS SOuls SOuls Souls		50% OF COARSE	BETWEEN 5% AND 15% FINES	13116	GP-GM	Poorty graded GRAVEL with sit	
SAND WITH STATE OF THE STATE OF		RETAINED ON			GP-GC	Pocrty graded GRAVEL with day	
SAME AND SALES SOLES CONTROLL SOLES SOLES CONTROLL SOLES SOLES CONTROLL SOLES SOLES CONTROLL SOLES SOLES CONTROLL SOLES SOLES CONTROLL SOLES SOL		110:40:212		7.3.7	GΙΛ		
SOUR MARKET HAVE SOUR PIPES  SOURCE THAT SOUR PIPES  SAND AND SAND	erare5		GRAVEL WITH	22777			
SAME PLANTS  SAME	SOILS CONTAINS		<u> </u>	rais			
SAND WITH SAND W	MORE THAN 50% FINES		SAND WITH 15% FINES				
SAND WITH STATE SAND WITH							
PRINCE PRINCE  FRACTION FROM SITURATION FROM SITURATION SM SITURATION FROM SIT		SAIND AND SAIND SOILS MORE THAN					
SP-SC Poolity graded SAND with day  SP-SC Poolity graded SAND with day  SP-SC Cayery SAND  Cayery SAND  LLCG/ID LINAT LLCS/II DIANT LLCS/II DIANT CL. Lean integrate CLAY with respectably LLCS/II DIANT LLCS/II DIA		50% OF	BETWEEN 5%				
SAND WITH    1506 FINES   SC   Copyey SAND   Copyey Sand		PASSING CN	ALC ISATILES				
FILE GRAPHED G		NO. 4 SIEVE		1///			
FINE GRAPHED CATTAINS MORE THAN 50 CL. Lean increase SILT with two phasticity  CONTRAINS MORE THAN 50 CLAY with moderate to high plasticity  CH Felt recipilis CLAY with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  CH Corpore SILT with moderate to high plasticity  FEAT Softs with INSIN organic CLAY with moderate to high plasticity  FIII Material  Is Staining Present Yes  Color  Color  1. Odor Strength (circle one)  None Slight Strong  A MORE SIGNED  Color Material Present Yes  Odor  2. Odor Description (circle one)  Organic Petroleum Chemical  WA Other  Moisture Condition (circle one)  Ory Moist Wet  PG Registration #			SAND WITH > 15% FINES	777777			
FILE GRAPHED G	1 GRAINED				}		
Color Strength (circle one)  Asphalt Metal Plastic  Concrete Wood Glass  Igneous/Metamorphic Gravel N/A  Other  Misture Condition (circle one)  Other  Mosture Condition (circle one)  Other	ļ		LICEUSLINIT		ļ		
SOUR STATES OF THE STATES OF T	GRAINED SOILS CONTAINS MORE THAIL		LESS THAN 50		CL		
LICKUPLENT CREATER THAN SO CH Feat morganic CLAY with moderate to high plasticity  HIGHLY CREATER THAN SO CHAN THAN SO CHAN THAN THAN THAN THAN THAN THAN THAN T		SILT			OL	Grganic SILT with low plasticity	
CH Pet horganic CLAY with moderate to high plasticity  HIGHLY CRISANSC SOILS CH CHAPTED PT PEAT sole with high organic contents  Is Staining Present Yes No  Color Color Color Color Contents  Separate Sill (%)  Asphalt Metal Plastic  Concrete Wood Glass  Igneous/Metamorphic Gravel N/A  Other Moisture Condition (circle one)  Other Moisture Condition (circle one)  Other Moisture Condition (circle one)  Other Moisture Condition (circle one)  Organic Petroleum Chemical  N/A  Other Moisture Condition (circle one)  Organic Petroleum Chemical  Other Moisture Condition (circle one)  Organic Petroleum Chemical  Other Moisture Condition (circle one)  Organic Petroleum Chemical  Other Moisture Condition (circle one)  Organic Petroleum Chemical  Other Moisture Condition (circle one)  Organic Petroleum Chemical  Other Moisture Condition (circle one)  Organic Petroleum Chemical  Other Moisture Condition (circle one)  Organic Petroleum Chemical		CLAY	LICKUID LIMIT		I/H	Elastic inorganic SILT with moderate to high plasticity	
HIGHLY CRISANIC SCILLS    HIGHLY CRISANIC SCILLS   PT   PEAT sols with High organic contents   Is Staining Present   Yes   No			GREATER THAN 50		СН	Fat inorganic CLAY with moderate to high plasticity	
Staining Present Yes No   Color   Strength (circle one)   Concrete   Wood   Glass   Igneous/Metamorphic Gravel   N/A   Other					СН	Organic SILT or CLAY with moderate to high plasticity	
Color Sur yel (IONR 1) mothed where the color strength (circle one)  Odor  1. Odor Strength (circle one)  None Slight Strong  Concrete Wood Glass  Igneous/Metamorphic Gravel N/A  Other  Moisture Condition (circle one)  Organic Petroleum Chemical  N/A Other  Moisture Condition (circle one)  Ory Moist Wet  PG Registration #  PG Registration #  PG Registration #  PG Registration #  PG Registration #	н	IGHLY ORGANIC SC	als		PT	PEAT sols with high organic contents	
Signature PG Registration # 7735	- 3. Fill Descrip	otion (circle a	Plast	tic	e contra e contra e	Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)	
	-			)		N/A Other	

Page 2

	Location ID:								Date Starte			D	ate Compl	eted:			
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			DOE			Proje	ct Nam	e/#:	66FL-65268	-63376.1203.00	2.223:02	281.SSPH3.	BTO	otal Deptis	TOPC =	3.2	
	Company Name: CDM SMITH							me/#; sert-65268-63376.1203.002.223.02231.6SPH3 $AB$ Total Depths DPT = 3.2 and DPT =						3,4			
	GPS collected? (Tes or No							Dri	II Method	TOPT	<u> </u>	a como	D	<del>ی</del> epth Drille	d into Bedr		
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	Radiological Equipment					ed:		_	Review 8					DPT S	_		
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	Depth (feet)	sbq	Recovery (feet)	PID (mdd)	Radiological (µR/cpm)	Sample Name	Sample Time	SOSO	A COLOR OF THE COL	æ	D	escription o	of Mate	rials		1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
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Location iD:			Subarea:			Date Started:				Date Completed:					
Projec	t: SSF	L						Geolog	ist:			Total Dep	oth:		
Depth (feet) bgs	Recovery (feet)	QId QId	Radiological (µR/cpm)	Sample Name	Sample Time	USCS				Descrip	tion of Ma	• • • • • • • • • • • • • • • • • • • •			
			X.		BOF	RIN	G LOG	AND	SAMI	PLING	RECOF	RD.	Page	of	

### SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

	FSDS C	hecked By Thu	Hursalla
Sample ID SL-869-S	45A-SB-0.0-0.5	Date/Time ರಿ	u 14-13 /0955
Matrix (circle one) Soil Sediment Wat		5.0 g,5	Depth Units (circle one) - Inches Feet
Check if Composite		llection Method (circle o	•
QC Type (circle one) FD FB	RB Parent Sample I	Δ	JA
Field Geologist	David Rojas		
Sampler	John Halseth		

### Analysis

	Parameters = ==	- Method	Analyze?
185		EPA 6010	X
	Metals	EPA 6020	Х
	METAIS	EPA 7471 (Soil)	X
l		EPA 7470 (Water)	
I	Fluoride	EPA 300.0/9056	
Ŀ	SVOCs	EPA 8270	
-	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
1	Dioxins	EPA 1613	X
ı	PCBs/PCTs	EPA 8082	
1	Perchlorate	EPA 314.0/331	
Ī	Perchlorate		
k	Confirmation	EPA 6850/6860	
	-11	EPA 9045 (Soil)	X
ľ	H	EPA 9040 (Water)	
Ī	-lexavalent		
k	Chromium	EPA 7196/7199	
ſ	Herbicides	EPA 8151	
Ī	Pesticides	EPA 8081	

	Parameters		Analyze?
ន	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
튭	TPH-GRO	EPA 8015	·
74-X-2	TPH-EFH	EPA 8015	X
37.00	Glycols	EPA 8015	
4	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
444	NDMA	EPA 1625	
Ě		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 DPT SS Sleeves & 1 4-0x jan

	MAJOR DIVISION		GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
		GRAVEL WITH		GW	Wet-graded GRAVEL
		* 5% FINES	35,550	GP.	Poorfly graded GRAVEL
	GRAVEL AHD GRAVELLY SOILS MORE THAN 50% OF COARSE HACHON RETAMIED ON NO. 4 SIEVE		1741	GW-GM	Well-graded GRAVEL with silt
		GRAVEL WITH BETWEEN 5%	は例	GW-GC	Well-graded GRAVEL with clay
		AND 15% FINES	1110	GP-GM	Poorly graded GRAVEL with sit
			io III	G₽-GC	Poorty graded GRAVEL with day
COARSED SOILS CONTAINS MORE THAN SO% FINES		GRAVELWITH	0.50	GM	Sity GRAVEL
		E 1616 FINES		ec ec	Clayey GRAVEL
		SAND WITH		SW	Weil-graded SAND
		* 5% FINES		se	Poorly graded SAND
	SAND AND SANDY SOILS			SW-SM	Wei-graded SANO with eit
	MORE THAN 50% OF COARSE FRACTION PASSING ON	SAND WITH BETWEEN 5% AND 15% HINES		sw-sc	Well-graded SAND with day
				SP-SM	Pocify graded SAND with sit
	NO.4 SIEVE			SP-SC	Poorly graded SAND with day
		SAND WITH		GROUP NAME  GW Wei-graded GRAVEL  GW-GM Wei-graded GRAVEL with sit  GW-GM Wei-graded GRAVEL with sit  GW-GC Wei-graded GRAVEL with sit  GP-GM Poorly graded GRAVEL with sit  GP-GC Poorly graded GRAVEL with sit  GP-GC Poorly graded GRAVEL with say  Sky GRAVEL  GC Clayery GRAVEL  SW Wei-graded SAND  SP Poorly graded SAND with sit  SW-SM Wei-graded SAND with sit  SW-SM Poorly graded SAND with sit  SP-SC Poorly graded SAND with sit  SP-SC Poorly graded SAND with sit  SP-SC Poorly graded SAND with sit  SP-SC Poorly graded SAND with sit  GM Sity SAND  ML Incapanic SILT with low plasticity  CL Lean incapanic CLAY with moderate to high  CH Organic SILT with moderate to high  CH Organic SILT or CLAY with moderate to high	Say Sand
		≥ 15% FINES		sc	Cayey SAND
				ML.	hanyanic SILT with low plasticity
FINE		LIQUID LIMIT LESS THAN 50		CL.	Lean inorganic CLAY with low plasticity
GRAINED SOILS	S:LT ANO			OL	Organic StLT with low plasticity
50% FINES  FINE GRAINED	CLAY	LIQUID EIMIT		IZH	Elastic inorganic SILT with moderate to high plasticity
		GREATER THAN 50		ан	Fat morganic CLAY with moderate to high plasticity
				сн	Organic SILT or CLAY with moderate to high plasticity
H	GHLY ORGANIC 501	LS	2 27 57 77 27 27 77	PT	PEAT sols with high organic contents

1. Is Fill Material Present Yes No  2. Percentage Fill (%)  3. Fill Description (circle all that apply)	Color by (7,5 ) (1)  Odor  1. Odor Strength (circle one)  Slight Strong
Asphalt Metal Plastic	
Concrete Wood Glass  Igneous/Metamorphic Gravel N/A	Organic Petroleum Chemical  N/A Other
Other	Moisture Condition (circle one)  Dry Moist Wet
PG Signature   Mile Hoffyrm   NA	PG Registration #
NA – Not Applicable	aer 2 (SDS Revision 19 - 5730/2012

### Santa Susana Field Laboratory/94489

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	D	<u>G~</u> E	<u>3770</u>	) 			5	5A 6-14-13	
	Clie	nt: DOE	-		Proje	ct Nam	re/#:	e/#: 6661_65258.63376.4203.002.223.02234.95PH3-MB Total Depth: 19t DRT= 3.0	
				DM SMI			Dri	Drill Contractor/Driller: Stvongam 3rd DPT= 3.0	
				es o) No			Dri	Drill Method: DPT Depth Drilled Into Bedrock:	
	1)——			ground:	Y=13 =	3-80	+-	Borehole diameter: 2,25 NA	
		Backgr		0.0				Depth to GW: NA Sampling Method:	
	καα	ologica	al Equip	ment Us	sed:		ĮPG	PG Review & Non DPT Sleeves	
		Micro		Alpha/Be	eta[ 🗸 ] Pan	cake	1	Much Hom # 7735 Geologist: David Rojas	
į	Depth (feet)	8	~	% <del>3</del>	Sample Name	Sample Time	nscs	Description of Materials	
SAMPL		0.5/	0,0	13/90	SL-870 SA5A-SB 0.0-0.5	1040	SM	SM SILTY SAND, brn (7,54R 5/4) Fam Wtwants med &	
20-0.5		g /0.5	0,0	10/48	0.0 0.5		L	SM SILTY SAND, brn (7.548 5/4) Fam withouts med & Coave any pa stosa quest losse to slicompactule friable, dry ~ 20% silt, feel to some any (roots) -	
	ι.			19/54				triable, dry \$20%5(11, few to some arg (1004s) - to ant of sandstone gravel med sixed, sa, had, - well cerebid, few org (100ts)	
	2 -		0.0	10/16		ع	ZM	P/ SAND W/SILT, yel km (10YR 5/4) mottled w/dKyel km (10YR 5M) fam, to out medgen, pa, sr to sa, queit, du, med comp	1.5 W
	-			19/72			<b>3</b>	travels si hard, to astora (voots) one	2,5 2,5
	3 -	┽	0.0	772				mod triable totriale, sli anunated	-3.C
	_	1 1						Refusals @ 3.0,3.0, \$ 2.8	
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II		M nith				BOI	-L RIN	RING LOG AND SAMPLING RECORD Page 1 of	
	nt: am	VIATIO ount		r: grained	20	g: poorly	grad	graded t: trace nr:no recovery	
c:	coarse	)	lt	: llght	rn	d: roun	ded	ed V: very	
	: dark fine			: medium od: mode		: subanį : subrou			

Locati	on ID:				Subar	ea:		Date Started:		Date Complet	ed: ,
Projec	t: SSF	L						Geologist:		Total Depth:	· v
Depth (feet) bgs	Recovery (feet)	OIG (maa)	Radiological (µR/cpm)	Sample	Sample Time	SOSN			Description of Ma	iterials	
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### SSFL Phase 3 – Field Sample Data Sheet

		CDM Smith
	FSDS Checked By Solu	Julgall
Sample ID SL-870-SA5	A - SB - 0,0 - 0,5 Date/Time	10-14-13 / 1685 D
Matrix (circle one)	Start Depth	Depth Units (circle one)
(Soil) Sediment Water	End Depth	Inches (Feet)
Check if Composite DPT	Collection Method (circle Slide Hammer Hand Auger/Slide Hamme	·
QC Type (circle one)  N FD FB RB	Parent Sample ID	MA
Field Geologist Davi	d Rojas Nalseth	
SamplerJohn	Nalseth	

### Analysis

Parameters	Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	1 K
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	K
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	V
PCBs/PCTs	EPA 8082	1
Perchlorate	EPA 314.0/331	<u> </u>
Perchlorate		
Confirmation	EPA 6850/6860	
Hq	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	1
Herbicides	EPA 8151	
Pesticides	EPA 8081	+

22.7	Parameters	Method	Analyze?
Se	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	<del> </del>
ப்	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	×
100-11	Glycols	EPA 8015	
	Alcohols	EPA 8015	<del> </del>
547.	Terphenyls	EPA 8015	
7	Nitrates	EPA 300.0/9056	
385	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
ŘŶ	NDMA	EPA 1625	
Sediment	· · · · ·	NOAA Status and	
E	Organotin	Trends, Krone et al.	
ಚ	Methyl Mercury	EPA 1630	

2 DPT SS Sleeves & 14-02 jan

	tion (circle or		GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
		GRAVELWITH		GW	Wes-graded GRAVEL
		5% FINES	35.0	GР	Poorly graded GRAVEL
	GRAVEL AND			GW-GM	Well-graded GRAVEL with sill
	GRAVELLY SOILS MORE THAN	GRAVEL WITH	100	GW-GC	Well-graded GRAVEL with clay
	50% OF COARSE FRACTION	BETWEEN 5% AND 15% FINES		GP-GM	Poorly gracied GRAVEL with sit
	RETATED ON NO. 4 SIEVE		0	GP-GC	Poerfy graded GRAVEL with day
		GRAVEL WITH	17.75	GM	Sity GRAVEL
COARSE GRAINED SOILS		GRAVEL WITH		ေ	Clayey GRAVEL
CONTAINS MORE THAN		SAND WITH		SW	Well-graded SAND
50% FINES		* 5% FINES		S₽	Poorly graded SAND
	SALID AND	SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Wel-graded SAND with eit
	SANDY SOILS MORE THAN 50% OF			sw-sc	Wet-graded SAND with day
	FRACTION			SP-SM	Poorly graded SAND with silt
	PASSING ON NO. 4 SIEVE	1.		SP-SC	Poorly graded SAND with clay
		SAND WITH			SHY SAND
		≥ 15% FINES		sc	Crayey SAND
				ML.	Incayarác SILT with low plasticity
		LIQUID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plasticity
FINE GRAINED SOILS	SILT			OL.	Organic SILT with low plast city
CONTAINS MORE THAN	CLAY			MH	Elastic inorganic SILT with moderate to high plasticity
50% FINES		GREATER THAN 50		СН	Fat inorganic CLAY with moderate to high plasticity
		1112720		СН	Organic SILT or CLAY with moderate to high plasticity
-	HOHLY ORGANIC 5	OILS.	7 77 77 28 27 27	₽T	PEAT sors with high organic contents
l Material		<u> </u>			Is Staining Present Yes No
ill Materi	al Present	Yes (No)		-	color <u>brn (7,54K 94</u> )
	-:!! (0/)	Nono			- Odor -
rcentage l	riii (%)	, 55.50		- [	1. Odor Strength (circle or

— Fill Material — No No	Is Staining Present Yes (No) Color by (7,5 VR 74)
2. Percentage Fill (%)  3. Fill Description (circle all that apply)  Asphalt Metal Plastic  Concrete Wood Glass  Igneous/Metamorphic Gravel N/A	Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chemical  N/A Other
PG Signature Will Hoffman Additional Comments	Moisture Condition (circle one)  Dry Moist Wet  PG Registration # 7735
NA – Not Applicable	Page 2 FSDS Revision 2.0 5/38/2+12

### Santa Susana Field Laboratory/94489

	Locati	on ID:				Subar	ea:		Date :	Started:			Date Complete	ed:	
	Do	ع ۔ ر	371				E	A	6	0-6-	-13			>	
	Cilent		<u>.                                    </u>		Proje	ct Nam	e/#:	SSPL=0525	8- <del>63370</del> :	1203.002,223	.02231.SSPH3	210	Total Depth:	Ist DPT= 5.	Þ
	Comp	any Na	me: C	DM SMIT			Dril	l Contra	ctor/Dr	Iller: S7		191	Ž	nd DPT=4,	P <sub>o</sub>
	GPS collected? (Yes) r No							Method	: D	PT			Depth Drilled		, 1
								ehole di					1	A	
			und: (					th to GV	<i></i>	<u> </u>	Α		Sampling Met		
				ment Us			9G	Review	ENO?	100	-7-	التعجز	DPT Ske	<u> </u>	
	~ N	Aicrok		Alpha/Be	ta V Par	ıcake		T MUZE	-60	Jy no	7) <sub>1</sub> ( 1		Geologist: [	Pavid Rojas	
	Depth (feet) bgs	Recovery (feet)	1	Na 3	Sample Name	Sample Time	SOSN		l	<i>O</i>	Descriptio				
MPL	= V	0.5/0.5	0.0	14/96	SL-871 SA5A-SB 0-0-05	1030	Sp	SAN	D, 51	Tong by	ω(7,5YR-	5%) imi	ottled by bon	(7.54R9/4), -	
0-0		/02	0.0	14766	0.0-05	5		~ +c	أرسع	og isrt	Sa, que	g, dr	futr to fee	w mad gm go	July -0.3
	, –		ŀ	14/20		10.5 5 (1)	SM	1	5 % ist (	SIII, 4 Kinhle	to to te	y san	or viraciles;	w med gra go	- CERTIFICATION OF THE PERSON
	( -		0.0	/ -	51. 1271 505A-58	1045		SUY	V 50	M CIA	17.5	VR 5/4	Form co	Srtsa gu	\$,
					5195A-58 0,0-0,5			100	10, d	NUS TIN	to few	int o	is (roots)	Srtisa, que titstewant it friable	<del>                                     </del>
		2.8/		14/00				Sill	San	delicely	lu, sli	cons	Alidebel You	it friable _	
	2 -	1/2	0,0	14/78				~ <i>ģ</i>	0%	silt				_	
		פונו													nE
	-			14/0			SI	180	TV S	ANID	Stime	buil'	1.5 YR 5/6) n	nottlet W/bro R5/6) Fame some redules se in shape	2.5
	3 -		0.0	14/96				17.5	SYR (	16) au	e trans	cents of	red 12.51	R5/6) Fame	
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			രം	14/84				Ţ.	ani	ts med	Lanso,	~2	0% silt	1 -	
	4-		0.0	101							( '				250
1		<b>1</b> /4													45
	_	( )		.4/ .			57/	SAN	D W	SILT, U	zel byn	(TOX)	? <u>→/@)</u> vnott(«	ed Wyselber -	1,
	5 ]		0,0	14/72			1511	(10)	fr'76	) and b	2m (10)	R713)	, town,	ed Wyellow - Partos of Modules of	-5.0
	<b>-</b>							) que	哒	Jry, li	gase, T	iarit	SITY Some	L Moemow	
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	ABBRE			gr: gralne	d	pg: poo	rly gr	aded	t: trace	, n	r:no recover	<b>y</b>			
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	dk; dark			m: mediu mod: mod		sa: suba			wg: we	ll graded neter b	gs:below gro	ound surf	ace		

Locat	ion ID:	:			Subar	ea:		Date Started:		Date Completed:	
Projec	t: SSF	·L						Geologist:		Total Depth:	<del></del>
Depth (feet) bgs	Recovery (feet)	. (wdd) Gld	Radiological (µR/cpm)	Sample Name	Sample Time	nscs			Description of Ma		
Smi	th				BOR	ING	LOG A	AND SAMP	LING RECORI	) Page	of

### SSFL Phase 3 - Field Sample Data Sheet

CDM Smith
FSDS Checked By
ample ID SL-1271-SA5A-SB-0,0-0.5 Date/Time 6-6-13 / 1045
Matrix (circle one) Soil Sediment Water End Depth
Collection Method (circle one)  Check if Composite Slide Hammer Hand Auger/Slide Hammer Trenching Sediment
OC Type (circle one)  N FD FB RB  Parent Sample ID SL-871-SA5A-SB-0.0-0.5 MS
leld Geologist

### Analysis

Sampler \_

Parameter	s Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	χ
livietais	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
	EPA 9045 (Soil)	X
рН	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VCT/SI STATES	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
គ	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycois	EPA 8015	
	Alcohols	EPA 8015	
0115,949 V2547	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
1000000 100000000000000000000000000000	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 DPT 8S slowers of 1 402 jan

	MAJOR DIMSION		GROUP SYMBOL	LETTER SYMBOL	GROUP NAME	1
-		GRAVEL WITH		GW	We≦graded GR4VEL	1
		* 5% FINES	10,030 01:00	GP	Poorly graded GRAVEL	1
	GRAVEL AND GRAVELLY		त चेरेत	GW-GM	Well-graded GRAVEL with sit	1
	SOILS MORE THAN 50% OF	GRAVEL WITH BETWEEN 5%		GW-GC	Wel-graded GRAVEL with clay	
	COARSE	AND 15% FINES	10.1.1.	GP-GM	Poorly graded GRAVEL with sit	
İ	PRACTION RETAINED ON NO. 4 SIEVE		0	GP-GC	Poorly graded GRAVEL with day	1
COARSE		GRAVEL WITH	2,56	GM	Sity GRAVEL	=
GRAINED SOILS CONTAINS		E 1646 FINEQ		©C	Clayey GRAVEL	1
MORE THAN 50% FINES		SAND WITH		SW	Wel-graded SAND	
		<u>* 5% FINES</u>		(SP)	Poorly graded SAND	
	SAND AND SANDY SOILS			SW-SM	Wes-graded SANO with sit	]
	MORE THAN 50% OF COARSE	SAND WITH BETWEEN 5% AND 15% PINES  SAND WITH ≥ 15% PINES		sw-sc	Weil-graded SAND with day	
	FRACTION PASSING ON NO. 4 SIEVE			SP-SM	Poorly graded SAND with sitt	]
				SP-SC	Poorly graded SAND with day	
			2222	SM	Sity SAND	]
				sc sc	Cayey SAND	
	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML.	fixagenic SILT with low plasticity	
FINE. GRANED				CL.	Lean increanic CLAY with low plasticity	
SOILS CONTAINS				OL.	Organic SiLT with low plasticity	
MORE THAN 50% FINES				MH	Elastic inorganic SILT with moderate to high plasticity	
		GREATER THAN 50		СН	Fat inorganic CLAY with moderate to high plasticity	
				СН	Organic SILT or CLAY with moderate to high plasticity	
	SHLY ORGANIC SOI	LD	5 77 77 5	PT	PEAT sofs with high organic contents	
ill Material					Is Staining Present Yes (No)	
Fill Materia	l Present γ	es (No)			al 1 Garasi 11	ed 1/2ml
		A .			Color Strong Drn (7.511876) mittle	ed /bull
ercentage Fi	ll (% <u>)</u>	170NG			Codor —	
Cill Deserte					1. Odor Strength (circle one)	<del></del> 1
. Fili Descrip	tion (circle al	i that apply)			None Slight Stro	ng
Asphalt Metal Plastic			_			
opiuit	Wictal	riasti	١			
		61	ĺ	1	2. Odor Description (circle one	e) ———
Concrete	Wood	Glass			Organic Petroleum Che	mical

Concrete Wood Glass  Igneous/Metamorphic Gravel W/A  Other Moisture Condition (circle one)	
Concrete Wood Glass  Igneous/Metamorphic Gravel WA  Other  Other  Dry Moist Wet	Organic Petroleum Chemical  N/A Other
Other Moisture Condition (circle one) -	
Other Moisture Condition (circle one) - Dry Moist Wet	
	Moisture Condition (circle one)  Dry Moist Wet
G Signature PG Registration #	PG Registration #
Additional Comments	

					A TOTAL CONTRACTOR OF THE CONT	CDIVI SITTICT
		F	SDS Check	ed By Vr C	1-	
Sample ID <u>SL-871-</u>	-SASA					1030
Matrix (circle one) — Soil Sediment	Water	Start Depth	<u>0.0</u>		Depth Units Inches	(circle one) -
Check if Composite	DPT		– Collecti	on Method (circ ger/Slide Hamm	•	Sediment
QC Type (circle one) —	RB	Parent Sar	nple ID		NA	
Field Geologist	David	Rojas				
Sampler	Vidal	Cortes				

### **Analysis**

Paramete	rs Method	Analyze?			
	EPA 6010	X			
Metals	EPA 6020	X			
ivietais	EPA 7471 (Soil)	X			
	EPA 7470 (Water)				
Fluoride	EPA 300.0/9056				
SVOCs	EPA 8270				
TIC	EPA 8270				
PAHs					
1,4 Dioxane					
Dioxins	EPA 1613	X			
PCBs/PCTs	EPA 8082				
Perchlorate	EPA 314.0/331				
Perchlorate Confirmation	EPA 6850/6860				
рH	EPA 9045 (Soil)	X			
pri	EPA 9040 (Water)				
Hexavalent		-			
Chromium	EPA 7196/7199				
Herbicides	EPA 8151				
Pesticides	EPA 8081				

	Parameters	Method	Analyze?
Ŋ	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ដ	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
94	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
Ŧ.	Formaldehyde	EPA 8315	
M	NDMA	EPA 1625	
Ħ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

Methyl Mercury | EPA 1630 | Cox jan | Prox jan

GROUP NAME
We's graded GRAVEL

Soil Classification (circle one)

MAJOR DIVISION

		GRAVEL WITH		GW	Wes-graded GRAVEL			
		* 5% FINES	35.00	GP	Poorly graded GRAVEL			
	GRAVEL AND GRAVELLY		2040	GW-GM	Well-graded GRAVEL with sit			
	SOILS MORE THAN	GRAVEL WITH		ew-cc	Well-graded GRAVEL with day			
	50% OF COARSE FRACIKON	BETWEEN 5% AND 15% FINES	10,118	GP-GM	Poorly graded GRAVEL with sit			
	RETAINED ON NO. 4 SIEVE		.0.	GP-GC	Pocity graded GRAVEL virth clay			
	İ	GRAVEL WITH	0,750	GM	Sitty GRAVEL			
COARSE GRAMED SOILS		GRAVEL WITH		GC	Clayey GRAVEL			
CONTAINS MORE THAN		SAND WITH		SW	Weit-graded SAND			
50% FINES		• 5% FINES		(SP)	Poorly graded SAND			
	SAUD AND			SW-SM	Wes-graded SANO with sit			
	SANDY SOILS MORE THAN 50% OF	SAND WITH		SW-SC	Well-graded SAND with day			
	COARSE FRACTION	BETWEEN 5% AND 15% FIRES		SP-SM	Poorty graded SAND with sat			
	PASSING ON NO. 4 SIEVE			SP-SC	Peorly graded SAND with day			
		SAND WITH		SM	Sity SANO			
SAMDWITH ≥ 15% FINES				sc:	Oayey SAND			
					hoorganic SILT with low plantaily			
FINE LIGUID LIMIT LESS THAN 50					Lean inorganic CLAY with low plasticity			
GRAINED	GRANED SILT				Organic SiLT with low plasticity			
CONTAINS MORE THAIL 50% HINES	CLAY			МH	Elastic inorganic SILT with moderate to high plasticity			
SOMMES		LIQUID LIMIT GREATER THAN 50		сн	Fat inorganic CLAY with moderate to high plasticity			
	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		сн	Organic SILT or CLAY with moderate to high plasticity			
HIGHLY CRIGANIC SOILS 2 22 24 2					PEAT sots with high organic contents	(		
Fill Material  Is Fill Material Present Yes No  Percentage Fill (%) None					Is Staining Present Yes (No Color Strong km (7.5) R / moth	ed W/bm (7.5 VR 4/4)		
		•			1. Odor Strength (circle one)			
3. Fill Descrip	ition (circle a	ll that apply)			(None) Slight Stro	ng		
Asphalt	Metal	Plast	.					
Ashuair	Mictai	1 103(			2. Odor Description (circle one	·		
Concrete	Wood	Glass						
		_			Organic Petroleum Che	mical		
Igneous/Metamorphic Gravel					N/A Other			
Other			<u></u>	***************************************	Moisture Condition (circle one	· ·		
		n/11			(Dry) Moist Wet			
Signature	Wille &	Mylyna	7		PG Registration # $7735$	>		
dditional Comr	nents		· · · · · · · · · · · · · · · · · · ·					

### Santa Susana Field Laboratory/94489

	Location		i)		Subar	_	1	Date Started:	<u> </u>	Date Complete	d:	1
		<u>- 87</u>	<u>~</u>			5/	<del>1</del>	6-6-13	<i></i>		>	-
	Client: D	···	CDM SMI	Proje	ct Nam	10/#:	SSFI. 6525	8-63376:1203:002:223:022	31.55рнз 35/2	Total Depth:	# DPT=4.6	3
	1)		esor No							nd DPT=4.	4	
			(ground:		8= <b>8</b> 3		rehole dia		Depth Drilled	th DPT=3		
	· · · · · · · · · · · · · · · · · · ·	ground:		0-11-7	<u>- (C)</u>		pth to GW			Sampling Meth	Student = 3	2
	Radiolog			sed:			Review	<b></b> .		DPT Sle	alac	
	✓ Mic	roR[ ✓	Alpha/B	eta 🗸 Pan	cake	1	//Will	l'allikenar	7735	Geologist: Da	vial Parac	
	<b>₩</b> ≥		ical C	0	63			(0)		1 3 100	ora Halas	-[
	Depth (feet) bgs Recovery	(feet) PID (ppm)	Radiological (µR/cpm)	Sample	Sample Time	nscs		De	scription of Ma	aterials		
SAM	NE 20.	5/ 0,0		SL-872	1255	7	SAND	with Sur la	/7 KVD	5/.\ 41 lu	VIII THE ELE	5 (c./.)
0.0 -0	5			S/45/A-58	1~2)	150	fa	with SILT, b pg, SI to Sa, a y Sand Nodul mt org (roots)	write loons	e doubled	TOM TOTAL	74)
		6	10/42	0.0-0.5			Sit	y sand nodul	u, Brtsa	i peak come	Ita, not	trioble
	1 - 3,	5/10.0	1.27 45		, ;		tha	nt org (roots)	) <b>'</b>		′ - -	1 .
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	-	1										1
	2	0.0	10/60	]								2.0
						SP	SAND	strong ban (1) Lyel red (54R	7.54R5/6)	mottled w/14	bon 17.5VR	(44) AU
SAMPLE		1		5L-872			an	duel roll(54R	5/6) Far	/ Few mod	en Ato con	10. 55%
SAMPLE 2.5-3.5	2 1	00	10/96	5L-972 SA5A-88 2,5-3,5	,,,,		gn	dy material w	a quot	dry tron	tore (roo	10: <5%
				2,5-3,5	-		liso	ody Material	bour )	gorne Silty	Souderocto	120
							MOO	to mid well a	onadidah	a mod tope	ille to have	3.5
	<b> </b>	0,0	19/78			SP	501	D II I I I	110/13 POX	100 100 100 710	W 217-01	m \ 11.5
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	BBREVIAT		r: grained		. noork	arac	lad ±	traca				
c:	coarse	it	: light	rne	: poorly d: round	led		trace nr:no red Very	covery			
	k: dark fine		n: medium nod: mode		subang subrou		Wg	: well graded				
1	·	·		311			Ψ.	Ammineret DR2:0800	w ground surface	E	71	

Locat	ion ID:	ŀ			Subare	ea:		Date Started:	Date Completed:	
Projec	t: SSF	FL .					I	Geologist:	Total Depth:	
Depth (feet) bgs	Recovery (feet)	Old (mdd)	Radiological (µR/cpm)	Sample Name	Sample Time	nscs		Description of N	īaterials	
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CD Sr	M nit	h			ВО	RII	NG LO	G AND SAMPLING REC	ORD Pageof	

	FSDS Checked	By V. Cytz
Sample ID SL-872	SA5A - SB-0.0-0.5 D	Date/Time 6-6-13/1255
Matrix (circle one) — Soil Sediment	Water End Depth 0.5	Depth Units (circle one) Inches
Check if Composite		Method (circle one) or/Slide Hammer Trenching Sediment
QC Type (circle one) —	RB Parent Sample ID	WA
Field Geologist	David Rojas	
Sampler	Vidal Cortes	

### Analysis

Parameters	Method	Analyze?
	EPA 6010	X
	EPA 6020	X
Metals	EPA 7471 (Soil)	X
de la companya de la	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
	EPA 9045 (Soil)	X
рН	EPA 9040 (Water)	
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

#575 #575	Parameters	Method	Analyze?
es	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ធ	TPH-GRO	EPA 8015	
100	TPH-EFH	EPA 8015	X
1720	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
15/4	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
ŝ	Methyl Mercury	EPA 1630	

2 DPT SS sleeves of 140zjar

GROUP NAME
Wes-graded GRAVEL

Soil Classification (circle one)

NA - Not Applicable

MAJOR DIVISION

GRAVEL WITH \*5% FINES

1	1	GRAVEL WITH		<b>1</b>	Wei-graded GRAVEL	i
		* 5% FINES	1000	G₽	Poorly graded GRAVEL	1
	GRAVEL AND GRAVELLY		COLUMN TO SERVICE SERV	GW-GM	Well-graded GRAVEL with silt	
ĺ	SOILS MORE THAN 50% OF	GRAVEL WITH		GW-GC	Weil-graded GRAVEL with clay	
	COARGE	BETWEEN 5% AND 15% FINES	10 TH	GP-GM	Poorly graded GRAVEL with 615	
	RETAINED ON NO. 4 SIEVE		-0-W	GP-GC	Poorly graded GRAVEL with day	
COLDEE		GRAVEL WITH	1926	GM1	Sky GRAVEL	
COARSE GRANED SOILS		± 1695 FINED		GC	Coyey GRAVEL	
CONTAINS MORE THAN 50% FINES		SAND WITH		SW	Well-graded SAND	
50% FR4C5		SAND WITH * 5% FINES		SP	Poorly graded SAND	
	SAIRD AND			SW-SM	Wes-graded SAND with sit	
	SAIRD AND SANDY SOILS MORE THAN 50% OF	SAND WITH		SW-SC	Well-graded SAND with day	
	COARSE	AND 15% HINES		SP-SM	Poorly graded SAND with sit	
	PASSING ON NO. 4 SIEVE			SP-SC	Poolly graded SAND with day	
		CANDULATIA		SM	Sity SAND	
		SAND WITH ≥ 15% FINES		5C	Clayey SAND	
				ML.	Incorporate SILT with four plansfully	
		LIQUID LIMIT		CL	Lean inorganic CLAY with low plastoty	
FINE. GRAINED	FINE LESS THAN 50					
CONTAINS CHAINT STOM	SILT AND CLAY		111111	OL. MH	Organic SILT with low plant city	
SUBTINES		LIQUID LIMIT GREATER	<i>"""</i>	СН	Elastic inorganic SiLT with moderate to high plasticity	
		GREATER THAN 50		сн	Fat inorganic CLAY with moderate to high plasticity	
H	GHLY ORGANIC SO		<u> </u>	PT	Organic SILT or CLAY with moderate to high plasticity PEAT soils with high organic contents	
. Percentage Fi 3. Fill Descrip Asphalt Concrete Igneous/Met Other	-	Plasti	C		Odor  1. Odor Strength (circle one)  None Slight Strong  2. Odor Description (circle one)  Organic Petroleum Chert  N/A Other  Moisture Condition (circle one)  Dry Moist Wet	nical
ignature <u>//</u> ditional Comm	ulle Le pents	Je Just	<u> </u>		— PG Registration # 2735	

Page 2

FSOS Revision 2.0

5/30/2012

		CDIVI SITTER
	FSDS Checked By	V. Gts
Sample ID SL-872	- SA5A - SB-2.5-3.5 Date/	/
Matrix (circle one) Soil Sediment	Start Depth 2,5 Water End Depth 3.5	Depth Units (circle one) -
Check if Composite	Collection Met  DPT Slide Hammer Hand Auger/Sli	thod (circle one) ————————————————————————————————————
QC Type (circle one) —	RB Parent Sample ID	NA
Field Geologist	David Rojos Vidal Coutes	
Sampler	Vidal Cortes	

### Analysis

Parameters	Method	Analyze
	EPA 6010	X
Metals	EPA 6020	X
Mergiz	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
	EPA 9045 (Soil)	X
pH	EPA 9040 (Water)	<u> </u>
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

výcáli Vých	Parameters	Method	Analyze?
S	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
5	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	<b>X</b>
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
Š	Methyl Mercury	EPA 1630	

2 Morjan & 2 Encores

Page 1

LETTER SYMBOL

GW-GM

GRAVEL WITH

1.5% FINES

GROUP NAME Wei-graded GRAVEL

Poorly graded GRAVEL

Well-graded GRAVEL with silt

FSDS Revision 2.0

5/30/2012

Soil Classification (circle one)

MAJOR DMISION

NA - Not Applicable

GRAINED SOILS CONTAINS MORE THAN SOW FINES  FINE GRAINED SOILS CONTAINS MORE THAN SOW FINES  FINE GRAINED SOILS CONTAINS NO. 4:  FINE GRAINED SOILS CONTAINS NO. 4:  FINE GRAINED SOILS CONTAINS NO. 4:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  FILE GRAINED SILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  THE GRAINED SOILS CONTAINS NO. 5:  HIGHLY CROST FILE OF SOILS CONTAINS NO. 5:  HIGHLY C	THAN GRAVELY OF RISE RICH RICH RICH RICH RICH RICH RICH RICH	MATH NES AT A THE NES ATT NES AT A THE NES AT A		GW-GC GP-GM GP-GC GM GC SW SP SW-SM SW-SC SP-SM SP-SC SM CL OL MH	Weit-graded GRAVEL with day Poorty graded GRAVEL with sit Poorty graded GRAVEL with say Sity GRAVEL Clayey GRAVEL Weit-graded SAND Poorty graded SAND Weit-graded SAND with sit Weit-graded SAND with sit Weit-graded SAND with sit Poorty graded SAND with day Poorty graded SAND with day Sity SAND Clayey SAND Incorpanic SILT with low plasticity Lean increasing CLAY with low plasticity Elastic inorganic SILT with moderate to high plasticity
COARSE HAND. 4  COARSE GRANED SOILS CONTAINS MORE THAN SOW FINES  FINE GRANED SOILS CONTAINS MORE THAN SOILS CONTAINS MORE THAN SOILS CONTAINS MORE THAN SOILS HIGHLY ORGER THAN SOILS HIGHLY ORGER CONTAINS MORE THAN SOILS HIGHLY ORGER CONTAINS HIGHL	ED CN SIÈVE  GRAVEL \  ± 16% FI  SAND W  *S% FIN  SAND W  *S% FIN  SAND W  *S% FIN  SAND W  SAND W  SAND W  ET WEET  BETWEET  ANU 15% FI  LIQUID LI  LESS THA  T  LIQUID LI  LESS THA  T  LIQUID LI  LESS THA  T  LIQUID LI  LESS THA	WATH NESS		GP-GC GM GC SW SP SW-SM SW-SC SP-SM SP-SC ML CL OL	Poorly graded GRAVEL with day  Sity GRAVEL  Clayey GRAVEL  Well-graded SAND  Poorly graded SAND  Well-graded SAND with sit  Well-graded SAND with day  Poorly graded SAND with sit  Poorly graded SAND with day  Sity SAND  Clayey SAND  Increased SILT with low plasticity  Lean inorganic CLAY with low plasticity
GRANGED SOILS CONTAINS MORE THAN SOW PINES  FINE GRANED SON FRACE PASSIN NO. 4:  FINE GRANED SOILS CONTAINS MORE THAN SOVE THAN SOVE THAN SON PINES  FILL Material Prese  2. Percentage Fill (%)	ED CN SIEVE  GRAVEL 1  LICH FILE  SAND W  SAND W  SAND W  SAND W  SAND W  SAND W  SAND W  15% FILE  LICH FILE	ATH NES ATH NES ATH NES ATH NES ATH NES		GM GC SW SP SW-SM SW-SC SP-SM SP-SC SM CC ML CC OL	Shy GRAVEL Clayey GRAVEL Welt-graded SAND Poorly graded SAND Welt-graded SAND with silt Welt-graded SAND with day Poorly graded SAND with day Poorly graded SAND with day Sity SAND Clayey SAND Incryunic SILT with low plasticity Lean inorganic CLAY with low plasticity
SOLLS CONTAINS MORE THAN 50% FINES  FINE GRAINED SOLLS AN OFFERSOLLS AN OFFERSOLLS SOLLS CONTAINS MORE THAN 50% FINES  Fill Material  L. Is Fill Material Prese  2. Percentage Fill (%)	SAND W  SAND W  SOLS  THAN  OF  RSE  SEVE  SAND W  SIEVE  SAND W  15% Fit  LIQUID LI  LESS THA  THAN S	ATH NES ATH NES ATH NES ATH NES ATH NES		SW-SM-SW-SC-SP-SM-SC-SM-CL-CL-CL-CL-SW-SC-SM-SM-SC-SM-SM-SC-SM-SM-SC-SM-SM-SC-SM-SM-SC-SM-SM-SC-SM-SM-SM-SM-SM-SM-SM-SM-	Clayey GRAVEL  Weit-graded SAND  Poorly graded SAND  Weit-graded SAND with silt  Weit-graded SAND with day  Poorly graded SAND with day  Poorly graded SAND with day  Sity SAND  Clayey SAND  Incryunic SILT with low plasticity  Lean inorganic CLAY with low plasticity  Organic SILT with low plasticity
SOLLS CONTAINS MORE THAN SOW FINES  SAIND SAIND MORE 50% COA FRACE PASSI PASSI NO. 41  HIGHLY CRE  FILL Material Prese  Prese	SAND W  SAND W  SOLS  THAN  OF  RSE  SEVE  SAND W  SIEVE  SAND W  15% Fit  LIQUID LI  LESS THA  THAN S	ATH NES ATH NES ATH NES ATH NES ATH NES		SW-SM-SW-SC-SP-SM-SP-SC-SM-SC-ML-Ct.Ot.	Well-graded SAND Poorly graded SAND Well-graded SAND with sit Well-graded SAND with day Poorly graded SAND with sit Poorly graded SAND with day Sity SAND Clayey SAND Incorpanic SILT with low plasticity Lean inorganic CLAY with low plasticity Organic SILT with low plasticity
FINE GRANED SOLS AND	AND SOLS THAN SAND W SAND W SEYE  E-AND W ≥ 15% FI  LIQUID LI LESS THA  T O AY  LIQUID LI LESS THA  T HAN 5	ATH N5% HINES ATH NES		SP-SM-SW-SM-SP-SC-SM-SC-CL-CL-CL-CL-CL-CL-CL-CL-CL-CC-SM-SC-CL-CC-CL-CC-CC-CC-CC-CC-CC-CC-CC-CC-CC	Poorly graded SAND  Wet-graded SAND with sit  Wet-graded SAND with day  Poorly graded SAND with sit  Poorly graded SAND with day  Sity SAND  Clayer SAND  Inarquiric SILT with low plasticity  Lean inorganic CLAY with low plasticity  Organic SILT with low plasticity
FINE GRANNED SOULS SOLS CONTAINS MORE FINE GRANNED SOLS CONTAINS MORE THAN SO'S HINES  Fill Material  Is Fill Material Prese	AND SOLS THAN SAND W SAND W SEYE  E-AND W ≥ 15% FI  LIQUID LI LESS THA  T O AY  LIQUID LI LESS THA  T HAN 5	ATH N5% HINES ATH NES		SW-SM SW-SC SP-SM SP-SC SM SC ML CL OL	Well-graded SAND with sit  Well-graded SAND with day  Poorly graded SAND with day  Poorly graded SAND with day  Sity SAND  Cayey SAND  Incorporate SILT with low plasticity  Lean inorganic SILT with low plasticity
FINE GRAINED SIL SON AND AND AND AND AND AND AND AND AND AN	OF SETMENT AND 15½ N SIÈVE  SAND W ≥ 15½ FIN  LIQUID LI LESS THA  THAN 5	ATH NES S		SW-SC SP-SM SP-SC SM SC ML CL	Well-graded SAND with sit  Well-graded SAND with day  Poorly graded SAND with day  Poorly graded SAND with day  Sity SAND  Cayey SAND  Incorporate SILT with low plasticity  Lean inorganic SILT with low plasticity
FINE GRANNED SIL SONTAINS AN ORIE THAILY CREE  Fill Material  Is Fill Material Prese	OF SETMENT AND 15½ N SIÈVE  SAND W ≥ 15½ FIN  LIQUID LI LESS THA  THAN 5	ATH NES S		SW-SC SP-SM SP-SC SM SC ML CL	Well-graded SAND with day Poorly graded SAND with sitt Poorly graded SAND with day Sity SAND Clayey SAND Incorporate SILT with low plasticity Lean inorganic SILT with low plasticity Organic SILT with low plasticity
FINE GRANED SOLS CONTAINS AN CONTAINS MORE THAN SOW HINES  Fill Material  Is Fill Material Prese	AND 15% F (S ON SIÈVE  EAND W ≥ 15% FI LIQUID LI LESS THA TO AY  LIQUID LI LIQUID LI CRÈATE  THAN S	ATH NES S		SP-SM SP-SC SM SC ML CL	Poorty graded SAND with sitt  Poorty graded SAND with day  Sity SAND  Clayer SAND  Inarquiric SILT with low plasticity  Lean inorganic CLAY with low plasticity  Organic SILT with low plasticity
FINE GRAINED SOILS CONTAINS MORE THAN SUS HINES  Fill Material  Is Fill Material Prese  Percentage Fill (%)	EAND W ≥ 15% FIT  LIQUID LI LESS THA TO AY  LIQUID LI GREATE THAN 5	IMIT AN 50		SP-SC SM SC ML CL OL	Poorly graded SAND with day  Sity SAND  Cayey SAND  Incorporio SILT with low plasticity  Lean inorganic CLAY with low plasticity  Organic SILT with low plasticity
GRAINED SILS SILS SILS SILS SILS SILS SILS SIL	≥ 15% FII  LIQUID LI  LESS THA  T  D  AY  LIQUID LI  GREATI  THAN 5	IMIT AN 50		SM SC ML CL OL	Sity SAND Clayey SAND Incorporate SILT with few planticity Lean inorganic CLAY with low planticity Organic SILT with low planticity
GRANED SILS SILS SILS CONTAINS MORE THAIN SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF T	≥ 15% FII  LIQUID LI  LESS THA  T  D  AY  LIQUID LI  GREATI  THAN 5	IMIT AN 50		SC ML CL OL	Crayey SAND  Inarquiric SILT with low plasticity  Lean inorganic CLAY with low plasticity  Organic SILT with low plasticity
GRANED SILS SILS SILS CONTAINS MORE THAIN SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF THE SUSCENSION OF T	LIQUID LIQUES THAN S	4N 50 S		ML CL OL	Incorporate SILT with low plasticity  Lean inorganic CLAY with low plasticity  Organic SILT with low plasticity
GRANHED SILS SILS SOLS AN SOLS	LIQUID LIQUES THAN S	4N 50 S		CL.	Lean inorganic CLAY with low plasticity  Organic SiLT with low plasticity
GRAINED SILS SILS SILS SILS SILS SILS SILS SIL	T (D) (D) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C			OL.	Organic SiLT with low plasticity
SOILS ONTAINS MORE THAI SUM HIGHLY CAG  Fill Material  Is Fill Material Prese  Percentage Fill (%)	LICUID LI GREATE THAN 5	JM9T EER 50			
Fill Material Prese Percentage Fill (%)	LIQUID LI GREATE THAN S	IMIT ER 50		AN	clastic inorganic Sit. I with moderate to high plasticity
Fill Material Is Fill Material Prese Percentage Fill (%)				- Cu	E-Maria Carlo Carl
Fill Material Is Fill Material Prese Percentage Fill (%)	ANTO SOILS	- B	SEE SEE	сн	Fat inorganic CLAY with moderate to high plasticity
Fill Material Is Fill Material Prese Percentage Fill (%)	ANIC SOILS	13		CH PT	Organic SILT or CLAY with moderate to high plasticity  PEAT sols with high organic contents
		oply) Plastic	70)	***************************************	Odor Strong Sight Strong
Concrete W		Glass N/A	1	- 1444	Organic Petroleum Chemical  N/A Other
Other		nen	2		Moisture Condition (circle one)  Dry Moist Wet  PG Registration #

Page 2

### Santa Susana Field Laboratory/94489

	Locat			_		Subar		Date Started:	Date Completed:
			<u>87:</u>	<u>ජ</u>	- <del></del>		5	1 4 4 7 7	
	Client					ect Nam	ie/#:	SSFL-66268-63376.4203.002.223.02234.68PH3 3510	Total Depth: 1st DPT = 2,9
	11			DM SMI	TH		Dr	Il Contractor/Driller: Styonagam	2ndDP = 2.7
				es or No	- TZ	0.00	Dr	Il Method: DPT	Depth Drilled Into Bedrock.
				ground:	8=129	# <del>=43</del>		rehole dlameter: 2.25"	NA
			ound:				—	oth to GW: NA	Sampling Method:
				oment Us			PS	Review & No.	DPTskeves
	<u> </u>	viicrol	<u> </u>	Alpha/Be	eta 🗸 Par	ıcake	K	I Well Allegron 7735	Geologist: David Rojas
	Depth (feet) bgs	Recovery (feet)	<u> </u>	Rac	Sample Name	Sample Time	SSSN	Description of Ma	aterials
MPL		0.5	0,0	12/97	SAJA-SB CO-0.5	1415	SP	SAND, yel km (1048 /4) mother	1 W/ som yet (10 YR 6/6) and
>-0	5 💆	70,7	0.0					Wyel (Cod (5 1 K/2) 7 cm. 1	pa, sr, sa, gunt, -
	, –			19/60				modwell consolidately, 5% for	iable to hard, dry
		2.4/	0.0	160				to to few and med d'come	gu, <5%silte ].
		7		]					<b>'</b>
		12.4							
	7		(O,Q	19/66			<u>~</u>	CAND - Coul la - (1017 7/ ) -	H 100 1: 1 (0 (1) (1)
	-		0.4	. 00			Ф	SAND Upale brn (1048 74) MM	office bry (2.5)
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Locati	on iD:				Subare	∍a:		Date Started:		Date Complet	ed:
Projec	t: SSF	L						Geologist:		Total Depth:	
		. (wdd) Old	Radiological (µR/cpm)	Sample Name	Sample Time	SOSN			Description of Ma	iterials	
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SSFL F	Phase 3 – Field Sample Dat	ta Sheet CDM Smith
	FSDS Checked By	
Sample ID <u>SL-873-SA5</u>	A - SB- 0,0.0,5 Date	Time 6-6-13 /1415
Matrix (circle one) Soil Sediment Water	Start Depth O.5	Depth Units (circle one) Inches
Check if Composite DPT	Collection Me Slide Hammer Hand Auger/Sli	thod (circle one) ————————————————————————————————————
— QC Type (circle one) — RB	Parent Sample ID	<b>√</b> /4
Field Geologist David	Rojas	

### Analysis

Sampler

Parameters	Method	Analyze?
	EPA 6010	X
Metals	EPA 6020	X
····ctary	EPA 7471 (Soil)	Х
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	*****
PAHs	EPA 8270 SIM	Y
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate		
Confirmation	EPA 6850/6860	
рН	EPA 9045 (Soil)	X
N.	EPA 9040 (Water)	-
Hexavalent		
Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

Vidal Cortes

ASSIII Perk	Parameters	Method	Analyze?
ês	VOCs	EPA 8260	
Encores	1,4 Dioxane	EPA 8260 SIM	
ដែ	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	<del></del>
	Nitrates	EPA 300.0/9056	
TEV.	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Ĕ		NOAA Status and	
Sediment	Organotin	Trends, Krone et al.	
ķ	Methyl Mercury	EPA 1630	

2 DPT SS Skeves & 1402 jan

GROUP NAME

Soil Classification (circle one)

MAJOR DIVISION

i	MAJOR DIVISION		SYMBOL.	SYMBOL	. Oncor to the	
		GRAVEL WITH		GW	Wet-graded GRAVEL	
		* 5% FINES	30,030	GP	Poorly graded GRAVEL	
	GRAVEL AND GRAVELLY			GW-GM	Well-graded GRAVEL with six	
	SOILS MORE THAN 50% OF	GRAVEL WITH BETWEEN 5%		GW-GC	Well-graded GRAVEL with day	
	COARSE	AND 15% FINES	0.	GP-GM	Poorly graded GRAVEL with sit	
	RETAINED ON NO. 4 SIEVE		· O:	GP-GC	Pocify graded GRAVEL with day	
*****		GRAVEL WITH	9,70	GM	Sity GRAVEL	
GRANED SOILS		<u>►</u> 1096 FINEO		ec ec	Clayey GRAVEL	
CONTAINS MORE THAN		SAND WITH		SW	Wes-praded SAND	
50% FINES	t l	SAND WITH 15% FINES		(%)	Poorly graded SAND	
	SAND AND SANDY SOILS			SW-SM	Wes-graded SANO with sit	
	MORE THAN	SAND WITH		SW-SC	Well-graded SAND with day	
	50% OF COARSE FRACTION	AND 15% FINES		SP-SM	Poorly graded SAND with silt	1
	FRACTION PASSING ON NO. 4 SIEVE			SP-SC	Poorly graded SAND with day	1
		SAND WITH		SM	Sity Sand	1
		≥ 15% FINES		sc	Crayey SAND	
			1777	ML	Incorporate SILT with low plantaily	1
		LIQUID LIMIT LESS THAN 50		CL	Lean inorganic CLAY with low plastoty	
FINE. GRAINED	SILT	may more		OL	Organic Sit.T with low plasticity	ļ
SOILS CONTAINS MORE THAN	AND CLAY		IIIIIII	мн	Elastic inorganic SILT with moderate to high plasticity	1
SU'S FINES		LIQUID LIMIT GREATER THAN 50		СН	Fat morganic CLAY with moderate to high plasticity	1
		THAN 50		сн	Organic SILT or CLAY with moderate to high placticity	]
	HIGHLY ORGANIC SC	DILS.	7 27 27 27 27 27	PT	PEAT sots with high organic contents	1
Fill Materia				·	In Stalining Brosent W. (No.	•
					Is Staining Present Yes (No)	Alaw/ 1600
1. Is Fill Mater	ial Present \	Yes No			color yel bru (101R3/4) wal	the broyel (0)
0.5	ESS (n/)	the love			C Odor	<u>** yel</u> refe
2. Percentage	FIII (%)	10010		-	1. Odor Strength (circle one)	
_ 2 Gill Docor	iption (circle a	all that anniv	١	.		
J, THI Desci	iption (circle c	in tildt appry	,		None Slight Stro	лів
Asphalt	Metal	Plast	tic			
'ispirane					2. Odor Description (circle on	ie) —
	<b>141</b>	Glas	_			
Concrete	Wood	Glas	>		Organic Petroleum Che	emical
		· OTA	`		(A)(A)	
Igneous/M	etamorphic Gi	ravel (N/A			(N/A) Other	
Other					Moisture Condition (circle on	e)
				J	(Dry Moist We	t
	m/	0101				
00.01	1/hills	BALNES	77)		2735	
PG Signature	" well		,		— PG Registration #	
Additional Con	nments	W				

**Additional Comments** 

### Appendix F Chain of Custodies

### Sample Delivery Group PH041

### SSFL Phase 3 Chain of Custody

DateShipped: CDM Smith

5/28/2013 FedEx CarrierName: 799864156713 AirbillNo:

Contact Name:

Pam Hartman

(818)466-8007 Contact Phone:

Cooler #:

20130528-01

Lab:

Lab Phone:

Lab Address

717-556-7259

Lancaster

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphents 8015
Alcohols 8015 Glycols 8015 × **TPH-EFH 8015** TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) × Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM × FARS 6270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soll) Metals 6010 and 6020 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 1 - SS-Sleeve 2 - 16 oz glass 1 - 4 oz glass 3 - 40 mL Vial 2 - SS-Sleeve 1-4 oz glass 2-Encore None None None None None None None ₹ 8 8 ß ß ន ß 5/28/13 11:35 5/28/13 13:40 5/28/13 08:00 5/28/13 10:55 5/28/13 11:35 5/28/13 11:35 5/28/13 13:40 Date/ Time

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10 day

2-SS-Sleeve 1-4 oz glass

8 ß

5/28/13 14:15 5/28/13 14:15

SL-830-SA\$A-SB-2.75-3.75

SL-830-SA5A-SB-0.0-0.5

SL-830-SA5A-SB-2.75-3.75 SL-830-SA5A-SB-2.75-3.75

SL-828-SA5A-SB-0.0-0.5 SL-828-SA5A-SB-0.0-0.5

SL-829-SA5A-SB-0.0-0.5 SL-829-SA5A-SB-0.0-0.5

10 day

Special Instructions:							Sampler:	) (	noton/		
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Legaron of	CEBERO	SPBADIS IIM)	<i>'</i>		41 - 1-0 1, 10-101	/			/		
<b>A</b>				/		/		Sagar and A and A Salaman Angelophysia	/		
	/							***************************************	•	MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND	/
		/							Jet 5124303 0940	305/2015	0460

COC: 20136528-01, Page 1

### Sample Delivery Group PH042

## acct#13013 ap# 1393533 Sompl#7075248-57

### **SSFL Phase 3 Chain of Custody**

CDM Smith

5/29/2013 DateShipped:

FedEx CarrierName: 799874660787 AirbillNo:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: Cooler #:

20130529-01

Lab:

Lancaster

Lab Phone:

717-556-7259 2425 New Holland Pike Lancaster, PA 17601 Lab Address

	T	7	Τ	]	Γ	Ι	Γ	_			Π	Г
Other Analycic/Airtee	Constant force											
Other Anal										:		
Methyl Mercury 1630	-	-		-					ļ			
Organotin	F	-	F		ļ	_						_
NDMA 1625 Formaldehyde 8315	1				_							
Cyanide 9012 Energetics 8330				-	-	-		-	-			_
Nitrates 300.0/9056												
Terphenyls 8015 Alcahols 8015	┼	╁	-	├-	-	-	_	-	-	_	L	_
Glycols 8015												
TPH-EFH 8015 TPH-GRO 8015	×	<u> </u>	×	-	×	<u> </u>	×	ļ	×		×	H
1,4 Dioxane 8260 SIM												
VOCs 8260 Pesticides 8081	$\vdash$	+-	$\vdash$	-	-	<del> </del>		<u> </u>	-		_	<u> </u>
Herbicides 8151	T	t							Г			
Hex Cr 7196/7199 pH 9040 (Water)												
pH 9045 (Soil)		×		×		×		×		×		×
erchlorate Confirm 6850/6860 Perchlorate 314.0/331												
PCBs/PCTs 8082												
Dioxins 1613 1,4 Dioxane 8270 SIM	×		×		×		×		×		×	
PAHs 8270 SIM	×		×		×		×		×		×	
TIC 8270 SVOC 8270	╀	H	-		-	_		_	-	-		
Fluoride 300.0/9056												
Mercury 7470 (Water) Mercury 7471 (Soil)	×	-	×	-	×	-	×	-	×	_	×	_
Metals 6010 and 6020	×		×		×		×		×		X	
Turn Around Time	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of	<b>†</b>	1 - 4 oz glass	2 - SS-Sleeve	1 - 4 oz glass	2 - SS-Sleeve	1-4 oz glass	2 - 16 oz glass	1 - 4 oz glass	2 - 16 oz glass	1-4 oz glass	2 - SS-Sleeve	1-4 oz glass
Type.	2-58	1-4	2-55	1-4	2-55	1-4	2-16	1-4	2-16	1-4	2 - 55	1-4
Preserv	None	None	None	None	None	None	None	None	None	None	None	None
Matrix	8	S	S	S	80	SO	S	8	S	8	S	S
Date/ Time	5/29/13 08:35	5/29/13 08:35	5/29/13 09:30	05:60 £1/62/5	5/29/13 09:50	5/29/13 09:50	5/29/13 10:30	5/29/13 10:30	5/29/13 10:35	SE:01 E1/6Z/S	5/29/13 11:05	5/29/13 11:05
Smol	SL-831-SA5A-SB-0.0-0.5	St-831-SA5A-SB-0.0-0.5	SL-831-SA5A-SB-4.5-5.5	SL-831-SA5A-SB-4.5-5.5	SL-832-SA5A-SB-0.0-0.5	SL-832-SA5A-SB-0.0-0.5	SL-832-SA5A-SB-4.0-5.0	SL-832-SA5A-5B-4.0-5.0	SL-832-5A5A-5B-7.2-8.2	SL-832-SA5A-SB-7.2-8.2	SL-842-SA5A-SB-0.0-0.5	SL-842-SA5A-SB-0.0-0.5

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	Time				
	Date	/			
	Received by	)			
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	Date	)1 clos/199/20 le our	1 1		
Special Instructions:	Relinquished by	La Shows of			

COC: 20139529-01, Page 1 9/9-1

PH042 Page 78 of 2266 Page 66 of 70

# acct#13013 Cp# 1393533 Sanpl# 7075248 57 SSFL Phase 3 Chain of Custody

**CDM Smith** 

5/29/2013 DateShipped:

FedEx CarrierName: AirbillNo:

799874660787

Contact Name:

Contact Phone: (818)466-8007

Pam Hartman

COC No:

20130529-03

Cooler #: цар

Lab Phone:

Lancaster 717-556-7259

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 **TPH-EFH 8015** TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) × pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 PCBs/PCTs 8082 Dloxins 1613 1,4 Dloxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soll) Metals 6010 and 6020 × X X kep 01 10 day Turn Around Time 10 day 10 day 10 day 10 day 10 day Type/No of Containers 2 - Encore 3 - 40 ml. Vial 1 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass 2 · Encore 2 - Encore None None None WQ SO 8 8 នន Date/ Time 5/29/13 09:30 5/29/13 10:30 5/29/13 10:35 5/29/13 08:00 5/29/13 14:25 5/29/13 13:45 5/29/13 13:45 SL-831-SA5A-SB-4.5-5.5 SL-832-SA5A-SB-4.0-5.0 SL-844-SA5A-SB-0.0-0.5 SL-844-SA5A-SB-0.0-0.5 SL-832-5A5A-5B-7.2-8.2 SL-843-SA5A-5B-0.0-0.5

Instructions:	
Special	

TB-052913

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			/			/		/		/

PH042 Page 79 of 2266 Page 67 of 70

5/30/2013 09/45

Time

Date

Received by

Sampler:

# Occt #13013 Cp# 1393533 Somplo# 7075348-57

6-1

CDM Smith

5/29/2013 DateShipped:

FedEx CarrierName: AirbillNo:

799874660787

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

Cooler #:

COC No:

20130529-02

Lab

Lab Phone:

2425 New Holland Pike Lancaster, PA 17601 717-556-7259

Lancaster

Lab Address

			Т	Т	Т	7	т	T
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		Other Analysis/Notes						
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		naix	1					
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Methyl Mercury Orga			╁╌	$\vdash$	╁	┼	╁	+
NDM/	16	25		ļ				
Formaldehyde Cyanide			-	ļ	<del> </del>	<del> </del>	┼	-
Energetics	83	30			L			
Nitrates 300.0 Terphenyls			-	┝	╂	-	╀	-
Alcohols	80	15				L		
Glycols Tou FEU			_	_	-	-	<u> </u>	×
TPH-EFH TPH-GRO				$\vdash$	1	+	×	1
1,4 Dioxane 826	O SI	M		<u> </u>			L	
VOCs Pesticides			H	$\vdash$	$\vdash$	$\vdash$	-	Н
Herbicides	81	51	T	Г	1	T		П
Hex Cr 7196 pH 9040 (V			ļ			×		
pH 9045	(50	H)	1					
erchlorate Confirm 6850 Perchlorate 314.				l		ŀ		
PCBs/PCTs	•							
Dioxins	16	13			×			
1,4 Dioxane 827 PAHs 827				×	-	<del> </del>	<del> </del> -	
TIC	82	70						П
SVOC Fluoride 300.0			-	-	-	-	-	-
Mercury 7470 (V	Vate	er)	×					
Mercury 7471			×	L	H	-		Н
Metals 6010 and				<u> </u>	<del>                                     </del>		-	$\vdash \vdash$
. §	Around	<u>e</u>	10 day	10 day	10 day	10 day	10 day	to day
F	¥	-	Ä	Ä	Ä	=	Ä	=
		ç	<u>~</u>	je Z		-	_	
	ş	Containers	2	1 - 250 mL Amber	2-1 L Amber	1 - 250 mL Poly	3 - 40 mL Vial	2 - 1 L Amber
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	حَ	ರ	÷	1-2	~	-	m	7
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		Preserv	HNO3 pH<2	None	None	None	모	모
		4	₹					
		Matrix	WQ	WQ	ğ	Ø,	WQ	WQ
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		Sample	2913	2913	2913	2913	2913	2913
		Sample	EB-052913	EB-052913	EB-052913	EB-052913	EB-052913	B-052913

1 fat grapes 0945
1 fat fil. 5/30/2013, 094/5

COC 201309.29-02, Paged 201

PH042 Page 80 of 2266 Page 68 of 70

### Sample Delivery Group PH043

# عدم # اعرب اعرب اعرب اعرب المعادر الم

CDM Smith

5/30/2013 DateShipped:

FedEx CarrierName: 799885359473 AirbillNo:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No:

20130530-01

Lancaster 717-556-7259

Cooler #:

Lab Phone:

iqe i

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Other Analusis Alessa	Andry Sis/ Motes					
Methyl Mercury 1630						
Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330						
Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015						
TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081					>	\ <
Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860				>	<	
Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM		×	>	<		
TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil)	×					
Metals 6010 and 6020 Turn Around Time	X App 01	10 day	10 day	10 day	10 day	10 day
Type/No of Containers	1 - 250 mL Poly	1 - 250 mL Amber	2-1 LAmber	1 - 250 mL Poly	3 - 40 mL Vial	2-1LAmber
Preserv.	HNO3 pH<2	None	None	None	₽	₽
Matrix	WQ	WQ	Mď	WQ	WQ	WQ
Date/ Time	5/30/13 15:00	5/30/13 15:00	5/30/13 15:00	5/30/13 15:00	5/30/13 15:00	5/30/13 15:00
Sample		B-053013	B-053013	EB-053013	EB-053013	

Special Instructions:						Sampler:	$\mathcal{I}_{\!$	Mad	B	
Relinquished by Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
320/9/11/00/05/20/13/11/00	3/1000	V								
		***************************************						1		
	/							fath	5/31/13	5/11/3 0920

COC: 2013858-01, Page 100

PH043 Page 112 of 2684 Page 100 of 105

# and #13013 ap #1393848 Somple #707673046 SSFL Phase 3 Chain of Custody

Contact Name: Pam Hartman

799885359473

AirbillNo:

5/30/2013 FedEx

DateShipped: CarrierName:

COM Smith

Contact Phone: (818)466-8007

COC No:

20130530-02

Cooler #:

Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601

lab:

Lancaster

717-556-7259

<u>,</u>	Т	T	Τ	_	Γ	1	Γ.	_	Г		
Othor Archeriz Alabase	Other Alightest Motes							MS/MSD	MS/MSD		
Methyl Mercury 1630	-	-	_		-	-		/SW	/sw	_	
Organotin	T				_		_			_	
NDMA 1625 Formaldehyde 8315											
Cyanide 9012 Energetics 8330		$\vdash$	$\vdash$					-			
Nitrates 300.0/9056 Terphenyis 8015	+	├-	├		ļ	ļ	_	-		_	
Alcohols 8015	1	-	<u> </u>			_	_	_	_		
Glycols 8015 TPH-EFH 8015	×	×		×		×		×		×	
TPH-GRO 8015 1,4 Dloxane 8260 SIM	1				_	_	L	_	_		
VOCs 8260 Pesticides 8081	+	H	-	_		<u> </u>			F		$\dashv$
Herbicides 8151 Hex Cr 7196/7199	T	Π				Γ					
pH 9040 (Water)											
pH 9045 (Soil) erchlorate Confirm 6850/6860			×		×		×		×		×
Perchlorate 314.0/331 PCBs/PCTs 8082											
Dioxins 1613 1,4 Dioxane 8270 SIM		×		×		×		×		×	
PAHs 8270 SIM	<u> </u>	×		×		×		×		×	
TIC 8270 SVOC 8270	$^{\dagger}$										
Fluoride 300.0/9056 Mercury 7470 (Water)	+	<del> </del>									
Mercury 7471 (Soil) Metals 6010 and 6020	+	×		×		X		×		×	
	, ,	1	1		>	Ī	^		*		*
Turn Around	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of	1 - SS-Sleeve	2 - SS-Sleeve	1 - 4 oz glass	2 - 16 oz g <b>la</b> ss	1 - 4 oz glass	2 - SS-Sleeve	1-4 oz glass	6 - 16 oz glass	1 - 8 oz glass	2 - 16 oz glass	1 - 4 oz glass
Dream	None	None	None	Mone	None	None	None	None	None	None	None
Materi	S	8	S	SS	S	S	S	S	S	SO	S
Date/ Time	5/30/13 10:55	5/30/13 10:20	5/30/13 10:20	06:01 £1/06/5	5/30/13 10:30	5/30/13 08:55	5/30/13 08:55	5/30/13 09:10	5/30/13 09:10	5/30/13 09:20	5/30/13 09:20
Cample	SL-835-SA5A-SB-0.0-0.5	SL-836-SA5A-SB-0.0-0.5	SL-836-SA5A-SB-0.0-0.5	SL-836-SA5A-SB-2.5-3.5	SL-836-SA5A-SB-2.5-3.5	SL-837-SA5A-SB-0.0-0.5	SL-837-SA5A-SB-0.0-0.5	SL-837-SA5A-SB-4.5-5.5MS	SL-837-SA5A-SB-4.5-5.5MS	SL-1237-SA5A-SB-4.5-5.5	SL-1237-SA5A-SB-4.5-5.5

Special Instructions:						Sampler:	) ) )	ale-		
Relinquished by Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
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					/			A REAL	5/3/13 0925	0920

PH043 Page 113 of 2684 Page 101 of 105

# acet#13013 ap#1393848 somple#7076730-46

## **SSFL Phase 3 Chain of Custody**

CDM Smith

5/30/2013 DateShipped:

FedEx CarrierName:

799885359473 Airbill No:

Contact Phone: Contact Name:

(818)466-8007 Pam Hartman

Cooler #:

ä

Lancaster

COC No:

20130530-03

Lab Phone:

Lab Address

717-556-7259 2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes MS/MSD Methyl Mercury 1630 Organotin NDMA 1625 NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-GRO 8015 × ×× TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 Dioxins 1613 4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of 2 - SS-Sleeve 3 - 40 mL Vial 2 - 16 oz glass 2 - 16 oz glass 2 - 16 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 1 - 4 oz glass 2 - Encore 2 - Encore 6 - Encore 2 - Encore 2 - Encore None None None None None None None None None Some None None None None None ક્ષ ß ន ጸ 8 გ ß ß 8 ß 8 8 ន ß 5/30/13 13:45 5/30/13 14:45 5/30/13 13:55 5/30/13 14:45 5/30/13 13:10 5/30/13 13:10 5/30/13 08:00 5/30/13 10:30 5/30/13 09:10 5/30/13 09:20 5/30/13 14:30 5/30/13 14:30 5/30/13 14:45 5/30/13 13:55 5/30/13 13:00 5/30/13 13:00 5/30/13 13:10 SL-837-SA5A-SB-4.5-5.5MS SL-1237-SA5A-SB-4.5-5.5 SL-819-SA5A-SB-0.0-0.5 SL-819-SA5A-SB-6.5-7.5 SL-819-SA5A-SB-6.5-7.5 SL-833-SA5A-5B-0.0-0.5 SL-833-SA5A-SB-0.0-0.5 SL-833-SA5A-SB-2.5-3.5 SL-834-SA5A-SB-2.4-3.4 SL-836-SA5A-SB-2.5-3.5 SL-819-SA5A-SB-0.0-0.5 SL-819-SA5A-SB-6.5-7.5 SL-833-SA5A-SB-2.5-3.5 SL-833-SA5A-SB-2.5-3.5 SL-834-SA5A-SB-0.0-0.5 SL-834-SA5A-SB-2.4-3.4 SL-834-SA5A-SB-0.0-0.5 Sample TB-053013

CC 20130530-03, Page 1/0 Of

Reci By: fat gh 5/31/2012 09243 Page 114 of 2684

COC Rev 2

#### COC 20130556-05, PASSAGE

### **SSFL Phase 3 Chain of Custody** and #13013 ap# 1393848 somple # 7076730-46

CDM Smith

5/30/2013 DateShipped:

799885359473 FedEx CarrierName: AirbillNo:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: Cooler #:

20130530-03

Lab Phone:

Lab:

2425 New Holland Pike Lancaster, PA 17601

717-556-7259

Lancaster

Lab Address

; ;	Other Analysis/Notes
Methyl Mercury 1630	)
Organotir	1
NDMA 1625	
Formaldehyde 8315	
Cyanide 9012	_
Energetics 8330	-
Nitrates 300.0/9056	
Terphenyls 8015	
Alcohols 8015	
Glycols 8015	
TPH-EFH 8015 TPH-GRO 8015	****
1,4 Dioxane 8260 SM	
VOCs 8260	
Pesticides 8081	
Herbicides 8151	_
Hex Cr 7196/7199	
pH 9040 (Water	
pH 9045 (Soil	' 1
Perchlorate Confirm 6850/6860	
Perchlorate 314.0/331	ı١
PCBs/PCTs 8082	۱ ا
Dioxins 1613	
1,4 Dioxane 8270 SiM	
PAHs 8270 SIM	
TIC 8270	
SVOC 8270	
Fluoride 300.0/9056	
Mercury 7470 (Water)	$\neg$
Mercury 7471 (Soil)	

Turn Around Time

Type/No of Containers

Preserv.

Matrix

Date/ Time

Sample

Special Instructions:							Sampler:	۳: \\(	South .	n	
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
STAMMUN 1 25/30/13	30/13	Q70/J				/			/		
	_					/			/		
										/	1
	/				<u></u>			-	Portal	S/31/13 0920	OE 60

PH043 Page 115 of 2684 Page 103 of 105

A-13013 G-1394124

# SSFL Phase 3 Chain of Custody

5/31/2013 S-7078SS1-59

DateShipped: CarrierName:

CDM Smith

799897145475 FedEx

AirbillNo:

Pam Hartman Contact Name:

Contact Phone: (818)466-8007

COC No:

20130531-01

Cooler #: Lab

Lab Phone:

Lab Address

Lancaster 717-556-7259

2425 New Holland Pike Lancaster, PA 17601

	Other Analysis/Note			MS/MSD	MS/MSD	AND THE REAL PROPERTY OF THE P							
Mathyl Marayer 162	_		ļ	Σ	Σ.		ļ						
Methyl Mercury 163 Organoti			$\vdash$	-	-		<del> </del>	-		H	-		Н
NDMA 162													
Formaldehyde 831				<u> </u>	ļ	ļ		ļ					
Cyanide 901		_	<u> </u>		-	_	<u> </u>						H
Energetics 833 Nitrates 300.0/905		-	-						-	-			
Terphenyls 801								_				-	$\neg$
Alcohols 801	5												
Glycols 801		×	ļ	×		×	ļ						_
TPH-EFH 801: TPH-GRO 801:		^	H	^	-	-	-	×		×	-	×	
1,4 Dioxane 8260 SIN													
VOCs 826	0												
Pesticides 808							_						
Herbicides 815: Hex Cr 7196/719	- 1												
pH 9040 (Water													
pH 9045 (Soil			×		×		×		×		×		×
Perchlorate Confirm 6850/686													
Perchlorate 314.0/33:		į											
PCBs/PCTs 808: Dioxins 161:		×		×		×		×		×		×	
1,4 Dioxane 8270 SIN	- 1												
PAHs 8270 SIN		×		×		×		×		×		×	
TIC 8270							_						$\dashv$
SVOC 8270 Fluoride 300.0/9050		-								_	_	-	-
Mercury 7470 (Water													
Mercury 7471 (Soil	)	×		ΙX		XX		×		ίX		ίX	
Metals 6010 and 6020	D	×	-	×		×		×		×		×	
Turn	Lime	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of	Containers	2 - SS-Sleeve	1 - 4 oz glass	6 - 55-Sleeve	1 - 8 oz glass	2 - 55-5leeve	1 - 4 oz giass	2 - SS-Sleeve	1-4 oz glass	2 - SS-Sleeve	1-4 oz glass	2 - SS-Sleeve	1 - 4 oz glass
	Preserv.	None	None	None	None	None	None	None	None	None	None	None	None
. :	Matrix	8	S	8	8	S	ន	S	S	S	ß	S	8
Date/	Time	5/31/13 08:35	5/31/13 08:35	5/31/13 09:35	5/31/13 09:35	5/31/13 09:45	5/31/13 09:45	5/31/13 10:45	5/31/13 10:45	5/31/13 13:15	5/31/13 13:15	5/31/13 13:45	5/31/13 13:45
	Sample	SL-815-SA5A-SB-0.0-0.5	SL-815-SA5A-SB-0.0-0.5	SL-838-5A5A-SB-0.0-0.5MS	SL-838-SA5A-SB-0.0-0.5MS	SL-1238-SA5A-SB-0.0-0.5	SL-1238-SA5A-SB-0.0-0.5	SL-840-SA5A-SB-0.0-0.5	SL-840-SA5A-SB-0.0-0.5	SL-839-SA5A-SB-0.0-0.5	SL-839-SA5A-SB-0.0-0.5	SL-841-SA5A-5B-0.0-0.5	SL-841-5A5A-5B-0.0-0.5

Special Instructions:						Sampler:	) ``	Toppo		
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CC 20130551-01, Page | OF

PH044 Page 66 of 1487 Page 59 of 61

# acd #13013 Cp#1395136 Samolo # 7083686-98 SSFL Phase 3 Chain of Custody

CDM Smith

6/5/2013 DateShipped:

FedEx CarrierName:

799931220808 AirbillNo:

Contact Phone: (818)466-8007

Contact Name: Pam Hartman

COC No:

20130605-01

Cooler #: Lab:

Lab Phone:

717-556-7259

Lancaster

Lab Address

2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-EFH 8015
TPH-GRO 8015
1,4 Dioxane 8260 SIM
VOCS 8260
Pesticides 8081
Herbicides 8151
Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082 × PCBs/PCTs 8082 Dioxins 1613 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day 10 day Turn Around Time 10 day 10 day 10 day 10 day 2 - 250 mL Amber 1 - 250 mL Poly Type/No of Containers 2-1LAmber 1 - 250 mL Poly 2-1 LAmber 3 - 40 mt Vial HNO3 pH<2 None 를 모 모 로 None Matrix A W ow ow 6/5/13 15:00 6/5/13 15:00 6/5/13 15:00 6/5/13 15:00 6/5/13 15:00 6/5/13 15:00 Date/ Time Sample EB1-060513 EB1-060513 EB1-060513 EB1-060513 EB1-060513 EB1-060513

Special Instructions:								to	tathar		
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		(como-talitica)							,	, ,	
		100000000000000000000000000000000000000	MENTAL PROFESSION OF STREET						MMM 6	0/6/13 0920	0350
de l'annual de l'a	<b>P</b>		AND THE REAL PROPERTY OF THE P	manifester — despringent de			no de compressoramente de mario de mari		2		

Sampler: The Ann

CCC TOTODONO SI, Page 100

acd #13c13 Cpi 1395136 Sampe 102 2636-98

CDM Smith

6/5/2013 DateShipped:

FedEx CarrierName:

799931220808 AirbillNo:

Contact Name:

Contact Phone:

(818)466-8007 Pam Hartman

COC No: Cooler #:

20130605-02

Lab

Lab Phone:

717-556-7259

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Mercury 7471 (Soil)
Metals 6010 and 6020 Turn Around Time 10 day 10 day 10 day 10 day 10 day 2 - 250 mL Amber 10 day Type/No of Containers 1-250 mL Poly 3 - 40 mL Vial 1 - 250 mL Poly 2 - 1 L Amber 2-1LAmber Preserv. HNO3 pH<2 None HCI None Matrix w w w Š 6/5/13 15:30 6/5/13 15:30 Date/ Time 6/5/13 15:30 6/5/13 15:30 6/5/13 15:30 6/5/13 15:30 Sample EB2-060513 B2-060513 :B2-060513 EB2-060513 EB2-060513 EB2-060513

Special Instructions:	1.1111111111111111111111111111111111111						Sampler	7	The state of the s
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0250 81/9/ Time Date ived by

PH047 Page 105 of 3216 Page 93 of 100

# CACH #12012 Cy #1295136 South 7053686 98

CDM Smith

6/5/2013 DateShipped:

FedEx CarrierName: 799931220808

AirbillNo:

Contact Name:

(818)466-8007 Contact Phone:

Pam Hartman

Cooler #:

Lab:

Lab Phone:

Lab Address

COC No:

20130605-03

Lancaster 717-556-7259

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 **Energetics 8330** Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 × × × **TPH-GRO 8015** 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 × × × × Perchlorate 314.0/331 × PCBs/PCTs 8082 × × × × Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM × × × × × × × × TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 × × × × × × 10 day lype/No of Containers 2 - 16 oz głass 1 - 4 oz glass 3 - 40 ml. Vial 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 2 - 16 oz glass 2 - 16 oz glass 2 - SS-Sleeve l - 4 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 1 - 4 oz glass 2 - Encore 2 - Encore 2 - Encore 2 - Encore None None None None 닺 8 8 8 . S ß S S S 6/5/13 08:45 6/5/13 09:00 6/5/13 09:00 6/5/13 09:45 6/5/13 10:40 6/5/13 13:50 6/5/13 14:20 6/5/13 15:05 6/4/13 14:25 6/4/13 14:25 6/5/13 08:00 6/5/13 08:45 6/5/13 09:00 6/5/13 09:45 6/5/13 10:25 6/5/13 10:25 6/5/13 10:40 6/5/13 10:40 6/5/13 13:50 6/5/13 14:20 5/5/13 15:05 6/5/13 15:15 Date/ SL-861-SA5A-SB-4.0-5.0 SL-772-SA5A-SB-0.0-0.5 SL-772-SA5A-SB-0.0-0.5 SL-811-SA5A-SB-0.0-0.5 SL-811-SA5A-SB-0,0-0,5 SL-811-SA5A-SB-5.5-6.5 SL-811-SA5A-SB-5.5-6.5 SL-811-SA5A-SB-5.5-6.5 SL-813-SA5A-SB-0.0-0.5 SL-813-SA5A-SB-0.0-0.5 SL-814-SA5A-SB-0.0-0.5 SL-814-SA5A-SB-0.0-0.5 SL-814-SA5A-SB-4.0-5.0 SL-814-5A5A-SB-4.0-5.0 SL-814-SA5A-SB-4.0-5.0 SL-859-SA5A-SB-0.0-0.5 SL-859-SA5A-SB-0.0-0.5 SL-861-SA5A-SB-0.0-0.5 SL-861-SA5A-SB-0.0-0.5 SL-861-SA5A-SB-4.0-5.0 SL-861-SA5A-SB-7.0-8.0 SL-861-SA5A-SB-7.0-8.0

# oca "12613 (पूर्ण 265136 डाक्स्ट्री 703 2696.45 SSFL Phase 3 Chain of Custody

20130605-03	ĸ	Lancaster	717-556-7259	2425 New Holland Pike Lancaster, PA 17601
COC No:	Cooler #:	Lab:	Lab Phone:	Lab Address
	Pam Hartman	(818)466-8007		
	Contact Name: Pam Hartman	Contact Phone: (818)466-8007		
	6/5/2013	FedEx	799931220808	
CDM Smith	DateShipped:	CarrierName:	AirbillNo:	

Other Analysis/Notes	. (1
Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020	Sampler: V
Type/No of Containers	
Preserv.	control formation of the control of
Matrix	****
Date/ Time	MARTINE LAND ANTENNA DELEGACIONE DELEGACION DEL CARROL DE
пріє	uctions:

( Cash ( 6/6/13 0120

Time

Received by

Date

Relinquished by

Time

Date

Date Time Received by

Relinquished by

Special Instructions:

PH047 Page 107 of 3216 Page 95 of 100

acet#13013 ap#1395501 Sample#7085555-65

# **SSFL Phase 3 Chain of Custody**

CDM Smith

6/6/2013 DateShipped:

FedEx CarrierName: 799943102615 AirbillNo:

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

COC No: Cooler #:

20130606-02

Lab:

Lab Phone:

Lab Address

717-556-7259

Lancaster

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes MS/MSD MS/MSD Methyl Mercury 1630 Organotin Formaldehyde 8315 **Energetics 8330** Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) × Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 Dioxane 8270 SIM SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) 10 day X X 10 day X X 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 2 - Encore 2 - SS-Sleeve Type/No of Containers 3 - 40 mL Vial 1 - 8 oz glass 1-4 oz glass 2 - 16 oz glass 2 - 16 oz glass 2 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 6 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - Encore None None None None None None None None None 8 8 8 8 8 ន្តន ß S 8 8 8 8 8 6/6/13 08:00 6/6/13 10:30 6/6/13 10:30 6/6/13 10:45 6/6/13 10:45 6/6/13 12:55 6/6/13 13:20 6/6/13 14:15 6/6/13 14:15 6/6/13 15:05 6/6/13 15:05 6/6/13 15:40 6/6/13 15:40 6/6/13 12:55 6/6/13 13:20 SL-871-SA5A-SB-0.0-0.5MS SL-871-5A5A-SB-0.0-0.5MS SL-1271-SA5A-SB-0.0-0.5 SL-1271-SA5A-SB-0.0-0.5 SL-872-SA5A-SB-0,0-0,5 SL-872-SA5A-SB-0.0-0.5 SL-872-SA5A-SB-2.5-3.5 SL-872-SA5A-SB-2.5-3.5 SL-873-SA5A-SB-0.0-0.5 SL-873-SA5A-SB-0.0-0.5 SL-862-SA5A-SB-0.0-0.5 SL-862-SA5A-SB-0.0-0.5 SL-862-SA5A-SB-4.5-5.5 SL-862-SA5A-SB-4.5-5.5

Special Instructions:								Sampler:	) ·	(1) (N)
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CCC. 201206/16/02, Page 1 OFF

2620

6/1/13

Time

Date

SUBOILED 5 PH050 Page 75 of 1665

COST, Riese 2

acct#13013 ap#1395738 Samplo#7086819-23
SSFL Phase 3 Chain of Custody

6/7/2013 DateShipped:

CDM Smith

799949968321 FedEx CarrierName: AirbillNo:

Contact Name:

(818)466-8007 Contact Phone:

Pam Hartman

Cooler #: COC No:

Lab:

Lancaster

20130607-01

Lab Phone:

Lab Address

717-556-7259 2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-GRO 8015
1,4 Dioxane 8260 SIM
VOCs 8260
Pesticides 8081
Herbicides 8151 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 L,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day 10 day Turn Around 10 day 10 day 10 day 10 day 10 day Type/No of Containers 1 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 1-4 oz glass None None None None None None 8 8 8 8 8 8 8 8 Date/ Time 6/7/13 11:45 6/7/13 11:45 6/7/13 08:40 6/7/13 09:45 6/7/13 09:15 6/7/13 09:15 6/7/13 09:45 6/7/13 10:15 6/7/13 10:15 SL-847-SA5A-SB-0.0-0.5 SL-845-SA5A-SB-0.0-0.5 SL-846-SA5A-SB-0.0-0.5 SL-847-SA5A-SB-0.0-0.5 SL-827-SA5A-SB-0.0-0.5 SL-827-SA5A-SB-0.0-0.5 SL-846-SA5A-SB-0.0-0.5 SL-848-SA5A-SB-0.0-0.5 SL-848-SA5A-SB-0.0-0.5

Special Instructions:		The state of the s				Sampler:	<u> </u>	To the	,	
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CCC 20130/807-01, Page/ OCT

PH051 Page 44 of 1347 Page 37 of 39

1396058 13013

20-1568807

## **SSFL Phase 3 Chain of Custody**

6/10/2013 DateShipped: CDM Smith

FedEx CarrierName:

799965626724 AirbillNo:

Contact Name:

Pam Hartman

Contact Phone: (818)466-8007

COC No:

20130610-01

Cooler #:

Lab

Lancaster 717-556-7259

Lab Address

Lab Phone:

2425 New Holland Pike Lancaster, PA 17601

ther Analysis/Notes Pe

	둉			WS/MSD	MS/MSD					MS/MSD		
Methyl Mercury 16	30			-	-				<del> </del>	_		
Organo												
NDMA 16		_			ļ		ļ	ļ	ļ			
Formaldehyde 83 Cyanide 90		ļ					ļ		ļ			
Energetics 83			-			-	┞	j —	<del>                                     </del>			
Nitrates 300.0/90												
Terphenyls 80	15											
Alcohols 80					<u> </u>			_				
Glycols 80								_	ļ			
TPH-EFH 80 TPH-GRO 80		×		×		×		×		×	×	
1,4 Dioxane 8260 S		-		-			_	-	i	$\vdash$		
VOCs 82								<b>-</b>				
Pesticides 80	81	×		X		×		×		×	×	
Herbicides 81											i	
Hex Cr 7196/71												
pH 9040 (Wate pH 9045 (Sc	- 1		×		×		_		×	×	×	
erchlorate Confirm 6850/68	-				_		_		_			
Perchlorate 314.0/3												
PCBs/PCTs 80											j	
Dioxins 16	13	×		×		×		×		×	×	
1,4 Dioxane 8270 S												
PAHs 8270 S		×	_	×		×	-	×		×	×	
TIC 82 SVOC 82		$\vdash$			-					-	ᅴ	
Fluoride 300.0/90							-			_		
Mercury 7470 (Water	MM17.7.1											
Mercury 7471 (Sc	il)	X		XX		X		X		×	×	
Metals 6010 and 60	20	×		×		X		X		×	×	
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Turn	Ĕ	10 day	10 day	10 day	30 day	10 day	10 day	10 day	10 day	10 day	10 day	
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Type/No of	Containers	2 - SS-Sleeve	1 - 4 oz glass	6 - SS-Sleeve	1-8 ozglass	2 - SS-Sleeve	1 - 4 oz glass	2 - 55-Sleeve	1 - 4 oz glass	6 - 16 oz glass	2 - 16 oz glass	
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	Preserv	None	None	None	None	None	None	None	None	None	None	
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Date/	Time	6/10/13 08:35	E:80 ET/0T/9	6/10/13 09:55	3.09	6/10/13 10:10	01:01 21/01/9	6/10/13 10:45	6/10/13 10:4	3 11	311	
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		L-773-SA5A-SB-0.0-0.5	SL-773-SA5A-SB-0.0-0.5	77	774	17	117	SL-776-SA5A-SB-0.0-0.5	776	9/1	117	
		بزا	يزا	SL-774-SA5A-SB-0.0-0.5MS	SL-774-SA5A-SB-0.0-0.5MS	SL-1174-5A5A-SB-0.0-0.5	SL-1174-SA5A-SB-0.0-0.5	7	SL-776-SA5A-SB-0.0-0.5	SL-776-SA5A-SB-6.0-7.0MS	SL-1176-SA5A-SB-6.0-7.0	

	Special Instructions:							Sampler:	r: \	Contra	1	
	Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
W	Callingo		3/100				/			/		
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CCC 20120610-01, Page | oft

13013 1396059 7088263-69

## SSFL Phase 3 Chain of Custody

6/10/2013 DateShipped: CDM Smith

CarrierName:

799965626724 FedEx AirbillNo:

Contact Name:

Pam Hartman

(818)466-8007 Contact Phone:

Cooler #:

COC No:

Lab:

Lab Phone:

Lancaster 717-556-7259

20130610-02

2425 New Holland Pike

Lab Address

Lancaster, PA 17601

Other Analysis/Notes MS/MSD Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015  $\times$   $\times$ 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water)
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082 × Dioxins 1613 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 3 - 40 mL Vial 2 - SS-Sleeve 1-4 oz glass 2 - Encore 2 - SS-Sleeve 1-4 oz glass 6 - Encore None None None None 달 Š 8 8 8 8 ß ន 6/10/13 11:30 6/10/13 11:40 6/10/13 14:45 6/10/13 08:00 6/10/13 14:00 6/10/13 14:45 6/10/13 14:00 Date/ Time SL-776-SA5A-SB-6.0-7.0MS SL-1176-SA5A-SB-6.0-7.0 SL-777-SA5A-SB-0.0-0.5 SL-777-SA5A-SB-0.0-0.5 SL-779-SA5A-SB-0.0-0.5 SL-779-SA5A-SB-0.0-0.5 Sample TB-061013

Special Instructions:							Sampler:\		Partie	A I	
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
AN TOWN ODOLO	[0/13]	(000)		<u></u>				/	/		
\$	•	}		/		/					
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	/								Parti	6/11/3 0925	5260

CCC 20130810-02, Page Ac(C)

PH053 Page 40 of 1488 Page 31 of 33

# acut\*13013 ap# 139 6443 sample # 7089813-26

## **SSFL Phase 3 Chain of Custody**

CDM Smith

6/11/2013 DateShipped:

CarrierName: FedEx Airbillino: 7999 7637 8005

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No:

20130611-01

Lancaster

Cooler #: ig ig

Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601 717-556-7259

Other Analysis/Notes	MS/MSD	MS/MSD														***************************************		
Methyl Mercury 1630		Ι_	-	F	1	1	1		1			F	1	1	-			
Organotin NDMA 1625		1		_					_							L		
Formaldehyde 8315 Cyanide 9012	×		×	<b>!</b>	×	-	×		-	ļ			ļ	ļ	ļ	-	ļ <u>.</u>	-
Energetics 8330				L.	L	L												
Nitrates 300.0/9056 Terphenyls 8015			<del> </del>		-	╁	╁	-	$\vdash$	╁	<del> </del>	<del> </del>	╁—	-	<del> </del> -	<u> </u>	├	-
Alcohols 8015	_	ļ_			L	Ļ												
Glycols 8015 TPH-EFH 8015	×		×		×	-	×		ł	ļ	×	-	×	-	×		×	-
TPH-GRO 8015		ļ		ļ	-	Ļ	F	F	×	×								
1,4 Dioxane 8260 SIM VOCs 8260					1-	<u> </u>	†		1	-				-		-		
Pesticides 8081 Herbicides 8151	-	H	F			+	F	<u> </u>	F	-	ļ_	ļ_	$\vdash$	<u> </u>	_	F	F	ļ.,
Hex Cr 7196/7199		×		×		×		×	:							İ		
pH 9040 (Water) pH 9045 (Soil)		×		×		×	×					×		×		×		×
Perchlorate Confirm 6850/6860																		
Perchlorate 314.0/331 PCBs/PCTs 8082	×		×		×		×										×	
Dioxins 1613	×		×		×		×				×		×		×		×	
1,4 Dioxane 8270 SIM PAHs 8270 SIM	X		×		×		×	<u></u>	ļ	ļ	×	ļ	×	-	×		×	
TIC 8270 SVOC 8270					-	_						F			_	_		
Fluoride 300.0/9056																		
Mercury 7470 (Water) Mercury 7471 (Soil)	×		×		×	_	×				×		×	-	×		×	
Metals 6010 and 6020	×		×		×		×				×		×		×		×	
Turn Around Time	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of Containers	6 - SS-Sleeve	2 - 8 oz glass	2 - SS-Sleeve	2 - 4 oz glass	2 - SS-Sleeve	2 - 4 oz glass	2 - 16 oz glass	1 - 4 oz glass	2 - Encore	3 - 40 mL Vial	2 - SS-Sleeve	1-4 oz glass	2 - SS-Sleeve	1 - 4 oz glass	2 - SS-Sleeve	1 - 4 oz glass	2 - SS-Sleeve	1 - 4 oz glass
Preserv.	None	None	None	None	None	None	None	None	None	무	None	None	None	None	None	None	None	None
Matrix	ន	S	8	ន	8	ន	S	S	S	WQ	S	95	S	S	OS	æ	æ	ន
Date/ Time	6/11/13 10:00	6/11/13 10:00	6/11/13 10:15	6/11/13 10:15	6/11/13 09:00	6/11/13 09:00	06:60 £1/11/9	6/11/13 09:30	6/11/13 09:30	6/11/13 08:00	6/11/13 14:05	6/11/13 14:05	6/11/13 13:20	6/11/13 13:20	6/11/13 12:30	6/11/13 12:30	6/11/13 14:50	6/11/13 14:50
Sample	SL-783-SA5A-SB-0.0-0.5MS	SL-783-SA5A-SB-0.0-0.5MS	SL-1183-SA5A-SB-0.0-0.5	St-1183-SA5A-SB-0.0-0.5	SL-789-SA5A-SB-0.0-0.5	SL-789-SA5A-SB-0.0-0.5	SL-789-SA5A-SB-5.0-6.0	SL-789-SA5A-SB-5.0-6.0	SL-789-SA5A-5B-5.0-6.0	TB-061113	SL-785-SA5A-SB-0.0-0.5	SL-785-SA5A-SB-0.0-0.5	SL-786-SA5A-SB-0.0-0.5	SL-786-SA5A-SB-0.0-0.5	SL-787-5A5A-SB-0.0-0.5	SL-787-SA5A-SB-0.0-0.5	SI-788-SA5A-SB-0.0-0.5	SL-788-SA5A-SB-0.0-0.5

COC 78180611-01, Page/POC 700

Rec'd by: 1st 6/12899 81 00475

#### CCC 20130611-01, Page And

#### 20-6189807 \* achnos aca#13013 ap#1396242

# **SSFL Phase 3 Chain of Custody**

CDM Smith

6/11/2013 DateShipped:

CarrierName:

AirbillNo: 799976378065

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No:

20130611-01

Cooler #: Lab

Lab Phone:

717-556-7259

Lancaster

2425 New Holland Pike Lancaster, PA 17601

Lab Address

Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM

VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331

Perchiorate 314.0/331
PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Mercury 7471 (Soil)
Metals 6010 and 6020

Turn Around

Type/No of Containers

Preserv.

Matrix

Date/ Time

Sample

Time

Date

Received by

Time

Date

Relinquished by

Special Instructions:

4-AMMpel 00/11/2012/10

Sampler:

Received by PER MI Time

Time

Date

Other Analysis/Notes

14h 6/12/13 0935

Date Relinquished by

PH054 Page 92 of 2486 Page 82 of 84

# **SSFL Phase 3 Chain of Custody**

**CDM Smith** 

6/12/2013 DateShipped:

FedEx CarrierName: 799987261502 AirbillNo:

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

COC No: Cooler #: lab:

20130612-01

Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601

717-556-7259

Lancaster

Other Analysis/Notes Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-GRO 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 × pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 Dioxins 1613 1,4 Dioxane 8270 SIM
PAHS 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around Time 10 day 10 day 10 day 1 - 250 ml. Amber Type/No of Containers 2-1LAmber 1 - 250 mt Poly 2 - 250 mt Poly 2-1LAmber None HG HN03 pH<2 None 8 8 8 8 8 8 8 8 8 8 6/12/13 15:00 6/12/13 15:00 6/12/13 15:00 6/12/13 15:00 6/12/13 15:00 Date/ Time Sample EB1-061213 EB1-061213 EB1-061213 EB1-061213 EB1-061213

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	Date				6/13/13
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Sampler	Date				
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Special Instructions:	Relinquished by	lago Muse			



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20130612-02

# **SSFL Phase 3 Chain of Custody**

CDM Smith

6/12/2013 FedEx DateShipped: CarrierName: 799987261502 AirbillNo:

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

COC No:

Cooler #:

Lab:

Lab Phone:

2425 New Holland Pike

717-556-7259

Lancaster

Lancaster, PA 17601

Lab Address

Other Analysis/Notes Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanlde 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-EFH 8015
1,4 Dioxane 8260 SiM
VOCs 8260
Pesticides 8081
Herbicides 8151
Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Solil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SiM
PAHS 8270 SIM
TIC 8270 × TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day 10 day 10 day 10 day 1 - 250 mL Amber Type/No of Containers 2-1 L Amber 2-1 L Amber 1 - 250 mL Poly 2 - 250 mL Poly Preserv. None HNO3 pH<2 None None Matrix **8 8** W W W Date/ Time 6/12/13 15:30 6/12/13 15:30 6/12/13 15:30 6/12/13 15:30 6/12/13 15:30 Sample EB2-061213 EB2-061213 EB2-061213 EB2-061213 EB2-061213

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Special Instructions:			:				Sampler:	Pas		B	
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	/								Pargle	6/13/13 0915	0915

COC 20139813-02, Page | 841

PH055 Page 111 of 3565 Page 97 of 101

### **SSFL Phase 3 Chain of Custody**

**CDM Smith** 

6/12/2013 DateShipped:

FedEx CarrierName:

799987261502 AirbillNo:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: Cooler #:

20130612-03

Lab

Lancaster 717-556-7259

> Lab Address Lab Phone:

2425 New Holland Pike Lancaster, PA 17601

							Γ.
	Other Analysis/Notes						
Methyl Mercury 16	30						
Organot	in						
NDMA 16 Formaldehyde 83	15	×			×		
Cyanide 90: Energetics 83:							
Nitrates 300.0/90	56						
Terphenyls 80: Alcohols 80:							
Glycols 80: TPH-EFH 80:							
TPH-GRO 80:	15		×			×	
1,4 Dioxane 8260 Si VOCs 820							
Pesticides 80 Herbicides 81	31	×			×		
Hex Cr 7196/719	99						
pH 9040 (Wate pH 9045 (So							
erchlorate Confirm 6850/680	50			×			×
Perchlorate 314.0/33 PCBs/PCTs 808							
Dioxins 16: 1,4 Dioxane 8270 Si							
PAHs 8270 SI	M	×			×		
TIC 827 SVOC 827							
Fluoride 300.0/90	56						
Mercury 7470 (Wate Mercury 7471 (So							
Metals 6010 and 602							
Turn			10 day	10 day	10 day	10 day	10 day
Type/No of	Containers	3 - 250 mL Amber	3 - 40 ml Viaf	1 - 40 ml Viai	3 - 250 ml. Amber	3 - 40 mL Vial	1 - 40 mL Val
	Preserv.	None	HC!	None	None	¥	None
	Matrix	WQ	WQ	WQ	WQ	WQ	WQ
Date/	Time	6/12/13 15:00	6/12/13 15:00	6/12/13 15:00	6/12/13 15:30	6/12/13 15:30	6/12/13 15:30
	Sample	B1-061213	:81-061213	B1-061213	B2-061213	B2-061213	B2-061213

	Special Instructions:							<u>ل</u> ي	a fresh	$\Lambda$	
	Relinquished by Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
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y										/	
									leta	6/1/3 0915	0915

(3013

SSFL Phase 3 Chain of Custody

**CDM Smith** 

6/12/2013 DateShipped:

FedEx CarrierName:

799987261502 AirbillNo:

Contact Name:

Pam Hartman

(818)466-8007 Contact Phone:

COC No:

20130612-04

Cooler #: Lab:

Lab Phone:

717-556-7259

Lancaster

2425 New Holland Pike

Lab Address

Lancaster, PA 17601

Other Analysis/Notes MS/MSD Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 **Energetics 8330** Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 ×× × × × ×× 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 × PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM FARS 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day 10 day 10 day 10 day 10 day 10 day 10 day 16 day 10 day 10 day 2 - 16 oz glass 1 - SS-Sleeve 2 - 16 oz glass Type/No of 1 - 16 oz głass 2 - SS-Sleeve 3 - 40 mL Vial 3 - SS-Sleeve 2 - SS-Sleeve 1 - 4 oz głass 1-4 oz glass 2 - Encore 2 - Encore 2 - Encore 2 - Encore 2 - Encore 2 - Encore None None None None None None None None None 랖 Š ន្តន 8 8 8 8 ន ß 8 8 6/12/13 10:30 6/12/13 10:40 6/12/13 08:00 6/12/13 10:40 6/12/13 13:25 6/12/13 13:40 6/12/13 09:40 6/12/13 09:50 .6/12/13 14:55 6/12/13 08:35 6/12/13 08:45 6/12/13 09:00 6/12/13 09:40 6/12/13 09:50 6/12/13 10:30 SL-778-SA5A-SB-0.0-0.5MS SL-826-SA5A-SB-14.0-15.0 SL-826-SA5A-SB-9.0-10.0 SL-1178-SA5A-SB-0.0-0.5 SL-826-SA5A-SB-4.0-5.0 SL-781-SA5A-SB-2.0-3.0 SL-782-SA5A-SB-0.0-0.5 SL-784-5A5A-SB-2.5-3.5 SL-778-SA5A-SB-4.0-5.0 SL-781-SA5A-SB-0.0-0.5 SL-781-SA5A-SB-0.0-0.5 SL-782-SA5A-SB-0.0-0.5 SL-782-SA5A-SB-4,5-5.5 SL-781-SA5A-SB-2.0-3.0 SL-782-SA5A-SB-4.5-5.5 TB-061213

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PH055 Page 112 of 3565 Page 98 of 101

COC Sex 2

(3013)

### **SSFL Phase 3 Chain of Custody**

CDM Smith

6/12/2013 FedEx CarrierName: DateShipped:

799987499247 AirbillNo:

Contact Name:

Contact Phone: (818)466-8007

Pam Hartman

COC No:

20130612-05

Cooler #:

Lab:

Lab Phone:

Lab Address

717-556-7259 Lancaster

2425 New Holland Pike Lancaster, PA 17601

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Methyl Mercury 163	30	<u> </u>						_	
Organot NDMA 162	in					_		_	
Formaldehyde 831 Cyanide 901	15								
Energetics 833 Nitrates 300.0/905	30								
Terphenyls 801 Alcohols 801	15								
Glycols 801 TPH-EFH 801	١5	×		×	×		×	×	×
TPH-GRO 801 1,4 Dioxane 8260 SI	15		_						
VOCs 826 Pesticides 808	50					_			
Herbicides 815 Hex Cr 7196/719	51			_					
pH 9040 (Wate pH 9045 (So	r)		×	×		×	×	×	×
Perchlorate Confirm 6850/686 Perchlorate 314.0/33	iO								
PCBs/PCTs 808 Dioxins 161	12	×		×	×		×	×	×
1,4 Dioxane 8270 SII PAHs 8270 SII	M	×		×	×		×	×	×
TIC 827 SVOC 827	0			_				_	_
Fluoride 300.0/905 Mercury 7470 (Wate	6								
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		SL-784-SA5A-SB-0.0-0.5	L-784-SA5A-SB-0.0-0.5	L-784-SA5A-SB-2.5-3.5	SL-826-SA5A-SB-0.0-0.5	L-826-SA5A-SB-0.0-0.5	I-826-SA5A-SB-4.0-5.0	SL-826-SA5A-SB-9.0-10.0	SL-826-SA5A-SB-14.0-15.0
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PH055 Page 113 of 3565 Page 99 of 101

# acct # 13013 apr 1397198 Somple # 7093173-77

### **SSFL Phase 3 Chain of Custody**

CDM Smith

6/13/2013 DateShipped:

799998470613 FedEx CarrierName: AirbillNo:

Pam Hartman Contact Name:

Contact Phone: (818)466-8007

COC No:

20130613-01

Cooler #:

Lab Phone:

Lancaster, PA 17601

717-556-7259 2425 New Holland Pike Lancaster

Lab Address

lab:

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 Herbicides 8151
Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dloxins 1613
1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Mercury 7471 (Soil)
Metals 6010 and 6020 × 10 day Turn Around Time 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day rype/No of Containers 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass None None None None None None None None None None Matrix 8 8 ន ន 8 B 8 8 8 ß 6/13/13 09:20 6/13/13 13:40 6/13/13 13:00 6/13/13 13:00 6/13/13 10:05 6/13/13 10:05 6/13/13 11:00 6/13/13 11:00 6/13/13 09:20 6/13/13 13:40 6/13/13 14:25 6/13/13 14:25 Date/ SL-793-SA5A-SB-0.0-0.5 SL-791-SA5A-SB-0.0-0.5 SL-793-SA5A-SB-0.0-0.5 SL-795-SA5A-SB-0.0-0.5 SL-795-5A5A-5B-0.0-0.5 SL-790-SA5A-SB-0.0-0.5 SL-790-SA5A-SB-0.0-0.5 SL-791-SA5A-SB-0.0-0.5 SL-792-SA5A-SB-0.0-0.5 St-792-SA5A-SB-0.0-0.5 SL-775-SA5A-SB-0.0-0.5 SL-775-SA5A-SB-0.0-0.5

COG 20130613-01, Page | ext

8756

Time

PH056 Page 54 of 2144 Page 46 of 48

# acct\*13013 ap#1397462 somple #7094786-95

## **SSFL Phase 3 Chain of Custody**

CDM Smith

6/14/2013 DateShipped:

FedEx CarrierName: 796006653747 AirbillNo:

Pam Hartman Contact Name: Contact Phone:

(818)466-8007

COC No:

20130614-01

Cooler #: lab:

Lab Phone:

Lab Address

2425 New Holland Pike

717-556-7259

Lancaster

Lancaster, PA 17601

Other Analysis/Notes MS/MSD MS/MSD Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 **Energetics 8330** Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 × TPH-GRO 8015 ×× 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SIM
PAHS 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water) × × × × × Mercury 7470 (Water) 10 day X X Mercury 7471 (Soil) 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 1 - 8 oz glass 1 - 4 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 3 - 40 mL Vial 1 - 4 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 6 - SS-Sleeve 2 - SS-Sleeve 1 - 4 oz glass None None None None Son None None None None None None 8 ន ន នន 8 ន S ន 8 6/14/13 13:25 6/14/13 10:40 6/14/13 10:40 6/14/13 13:10 6/14/13 08:00 6/14/13 09:05 6/14/13 09:05 6/14/13 09:55 6/14/13 12:50 6/14/13 12:50 6/14/13 13:10 6/14/13 13:25 6/14/13 09:55 SL-852-SA5A-SB-0.0-0.5MS SL-852-SA5A-SB-0.0-0.5MS SL-1252-SA5A-SB-0.0-0.5 SL-1252-5A5A-SB-0.0-0.5 SL-850-SA5A-SB-0.0-0.5 SL-869-SA5A-SB-0.0-0.5 SL-870-SA5A-SB-0.0-0.5 SL-852-SA5A-SB-4.5-5.5 SI-852-SA5A-SB-4.5-5.5 SL-850-SA5A-SB-0.0-0.5 SL-869-SA5A-SB-0.0-0.5 SL-870-SA5A-SB-0.0-0.5 SL-852-SA5A-SB-4.5-5.5 TB-061413

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Special Instructions:



PH057 Page 70 of 2297 Page 61 of 63

13013 1397820

### **SSFL Phase 3 Chain of Custody**

CDM Smith

6/17/2013 DateShipped:

CarrierName: AirbillNo:

796020556769 FedEx

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

COC No:

20130617-01

i ë Cooler #:

Lab Phone:

717-556-7259

Lancaster

Lab Address

2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes MS/MSD MS/MSD Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-GRO 8015 × TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM × × PAHs 8270 SIM × × TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 2 - 16 oz glass Type/No of 3 - 40 mt Vial 6 - 16 oz glass 1 - 4 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 2 - SS-Sleeve 6 - Encore 2 - Encore None None None None None None None Sone None None 8 8 S 8 8 8 ß 8 6/17/13 08:00 6/17/13 09:25 6/17/13 09:35 6/17/13 09:35 6/17/13 11:05 6/17/13 14:35 6/17/13 13:45 6/17/13 13:45 6/17/13 09:05 6/17/13 10:05 6/17/13 11:05 6/17/13 14:35 50:60 ET/LT/9 6/17/13 09:25 5/17/13 10:05 SL-780-SA5A-SB-3.0-4.0MS IL-780-SA5A-SB-3.0-4.0MS SL-1180-SA5A-SB-3.0-4.0 L-1180-SA5A-SB-3.0-4.0 SL-823-SA5A-SB-0.0-0.5 SL-825-SA5A-SB-0.0-0.5 SL-825-SA5A-SB-0.0-0.5 SL-822-SA5A-SB-0.0-0.5 SL-780-SA5A-SB-0.0-0.5 L-823-SA5A-SB-0.0-0.5 SL-822-SA5A-SB-0.0-0.5 SL-824-SA5A-SB-0.0-0.5 SL-780-SA5A-SB-0.0-0.5 SL-824-SA5A-SB-0.0-0.5 Sample

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Time

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COC: 20130617-01, Page | 06-C

PH058 Page 74 of 1587 Page 65 of 67

#### 75-1881-601-128186-1/51081

### **SSFL Phase 3 Chain of Custody**

CDM Smith

6/18/2013 DateShipped:

CarrierName:

FedEx

796032196537

AirbillNo:

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

COC No:

20130618-01

Lab Phone:

Lab

Lancaster

Cooler #:

ab Address

2425 New Holland Pike 717-556-7259 Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM × × × VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 × × Perchlorate 314.0/331 PCBs/PCTs 8082 PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Mercury 7471 (Soil)
Metals 6010 and 6020 × × × X X vep or Turn Around Time 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Containers 3 - 40 mL Vial 2 - 16 oz glass 2 - 16 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - 16 oz glass 2 - SS-Sleeve 2 - 16 oz glass rype/No of 2 - SS-Sleeve 1 - 4 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - Encore 2 - Encore 2 - Encore 2 - Encore None None None None None None None None ₹ Š None None None Matrix 8 8 В В 8 8 8 8 ß ጸ 8 8 8 8 6/18/13 13:55 6/18/13 14:10 6/18/13 09:45 6/18/13 10:00 6/18/13 10:00 6/18/13 10:30 6/18/13 10:30 6/18/13 12:40 6/18/13 12:40 6/18/13 12:50 6/18/13 12:50 6/18/13 13:00 6/18/13 13:00 6/18/13 09:45 Date/ SL-860-SA5A-SB-10.5-11.5 SL-860-SA5A-SB-10.5-11.5 SL-860-SA5A-SB-0.0-0.5 SL-864-SA5A-SB-0.0-0.5 SL-864-SA5A-SB-0.0-0.5 SL-864-SA5A-SB-4.0-5.0 SL-864-SA5A-SB-4.0-5.0 SL-855-SA5A-SB-0.0-0.5 SL-855-SA5A-SB-0.0-0.5 SL-860-5A5A-SB-0.0-0.5 SL-860-SA5A-SB-4.0-5.0 SL-860-SA5A-SB-4.0-5.0 SL-854-SA5A-SB-0.0-0.5 SL-854-SA5A-SB-0.0-0.5 SL-854-SA5A-SB-4.0-5.0 SL-854-SA5A-SB-4.0-5.0 Sample

CCC 20130516-01, Page | OF 3

#### 13013/1398132/7097884-92

# **SSFL Phase 3 Chain of Custody**

**CDM Smith** 

6/18/2013 DateShipped:

FedEx CarrierName: 796032196537 AirbillNo:

Contact Name:

Contact Phone:

(818)466-8007

Pam Hartman

COC No:

20130618-01

Lancaster 717-556-7259

Cooler #: Lab:

Lab Phone:

2425 New Holland Pike Lancaster, PA 17601

Lab Address

Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM

Glycols 8015 TPH-EFH 8015 VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199

Other Analysis/Notes

Hex Cr 7196/7199
pH 9040 (Water)
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dloxins 1613
1,4 Dloxane 8270 SIM
PAHS 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Metals 6010 and 6020

Turn Around

Type/No of Containers

Preserv.

Matrix

Date/ Time

Sample

Time

Date

Received by

Time

Date

Relinquished by

Special Instructions:

(Cords Sampler: Relinquished by

Date Received by Time Date

Time

5030

PH059 Page 69 of 1553 Page 60 of 62

### Sample Delivery Group PH060

CDM Smith

6/19/2013 DateShipped:

FedEx CarrierName: AirbillNo:

801785869928

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

COC No: Cooler #:

20130619-01

Lab Phone:

Lab:

Lab Address

717-556-7259

Lancaster

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630
Organotin
NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 × 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 × pH 9040 (Water) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM × PAHs 8270 SIM TIC 8270 SVOC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around Time 10 day 10 day 10 day 10 day 10 day Type/No of Containers 1 - 250 mL Amber 1 - 250 mL Poly 1 - 250 ml. Poly 3-40 ml Vial 2-1LAmber 2-1LAmber Preserv. HNO3 pH<2 None T None a w w Š 6/19/13 15:00 6/19/13 15:00 6/19/13 15:00 6/19/13 15:00 6/19/13 15:00 6/19/13 15:00 Date/ Time Sample EB1-061913 EB1-061913 EB1-061913 EB1-061913 EB1-061913

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COC: 20159619-01, Page 1p0

CDM Smith

6/19/2013 DateShipped:

FedEx CarrierName:

801785869928 AirbillNo:

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

COC No: Cooler #:

20130619-02

Lab:

Lab Phone:

717-556-7259 Lancaster

2425 New Holland Pike Lancaster, PA 17601

Lab Address

Other Analysis/Notes Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around Time 10 day 10 day 10 day 10 day 10 day Type/No of Containers 1-250 ml Poly 1 - 250 mL Amber 2-11 Amber 1 - 250 mL Poly 3 - 40 ml. Vial 2-1LAmber Preserv. HNO3 pH<2 None None ET None Matrix wq Š ğ ă ă ğ 6/19/13 15:30 6/19/13 15:30 6/19/13 15:30 6/19/13 15:30 6/19/13 15:30 6/19/13 15:30

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COC: 201:10619-02, Page ( 1894

PH060 Page 86 of 2605 Page 74 of 78

**CDM Smith** 

6/19/2013 DateShipped:

FedEx CarrierName:

AirbillNo:

801785869928

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

20130619-03

Lab:

Cooler #: Lab Phone:

2425 New Holland Pike

Lancaster 717-556-7259

Lab Address

Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) × ×× Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 × Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soll) Metals 6010 and 6020 × Turn Around 10 day 10 day 10 day 10 day 10 day Type/No of Containers 3-40 mL Vial 2 - 16 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - SS-Sleeve 1-4 oz glass None None None None None

Rec'd By : Ret & 6/20/13 PHOROLOGY of 2605

COC: 20130919-03, Page 1 of 3

×

×

×

×

2 - 16 oz glass

None None

> SL-865-SA5A-SB-9.0-10.0 SL-865-SA5A-SB-9.0-10.0

2 - Encore

10 day

2 - Encore

None

×

×

10 day

2 - SS-Sleeve 1-4 oz glass 1 - 16 oz glass

None

8 8 ន

6/19/13 10:40

6/19/13 11:15 6/19/13 11:15 6/19/13 11:15 6/19/13 13:40 6/19/13 13:40 6/19/13 13:55 6/19/13 13:55 6/19/13 14:10 6/19/13 14:10

None None

ß

SL-866-SA5A-SB-0.0-0.5 SL-866-SA5A-SB-0.0-0.5 SL-866-SA5A-SB-5.5-6.5 SL-866-SA5A-SB-5.5-6.5 SL-866-SA5A-SB-5.5-6.5

10 day 10 day 10 day 10 day

10 day

2 - Encore

None

8

6/19/13 09:50 6/19/13 09:50

6/19/13 08:00

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00:60 £1/61/9 6/19/13 09:00 6/19/13 09:20 6/19/13 09:20 6/19/13 10:40

> SL-863-SA5A-SB-0.0-0.5 SL-863-SA5A-SB-4.0-5.0 SL-863-SA5A-SB-4.0-5.0

SL-859-SA5A-SB-0.0-0.5 SL-863-SA5A-SB-0.0-0.5

SL-859-SA5A-SB-0.0-0.5

××

10 day

2 - SS-Sleeve 1-4 oz glass 2 - 16 oz glass

None None None

8 8 8 8 8 B

SL-865-SA5A-SB-0.0-0.5 SL-865-SA5A-SB-0.0-0.5 SL-865-SA5A-SB-4.0-5.0 SL-865-SA5A-SB-4.0-5.0

None

8

1 - SS-Sleeve

2 - Encore

None

10 day 10 day

10 day 10 day ×

## 13013 1398465 SSFL Phase 3 Chain of Custody

70996545V

20130619-03

6/19/2013 DateShipped:

FedEx CarrierName: Airbill No:

801785869928

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

Cooler #: Lab: Lab Phone:

2425 New Holland Pike Lancaster, PA 17601

717-556-7259

Lancaster

Lab Address

Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cvanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-EFH 8015
1,4 Dioxane 8260 SIM
VOCs 8260
Pesticides 8081
Herbicides 8151
Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Soil)

Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dloxins 1613
1,4 Dloxane 8270 SIM

1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Mercury 7471 (Soil)
Metals 6010 and 6020

Type/No of Containers

Preserv.

Matrix

Date/ Time

Sample

Turn Around

Sampler:

Other Analysis/Notes

Received by Time Date

Relinquished by

Time

Date

Received by

Time

Date

Relinquished by

Special Instructions:

Time

Date

61293 0900

(5) R 6/20/13 PH060 Page 88 of 2605 Page 76 of 78

### Sample Delivery Group PH061

## acat 13013 apt 1398848 Sanple 1103685-89

CDM Smith

6/20/2013 DateShipped:

FedEx CarrierName: 796051165420 AirbillNo:

Pam Hartman Contact Name:

Contact Phone: (818)466-8007

COC No:

20130620-01

Cooler #: Lab

Lab Phone:

717-556-7259

Lancaster

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-GRO 8015 TPH-EFH 8015
TPH-GRO 8015
1,4 Dioxane 8260 SIM
VOCs 8260
Pesticides 8081
Herbicides 8151
Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBS/PCTs 8082
Dioxins 1613 Dioxins 1613 1,4 Dioxane 8270 SIM × × PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) 10 day X X Metals 6010 and 6020 10 day 10 day 10 day 10 day Around Time 10 day 10 day 10 day 10 day 10 day Type/No of 3 - 40 mt. Vial 2 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 1-4 oz glass 2 - 55-5leeve 1 - 4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - Encore 2 - Encore None None None None None None 8 8 8 8 8 8 8 8 8 S 6/20/13 10:25 6/20/13 08:50 6/20/13 10:25 6/20/13 08:00 6/20/13 08:25 6/20/13 08:25 6/20/13 08:50 6/20/13 08:50 6/20/13 09:50 6/20/13 09:50 6/20/13 10:25 Date/ SL-868-SA5A-SB-0.0-0.5 SL-868-SA5A-SB-4.0-5.0 SL-868-SA5A-SB-4.0-5.0 SL-867-SA5A-SB-0.0-0.5 SL-867-SA5A-SB-3.5-4.5 SL-867-SA5A-SB-3,5-4.5 SL-868-SA5A-SB-0.0-0.5 SL-868-SA5A-SB-4.0-5.0 SL-867-SA5A-SB-0.0-0.5 SL-867-SA5A-SB-3.5-4.5 Sample

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Instruction	
Special	

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Time

Date

Received by

Time

Date

Relinquished by

Sampler:

PH061 Page 42 of 1275 Page 33 of 35

COC 201206X0-01, Page 1/06

### Sample Delivery Group PH077

**CDM Smith** 

7/29/2013 DateShipped:

FedEx CarrierName: AirbillNo:

796342615190

Pam Hartman Contact Name:

Contact Phone: (818)466-8007

COC No:

Cooler #:

lab: Lab Phone: 2425 New Holland Pike

717-556-7259

Lancaster

20130729-01

Lab Address

Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 × 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) × Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056
Mercury 7470 (Water)
Mercury 7471 (Soil)
Metals 6010 and 6020 × × 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 2 - 16 oz glass 3 - 40 mL Vial 2 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2 - Encore None None None None None ននន 8 8 8 8 8 7/29/13 08:00 7/29/13 08:15 7/29/13 08:40 7/29/13 09:45 7/29/13 08:00 7/29/13 08:00 7/29/13 08:15 7/29/13 08:40 7/29/13 09:45 SL-853-SA5A-SB-3.5-4.5 SL-853-SA5A-SB-3.5-4.5 SL-851-SA5A-SB-0.0-0.5 SL-851-SA5A-SB-0.0-0.5 SL-853-SA5A-SB-0.0-0.5 SL-853-SA5A-SB-0.0-0.5 SL-849-SA5A-5B-0.0-0.5 SL-849-SA5A-SB-0.0-0.5 Sample

Special Instructions:							Sample	Sampler	Sent	2	-K
Relinquished by	Apre	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	11
DAM/WAZE	707	17160	1011611	Q		1					
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The state of the s									DXC.	7/3d/g G	$ \mathscr{O} $

CCC 20330729-01, Page

1925

Time

PH077 Page 45 of 2277 Page 36 of 38

### Sample Delivery Group PH079

CDM Smith

7/30/2013 DateShipped:

FedEx CarrierName: 796353135781 AirbillNo:

Pam Hartman Contact Name:

Contact Phone: (818)466-8007

COC No:

20130730-01

Cooler #:

Lab:

Lab Phone:

717-556-7259

Lancaster

2425 New Holland Pike

Lancaster, PA 17601

Lab Address

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015
TPH-EFH 8015
1,4 Dioxane 8260 SIM
VOCS 8260
Pesticides 8081
Herbicides 8151
Hex Cr 7196/7199
pH 9040 (Water)
pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dioxins 1613
1,4 Dioxane 8270 SIM
PAHS 8270 SIM FAHS 82/U SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soll) Metals 6010 and 6020 10 day 10 day 10 day Type/No of Containers 1 - 250 mL Poly 2 - 250 mL Amber 1 - 250 mL Poly 2 - 1 L Amber 2 - 1 L Amber 3 - 40 mL Vial Preserv. None None None 모 ΜQ Ø Ø ΔW Νď 7/30/13 15:00 7/30/13 15:00 7/30/13 15:00 7/30/13 15:00 7/30/13 15:00 7/30/13 15:00 Date/ Time Sample EB-073013 EB-073013 EB-073013 EB-073013 EB-073013 EB-073013

Special Instructions:					Sample	Sampler:	Hart	1	
Relinquished by Date Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
16/06/07/70/200131	QUO)[E			<b>/</b>					
								/	
						-	To the state of th	7/31/13	7/31/13 BA10
		/							

### Sample Delivery Group PH125

## acct#13013 Cop#1433329 Songla# 7273419-23 SSFL Phase 3 Chain of Custody

CDM Smith

11/11/2013 DateShipped:

FedEx CarrierName: AirbillNo:

797131420820

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

Cooler #:

1 4 20131111-01

Lancaster 717-556-7259

Lab:

Lab Phone:

2425 New Holland Pike

COC No:

Lab Address

Lancaster, PA 17601

Other Analysis/Notes TIC for morpholine only. Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil)
Perchlorate Confirm 6850/6860
Perchlorate 314.0/331
PCBs/PCTs 8082
Dioxins 1613 × 1,4 Dioxane 8270 SIM PAHs 8270 SIM × TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 × Turn Around Time 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 1 - SS-Sleeve 1 - SS-Sleeve 1 - SS-Sleeve 1 - SS-Sleeve 2 - SS-Sleeve 2 - 4 oz glass Preserv. None None None None None Matrix 8 8 8 8 8 8 11/11/13 14:50 11/11/13 14:27 11/11/13 13:30 11/11/13 14:05 11/11/13 13:45 Date/ Time SL-630D-SA5A-SB-0.0-0.5 SL-630A-SA5A-SB-0.0-0.5 SL-630C-SA5A-SB-0.0-0.5 SL-630B-SA5A-SB-0.0-0.5 SL-634-SA5A-SB-0.0-0.5 SL-634-SA5A-SB-0.0-0.5

Special Instructions:		į					Sampler	ie.	The state of the s	1	
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
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								-		21/21/11	•

COC: 29131111-01, Page | 00

PH125 Page 28 of 1507 Page 20 of 22

### Sample Delivery Group PH126

# acct#13013 Cp#1433660 Sample#7375634-60 SSFL Phase 3 Chain of Custody

CDM Smith

11/12/2013 DateShipped:

CarrierName:

AirbillNo:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: Cooler #:

20131112-03

Lab:

Lancaster 717-556-7259

Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv	Type/No of	Turn Around Time	Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020	SVOC 8270 Fluoride 300.0/9056	1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270	PCBs/PCTs 8082 Dioxins 1613	pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331	Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water)	VOCs 8260 Pesticides 8081	TPH-GRO 8015 1,4 Dioxane 8260 SIM	Glycols 8015 TPH-EFH 8015	Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015	Cyanide 9012 Energetics 8330	NDMA 1625 Formaldehyde 8315	Methyl Mercury 1630 Organotin	Other An	Other Analysis /Notes
TB2-111213	11/12/13 08:00	WQ	무	3 - 40 mL Vial	10 day		-	1		+-		-	×	Ŧ	-	+	+			
SL-628-SA5A-SB-0.0-0.5MS	11/12/13 13:40	SO	None	6 - SS-Sleeve	10 day	×	<del> </del>	×	×	-				×	×	T				
SL-628-SA5A-SB-0.0-0.5MS	11/12/13 13:40	S	None	1-4 oz glass	10 day		_			×		-			_					
SL-928-SA5A-SB-0.0-0.5	11/12/13 13:40	S	None	2 - SS-Sleeve	10 day	×		×	×	-				×	×					
SL-928-SA5A-SB-0.0-0.5	11/12/13 13:40	S	None	1-4 oz glass	10 day					×										
SL-628-SA5A-SB-6.5-7.5	11/12/13 14:05	SO	None	2 - 16 oz glass	10 day )	×		×	×	×				×	×		_			
SL-628-SA5A-SB-6.5-7.5	11/12/13 14:05	SO	None	2 - Encore	10 day								×				_			
														1						
Special Instructions:												Sa	Sampler:	l: //	6	,				
יבוביים ווופיים מרניבים												-		2						

### Sample Delivery Group PH127

# acct#13013 (مو #143366) Sanple#7375661-75 SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped:

FedEx CarrierName:

AirbillNo:

11/12/2013

Pam Hartman Contact Name: Contact Phone:

(818)466-8007

COC No: Cooler #: Lab: Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601 717-556-7259

Lancaster

20131112-01

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	Other Analysis/Notes						reine menter meter verten betreitet befreitet betreitet verten an eine eine eine eine eine eine eine					
											ļ 	
Methyl Mercury 16 Organot	tin								_			
NDMA 16 Formaldehyde 83	15											
Cyanide 90 Energetics 83												
Nitrates 300.0/90 Terphenyls 80			_	_		L.	-					
Alcohols 80	15											
Glycols 80 TPH-EFH 80										_	×	
TPH-GRO 80: 1,4 Dioxane 8260 SI	15	_		H		F				×	$\vdash$	
VOCs 82	60				-		! 		×			
Pesticides 80 Herbicides 81	51						_	×	_			
Hex Cr 7196/71 pH 9040 (Wate		-			ļ	ļ	×					
pH 9045 (So Perchlorate Confirm 6850/68	il)					×						
Perchlorate 314.0/3	31	ļ					ļ ļ					
PCBs/PCTs 80 Dioxins 16				×	×							
1,4 Dioxane 8270 SI PAHs 8270 SI		ļ	×				! !				<u> </u>	
TIC 82	70				ļ							×
SVOC 82 Fluoride 300.0/90												^
Mercury 7470 (Wate Mercury 7471 (So		×	ļ				ļ					
Metals 6010 and 60		×				}						
Turn	Time	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of	Containers	1 - 250 mL Poly	1 - 250 mL Amber	2-1LAmber	1 - 250 mL Amber	1-250 mL Poly	1-250 mL Poly	2-1LAmber	1 - 250 mL Amber	3 - 40 mL Vial	2-1LAmber	1 - 250 mL Amber
	Preserv.	HNO3 pH<2	None	None	None	None	None	None	None	포	포	None
	Matrix	W	WQ	WQ	WQ	WQ	WQ	WQ	WQ	WQ	WQ	WQ
Date/	Time	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00	11/12/13 15:00
	Sample	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213	EB1-111213

Special Instructions:							Sampler:	mpler:			
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
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PH127 Page 118 of 4453 Page 104 of 107

COC. 2013 1112-01, Fage 1 of 1

acct#13013 ap# 1433661 Sample#7275061-75
SSFL Phase 3 Chain of Custody

CDM Smith

11/12/2013 DateShipped:

FedEx CarrierName:

AirbillNo:

Pam Hartman Contact Name:

Contact Phone:

(818)466-8007

COC No: Cooler #:

20131112-02

Lab:

Lab Phone: Lab Address

2425 New Holland Pike

717-556-7259

Lancaster

Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 TPH-EFH 8015 XXXX × TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 × × Pesticides 8081 ××× Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) × × × × Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 ×××× × × × PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270
Fluoride 300.0/9056 ×× × ×××× × × Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 ×× ×× × × × Turn Around 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 2 - 16 oz glass 2 - 16 oz glass 2-16 oz glass 6 - 16 oz glass 2 - 16 oz glass 2 - SS-Sleeve 2-4 oz glass 2 - Encore 2 - SS-Sleeve 1-4 oz glass 3 - 40 mL Vial 2 - Encore 6 - Encore 2 - Encore Preserv. None None None None None None None None None None None None None 모 l & I ႘ S S S S 8 8 S Š ß ႙ ß S 11/12/13 10:25 11/12/13 09:35 11/12/13 10:40 11/12/13 10:40 11/12/13 11:05 11/12/13 11:05 11/12/13 08:35 11/12/13 09:20 11/12/13 09:35 11/12/13 09:05 11/12/13 09:20 11/12/13 08:35 11/12/13 09:05 11/12/13 08:00 Date/ SL-560-SA5D-SB-4.0-5.0MS SL-560-SA5D-SB-4.0-5.0MS SL-549-SA5D-SB-11,0-12,0 SL-549-SA5D-SB-11.0-12.0 SL-549-SA5D-SB-0.0-0.5 SL-549-SA5D-SB-0.0-0.5 SL-549-SA5D-SB-4.0-5.0 SL-560-SA5D-SB-0,0-0.5 SL-560-SA5D-SB-7.0-8.0 SL-860-SA5D-SB-4.0-5.0 SL-860-SA5D-SB-4.0-5.0 SL-560-SA5D-SB-7.0-8.0 SL-549-SA5D-SB-4.0-5.0 SL-560-SA5D-SB-0.0-0.5 TB1-111213

Special Instructions:							Sample	Paris L	Sampler: And Vice	1	
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
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		***************************************					THE STEP AND AND ASSOCIATION OF THE STEP				
		Maria de Servicio								0/100 E/EI/II	ohbo
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PH127 Page 119 of 4453 Page 105 of 107

COC: 20121111-02, Page 1 of 1

COC Rev 2

### Sample Delivery Group PH128

## Cop# 1433971 Sample 7276995-7010 SSFL Phase 3 Chain of Custody

OCC+##13013
CDM Smith 113

11/13/2013 DateShipped:

FedEx CarrierName:

AirbillNo:

Contact Name:

Contact Phone:

Pam Hartman

(818)466-8007

COC No:

20131113-01

Lab Phone:

717-556-7259

Lancaster

2425 New Holland Pike

Lancaster, PA 17601

ress	
Lab Add	

		ı —		1				1		_	1		l				<b>_</b>	
	Other Analysis/Notes						Office was marked in the contract of the contr				OFFICE OPPORTUNE OF THE COMPANY OF THE PROPERT						THE RESERVE OF THE PROPERTY OF	
Methyl Mercury 1	630			-	_	-	<u> </u>	_		-		_			_			-
Organ	otin			_		_			_								П	
NDMA 1 Formaldehyde 8								_										
Cyanide 9 Energetics 8			-	-	_			-	_	-	-	_	_	_				
Nitrates 300.0/9	056												_				口	
Terphenyls 8 Alcohols 8		-	_	-	-	-	_						$\vdash$				H	
Glycols 8	015	_								_							П	=
TPH-EFH 8 TPH-GRO 8			×	×	×	×	-	×	×	-	×	×	×	×	×	×	×	×
1,4 Dioxane 8260	SIM			_		_				_							П	
VOCs 8 Pesticides 8		-		├								-		-				
Herbicides 8	151																$\square$	
Hex Cr 7196/7 pH 9040 (Wa			-															
pH 9045 (S	ioll)	×		×	×	×	×	_		×	×						П	
Perchlorate Confirm 6850/6 Perchlorate 314.0/													ļ		***********			
PCBs/PCTs 8	082		×	×	×	×		×	×		×							
Dioxins 1 1,4 Dioxane 8270				_	_	^		^	_		_						Н	
PAHs 8270	SIM		×	×	×	×		×	×		×							
TIC 8 SVOC 8											-							
Fluoride 300.0/9	056		_	ļ				ļ										
Mercury 7470 (Wa Mercury 7471 (S		-	×	×	×	×		×	×	-	×							
Metals 6010 and 6		ļ	×	×	×	×		×	×		×							
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T.mo/No of	Containers	1-4 oz glass	2 - SS-Sleeve	6 - 16 oz glass	2 - 16 oz glass	2 - 16 oz glass	1-4 oz glass	2 - SS-Sleeve	2 - SS-Sleeve	1-4 oz glass	2 - 16 oz glass	6 - Encore	2 - Encore	2 - Encore	2 - Encore	2 - Encore	2 - Encore	2 - Encore
	Preserv.	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
	Matrix	S	ន	S	S	S	SO	S	S	Я	SO	SO	SO	SO	os	S	S	ន
Oate(	Time	11/13/13 08:05	11/13/13 08:05	11/13/13 08:20	11/13/13 08:25	11/13/13 09:50	11/13/13 10:35	11/13/13 10:35	11/13/13 09:35	11/13/13 09:35	11/13/13 10:45	11/13/13 08:20	11/13/13 08:25	11/13/13 09:35	11/13/13 10:35	11/13/13 13:40	11/13/13 14:20	11/13/13 14:00
	Sample	SL=654-SA5A-SB-0.0-0.5	SLASS4-SA5A-SB-0.0-0.5	31-654-SA5A-SB-3.0-4.0MS	\$1.964-SA5A-SB-3.0-4.0	St 57-SA5A-SB-7.0-8.0	SLB58-SA5A-SB-0.0-0.5	<u> ज्रा-क</u> े8-SA5A-SB-0.0-0.5	-SLGD7-SA5A-SB-0.0-0.5	NSIGS7-SA5A-SB-0.0-0.5	SINGS-SA5A-SB-7.0-8.0	SLP54-SA5A-SB-3.0-4.0MS	SIC\$54-SA5A-SB-3.0-4.0	SL-657-SA5A-SB-0.0-0.5	SL-658-SA5A-SB-0.0-0.5	SL-667-SA5A-SB-3.0-4.0	SL-657-SA5A-SB-4.0-5.0	SL-658-SA5A-SB-4.0-5.0

## OCC+#13013 Cp# 1433971 Sample# 7276995-7010 SSFL Phase 3 Chain of Custody

11/13/2013 FedEx DateShipped: CarrierName: CDM Smith AirbillNo:

Contact Name:

(818)466-8007 Pam Hartman Contact Phone:

Cooler #:

COC No:

20131113-01

Lab:

Lab Phone:

717-556-7259

Lancaster

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056 Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around Type/No of Containers

Preserv.

Matrix

Date/ Time

Sample

Time Sampler Date Relinquished by Time Date

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Date

Received by

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Received by 0001 Time 1/18/2013 Date 1288 Page 105 of 112
Page 105 of 112

# acct# 13013 Cq# 1432971 Songh # 7376945-7010

CDM Smith

11/13/2013 DateShipped:

FedEx CarrierName:

AirbillNo:

Contact Name:

(818)466-8007 Contact Phone:

Pam Hartman

Lab:

Lab Phone:

Lab Address

Cooler #: COC No:

20131113-02

717-556-7259

Lancaster

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 ×× ×× 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 ×× ×× Perchlorate 314.0/331 ××× × PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM  $\times \times \times$ TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 ×× ×× × Turn Around 10 day 10 day 10 day 10 day Time 10 day Type/No of Containers 2 - 16 oz glass 2-16 oz glass 2 - 16 oz glass 1-4 oz glass 2 - SS-Sieeve

Preserv.

Matrix

Date/ Time

Sample

None

ß 8 8

11/13/13 14:20

None None None None

11/13/13 14:00

SL-£\$8-SA5A-SB-4.0-5.0 38mple SL-557-SA5A-SB-4.0-5.0

94-667-SA5A-SB-0.0-0.5 11/13/13 13:30 50 24-647-SA5A-SB-0.0-0.5 11/13/13 13:30 50 80-0.5 11/13/13 13:30 50 80-0.5 80-0.5 80-0.0 11/13/13 13:30 50 80-0.5 80-0.0 11/13/13 13:30 50 80-0.5 80-0.0 11/13/13 13:30 50 80-0.5 80-0.5 80-0.0 11/13/13 13:30 50 80-0.5 80-0.5 80-0.0 80-0.5 80-0.		None None None None	2 - SS-Sieeve 1 - 4 oz glass 2 - 16 oz glass 2 - SS-Sieeve 1 - 4 oz glass	10 day 10 day 10 day 10 day 10 day	× ××		
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11/13/13 13:40		None None None	2 - 16 oz glass 2 - 55-5leeve 1 - 4 oz glass		××		
		None None	2 - SS-Sleeve 1 - 4 oz glass	10 day	×		
11/13/13 12:50		None	1-4 oz glass	10 day			
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### COC: 20131113-01, Page 1 of 2

### SSFL Phase 3 Chain of Custody

acct#13013 ap#1433971 Sample#7276995-7010

Lancaster, PA 17601				7 , 7.1			
2425 New Holland Pike	Lab Address			•,	2		•
717-556-7259	Lab Phone:					797153393699	AirbillNo:
Lancaster	Lab:	-66-8007	Contact Phone: (818)466-8007	Contact Ph		FedEx	CarrierName:
1	Cooler #:	artman	Contact Name: Pam Hartman	Contact Na		11/13/2013	DateShipped:
20131113-01	COC No:						CDM Smith
		/					

Methyl Mercury 1630 Organothin NDMA 1625 Formaldehvde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-EFN 8015 TPH-ERO 8015 TPH-GRO 80	×	X X X X X X X X X X X X X X X X X X X	×	×	×	×	X	×××	×	X	X	×	X	X	×	X	×
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Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) erchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHS 8270 SIM FAHS 8270 SIM FIC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020	×	××××	×	×	×	×	×	××	X	XX	X	X	X	×	×	X	>
NDMA 1625 Formaldehvde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SiM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) erchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SiM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020		××××	×	×	×	×	×	××	X	XX	×	×	×	X	×	X	*
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Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dloxane 8260 SIM VOCs 8260 Pesticldes 8081 Herbicldes 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) erchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHS 8270 SIM FAHS 8270 SIM FIC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020		××××	×	×	×	×	×	××	X	XX	X	×	X	×	×	X	×
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Type/No of Containers	1 - 4 oz glass	2 - SS-Sleeve	6 - 16 oz glass	2 - 16 oz glass	2 - 16 oz glass	1 - 4 oz glass	2 - SS-Sleeve	2 - SS-Sleeve	1 - 4 oz glass	2 - 16 oz giass	6 - Encore	2 - Encore	2 - Encore	2 - Encore	2 - Encore	2 - Encore	2 - Encore
Preserv	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
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### Sample Delivery Group PH129

## acct#13013 Cot #1434351 Sangl #7379098-116 SSFL Phase 3 Chain of Custody

CDM Smith

11/14/2013 FedEx DateShipped: CarrierName: 797164273268 AirbillNo:

Contact Name:

Contact Phone:

(818)466-8007

Pam Hartman

COC No: Cooler #:

20131114-01

Lab:

Lab Phone:

Lab Address

717-556-7259

2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes RC for morpholine only. Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012
Energetics 8330
Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015

TPH-EFH 8015

TPH-GRO 8015

1,4 Dioxane 8260 SIM

VOCS 8260 Pesticides 8081 × Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 ,4 Dioxane 8270 SIM × TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soll) Metals 6010 and 6020 Turn Around 10 day 10 day 10 day 10 day 10 day 10 day 10 day 1 - 250 mL Amber Type/No of Containers 4 - 250 mL Amber 2 - 250 mL Poly 1 - 250 mL Poly 9 - 40 mL Vial 2 - 40 mL Vial 2-1 L Amber 2-1LAmber HNO3 pH<2 Preserv. None None None and None 끞 Matrix å å Š a a ă ă 11/14/13 15:30 11/14/13 15:30 11/14/13 15:30 11/14/13 15:30 11/14/13 15:30 11/14/13 15:30 11/14/13 15:30 11/14/13 15:30 Date/ Time Sample EB-111413 EB-111413 EB-111413 EB-111413 EB-111413 EB-111413 EB-111413 EB-111413

Special Instructions:	Andrew Colors or your command armost, caccer	and designments.	magne i magne alle de de deservir altre contro de contro	į		To the state of th	Sampler:	4				
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PH129 Page 153 of 5994 Page 138 of 143

acct #13013 Co #1434351 Sample #7379098716
SSFL Phase 3 Chain of Custody

CDM Smith

11/14/2013 DateShipped:

FedEx CarrierName:

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

COC No:

Lab Phone:

717-556-7259

Cooler #:

Lab Address

20131114-02

2425 New Holland Pike Lancaster, PA 17601

*****	Т		Τ-	_	Т-	T	Ι	Ţ
	Other Analysis/Notes					The second secon		
Mathyl Marayn, 162	_		ļ				-	_
Methyl Mercury 163 Organotii	Ţ							_
NDMA 162 Formaldehyde 831		_	-	-	+-	$\vdash$		├
Cyanide 901:	2					F	F	
Energetics 8330 Nitrates 300,0/9056						L		
Terphenyls 801: Alcohols 801:			ļ	_	L	$\vdash$		
Glycols 801	5	_					-	
TPH-EFH 8015 TPH-GRO 8015		×	$\vdash$	×	×	×	×	×
1,4 Dioxane 8260 SIM	1						!	
VOCs 8260 Pesticides 8081						ļ	: 	<del> </del> -
Herbicides 8151 Hex Cr 7196/7199							ļ	Ī
pH 9040 (Water						<del> </del>	 	
pH 9045 (Soil Perchlorate Confirm 6850/6860	<u>)                                    </u>		×	×	×	×	×	×
Perchlorate 314.0/331	<u> </u>							
PCBs/PCTs 8082 Dioxins 1613		×		×	×	×	×	×
1,4 Dioxane 8270 SIM PAHs 8270 SIM		×		×	×	×	×	×
TIC 8270		_					-	
SVOC 8270 Fluoride 300.0/9056						ļ 	İ	
Mercury 7470 (Water								
Mercury 7471 (Soil)  Metals 6010 and 6020		×		×	×	S	×	×
Turn Around	1042	Tonas	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of	2-55-510010	יל - מתחובם אם	1-4 oz glass	2 - 16 oz glass	2 - 16 oz glass	2 - 16 oz glass	2 - 16 oz glass	2 - 16 oz glass
Process	Mone	HOILE	None	None	None	None	None	None
Matrix	S	3	SO	So	SO	SO	SO	S
Date/	11/14/13 09:35	200000000000000000000000000000000000000	11/14/13 09:35	11/14/13 09:47	11/14/13 09:55	11/14/13 10:02	11/14/13 10:09	11/14/13 09:18
gumes	ST STATE OF	ביט-טיט-פר-אטאר-סטר-	SL-508-SA5A-SB-0.0-0.5	SL-508-SA5A-SB-4.0-5.0	SL-508-SA5A-SB-9.0-10.0	SL-508-SA5A-SB-17.0-18.0	SL-508-SA5A-SB-21.0-22.0	SL-508-SA5A-SB-33.0-34.0

Special Instructions:					Sampler				
Relinquished by Date Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
11/14/13 1500			**************************************						
		/	100					/	
			/		/				/
					/	/	NICHIEL	[m]	21511
								7	515

PH129 Page 154 of 5994 Page 139 of 143

# acet #13013 Cp \*1434351 Sample #72740987116

Contact Name:

797164273268

AirbillNo:

11/14/2013 FedEx

DateShipped: CarrierName:

CDM Smith

Contact Phone: (818)466-8007

Pam Hartman

COC No: Cooler #: Lab:

20131114-03

Lancaster 717-556-7259

> Lab Phone: Lab Address

2425 New Holland Pike Lancaster, PA 17601

		Γ	Τ	Γ	T	Τ	ļ	Τ-	-	Т-	T
	Votes										
	Other Analysis/Notes										
	er Ana										
	흉								-		
			L								
Methyl Mercury 163 Organot	tin		L	_	<u> </u>			_			
NDMA 162 Formaldehyde 833			L		-	L	-	-	L		
Cyanide 90: Energetics 83:						_	$\vdash$		_	L	
Nitrates 300.0/905 Terphenyls 803	15_		-	-	-			L	-	-	L
Alcohols 803 Glycols 803				-	_		$\vdash$	<u> </u>		$\vdash$	
TPH-EFH 803 TPH-GRO 803		×	×	×	: ×	×	×	×	<b>×</b>	×	×
1,4 Dioxane 8260 SI VOCs 826	M	×	E	F	$\vdash$	F	F	F	×	∶∣×	×
Pesticides 808 Herbicides 815	31						-		-	-	
Hex Cr 7196/719 pH 9040 (Wate	99			1	F	ļ	1		ļ	_	-
pH 9045 (So Perchlorate Confirm 6850/686	il)		<u> </u>	-	-		-	ļ	<u> </u>		ļ
Perchlorate 314.0/33 PCBs/PCTs 808	31		ļ	-	-		-	<u> </u>	-	_	
Dioxins 161 1,4 Dioxane 8270 SII	L3			_					-		-
PAHs 8270 SI	M							F	<u>                                     </u>		
TIC 827 SVOC 827	70			-			Ė		<u> </u>		
Fluoride 300.0/905 Mercury 7470 (Wate	r)			<u>'</u>			_	_			
Mercury 7471 (So Metals 6010 and 602					<u> </u>		<u> </u>		_		
Turn	Time	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
≥/No of	tainers	0 mL Viai	Encore	Encore	Encore	Encore	Encore	Encore	Encore	Encore	Encore
Type	Son	9-40	2-	2-	2-	2-	2-1	2-6	24-1	8-8	8-1
	Preserv.	ᇁ	None	None	None	None	None	None	None	None	None
	Matrix	WQ	S	S	SO	SO	S	S	S	S	SO
Date/	Time	11/14/13 08:00	11/14/13 09:47	11/14/13 09:55	11/14/13 10:02	11/14/13 10:09	11/14/13 09:18	11/14/13 13:50	11/14/13 14:20	11/14/13 14:25	11/14/13 14:35
	Sample	B-111413	SL-508-SA5A-SB-4.0-5.0	SL-508-SA5A-SB-9.0-10.0	SL-508-SA5A-SB-17.0-18.0	SL-508-SA5A-SB-21.0-22.0	SL-508-SA5A-SB-33.0-34.0	SL-521-SA5A-SB-9.0-10.0	L-521-SA5A-SB-11.0-12.0MS	SL-821-SA5A-SB-11.0-12.0	SL-521-SA5A-SB-14.0-15.0

O coordinates							Sampler:					
Special filsti ucciolis.	***************************************							5				
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Lime	Received by	Date	Time	
	000) El/hl/11	0001	/									
					PERSONAL SELECTION							
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									) Vewy//	7	11513	3
		/						+	1	1		

PH129 Page 155 of 5994 Page 140 of 143

# acct\*13013 (प्रमामअम३५१ Sangle\* 7379098-116 SSFL Phase 3 Chain of Custody

CDM Smith

11/14/2013 DateShipped:

FedEx CarrierName: 797164273268 AirbillNo:

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

COC No:

20131114-04

Lab:

Lab Address

Cooler #:

Lab Phone:

717-556-7259 Lancaster

2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Analyze TIC for morpholine only. Analyze TIC for morpholine only. Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315 × × Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) ×× Perchlorate Confirm 6850/6860 × PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 10 day X X Turn Around 10 day 10 day Type/No of Containers 2 - 16 oz glass 2 - 4 oz glass 2 - SS-Sleeve Preserv. None None None Matrix 8 8 ß 11/14/13 13:18 11/14/13 13:50 11/14/13 13:18 Date/ Time SL-521-SA5A-SB-0.0-0.5 SL-521-SA5A-SB-9.0-10.0 SL-521-SA5A-SB-11.0-12.0N SL-821-SA5A-SB-11.0-12.0 SL-521-SA5A-SB-14.0-15.0 SL-521-SA5A-SB-0.0-0.5

	X Analyze TIC for morpholine only. X Analyze TC for morpholine only.	X X X X X X X X X X X X X X X X X X X	X   Analyze TiC for morpholine on   X   Analyze TiC for morpholine on   Analyze TiC for morp	Time Received by Date	Time Received by Date
	Sample	Sampler:	Sampler:	Sampler:	Sampler:
× × × × × ×	X X X X X X X X X X X X X X X X X X X	X X   X	nquished by	nquished by	nquished by
		Tim	in the second se	Tim	Tin
None 2 - 16 oz glass					
S		Time	A MANAGEMENT AND A SECOND ASSESSMENT ASSESSM		
	tructions:	tructions:			
None 2-16 oz glass 10 day X X X X X X X X X X X X X X X X X X X	Sampler:	Sampler: Sampler: Date Time Relinquished by Date Time Received b	Date Time Received by Date Time Relinquished by Date Time Received b	Date Time Received by Date Time Relinquished by Date Time Received by	Date Time Received by Date Time Relinquished by Date Time Received b

PH129 Page 156 of 5994 Page 141 of 143

### Sample Delivery Group PH131

20131118-01

## SSFL Phase 3 Chain of Custody

Contact Name:

8017 8586 9939

AirbillNo:

11/18/2013 FedEx

DateShipped: CarrierName:

CDM Smith

Pam Hartman Contact Phone:

(818)466-8007

Cooler #: Lab:

COC No:

Lab Phone:

Lab Address

2425 New Holland Pike

717-556-7259

Lancaster

Lancaster, PA 17601

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) ×× Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 × × Dioxins 1613 1,4 Dioxane 8270 SIM × × TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) × X Metals 6010 and 6020 10 day Turn Around 10 day Time 10 day 10 day 10 day Type/No of Containers 3 - 40 mL Vial 2 - SS-Sleeve 1-4 oz glass 2-16 oz glass 2 - Encore Preserv. None None None None ᄗ Matrix Š 8 S ß ß 11/18/13 09:05 11/18/13 08:00 11/18/13 08:56 11/18/13 08:56 11/18/13 09:05 Date/ Time

	×	ampler:
10 day	.0 day	Sar
2-Encore 10	2 - Encore 10	
None	None	
SO	SO	
11/18/13 14:00	11/18/13 14:34	
SL-735-SA5A-SB-2.5-3.5	SL-736-SA5A-SB-3.0-4.0	Special Instructions:

×

×

××

×

×

×

10 day

10 day

2-Encore

10 day

1-4 oz glass 2-16 oz glass

> None None None None

None

11/18/13 10:10

S ន្តន

SL-696-SA5A-SB-4.0-5.0 SL-696-SA5A-SB-4.0-5.0 SL-709-SA5A-SB-0.0-0.5 SL-709-SA5A-SB-0.0-0.5

SL-696-SA5A-SB-0.0-0.5 SL-696-SA5A-SB-0.0-0.5

Sample

×

×

×

10 day

6 - 16 oz glass

None

S S S S S S

11/18/13 10:20 11/18/13 10:15 11/18/13 10:15

> SL-709-SA5A-SB-4,0-5,0MS SL-709-SA5A-SB-4.0-5.0MS

SL-1009-SA5A-SB-4.0-5.0 SL-1009-SA5A-SB-4.0-5.0

10 day

6-Encore

×

10 day

2 - 16 oz glass

10 day

2 - Encore

11/18/13 10:25 11/18/13 14:00

11/18/13 10:25

SL-709-SA5A-SB-8.0-9.0 SL-709-SA5A-SB-8.0-9.0

××

×

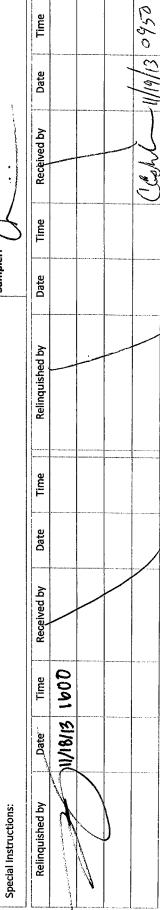
×

×

×

10 day

2 - SS-Sleeve



PH131 Page 117 of 2584 Page 107 of 110

COC: 20131113-01, Fage 1 of 1

COC Rev 2

Contact Name:

8017 8586 9939

AirbillNo:

11/18/2013 FedEx

DateShipped: CarrierName:

CDM Smith

(818)466-8007 Pam Hartman Contact Phone:

COC No: Cooler #:

20131118-02

Lab Phone:

717-556-7259

Lancaster

Lab Address

2425 New Holland Pike

Lancaster, PA 17601

Time Other Analysis/Notes Date Received by Methyl Mercury 1630 Organotin NDMA 1625
Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056 Terphenyls 8015 Time Alcohols 8015 Glycols 8015

Glycols 8015

TPH-EFH 8015

TPH-GRO 8015

1,4 Dioxane 8260 SIM × × × × Sampler: Date VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) × ×× Relinquished by Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 ×× × PCBs/PCTs 8082 Dioxins 1613 × × × 1,4 Dioxane 8270 SIM × × × ×× PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) ×× × × × × Mercury 7471 (Soil) Metals 6010 and 6020 Time Turn Around Time 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Date Type/No of Containers 2 - 16 oz glass 1 - 4 oz glass 2 - SS-Sleeve 1-4 oz glass 1-4 oz glass 2 - SS-Sleeve 2 - 16 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass Received by Preserv. None None None None None None None None None None 1605 Matrix Time 8 8 8 8 8 8 S S ន្តន 11/18/13 13:22 11/18/13 14:00 11/18/13 13:57 11/18/13 12:50 11/18/13 14:30 11/18/13 12:50 11/18/13 14:34 Date/ Time (18/13 Date Relinquished by SL-722-SA5A-SB-0.0-0.5 SL-722-SA5A-SB-0.0-0.5 SL-710-SA5A-SB-0.0-0.5 SL-710-SA5A-SB-0.0-0.5 SL-735-SA5A-SB-0.0-0.5 SL-735-SA5A-SB-0.0-0.5 SL-735-SA5A-SB-2.5-3.5 SL-736-SA5A-SB-0.0-0.5 SL-736-SA5A-SB-0.0-0.5 SL-736-SA5A-SB-3.0-4.0 Special Instructions:

PH131 Page 118 of 2584 Page 108 of 110

COC: 20131113-02, Fage 1 of 1

0850

### Sample Delivery Group PH132

8L-49448CL 1435353

SSFL Phase 3 Chain of Custody

13013

COC No:

Cooler #: Lab:

(818)466-8007 Pam Hartman

Contact Phone: Contact Name:

7971 9966 9043

AirbillNo:

11/19/2013 FedEx

DateShipped: CarrierName:

CDM Smith

20131119-01

717-556-7259

2425 New Holland Pike Lancaster, PA 17601

Lab Phone:

Lab Address

Other Analysis/Notes Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 ××× ×× TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) × pH 9045 (Soil) × × × Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 × × × × PCBs/PCTs 8082 Dioxins 1613 × × 1,4 Dioxane 8270 SIM
PAHs 8270 SIM
TIC 8270
SVOC 8270 × × Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 × × × × Turn Around 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of 2-16 oz glass 2-16 oz glass 2-16 oz glass 2-16 oz glass Containers 3-40 mL Vial 2 - SS-Sleeve 2-4 oz glass 2 - SS-Sleeve 1-4 oz glass 6 - Encore 6 - Encore 2 - Encore 2 - Encore 2 - Encore None None None None None None None None None None None 랖 Matrix ន្តន ន្តន S ն ն S ն 8 8 8 8 11/19/13 11:43 11/19/13 08:00 11/19/13 08:45 11/19/13 11:35 11/19/13 11:43 11/19/13 08:45 11/19/13 08;55 11/19/13 08:55 11/19/13 09:17 11/19/13 09:17 11/19/13 10:03 11/19/13 11:35 11/19/13 10:03 Date/ Time SL-518-SA5A-SB-15.0-16.0 SL-518-SA5A-SB-15.0-16.0 SL-518-SA5A-SB-10.0-11.0 SL-518-SA5A-SB-10.0-11.0 SL-518-SA5A-SB-7.0-8.0 SL-518-SA5A-SB-7.0-8.0 SL-596-SA5A-SB-0.0-0.5 3L-518-SA5A-SB-0.0-0.5 3L-518-SA5A-SB-0.0-0.5 SL-596-SA5A-SB-0.0-0.5 SL-596-SA5A-SB-4.0-5.0 SL-596-SA5A-SB-4.0-5.0 SL-708-SA5A-SB-4.0-5.0 Sample

Special Instructions:							Sampler:					
Relinguished by	Date	Time	Received by	Date	Time	Relinguished by	Date	Time	Received by	Date	Time	
X	1/19/13	非		/								
		<u> </u>								/		
							/					
									11 S.M. 1 1	7	<u>\( \) \( \)</u>	)[0]

PH132 Page 132 of 5905 Page 117 of 121

COC: 20131119-01, Fage 1 of 1

COC Rev 2

(818)466-8007 Pam Hartman

Contact Phone: Contact Name:

7971 9966 9043

AirbillNo:

11/19/2013 FedEx

DateShipped: CarrierName:

CDM Smith

13013 1435953

20131119-03

COC No: Cooler #: Lab: Lab Phone:

717-556-7259 Lancaster

2425 New Holland Pike

Lancaster, PA 17601

Lab Address

Methyl Mercury	16	30	1	T		T	1-	T	_
Orga	ino	tin		П					
NDMA	16	25	_	L	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$				L.
Formaldehyde	83	15	<u> </u>		<u> </u>	_	<u> </u>	_	
Cyanide	90	12	L	<u> </u>		_	<u> </u>	<u> </u>	
Energetics	83	30	ļ	_			L	L	
Nitrates 300.0			<u> </u>	<u> </u>	ļ	<u> </u>	L	_	
Terphenyls			ļ	<u> </u>	_	L			
Alcohols	80	15	<u> </u>	<u> </u>	<u> </u>	辶	<u> </u>	_	
Glycols			_	<u> </u>	ļ	_	_	<u> </u>	_
TPH-EFH			×	<b> </b>	×	_	×	×	
TPH-GRO			<u> </u>	<u> </u>	<u> </u>	ļ	ļ	<u> </u>	Ц.
1,4 Dioxane 826			ļ	ļ	<u> </u>		L	<u> </u>	<u> </u>
VOCs			<del> </del>	ļ	ļ	<u> </u>	<u> </u>	<u> </u>	ļ
Pesticides			×	ļ	×	ļ	×	<u> </u>	<u> </u>
Herbicides			<del> </del>	<b> </b>	<b>ļ</b> .	ļ	<u> </u>	<u> </u>	
Hex Cr 7196/		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ļ	ļ	ļ		ļ	ļ	ļ
pH 9040 (W		·	ļ	L.			ļ.,	ļ	l
pH 9045			ļ	×	<del> </del>	×	×		×
erchlorate Confirm 6850/			ļ		<del> </del>	ļ	ļ	ļ	<b> </b>
Perchlorate 314.0			_	-		ļ	-		
PCBs/PCTs			×		×		×	<del>-</del>	
Dioxins			-		×	ļ	×	×	
1,4 Dioxane 827			×	<del> </del>	×		×	×	
PAHs 827			-		-	<del> </del>	_	_	-
TIC					<del> </del>	<b> </b>		ļ	
SVOC						-			
Fluoride 300.0/ Mercury 7470 (W					<del> </del>				
Mercury 7471			×		¥		×	×	
Metals 6010 and			×		×	-	×	×	
					-				-
_	힏	a	-	ڃ ا	2	≥	≥	≥	2
Tum	7	Time	10 day	10 day	10 day	10 day	10 day	10 day	10 day
-	¥	_	-	7	7	+	a	H	4
					<u> </u>	ļ	ļ		$\vdash$
	÷	'n	_ :				92	4.	
	ype/No of	Containers	6 - 55-Sleeve	3-4 oz glass	2 - SS-Sleeve	1-4 oz glass	2 - 16 oz glass	2 - SS-Sleeve	1 - 4 oz głass
	ζ	Ē	15.	9 20	첉	20	8	-Se	9 20
	ğ	ᇹ	ķ	-4	اين ا	4	19	-SS	-4
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		خ							
		Sel	None	None	None	None	None	None	None
		Preserv.	Ž	Ž	ž	Ž	ž	ž	ž
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		2	5	S	ς	ı» ا	S	S	v

11/19/13 14:15

11/19/13 14:15 Date/ Time

> SL-708-SA5A-SB-0.0-0.5MS SL-708-SA5A-SB-0.0-0.5MS SL-1008-SA5A-SB-0.0-0.5 SL-1008-SA5A-SB-0.0-0.5 SL-708-SA5A-SB-4.0-5.0 SL-732-SA5A-SB-0.0-0.5 SL-732-SA5A-SB-0.0-0.5

11/19/13 14:10 11/19/13 14:24 11/19/13 13:38 11/19/13 13:38

Other Analysis/Notes

	Time			/	3/10/
	Date		/		11.90
:/	Received by				hueweh,
	Time			,	
Sampler:	Date		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
	Relinquished by	/			
	Time				
	Date			7	
	Received by				
	Time	1400	00 31		
	Date	1/19/13	•		1
Special Instructions:	Relinquished by	100			

PH132 Page 133 of 5905 Page 118 of 121

COC: 20131119-03, Page 1 of 1

20131119-02

(3013

## SSFL Phase 3 Chain of Custody

CDM Smith

11/19/2013 DateShipped:

FedEx CarrierName:

Contact Name:

Contact Phone: (818)466-8007

Pam Hartman

Cooler #: Lab:

COC No:

Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601

717-556-7259

Lancaster

	1	Т	Т	T	Т
Other Analysis / Motes		Analyze TIC for morpoline only, please.			
Methyl Mercury 1630 Organotin	$\vdash$	$\vdash$	F	F	
NDMA 1625	1			1	
Formaldehyde 8315 Cyanide 9012	╁	×		-	<u> </u>
Energetics 8330				1	
Nitrates 300.0/9056 Terphenyls 8015	╁	╁╴	>	-	┼
Alcohols 8015	_	_	F		1
Glycols 8015 TPH-EFH 8015	$\perp$	╁	×	+	$\vdash$
TPH-GRO 8015 1,4 Dioxane 8260 SIM	×	-		-	-
VOCs 8260	×		_		
Pesticides 8081 Herbicides 8151	-	×	-	  ×	-
Hex Cr 7196/7199	ļ				×
pH 9040 (Water) pH 9045 (Soil)	1	-	H	╁┈	×
Perchlorate Confirm 6850/6860	ļ	<u> </u>	<u> </u>	-	-
Perchlorate 314.0/331 PCBs/PCTs 8082		×			
Dioxins 1613 1,4 Dioxane 8270 SIM	-	├	-	×	ļ
PAHs 8270 SIM	1_	×			
TIC 8270 SVOC 8270		×		┼	<del> </del>
Fluoride 300.0/9056					×
Mercury 7470 (Water) Mercury 7471 (Soil)					
Metals 6010 and 6020	┼-		-	-	×
Turn Around Time	10 day	10 day	10 day	10 day	10 day
Type/No of Containers	9 - 40 mL Vial	5 - 250 mL Poly	3-1 L Amber	3-1LAmber	3 - 250 mL Poly
Preserv	PQ.	None	딮	None	None
Matrix	WQ	WQ	WQ	WQ	δM
Date/ Time	11/19/13 15:00	11/19/13 15:00	11/19/13 15:00	11/19/13 15:00	11/19/13 15:00
Sample	B-111913	B-111913	EB-111913	EB-111913	EB-111913

Relinquished by Date Time Received by Date Time Received by Date Time Received by Date	Special Instructions:					erite etterneri		Sampler:	i.			
11/19/13 15 10	Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
J. J. J. J. J. J. J. J. J. J. J. J. J. J		11/19/1:	31510			14 - 14 13 14 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18						
Wenner 1130	)											***************************************
Wenner 1130								/				
		/							j.	1 Svemel	130	11) (1)

PH132 Page 134 of 5905 Page 119 of 121

### Sample Delivery Group PH133

# SSFL Phase 3 Chain of Custody 13013 1436294 729075464

CDM Smith

11/22/2013 DateShipped:

CarrierName:

AirbillNo: 7972 3287 2931 FedEx

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

COC No:

Cooler #:

Lab Phone:

Lancaster

Lab Address

717-556-7259 2425 New Holland Pike Lancaster, PA 17601

Other Analysis/Notes Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373 Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 × × TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 × × Herbicides 8151 pH 9045 (Soil) ×× × Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 × × × × × × Dioxins 1613 4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) × × Mercury 7471 (Soll) Metals 6010 and 6020 × × 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 1-4 oz glass 2 - 16 oz glass 2 - 16 oz glass 3 - 40 mL Vial 2 - 16 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass 6 - SS-Sleeve 3-4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 2-Encore 2 - Encore 2-Encore None None None None None None None None HG None None None None S S S S S S Š S ន្តន S S S S S 11/22/13 14:40 11/22/13 11:33 11/22/13 11:15 11/22/13 13:30 11/22/13 13:42 11/22/13 14:35 11/22/13 11:33 11/22/13 11:15 11/22/13 11:21 11/22/13 11:21 11/22/13 08:00 11/22/13 13:30 11/22/13 13:42 11/22/13 14:35 11/22/13 14:40 Date/ Time SL-686-SA5A-SB-0.0-0.5MS SL-686-SA5A-SB-0.0-0.5MS SL-673-SA5A-SB-10.5-11.5 SL-673-SA5A-SB-10.5-11.5 SL-673-SA5A-SB-0.0-0.5 SL-673-SA5A-SB-4.0-5.0 SL-673-SA5A-SB-4.0-5.0 SL-673-SA5A-SB-0.0-0.5 SL-676-SA5A-SB-0.0-0.5 SL-676-SA5A-SB-0.0-0.5 SL-676-SA5A-SB-4.0-5.0 SL-676-SA5A-SB-4.0-5.0 SL-986-SA5A-SB-0.0-0.5 SL-986-SA5A-SB-0.0-0.5 TB-112213

Special Instructions:							Sample	4		<b>,</b>	
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
X	11/24/13 1545	1545						\			
		\									
											4.
									110011	100	1

PH133 Page 87 of 2648 Page 77 of 79

COC: 20131132-02, Fage 1 of 1

COC Rev 3

#### Sample Delivery Group PH134

12-09088ET E0838H1 51081

COC No:

20131125-01

Lancaster

717-556-7259

2425 New Holland Pike Lancaster, PA 17601

Lab Phone:

Lab: Cooler #:

(818)466-8007 Pam Hartman

Contact Phone: Contact Name:

11/25/2013 FedEx

DateShipped: CarrierName:

AirbillNo:

CDM Smith

Lab Address

Other Analysis/Notes nclude Morpholine in TIC Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373 Methyl Mercury 1630 Organotics NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 × TPH-GRO 8015 1,4 Dioxane 8260 SIM × VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) ×× ×× pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 × × × PCBs/PCTs 8082 × Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 × × × SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 × × 10 day X X × × Turn Around Time 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 2-16 oz glass 2 - SS-Sleeve 2 - SS-Sleeve 1-4 oz glass 6 - SS-Sleeve 6-4 oz glass 3 - 40 mL Vial 2-4 oz glass 2 - SS-Sleeve 1-4 oz glass 2 - Encore None None None None None None None None None 8 8 ន្តន ß á S S ន្តន 11/25/13 10:02 11/25/13 08:50 11/25/13 08:50 11/25/13 10:10 11/25/13 10:10 11/25/13 11:50 11/25/13 11:50 11/25/13 08:00 11/25/13 14:20 11/25/13 14:20 Date/ Time SL-715-SA5A-SB-0.0-0.5IMS SL-715-SA5A-SB-0.0-0.5MS SL-1015-SA5A-SB-0.0-0.5 SL-1015-SA5A-SB-0.0-0.5 SL-584-SA5A-SB-0.0-0.5 SL-715-SA5A-SB-6.0-7.0 SL-715-SA5A-SB-6.0-7.0 SL-584-SA5A-SB-0.0-0.5 SL-631-SA5A-SB-0.0-0.5 SL-631-SA5A-SB-0.0-0.5 TB-112513

Special Instructions:							Sampler:	er: R 1/10.	R Harden briger	rger	
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
	11/2/13 1600	1600					,				
		· ·									
									( Call	1/20/13	5530 Slps/
						/					

PH134 Page 86 of 2607 Page 76 of 78

COC. 20131125-02, Fags 1 of 1

#### Sample Delivery Group PH135

### 24-454565 8417841 51051

## SSFL Phase 3 Chain of Custody

DateShipped: CarrierName: CDM Smith AirbillNo:

11/26/2013 FedEx

797258714660

Contact Name:

(818)466-8007 Contact Phone:

Pam Hartman

COC No: Cooler #:

20131126-01

Lab:

Lab Phone:

Lab Address

717-556-7259

Lancaster

2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373 Methyl Mercury 1630
Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 ×× × × TPH-EFH 8015 × TPH-GRO 8015 × ,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 ×× ×× ×× Perchlorate 314.0/331 × × × × × × × × × Dioxins 1613 L,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) × × Mercury 7471 (Soil) Metals 6010 and 6020 × × × × × 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day Type/No of Containers 2 - 16 oz glass 2 - SS-Sleeve 3 - 40 mL Vial 2 - 16 oz glass 2 - 16 oz glass 1-4 oz glass 2 - SS-Sleeve 1 - 4 oz glass 1-4 oz glass 2 - SS-Slaeve 1-4 oz glass 2 - SS-Sleeve 1-4 oz glass 2 - SS-Sleeve 1-4 oz glass 2 - Encore 2 - Encore 1 - Encore None None None None None None None None None None None None None 모 S S WQ გ S ß S S S ပ္ပ S S S S 8 8 SO S 11/26/13 01:15 11/26/13 09:40 11/26/13 09:40 11/26/13 10:40 11/26/13 08:00 11/26/13 01:20 11/26/13 01:20 11/26/13 01:55 11/26/13 08:45 11/26/13 08:45 11/26/13 10:10 11/25/13 10:10 11/26/13 10:40 11/26/13 01:15 11/26/13 01:55 11/26/13 09:00 11/26/13 09:00 11/26/13 02:05 11/26/13 02:05 Date/ SL-767-SA5A-SB-0.0-0.5 SL-767-SA5A-SB-2.5-3.5 SL-767-SA5A-SB-2.5-3.5 SL-738-SA5A-SB-3.0-4.0 SL-713-SA5A-SB-0.0-0.5 SL-713-SA5A-SB-0.0-0.5 SL-713-SA5A-SB-2.5-3.5 SL-713-SA5A-SB-2.5-3.5 SL-719-SA5A-SB-0.0-0.5 SL-720-SA5A-SB-0.0-0.5 SL-720-SA5A-SB-0.0-0.5 SL-724-SA5A-SB-0.0-0.5 SL-724-SA5A-SB-0.0-0.5 SL-738-SA5A-SB-0.0-0.5 SL-738-SA5A-SB-3.0-4.0 SL-719-SA5A-SB-0.0-0.5 SL-738-SA5A-SB-0,0-0,5 SL-767-SA5A-SB-0.0-0.5 TB-112613

Rec by Bushelbar

PH135 Page 104 of 3896 Page 90 of 98

COC. DOLLAGOL Fage 1 of 1

# 13013 /1437148 / 1295434-45 **SSFL Phase 3 Chain of Custody**

	11/26/2013
CDM Smith	DateShipped:

CarrierName:

FedEx AirbillNo:

797258714660

Contact Name: Pam Hartman

(818)466-8007 Contact Phone:

Lab: Lab Phone:

717-556-7259

Lancaster

20131126-01

COC No: Cooler #: 2425 New Holland Pike Lancaster, PA 17601

Lab Address

Revised COC NUMIZITHS

	Other Analysis/Notes																			
•	Other																			
Grain Size ASTM 2488-0 TOC SM 531					_										_			_		
Calc Nitrate, Nitrite, Th	(N	_					ļ.,									-				
Methyl Mercury 16: Organo			$\vdash$			-	-		_		-		-	-		-	_			
NDMA 16	25																			
Formaldehyde 83 Cyanide 90		$\vdash$	┝		-	-	-	<u> </u>	_	<u>                                       </u>	-	-			<u> </u>	-				
Energetics 83	30																			
Nitrates 300.0/909 Terphenyls 80		-		-		×	H	×		ļ 	-	-			-					
Alcohols 80:	15																			
Glycols 80 TPH-EFH 80		×		×	<u> </u>	×		×		×			×		×		×		×	
TPH-GRO 80:	15			Ë	×							×				×				×
1,4 Dioxane 8260 SI VOCs 820			-	-	<u> </u>	-		<u> </u>					_	$\vdash$						
Pesticides 80	81																			_
Herbicides 81: Hex Cr 7196/71:		-	$\vdash$	-				-			-		-	-	$\vdash$		_		_	
pH 9040 (Wate	er)		<u> </u>			_														
pH 9045 (So Perchlorate Confirm 6850/686			×	×		-	×	1	×	-	×			×	×			×	<u>×</u>	
Perchlorate 314.0/33	31	Ţ.		Ţ.				_					_						ļ	
PCBs/PCTs 808 Dioxins 16		×	$\vdash$	×		×	ļ	×	<u> </u>	×			×		×		×	-	×	
1,4 Dioxane 8270 Si	M																			_
PAHs 8270 Si TIC 82		×	-	×		×		×		×	-	ļ	×		×		×	_	×	
SVOC 82	70																Ţ			
Fluoride 300.0/905 Mercury 7470 (Wate		-	-			<u> </u> 			-					-						
Mercury 7471 (So	il)	×		×		×		×		×			×		×		×		×	
Metals 6010 and 602		×	_	×		×		×		×	-		×		X		×		×	
Turn	Time	10 day	10 day	yeb Ot	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of	Containers	2 - SS-Sleeve	1 - 4 oz giass	2 - 16 oz glass	2 - Encore	2 - SS-Sleeve	1 - 4 oz glass	2 - SS-Sleeve	1 - 4 oz glass	2 - SS-Slaeve	1 - 4 oz glass	3 - 40 mL Vial	2 - SS-Sleeve	1 - 4 oz glass	2 - 16 oz glass	2 - Encore	2 - SS-Sleeve	1 - 4 oz glass	2 - 16 oz glass	1 - Encore
	Preserv.	None	None	None	None	None	None	None	None	None	None	на	None	None	None	None	None	None	None	None
	Matrix	S	S	os	S	S	SS	80	os	S	SO	WQ	S	so	S	SO	SO	8	S	S
Date/	Time	11/26/13 08:45	11/26/13 08:45	11/26/13 09:00	11/26/13 09:00	11/26/13 09:40	11/26/13 09:40	11/26/13 10:10	11/26/13 10:10	11/26/13 10:40	11/26/13 10:40	11/26/13 08:00	11/26/13 01:15	11/26/13 01:15	11/26/13 01:20	11/26/13 01:20	11/26/13 01:55	11/26/13 01:55	11/26/13 02:05	11/26/13 02:05
	Sample	SL-713-SA5A-SB-0.0-0.5	SL-713-SA5A-SB-0.0-0.5	SL-713-SA5A-SB-2.5-3.5	SL-713-SA5A-SB-2.5-3.5	SL-719-SA5A-SB-0.0-0.5	SL-719-SA5A-SB-0.0-0.5	SL-720-SA5A-SB-0.0-0.5	SL-720-SA5A-SB-0.0-0.5	SL-724-SA5A-SB-0.0-0.5	L-724-SA5A-SB-0.0-0.5		SL-738-SA5A-SB-0.0-0.5	SL-738-SA5A-SB-0.0-0.5	L-738-SA5A-SB-3.0-4.0	SL-738-SA5A-SB-3.0-4.0	SL-767-SA5A-SB-0.0-0.5	SL-767-SA5A-SB-0.0-0.5	SL-767-SA5A-SB-2.5-3.5	SL-767-SA5A-SB-2,5-3.5

## SSFL Phase 3 Chain of Custody

FedEx DateShipped: CarrierName: CDM Smith AirbillNo:

11/26/2013

797258714660

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

Cooler #: COC No:

13013 1437148 7295434-4S

20131126-01

Lab:

Lancaster 717-556-7259

Lab Phone:

Lab Address

2425 New Holland Pike

Lancaster, PA 17601

alysis/Notes Grain Size ASTM 2488-09 TOC ASTM D531 Total Nitrogen ASTM D537 Methyl Mercury 163 Organoti NDMA 162 Formaldehyde 831 Cyanide 901 Energetics 833 Nitrates 300.0/905 Terphenyls 801
Alcohols 801
Glycols 801
TPH-EFH 801 TPH-GRO 801 1,4 Dioxane 8260 SIN VOCs 826 Pesticides 808 Herbicides 815 Hex Cr 7196/719 pH 9040 (Wate pH 9045 (So Perchlorate Confirm 6850/686 Perchlorate 314.0/33 PCBs/PCTs 808 Dioxins 161 1,4 Dioxane 8270 SII SVOC 827 Fluoride 300.0/905 Mercury 7470 (Water Mercury 7471 (Soi Metals 6010 and 602

Other Anal	
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Time	
Containers	
Preserv.	
Matrix	
Time Matrix	

Type/No of Around

Date/

Sample

ecial Instructions:						Sampler	In the	1. 14al		
Relinduished by Date Time	me	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
m/1 1 112613 1600	9,		Service Service and the							
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	/							Busy //	11/	19913
										7

PH135 Page 106 of 3896 Page 92 of 98

COC Rev 3

8417841

## SSFL Phase 3 Chain of Custody

CDM Smith

11/26/2013 DateShipped:

CarrierName:

FedEx

AirbillNo: 797258714660

Contact Name:

Contact Phone:

(818)466-8007

Pam Hartman

13013 COC No: Cooler #:

20131126-02

Lab Address Lab Phone:

2425 New Holland Pike

717-556-7259 Lancaster

Lancaster, PA 17601

Other Analysis/Notes Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373 Methyl Mercury 1630 Organotin
NDMA 1625
Formaldehyde 8315
Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015 TPH-GRO 8015 ,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 Dioxane 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around 10 day 10 day 10 day 10 day 10 day 10 day 10 day 1 - 250 mL Amber Type/No of Containers 1 - 250 mL Amber 1 - 250 mL Poly 1 - 250 mL Poly 1-1l Amber 2-1LAmber 3 - 40 mL Vial 1-1LAmber Preserv. HNO3 pH<2 None E E E None None W W W W a w a 11/26/13 14:30 11/26/13 14:30 11/26/13 14:30 11/26/13 14:30 11/26/13 14:30 11/26/13 14:30 11/26/13 14:30 11/26/13 14:30 Date/ Time Sample EB1-112513 EB1-112613 EB1-112613 EB1-112613 EB1-112613 EB1-112613 EB1-112613 EB1-112613

ecial Instructions:	! :	i i					Sampler:	ampler:			
Relinquished by	Date	Time	Rec	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Genelle	112613 1606	1600	/			/					
/									To the second se		
						The second secon					
		   	2						18vem/ The	(CII)	3 1/1/5
								···		5 5 7	<u>(</u>

Special Instructions:

PH135 Page 107 of 3896 Page 93 of 98

COC. JOLN 1178-02, Page 1 of 1

(818)466-8007 Pam Hartman

Contact Phone: Contact Name:

797258714660

AirbillNo:

11/26/2013 FedEx

DateShipped: CarrierName:

CDM Smith

13013 1437148

24-48456CL

20131126-03

COC No: Cooler #: Lab:

Lancaster

717-556-7259

2425 New Holland Pike Lancaster, PA 17601

Lab Phone:

Lab Address

Other Analysis/Notes										
Other An										
Grain Size ASTM 2488-09a				_						
TOC ASTM D5310	-	-	_	H		-	ļ	-	<u> </u>	
Total Nitrogen ASTM D5373 Methyl Mercury 1630										
Organotin	-	ļ			_	<u> </u>	_			
NDMA 1625 Formaldehyde 8315	$\vdash$	H	-	-	-	-	$\vdash$	×	-	
Cyanide 9012										
Energetics 8330 Nitrates 300.0/9056	-	-	-	_				-		
Terphenyls 8015			H	-	-	-				-
Alcohols 8015	L		_			-				
Glycols 8015 TPH-EFH 8015	-	H	-	_	<u> </u>	×		H	-	
TPH-GRO 8015	<del> </del>				-		×	-		
1,4 Dioxane 8260 SIM										
VOCs 8260	ļ		<u> </u>		-			! 		
Pesticides 8081 Herbicides 8151	╁╌				ļ					
Hex Cr 7196/7199										×
pH 9040 (Water)	<u> </u>				×	ļ		ļ		İ
pH 9045 (Soil) Perchlorate Confirm 6850/6860	<del> </del>	-			_			ļ		
Perchlorate 314.0/331						ļ			******	
PCBs/PCTs 8082	ļ	ļ	×	×	ļ			ļ		
Dioxins 1613 1,4 Dioxane 8270 SIM	<u> </u>							<del> </del>	<b>.</b>	
PAHs 8270 SIM		×						ļ		<u> </u>
TIC 8270 SVOC 8270	<del> </del>			ļ				<u> </u>	×	
Fluoride 300.0/9056					ļ	L	 			
Mercury 7470 (Water)	×					ļ		Ĺ,		
Mercury 7471 (Soil) Metals 6010 and 6020	×		<u> </u>	ļ		<u> </u>		!		
	1				ļ·	ļ	-		********	
Turn Around Time	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of Containers	1-250 mL Poly	1 - 250 mL Amber	1-11 Amber	1 - 250 mL Amber	1-250 ml. Poly	2-1LAmber	3 - 40 mL Vial	1 - 250 mL Amber	1 - 250 mL Amber	1 - 250 mL Poly
Type/ Cont:	1-250	1-250 n	1-11	1-250 n	1-250	2-11	3-40	1-250 n	1-250 դ	1-250
Z.	DH<2	ā	e e	ē.	ā			e e	9	ē.
Preserv.	HNO3 pH<2	None	None	None	None	무	H	None	None	None
Matrix	WQ	WQ	WQ	WQ	WQ	W	WQ	WQ	WQ	WQ
Date/	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00	11/26/13 15:00
	11/2	11/2	11/2	11/2	11/2	11/2	11/2	11/2	11/2	11/2
Sample	B2-112613	B2-112613	B2-112613	B2-112613	EB2-112613	EB2-112613	EB2-112613	<b>-82-112613</b>	EB2-112613	EB2-112613
	ū	ω.	Ψ.	ш	ω.	Ū,	ш	ū	ш	ш

Time Date Received by Time Sampler: Date Relinquished by Time Date Received by Time 1/26/3/600 Date Relinquished by Special Instructions:

PH135 Page 108 of 3896 Page 94 of 98

#### Sample Delivery Group PH136

## SSFL Phase 3 Chain of Custody

DateShipped: CDM Smith

12/2/2013 FedEx

CarrierName:

797290597399

AirbillNo:

Contact Name:

Pam Hartman

Contact Phone:

(818)466-8007

COC No:

Cooler #: Lab:

Lab Phone:

Lab Address

2425 New Holland Pike Lancaster, PA 17601

Lancaster 717-556-7259

lysis/Notes

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Grain Size ASTM 2488-09a TOC ASTM D5310			L	士	$\perp$		1
Total Nitrogen ASTM D5373 Methyl Mercury 1630		-	+	-	-	-	
Organotin			-		$\perp$	1-	1
NDMA 1625	+	+	+-	+-	-	-	-
Formaldehyde 8315 Cyanide 9012	+	$\perp$		+	$\vdash$	-	
Energetics 8330			L	-	T	I	
Nitrates 300.0/9056 Terphenyls 8015	+	+	+-	╁	╁	-	┼-
Alcohols 8015		L				-	
Glycols 8015 TPH-EFH 8015	+	×	+		+	i-	<del> </del>
TPH-GRO 8015	ļ		×			T	Ι.
1,4 Dioxane 8260 SIM VOCs 8260	+	$\vdash$	╁	-	-	-	├
Pesticides 8081				L	1	<u>†                                    </u>	
Herbicides 8151 Hex Cr 7196/7199			ļ	-	-	<u> </u>	ļ
pH 9040 (Water)		1	_	1-		×	
pH 9045 (Soil)	-	ļ	ļ	[	-	<u> </u>	ļ
erchlorate Confirm 6850/6860 Perchlorate 314.0/331	-	┼		┼	╁	ļ	
PCBs/PCTs 8082		1_			×		<u> </u>
Dioxins 1613 1,4 Dioxane 8270 SIM	+-	-		<del> </del>	-	-	×
PAHs 8270 SIM	1			×		<u> </u>	_
TIC 8270	L	$\vdash$	ļ	_		Ţ	
SVOC 8270 Fluoride 300.0/9056		<del> </del>	j	<del> </del>	<del> </del>	ļ	
Mercury 7470 (Water)	×			1		<u> </u>	
Mercury 7471 (Soil) Metals 6010 and 6020	×	<del> </del>	ļ	ļ		<u> </u>	
Turn Around	1	10 day	10 day	10 day	10 day	10 day	10 day
Type/No of Containers	1 - 250 mL Poly	2-1LAmber	3 - 40 mL Vial	1 - 250 mL Amber	1 - 250 mL Poly	1 - 250 mL Poly	1-1LAmber
Preserv	HNO3 pH<2	HG	HCI	None	None	NaOH	None
Matrix	WQ	WQ	WQ	W	WQ	WQ	WQ
Date/ Time	12/2/13 15:00	12/2/13 15:00	12/2/13 15:00	12/2/13 15:00	12/2/13 15:00	12/2/13 15:00	12/2/13 15:00
Sample	EB-120213	EB-120213	EB-120213	EB-120213	EB-120213	EB-120213	B-120213

4							Sampler:	" fanel	ed Harth		
1	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
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Special Instructions:

Relinguished by

PH136 Page 40 of 2726 Page 29 of 34

## SSFL Phase 3 Chain of Custody 3013 1437889 7398805-07

DateShipped: CDM Smith

12/2/2013

FedEx CarrierName:

797290597399 AirbillNo:

Contact Name:

(818)466-8007 Contact Phone:

Pam Hartman

COC No: Cooler #:

220131202-02

Lab:

Lab Phone:

Lab Address

717-556-7259 2425 New Holland Pike

Lancaster

Lancaster, PA 17601

Other Analysis/Notes Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373 Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 TPH-EFH 8015 Sampler: TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 ×× PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 × SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 × Turn Around 10 day 10 day 10 day 10 day Type/No of Containers 2 - SS-Sleeve 2-SS-Sleeve 1-4 oz glass 1-4 oz glass Preserv. None None None Matrix ß S ន្តន 12/2/13 02:45 12/2/13 01:20 12/2/13 02:45 12/2/13 01:20 Date/ Time SL-679-SA5A-SB-0.0-0.5 Special Instructions: SL-616-SA5A-SB-0.0-0.5 SL-679-SA5A-SB-0.0-0.5 SL-616-SA5A-SB-0.0-0.5 Sample

Date	e Time	Received by	Date	Time	Relinquished by	Date	ĮĮ.
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	/			/			
	/						

Relinquished by

Time

Received by

PH136 Page 41 of 2726 Page 30 of 34

COC: 229131702-03, Page 1 of 1

#### Sample Delivery Group PH138

SSFL Phase 3 Chain of Custody 13013 1438204 7300094-115

12/3/2013 DateShipped:

CDM Smith

CarrierName:

FedEx

Pam Hartman Contact Name:

(818)466-8007 Contact Phone:

Lab: Cooler #:

COC No:

Lab Phone:

717-556-7259

Lancaster

Lab Address

2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373
Methyl Mercury 1630
Organotin
NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 × TPH-EFH 8015 ×××××× TPH-GRO 8015 ×××: 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081  $\times \times \times \times \times$ × Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 10 day 1 - SS-Sleave Containers 1 - 16 oz glass 1-16 oz glass 2 - SS-Sleeve 1-SS-Sleeve 1 - SS-Sleave 1 - SS-Sleeve 1 - SS-Sleeve 1 - SS-Sleeve 1 - SS-Sleeve 6 - Encore 2 - Encore 2 - Encore 2 - Encore None None None None None None None None None None None None None S ၓွ ន ပ္ပ ន្តន S S S S S S S 12/3/13 14:45 12/3/13 09:35 12/3/13 10:00 12/3/13 10:20 12/3/13 10:55 12/3/13 13:50 12/3/13 10:20 12/3/13 13:30 12/3/13 09:20 12/3/13 09:35 12/3/13 10:20 12/3/13 10:45 12/3/13 09:40 12/3/13 13:05 12/3/13 13:40 SL-504-NBZ-SB-0.0-0.5MS SL-509-NBZ-SB-2.5-3.5MS SL-502-NBZ-SB-4.0-5.0 SL-502-NBZ-SB-4.0-5.0 SL-503-NBZ-SB-2.0-3.0 SL-503-NBZ-SB-2.0-3.0 SL-809-NBZ-SB-2,5-3,5 SL-502-NBZ-SB-0.0-0.5 SL-503-NBZ-SB-0.0-0.5 SL-804-NBZ-SB-0.0-0.5 SL-530-NBZ-SB-0.0-0.5 SL-531-NBZ-SB-0,0-0,5 SL-532-NBZ-SB-0.0-0.5 SL-533-NBZ-SB-0.0-0.5 SL-510-NBZ-SB-4,0-5,0

1 B-120313	00:80 ST/S/77	mar.		3-40 mL Viat	10 day		<b>X</b>				The state of the s
Special Instructions:					A STATE OF THE STA		Sampler	1	X	)	
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									11 12 10000		,

PH138 Page 83 of 2715 Page 74 of 78

1 COC: 29131203-01, Fage 1 of 1

COC Rev 3

COC No: Cooler #: Lab:

> (818)466-8007 Pam Hartman

Contact Phone: Contact Name:

Lancaster

2425 New Holland Pike

717-556-7259

Lancaster, PA 17601

Lab Phone:

Lab Address

Nitrates 300.0/9056
Terphenyls 8015
Alcohols 8015
Glycols 8015
TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081

pH 9045 (Soil)

PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM

PAHs 8270 SIM

Turn Around Time 10 day 10 day 10 day

> Containers 2-SS-Sleeve Type/No of

> > Preserv.

Matrix

Date/ Time

S 8 8 ន្តន S S

12/3/13 13:15

SL-509-NBZ-SB-0.0-0.5 SL-509-NBZ-SB-0.0-0.5

12/3/13 13:15 12/3/13 13:30

SL-509-NBZ-SB-2.5-3.5MS

SL-809-NBZ-SB-2.5-3.5 SL-510-NBZ-SB-0.0-0.5

6 - 16 oz glass 2-16 oz glass

1-4 oz glass

None None

TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020

Perchlorate Confirm 6850/6860 Perchlorate 314.0/331

Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373

Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315

Cyanide 9012 Energetics 8330

×× Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water)

 $\times \times \times$ 

× ×

××

Other Analysis/Notes

××

××

× ×

× ×

10 day 10 day

> 1-4 oz glass 2 - SS-Sleeve

None None

12/3/13 13:40 12/3/13 14:30 10 day 10 day

2 - 16 oz glass

None None

12/3/13 14:30 12/3/13 14:45

SL-510-NBZ-SB-4.0-5.0

SL-510-NBZ-SB-0.0-0.5

Sampler:

Received by Time Date Relinquished by

Time

Time

Date

Received by Time 2 12/3/13 Date Relinquished by Special instructions:

Date

7973 0122 0162

FedEx

COC: 20131203-03, Page 1 of 1

## **SSFL Phase 3 Chain of Custody**

Smith	
Sep	

12/3/2013 DateShipped: CarrierName:

FedEx

7973 0122 0162

AirbillNo:

Contact Name:

Contact Phone:

Pam Hartman

(818)466-8007

COC No: Cooler #:

Lancaster 717-556-7259

> Lab Phone: Lab Address

2425 New Holland Pike

Lancaster, PA 17601

Other Analysis/Notes Grain Size ASTM 2488-09a TOC ASTM D5310 Total Nitrogen ASTM D5373 Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315
Cyanide 9012
Energetics 8330
Nitrates 300.0/9056
Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 .4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 PCBs/PCTs 8082 Dioxins 1613 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 Turn Around Time 10 day Type/No of Containers 1 - 250 ml. Amber Preserv. None Matrix Š 12/3/13 15:00 Date/ Time Sample EB-120313

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ecial Instructions:			***************************************	apal dem de de la den all decreases .	entrale transmit and employmentally the employment		Sampier	Jan 1	1-4a	À		
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KIR	2/3/13	12/3/13 1600										
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