EBMUD Laboratory Analytical Report

EAST BAY MUNICIPAL UTILITY DISTRICT Laboratory Services Division PO Box 24055, MS 59, Oakland, CA 94623 Phone (510)287-1432 Fax (510)465-5462

California Environmental Laboratory Accreditation Program Certificate Number 1060

Laboratory Report - L123784

LSR # - B793-9512-1 Project Title: TRENCH SPOILS PROGRAM

Report generated on: Apr 24, 2006 03:22 pm

8 - Samples received by the lab on: Oct 18 2005, 11:20 am

0 - Lost Analyses 0 - Hold Time Exceedences Turn-around-time met

Client PM: SAFA TOMA

Lab PM: KENNETH GERSTMAN

This is an electronic transmittal of a Laboratory Analytical Report

Samples included	in this report:			
Sample Type	Collected	Site	Locator	ClientID
	18-Oct-2005 10:35	MISC	MISC	SD-1 WWTP South of Septage Rovg Station
	18-Oct-2005 10:45	MISC	MISC	SD-1 WWTP South of Septage Rovg Station
	18-Oct-2005 10:45	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
	18-Oct-2005 10:55	MISC	MISC	SD-1 WWTP South of Septage Rovg Station
	18-Oct-2005 11:00	MISC	MISC	SD-1 WWTP South of Septage Rovg Station
	18-Oct-2005 11:00	MISC	MISC	SD-1 WWTP South of Septage Rovg Station
	18-Oct-2005 11:10	MISC	MISC	SD-1 WWTP South of Septage Rovg Station
L123784-8 GRAB	18-Oct-2005 11:15	MISC	MISC	SD-1 WWTP South of Septage Rovg Station

Legend to the laboratory qualifiers used in this report:

- * Duplicate value outside of control limits
- B Analyte detected in method blank
- T Diesel/Gasoline pattern is atypical
- U Analyte not detected

Qualifiers for subcontract work - See textvalue for description

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC

MISC

Miscellaneous - Unidentified Site

Locator: ClientID:

Miscellaneous sample, see sample comments for location

Lab ID:

SD-1 WWTP South of Septage Rovg Station

Sample Type:

L123784-1 (P122865-1) Rush - 5 working day TAT

GRAB (Instantaneous Grab)

Date Collected: Oct 18 2005, 10:35am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: B785 7999/2002083; PID = 0 ; SB 1 @ 1 '; Login Note: Composite 4

grabs into 1 composite . Any PID reading >10 add 8260 on that grab and

substitute 8260 for 8260 BTEX on the composite sample.

Method Reference

Parameter

Qualifier

Result Units Dilution

MDL

Matrix RL/ML

Tag

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC MISC

Miscellaneous - Unidentified Site

Locator: ClientID: Miscellaneous sample, see sample comments for location

Lab ID:

SD-1 WWTP South of Septage Rovg Station

L123784-2 (P122865-2) Rush - 5 working day TAT GRAB (Instantaneous Grab)

Sample Type:

Date Collected: Oct 18 2005, 10:45am Sample collector: J Goddard Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: PID = 0

SB 1 @

Method Reference

Parameter

Qualifier

Units Result

Dilution

MDL

Tag Matrix

RL/ML

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC Miscellaneous - Unidentified Site

Locator: MISC Miscellaneous sample, see sample comments for location

ClientID: SD-1 WWTP South of Septage Rovg Station

Lab ID: L123784-3 (P122865-5) Rush - 5 working day TAT

Sample Type: COMP (Mult Sample Loc Comp Collect Date is end of composite period.)

Date Collected: Oct 18 2005, 10:45am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: comp of -1 through -2; SD-1 WWTP South of the Septage Receiving Station;

	Makhad D. F.							
	Method Reference Parameter	200					Matrix	Tag
	Palameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
	Method: CALIFORNIA LUFT MANUAL - Diesel	3 CT . CC (NO						
	TARGET ANALYTES	:ASE:GC/MS					Soil	
	DIESEL		210	(1-		979		
	MOTOR OIL COMPOSITE (C21-C32)	т	1,600	mg/kg	10	10		
	SURROGATE	*	1,600	mg/kg	10	1000		
	5-A-ANDROSTANE		70.6	% recover	10			
	Run ID: R134905 / Work Group No.: WG124	742	70.6	* lecover	y 10			
	Prep Datel: 19-OCT-05 Prep Date2: 21-OC	T-05 Analyze	1 21-0ct-05 1	3.78				
			2 21 000 05 1	.5.56				
	Method: CALIFORNIA LUFT MANUAL GC/MS - 0	Gasoline:MeOH	Ext.:GC/MS				Soil	
	TARGET ANALYTES						5011	
	GASOLINE	U	1.0	mg/kg	1	1		
	INTERNAL STANDARD			3. 3		100		
	FLUOROBENZENE		53.2	% recover	v 1			
	D5-CHLOROBENZENE		70.0	% recover				
	D4-1,4-DICHLOROBENZENE		59.2	% recover				
	SURROGATE							
	DIBROMOFLUOROMETHANE		105	% recover	y 1			
	D4-DICHLOROETHANE		99.4	% recover				
	D8-TOLUENE		102	% recover	y 1			
	4-BROMOFLUOROBENZENE		81.8	% recover	y 1			
	Run ID: R134861 / Work Group No.: WG1247	711						
	Prep Date1: 19-OCT-05 Prep Date2: 20-OCT	r-05 Analyzed	1 20-Oct-05 2	0:09				
	Method: EPA 8260B - Volatile Organics: 0	GC/MS					Soil	
	TARGET ANALYTES							
	METHYL-T-BUTYL ETHER	U	0.013	mg/kg	1	0.013		
	BENZENE	U	0.0012	mg/kg	1	0.0012		
	TOLUENE	U	0.0018	mg/kg	1	0.0018		
	CHLOROBENZENE	U	0.0012	mg/kg	1	0.0012		
	ETHYL BENZENE	U	0.0020	mg/kg	1	0.002		
	M+P XYLENES O-XYLENE	U	0.0055	mg/kg	1	0.0055		
		U	0.0028	mg/kg	1	0.0028		
	1,3-DICHLOROBENZENE	U	0.0015	mg/kg	1	0.0015		
	1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE	U	0.0010	mg/kg	1	0.001		
	INTERNAL STANDARD	U	0.0012	mg/kg	1	0.0012		
	FLUOROBENZENE		custor see	5207				
	D5-CHLOROBENZENE		57.2	% recovery				
	D4-1,4-DICHLOROBENZENE		72.6	% recovery				
	SURROGATE		71.8	<pre>% recovery</pre>	1			
	D8-TOLUENE		12.12.00	200				
	4-BROMOFLUOROBENZENE		101	% recovery				
	Run ID: R134860 / Work Group No.: WG1247	110	85,2	% recovery	1			
	Prep Date1: 19-OCT-05 Prep Date2: 20-OCT	12	00 0 1 55 51					
	20-0CT	os Anaryzed	∠U-UCC-U5 20	1:09				
	Method: EPA 6010B - ICAP Metals						0-13	
	TARGET ANALYTES						Soil	
	ARSENIC	U	1.95	mg/kg	.195	1 05		
1	BARIUM		273	mg/kg	.195	1.95		
1	BERYLLIUM	В	0.408	mg/kg	.195	0.0975 0.0195		
-	CADMIUM	*	0.175	mg/kg	.195	0.0195		
			- 1=1=			0.0313		

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site:

MISC

Miscellaneous - Unidentified Site

Locator: MISC Miscellaneous sample, see sample comments for location

ClientID:

SD-1 WWTP South of Septage Rcvg Station

Lab ID:

L123784-3 (P122865-5) Rush - 5 working day TAT

Sample Type:

COMP (Mult Sample Loc Comp Collect Date is end of composite period.)

Date Collected: Oct 18 2005, 10:45am Sample collector: J Goddard Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: comp of -1 through -2; SD-1 WWTP South of the Septage Receiving Station;

Method Reference						Matrix Tag
Parameter	Oualifier	Result	Units	Dilution	MDL	RL/ML
COBALT	*	11.8	mg/kg	.195	0.195	
CHROMIUM		75.2	mg/kg	.195	1.95	
COPPER		53.0	mg/kg	.195	0.975	
MOLYBDENUM		1,97	mg/kg	.195	0.877	
NICKEL		51.8	mg/kg	.195	0.487	
LEAD		64.0	mg/kg	.195	0.975	
ANTIMONY		8.64	mg/kg	.195	0.975	
SELENIUM	*	14.7	mg/kg	.195	3.9	
THALLIUM	U	3.90	mg/kg	.195	3.9	
VANADIUM		69.4	mg/kg	.195	0.39	
ZINC		149	mg/kg	.195	1.95	
Run ID: R134882 / Work Group No.: WG124	764		3, 3			
Prep Date1: 19-OCT-05 Prep Date2: 23-OC		23-Oct-05	12:02			
Method: EPA 6010B: WET - ICAP Metals						WET-Citric
TARGET ANALYTES						***************************************
CHROMIUM	*	344	ug/L	11	77	
LEAD	7.7	1,580	ug/L	11	132	
SELENIUM	п	297	ug/L	11	297	
VANADIUM	0	236	ug/L	11	33	
Run ID: R134947 / Work Group No.: WG124	700	230	ug/ ii	11	33	
Prep Date1: 19-OCT-05 Prep Date2: 25-OC		25-Oct-05	14:49			
-	-					
Method: EPA 7471 - Mercury: Cold Vapor						Soil
TARGET ANALYTES						
MERCURY		0.25	mg/kg	1	0.04	
Run ID: R134880 / Work Group No.: WG124	756		1500 IS			
Prep Date1: 21-OCT-05 Analyzed 21-Oct-0	5 15:30					
Method: EPA 7761 - Silver: Graphite Fur	nace					Soil
TARGET ANALYTES						
SILVER		1.7	mg/kg	1	0.03	
Run ID: R134881 / Work Group No.: WG124	763					
Prep Date1: 19-OCT-05 Prep Date2: 22-OC	T-05 Analyzed	l 22-Oct-05	17:25			

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC Locator.

Miscellaneous - Unidentified Site

ClientID:

MISC

Miscellaneous sample, see sample comments for location

Lab ID:

SD-1 WWTP South of Septage Rcvg Station

Sample Type:

L123784-4 (P122865-21) Rush - 5 working day TAT

GRAB (Instantaneous Grab)

Date Collected: Oct 18 2005, 10:55am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: B785 7999/2002083; PID = 0 ; SB 3 @ 1 '; Login Note: Composite 4

grabs into 1 composite . Any PID reading >10 add 8260 on that grab and

substitute 8260 for 8260 BTEX on the composite sample.

Method Reference

Parameter

Qualifier

Result Units

Dilution

MDL

Matrix Tag RL/ML

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site:

MISC

Miscellaneous - Unidentified Site

Locator:

MISC Miscellaneous sample, see sample comments for location SD-1 WWTP South of Septage Rcvg Station

ClientID:

Lab ID: L123784-5 (P122865-22) Rush - 5 working day TAT Sample Type: GRAB (Instantaneous Grab)

Date Collected: Oct 18 2005, 11:00am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: PID = 0

SB 3 @

Method Reference

Parameter

Qualifier

Result Units

Dilution

MDL

Matrix Tag RL/ML

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC Miscellaneous - Unidentified Site

Locator: MISC Miscellaneous sample, see sample comments for location

ClientID: SD-1 WWTP South of Septage Rovg Station

L123784-6 (P122865-25) Rush - 5 working day TAT Lab ID: Sample Type:

COMP (Mult Sample Loc Comp Collect Date is end of composite period.)

Date Collected: Oct 18 2005, 11:00am Sample collector: J Goddard Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: comp of - 4 through - 5; SD-1 WWtp South of the Septage Receiving Station;

Method Reference						Matrix Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML
Method: CALIFORNIA LUFT MANUAL - Dies	el:ASE:GC/MS					0.11
TARGET ANALYTES	011111111111111111111111111111111111111					Soil
DIESEL	т	2,000	ma /lea	10	10	
MOTOR OIL COMPOSITE (C21-C32)	T	6,300	mg/kg	10	10	
SURROGATE	-	0,300	mg/kg	10	1000	
5-A-ANDROSTANE		81.2	% recove:	10		
Run ID: R134905 / Work Group No.: WG1	24742	01.2	% lecove.	.y 10		
Prep Date1: 19-OCT-05 Prep Date2: 21-	OCT-05 Analyzed	1 21-Oct-05 1	L3:57			
Method: CALIFORNIA LUFT MANUAL GC/MS	- Gasoline:MeOH	Ext : GC/MS				Soil
TARGET ANALYTES		5.101.100/110				SOLL
GASOLINE	U	1.0	mg/kg	1	1	
INTERNAL STANDARD	•	1.0	mg/kg	1	1	
FLUOROBENZENE		51.2	% recover	1		
D5-CHLOROBENZENE		69.6	% recover			
D4-1,4-DICHLOROBENZENE		57.2	% recover			
SURROGATE		57.2	4 Lecover	. У т		
DIBROMOFLUOROMETHANE		106	% recover	1		
D4-DICHLOROETHANE		98.8	% recover	2 .		
D8-TOLUENE		106		-		
4-BROMOFLUOROBENZENE		77.0	% recover			
Run ID: R134861 / Work Group No.: WG12	24711	77.0	% recover	УІ		
Prep Date1: 19-OCT-05 Prep Date2: 20-0	OCT-05 Analyzed	20 Oct 05 3	0.40			
1 110F 5w005, 20 0	Jer vo miaryzeu	20-000-05 2	0:49			
Method: EPA 8260B - Volatile Organics:	· GC/MS					- 12
TARGET ANALYTES	. 30,110					Soil
METHYL-T-BUTYL ETHER	U	0.013	mq/kg	1	0.013	
BENZENE	ŭ	0.0012	mg/kg	1	0.013	
TOLUENE	Ū	0.0012	mg/kg	1		
CHLOROBENZENE	Ū	0.0018	mg/kg	1	0.0018	
ETHYL BENZENE	•	0.0012	mg/kg	1	0.0012	
M+P XYLENES		0.0023		1	0.002	
O-XYLENE		0.0098	mg/kg	1	0.0055	
1,3-DICHLOROBENZENE	ŭ	0.0015	mg/kg	1	0.0028	
1,4-DICHLOROBENZENE	<u> </u>	0.0015	mg/kg mg/kg	1	0.0015	
1,2-DICHLOROBENZENE	Ü	0.0010		1	0.001	
INTERNAL STANDARD	o o	0.0012	mg/kg	1	0.0012	
FLUOROBENZENE		55.0	9 wo a com-			
D5-CHLOROBENZENE		72.4	% recover	-		
D4-1,4-DICHLOROBENZENE		69.2	% recover	_		
SURROGATE		69.2	% recover	УТ		
D8-TOLUENE		104	9	and w		
4-BROMOFLUOROBENZENE		80.4	% recover	-		
Run ID: R134860 / Work Group No.: WG12	4712	60.4	% recover	λī		
Prep Date1: 19-OCT-05 Prep Date2: 20-O	CT-05 Analyzed	20-Oct-05 2	0:49			
Method: EPA 6010B - ICAP Metals						0.247
TARGET ANALYTES						Soil
ARSENIC	U	1.84	ma /le=	104	7.01	
BARIUM	U	1.84	mg/kg	.184	1.84	
BERYLLIUM	В	0.364	mg/kg	.184	0.0919	
CADMIUM	ь		mg/kg	.184	0.0184	
discourage and a 2000		1.85	mg/kg	.184	0.0919	
Name of the second seco						

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

Miscellaneous sample, see sample comments for location

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC

MISC

Miscellaneous - Unidentified Site

Locator: ClientID:

SD-1 WWTP South of Septage Rovg Station

Lab ID:

L123784-6 (P122865-25) Rush - 5 working day TAT

Sample Type:

COMP (Mult Sample Loc Comp Collect Date is end of composite period.)

Date Collected: Oct 18 2005, 11:00am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: comp of - 4 through - 5; SD-1 WWtp South of the Septage Receiving Station;

Method Reference						Matrix Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML
COBALT		8.82	mg/kg	.184	0.184	
CHROMIUM		75.8	mg/kg	.184	1.84	
COPPER		73.5	mg/kg	.184	0.919	
MOLYBDENUM		3.27	mg/kg	.184	0.827	
NICKEL		38.0	mg/kg	.184	0.46	
LEAD		125	mg/kg	.184	0.919	
ANTIMONY		7.73	mg/kg	.184	0.919	
SELENIUM		13.0	mg/kg	.184	3.68	
THALLIUM	U	3.68	mg/kg	.184	3.68	
VANADIUM		58.0	mg/kg	.184	0.368	
ZINC		311	mg/kg	.184	1.84	
Run ID: R134882 / Work Group No.: WG124	764					
Prep Date1: 19-OCT-05 Prep Date2: 23-OC	T-05 Analyzed	23-Oct-05	12:15			
Method: EPA 6010B: WET - ICAP Metals						WET-Citric
TARGET ANALYTES						
CHROMIUM		729	ug/L	11	77	
LEAD		3,690	ug/L	11	132	
SELENIUM	U	297	ug/L	11	297	
VANADIUM		184	ug/L	11	33	
Run ID: R134947 / Work Group No.: WG124	799		200-37-20-00			
Prep Datel: 19-OCT-05 Prep Date2: 25-OC	T-05 Analyzed	1 25-Oct-05	14:53			
Method: EPA 7471 - Mercury: Cold Vapor						Soil
TARGET ANALYTES						
MERCURY	*	0.54	mg/kg	1	0.04	
Run ID: R134880 / Work Group No.: WG124	756					
Prep Date1: 21-OCT-05 Analyzed 21-Oct-0	5 15:30					
Method: EPA 7761 - Silver: Graphite Fur	nace					Soil
TARGET ANALYTES						
SILVER		3.8	mg/kg	1	0.03	
Run ID: R134881 / Work Group No.: WG124	763					
Prep Date1: 19-OCT-05 Prep Date2: 22-OC	T-05 Analyzed	1 22-Oct-05	17:25			
	A A A A A A A A A A A A A A A A A A A					

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC

Miscellaneous - Unidentified Site

Locator: ClientID:

MISC

Miscellaneous sample, see sample comments for location

SD-1 WWTP South of Septage Rcvg Station

Lab ID:

L123784-7 (P122865-26) Rush - 5 working day TAT

Sample Type:

GRAB (Instantaneous Grab)

Date Collected: Oct 18 2005, 11:10am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: B785 7999/2002083; PID = 0 ; SB 2 \otimes 1 '; Login Note: Composite 4

grabs into 1 composite . Any PID reading >10 add 8260 on that grab and

substitute 8260 for 8260 BTEX on the composite sample.

Method Reference

Parameter

Qualifier

Result Units Dilution

MDL

Matrix RL/ML

Tag

EAST BAY MUNICIPAL UTILITY DISTRICT Laboratory Services Division PO Box 24055, MS 59, Oakland, CA 94623 Phone (510) 287-1432 Fax (510) 465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM

Site: MISC

MISC

Miscellaneous - Unidentified Site

Locator:

Miscellaneous sample, see sample comments for location

ClientID:

SD-1 WWTP South of Septage Rcvg Station L123784-8 (P122865-27) Rush - 5 working day TAT

Lab ID: GRAB (Instantaneous Grab) Sample Type:

Date Collected: Oct 18 2005, 11:15am Sample collector: J Goddard

Date Received: Oct 18 2005, 11:20am Sample receiver: JLI

Sample Comments: PID = 0

SB 2 @

Method Reference

Parameter

Qualifier

Result Units Dilution

MDL

Matrix Tag

RL/ML

East Bay Municipal Utility District Laboratory Services Chain of Custody Record

Page 1 of 2

Prelog or Login No.:		Project Title TRENCH SPOILS PROGRAM Account or Project: 1					Tel No.:	: SAFA TOMA : 1512 : KENNETH G		Sampled by: J Rcvd: 18 Sample Date: 18	3-OCT-05 11:20)
Lab No.	Sample Type Time	Site Local	itor	Sample Matrix	Containe Barcode		Tests Required	đ		Preservat	Date tive Initials	DueDate pH
L123784-1	GRAB 10:35	MISC MISC	Í	Soil Soil	631666	JARXS	+SAVE 30 +COMP					25-OCT-05
ClientID:	SD-1 WWTP Sou	uth of Septage Rovg Station and substitute 8260 for 826	. Sample Comments	;: B785 7999/ mposite samp	/2002083; le. Pric	PID = ing: S'	THE RESERVE AND A RESERVE OF THE PROPERTY OF THE PARTY OF	@ 1 '; L	ogin Note: Composite	e 4 grabs into I	. composite .	Any PID rea
L123784-2	GRAB 10:45	MISC MISC	·	Soil Soil	631667	JARXS	+SAVE 30 +COMP					25-OCT-05
ClientID:	SD-1 WWTP Sou	uth of Septage Rcvg Station	1 Sample Comments	s: PID = 0	7	SB 1	@ 2 ' I	Pricing: ST				
	COMP 10:45			Soil Soil Soil Soil Soil Soil Soil		JARXS	EPA 6010;BE EI EPA 6010;CU EI EPA 6010;PB EI EPA 6010;V;EP/ EPA 6010;PB EI 8260 BTEX;DIES +REPORT	PA 6010;CD PA 6010;HG PA 6010;SB A 6010;ZN E PA 6010;SE SEL GC/MS;G		CR NI TL 010;CR		25-OCT-05
ClientID:	SD-1 WWTP Sou	uth of Septage Rovg Station	i Sample Comments	s: comp of -?	1 through	2; S	3D-1 WWTP South	of the Sep	tage Receiving Statio	on; CAM 17 meta	rs only, Ag by	y GFAA. Pr.
L123784-4	GRAB 10:55	MISC MISC	•	Soil Soil	631672	JARXS	S +SAVE 30 +COMP					25-OCT-05
ClientID:	SD-1 WWTP Sou	uth of Septage Rovg Station and substitute 8260 for 826	Sample Comments	s: B785 7999/ mposite samp	/2002083; de. Pric	PID =	The second secon	@ 1 '; L	ogin Note: Composite	e 4 grabs into	composite .	Any PID rea
L123784-5	GRAB 11:00	MISC MISC	:	Soil Soil	631673	JARXS	S +SAVE 30 +COMP					25-OCT-05
ClientID:	SD-1 WWTP Sou	uth of Septage Rcvg Station	1 Sample Comments	s: PID = 0	· ·	SB 3	3 @ 2 ' I	Pricing: ST	םי			
L123784-6	COMP 11:00	MISC MISC	3	Soil	631676	JARS	*ICP EPA 6010	;+SAVE 30;A	G EPA 7761;AS EPA 60	10;BA		25-OCT-05

East Bay Municipal Utility District Laboratory Services Chain of Custody Record

				Laboratory 8					Page 2 of	2	
Prelog or Login No.			itle OILS PROGRAM r Project: B793-951	2-1		Client PM: S Tel No.: 1 Lab PM: K		TMAN	Reve	y: J Goddard d: 18-OCT-05 11:2 e: 18-OCT-05	0
No.	Sample Type Time	Site	Locator	Sample Matrix	Container II Barcode	Tests Required			Prese	Date ervative Initials	DueDate pH
Cliontin				Soil Soil Soil Soil Soil Soil		EPA 6010; BE EPA EPA 6010; CU EPA EPA 6010; PB EPA EPA 6010; V EPA 6 EPA 6010; PB EPA S 8260 BTEX; DIESEL +REPORT	6010;HG EPA 6010;SB EPA 010;ZN EPA 6010;SE EPA GC/MS;GASO1	7471;MO BPA 6 6010;SE EPA 6 5010;*ICP:C EP 6010;V EPA 60 LINE GC/MS	010;NI 010;TL A 6010;CR 10		
	name and a support of the Paris			Comments: comp of -			of the Septa	age Receiving	Station; CAM 17	metals only, Ag	by GFAA.
		MISC				B +SAVE 14					25-OCT-0
ClientID:	SD-1 WWTP Sou	th of Septage Ro	rvg Station Sample	Comments: B785 7999/	2002083; PID	= 0 ; SB 2 @ :	l '; Login	Note: Compos	ite 4 grabs int	o 1 composite .	
	grab a	md substitute 82	60 for 8260 BTEX or	n the composite sampi	e. Pricing:	O10	2000-2004-2009-200 0 000-20	oecock levels is not seem contracting	202 Sept 2 Sept 6000	0.0000000004-190003	
_		MISC 82			e. Pricing: 631679 CORE						
L123784-8	GRAB 11:15	MISC	MISC			B +SAVE 14	cing: STD				
L123784-8	GRAB II:15	MISC	MISC	Soil	631679 CORE	B +SAVE 14	Sing: STD				
L123784-8	GRAB II:15	MISC th of Septage Ro	MISC wg Station Sample	Soil	631679 CORE SB	B +SAVE 14	cing: STD				
L123784-8	GRAB II:15 SD-1 WWTP Sou Total contai	MISC th of Septage Ro ners received: 1	MISC wg Station Sample	Soil Comments: PID = 0	631679 CORE SB	B +SAVE 14 2 @ 2 ' Pric		Type Codes:		3; CFV; COMP; CT01; 6; CT07; CT08; CTV; C	25-OCT-0
Li23784-8 ClientID:	GRAB II:15 SD-1 WWTP Sou Total contai	MISC th of Septage Ro ners received: 1	MISC wg Station Sample	Soil Comments: PID = 0	631679 CORE SB	B +SAVE 14 2 @ 2 ' Pric		Type Codes:		3;CFV;COMP;CT01;	25-OCT-0
Li23784-8 ClientID:	GRAB II:15 SD-1 WWTP Sou Total contai	MISC th of Septage Ro ners received: 1	MISC wg Station Sample	Soil Comments: PID = 0	631679 CORE SB	B +SAVE 14 2 @ 2 ' Pric		Type Codes:		3;CFV;COMP;CT01;	25-OCT-0
Li23784-8 ClientID: Relinquish	GRAB II:15 SD-1 WWTP Sou Total contai	MISC th of Septage Ro ners received: 1	MISC wg Station Sample	Soil Comments: PID = 0	631679 CORE SB	B +SAVE 14 2 @ 2 ' Pric		Type Codes:		3;CFV;COMP;CT01;	25-OCT-0
ClientID: Relinquishe	GRAB II:18 SD-1 WWTP Sou Total contai	MISC th of Septage Ro ners received: 1	MISC wg Station Sample	Soil Comments: PID = 0	631679 CORE SB	B +SAVE 14 2 @ 2 ' Pric		Type Codes:		3;CFV;COMP;CT01;	25-OCT-09

Page 1 of 3

		10)	0 1	5555555	DOI VICOD CHAIN	or castoay keed				
Prelog or Login No.:	P122865	TRENCH	et Title H SPOILS PROGRAM at or Project: B793-	9512-1	ā	Tel No.:	SAFA TOMA 1512 KENNETH GERS	rman	Sampled by: () Rovd: Sample Date: (oe Goddard 0.19.05
Lab No.	Sample Type Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	1		Preserva	Date DueDate
P122865-1	GRAB 1035	MISC	MISC	Soil Soil	631666 JARX	S +SAVE 30 +COMP				
ClientID: S				ple Comments: B785 7999 X on the composite samp			l ['; Login l	Note: Composit	e 4 grabs into 1 o	composite . Any PID re
P122865-2	GRAB /045	MISE	MISC	Soil Soil	631667 JARX	S +SAVE 30 +COMP				
ClientID: S	D-1 WWTP S	outh of Septag	re Rcvg Station Samp	ple Comments: PID = 0	SB 1	e Z Pri	.cing: STD			
P122865-3	GRAB	MISC	MISC	Soil Soil	631668 JARX	S +SAVE 30 +COMP				9
ClientID: S	D-1 WWTP S	outh of Septag	e Rcvg Station Sam	le Comments: PID =	SB 1	@ ' Pri	ging: STD			
P122865-4	GRAB	MISO	MISC	Soil Soil	631669 JARX	S +SAVE 30 +COMP				
ClientID: S	D-1 WWTP So	outh of Septag	e Rcvg Station Samp	ple Comments: PID =	SB 1	@ ' Pri	cing: STD			
P122865-5	COMP	MISC	MISC	soil soil soil soil soil soil soil	631670 JARS	*ICP EPA 6010; BPA 6010; BE BP EPA 6010; CU EP EPA 6010; PB EP EPA 6010; PB EP EPA 6010; PB EP 8260 BTEX; DIES +REPORT	A 6010/CD EPA A 6010/HG EPA A 6010/SB EPA 6010/ZN EPA 6 A 6010/SE EPA	6010;CO EPA 60 7471;MO EPA 60 6010;SE EPA 60 010;*ICP:C EPA 6010;V EPA 601	10;CR 10;NI 10;TL 6010;CR	
ClientID: SI	D-1 WWTP So	outh of Septag	e Rcvg Station Samp	ole Comments: comp of -:	1 through -4;	SD-1 WWTP South	of the Septage	Receiving Sta	tion; CAM 17 metal	s only, Ag by GFAA.
P122865-21	GRAB /053	MISC	MISC	Soil Soil	631672 JARXS	+SAVE 30 +COMP			a 10.1	
ClientID: SI	D-1 WWTP So	uth of Septag	e Rovg Station Samp	ole Comments:						

grab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD

Prelog or Sampled by: Joe Goddard Project Title Client PM: SAFA TOMA Login No.: P122865 TRENCH SPOILS PROGRAM Tel No.: 1512 Account or Project: B793-9512-1 Lab PM: KENNETH GERSTMAN Sample Date: 10.18.05 Lab Sample Sample Container ID DueDate No. Type Time Site Locator Matrix Barcode Tests Required Preservative Initials pH B785 7999/2002083; PID = 0 ; SB 3 @ 1 '; Login Note: Composite 4 grabs into 1 composite . Any PID reading >10 add 8260 on that grab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD R122865-22 GRAB //00 MISC 631673 JARXS +SAVE 30 ClientID: SD-1 WWTP South of Septage Rovg Station Sample Comments: PID = 0 ' Pricing: STD P122865-23 GRAB MISC 631675 JARXS +SAVE 30 Soil +COMP ClientID: SD-1 WWTP South of Septage Rovg Station Sample Comments: PID = P122865-24 GRAB MISC Soil 631674 JARXS +SAVE 30 Soil ClientID: SD-1 WWTP South of Septage Rovg Station Sample Comments: PID = Pricing: STD MISC P122865-25 COMP MISC Soil 631676 JARS *ICP EPA 6010, +SAVE 30 AG EPA 7761; AS EPA 6010; BA Soil EPA 6010 BE EPA 6010 CD EPA 6010 CO EPA 6010 CR Soil EPA 6010; CU EPA 6010; HG EPA 7471; MO EPA 6010; NI Soil EPA 6010; PB EPA 6010; SB EPA 6010; SE EPA 6010; TL Soil EPA 6010; V EPA 6010; ZN EPA 6010; *ICP: C EPA 6010; CR Soil EPA 6010 PB EPA 6010; SE EPA 6010; V EPA 6010 Soil 631677 JARXS 8260 BTEX; DIESEL GC/MS; GASOLINE GC/MS Soil ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: comp of -___ through -___; SD-1 WWtp South of the Septage Receiving Station; CAM 17 metals only, Ag by GFAA. Pr P122865-26 GRAB ///D MISC Soil. 631678 COREB +SAVE 14 ClientID: SD-1 WWTF South of Septage Rovg Station Sample Comments: B785 7999/2002083; PID = 0 ; SB 20 ('; Login Note: Composite 4 grabs into 1 composite . Any PID reading >

East Bay Municipal Utility District Laboratory Services Chain of Custody Record

Page 3 of 3

Sampled by: Joe Goddard Client PM: SAFA TOMA Prelog or Project Title Tel No.: 1512 Login No.: P122865 TRENCH SPOILS PROGRAM Sample Date: /0 . /8 . 6 & Lab PM: KENNETH GERSTMAN Account or Project: B793-9512-1 Date DueDate Sample Sample Container ID Lab Preservative Initials pH Type Time Site Locator Matrix Barcode Tests Required No. P122865-27 GRAB /// MISC 631679 COREB +SAVE 14 MISC Soil SB 2 @ 2 ' Pricing: STD ClientID: SD-1 WWTP South of Septage Rovg Station Sample Comments: PID = 0 P122865-28 GRAB MISC 31680 COREB +SAVE 14 MISC Soil SB 2 ClientID: SD-1 WWTP South of Septage Rovg Station Sampl Pricing: STD Comments: PID = P122865-29 GRAB MISC Soil 631681 COREB +SAVE 14 Station Sample Comments: PID = Pricing ClientID: SD-1 WWTP South of Septage Total containers received: 16 Signature Print Name Date doe Goddard Relinquished by Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03 1120 10.18.00 CT04; CT05; CT06; CT07; CT08; CTV; GRAB Received by Relinquished by Received by Relinquished by 1120 10/18/05 Received by

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Pittsburg, CA 94565	Half Moon Bay, CA 9	4019		CA 9503				, CA 95336
Phone (925) 458-9800	Phone (650) 726-181	9	Phone (4	408) 945-	-2800			209) 982-4298
Fax (925) 458-9891	Fax (650) 726-9183		Fax (408	3) 262-28	71			9) 982-1009
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Safa Toma								
SIGNATURE OF AUTHOR	RIZED AGENT / TITLE	DATE						
*								
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waste as defined by 40 CFR Part 261 or title described, classified and packaged, and is in	22 of the California code of regulation by	e heen properly						
regulation; AND, if the waste if a treatment	residue of previously restricted hazar	done waeto	RECEIVIN	IC EACH	LITY			
subject to the Land Disposal Restriction, I cer accordance with the requirements of 40 CFR 40 CFR Part 261.	rury and warrant that the waste has been Part 268 and is no longer a hazardous w	treated in aste as defined by	RECEIVIN	IG FACI	LIIY			
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CONSTRUCTION	□ WOOD							
□DEBRIS □SPECIAL WASTE	OTHER							
GENERATING FACILITY			-					
Wastewater Treatment	Plant Oakland CA							
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☐ SPECIAL OTHER



December 28, 2005 EBMUD Project: 051011-01

Cambria Project: 47A-2010

Mr. Safa Toma East Bay Municipal Utility District P. O. Box 24055, Mail Stop 704 Oakland, CA 94623

RE:

Trench Spoils Sampling and Analysis Program

Wastewater Treatment Plant South of the Septage Receiving Station, Oakland CA

Dear Mr. Toma:

Cambria is pleased to submit this soil boring sampling report for the above-referenced site. Listed below is a summary of project and sampling activities.

Date Received Project Dogwood
Date Received Project Request
Date Samples Collected
Lab Used/Required Turnaround Time EBMUD, RUSH
Date Samples Submitted to Lab October 18, 2005
Thickness of Asphalt or Concrete
Boring ID, and Total Depth 3 Borings (SB1 through SB3), 2 fbg total depth
Number of Soil Samples 6 (two-soil samples from each boring composited by the laboratory) PID Readings All less than 10 ppm for more than one minute Number of Groundwater Samples 0 Depth to Groundwater Not Encountered
Analyses Completed on Samples: Soil Samples

All samples were collected in accordance with local and state regulatory guidelines. The samples are representative of the soil and were collected and preserved in accordance with accepted technical standards. Please call me at (510) 385-0436 if you have any questions regarding this report or the field activities.

Sincerely.

Cambria Environmental Technology, Inc.

Jonah D. Tebben

Senior Staff Scientist

Jorah Tell-

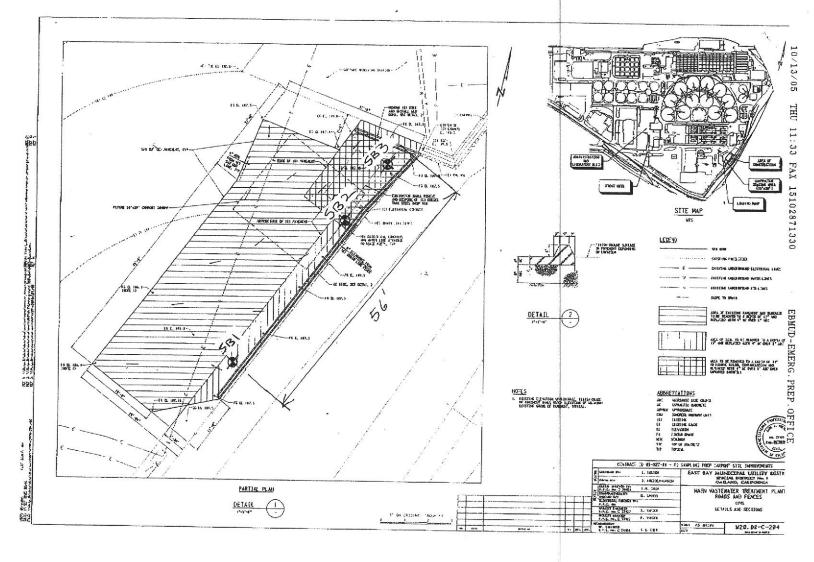
Attachments: GPS Coordinates, Site Maps, Boring Logs.



Soil Boring Coordinates

The GPS coordinates for each soil boring are listed below. The GPS coordinates are based on the NAD-1927 Zone 3 0403 State Plane Coordinate System (U.S. Survey Feet) using the 1996 Conus Geoid.

Boring ID	Northings (ft)	Eastings (ft)
SB-1	488431.787	1483724.631
SB-2	487092.649	1482639.470
SB-3	487025.868	1482606.972



Good on 10/18/05 @ 1115





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Cambria Environmental Technology, Inc. 1144 65th Street, Suite B Oakland, CA 94608 Tel. (510) 420-0700 Fax (510) 420-9170

Boring/Well Name	page 1	of 1
Client Name EBMAD		
Job/Site Name WWTP	South of the 5	Cotaco Chilin
Project Number 4 7A - 2	0(0	SET SIMON

e Interval				non		Comments				iistance,'		Percentages					rability	
Depth/Sample Interval	-	Sample ID	PTO/QIA	Weli Construction	USC Class	Soil Type and Comments				Color	Penetration Resistance/ Blow Counts	Moisture	Clay	と言	Sand	Gravel	Plasticity	Estimated Permeability
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