

# EBMUD Laboratory

## Analytical Report

Attachment 2

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
L123784-1	GRAB	18-Oct-2005 10:35	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-2	GRAB	18-Oct-2005 10:45	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-3	COMP	18-Oct-2005 10:45	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-4	GRAB	18-Oct-2005 10:55	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-5	GRAB	18-Oct-2005 11:00	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-6	COMP	18-Oct-2005 11:00	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-7	GRAB	18-Oct-2005 11:10	MISC	MISC	SD-1 WWTP South of Septage Rcvg Station
L123784-8	GRAB	18-Oct-2005 11:15	MISC	MISC	SD-1 WWTP South of Septage Rcvg 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

THIS REPORT MAY ONLY BE REPRODUCED IN ITS ENTIRETY. RESULTS CONTAINED IN THIS REPORT ARE REFLECTIVE ONLY OF THE ITEMS REQUESTED TO BE ANALYZED AND REPORTED. UNUSED PORTIONS OF SAMPLE WILL BE DISCARDED WITHIN THIRTY DAYS OF RECEIPT UNLESS OTHER ARRANGEMENTS ARE MADE BY THE CLIENT.

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**Analytical Results Report**

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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: L123784-1 (P122865-1) Rush - 5 working day TAT  
Sample Type: 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.

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Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
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RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

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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: L123784-2 (P122865-2) Rush - 5 working day TAT  
Sample Type: GRAB (Instantaneous Grab)  
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 @ 2 '

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Method Reference							Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL		RL/ML	

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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;  
 CAM 17 metals only, Ag by GFAA.

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS							Soil
TARGET ANALYTES							
DIESEL		210	mg/kg	10	10		
MOTOR OIL COMPOSITE (C21-C32)	T	1,600	mg/kg	10	1000		
SURROGATE							
5-A-ANDROSTANE		70.6	% recovery	10			
Run ID: R134905 / Work Group No.: WG124742							
Prep Date1: 19-OCT-05 Prep Date2: 21-OCT-05 Analyzed 21-Oct-05 13:38							
Method: CALIFORNIA LUFT MANUAL GC/MS - Gasoline:MeOH Ext.:GC/MS							Soil
TARGET ANALYTES							
GASOLINE	U	1.0	mg/kg	1	1		
INTERNAL STANDARD							
FLUOROBENZENE		53.2	% recovery	1			
D5-CHLOROBENZENE		70.0	% recovery	1			
D4-1,4-DICHLOROBENZENE		59.2	% recovery	1			
SURROGATE							
DIBROMOFLUOROMETHANE		105	% recovery	1			
D4-DICHLOROETHANE		99.4	% recovery	1			
D8-TOLUENE		102	% recovery	1			
4-BROMOFLUOROBENZENE		81.8	% recovery	1			
Run ID: R134861 / Work Group No.: WG124711							
Prep Date1: 19-OCT-05 Prep Date2: 20-OCT-05 Analyzed 20-Oct-05 20:09							
Method: EPA 8260B - Volatile Organics: 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	U	0.0055	mg/kg	1	0.0055		
O-XYLENE	U	0.0028	mg/kg	1	0.0028		
1,3-DICHLOROBENZENE	U	0.0015	mg/kg	1	0.0015		
1,4-DICHLOROBENZENE	U	0.0010	mg/kg	1	0.001		
1,2-DICHLOROBENZENE	U	0.0012	mg/kg	1	0.0012		
INTERNAL STANDARD							
FLUOROBENZENE		57.2	% recovery	1			
D5-CHLOROBENZENE		72.6	% recovery	1			
D4-1,4-DICHLOROBENZENE		71.8	% recovery	1			
SURROGATE							
D8-TOLUENE		101	% recovery	1			
4-BROMOFLUOROBENZENE		85.2	% recovery	1			
Run ID: R134860 / Work Group No.: WG124712							
Prep Date1: 19-OCT-05 Prep Date2: 20-OCT-05 Analyzed 20-Oct-05 20:09							
Method: EPA 6010B - ICAP Metals							Soil
TARGET ANALYTES							
ARSENIC	U	1.95	mg/kg	.195	1.95		
BARIUM		273	mg/kg	.195	0.0975		
BERYLLIUM	B	0.408	mg/kg	.195	0.0195		
CADMIUM	*	0.175	mg/kg	.195	0.0975		

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**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 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;  
 CAM 17 metals only, Ag by GFAA.

Method Reference	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
Parameter							
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.: WG124764  
 Prep Date1: 19-OCT-05 Prep Date2: 23-OCT-05 Analyzed 23-Oct-05 12:02

Method	Qualifier	Result	Units	Dilution	MDL	Matrix
EPA 6010B: WET - ICAP Metals						WET-Citric
TARGET ANALYTES						
CHROMIUM	*	344	ug/L	11	77	
LEAD		1,580	ug/L	11	132	
SELENIUM	U	297	ug/L	11	297	
VANADIUM		236	ug/L	11	33	

Run ID: R134947 / Work Group No.: WG124799  
 Prep Date1: 19-OCT-05 Prep Date2: 25-OCT-05 Analyzed 25-Oct-05 14:49

Method	Qualifier	Result	Units	Dilution	MDL	Matrix
EPA 7471 - Mercury: Cold Vapor						Soil
TARGET ANALYTES						
MERCURY		0.25	mg/kg	1	0.04	

Run ID: R134880 / Work Group No.: WG124756  
 Prep Date1: 21-OCT-05 Analyzed 21-Oct-05 15:30

Method	Qualifier	Result	Units	Dilution	MDL	Matrix
EPA 7761 - Silver: Graphite Furnace						Soil
TARGET ANALYTES						
SILVER		1.7	mg/kg	1	0.03	

Run ID: R134881 / Work Group No.: WG124763  
 Prep Date1: 19-OCT-05 Prep Date2: 22-OCT-05 Analyzed 22-Oct-05 17:25

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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: L123784-4 (P122865-21) Rush - 5 working day TAT  
Sample Type: 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.

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Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
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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: L123784-5 (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 @ 2 '

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Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
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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: L123784-6 (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;  
 CAM 17 metals only, Ag by GFAA.

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS							Soil
TARGET ANALYTES							
DIESEL	T	2,000	mg/kg	10	10		
MOTOR OIL COMPOSITE (C21-C32)	T	6,300	mg/kg	10	1000		
SURROGATE							
5-A-ANDROSTANE		81.2	% recovery	10			
Run ID: R134905 / Work Group No.: WG124742							
Prep Date1: 19-OCT-05 Prep Date2: 21-OCT-05 Analyzed 21-Oct-05 13:57							
Method: CALIFORNIA LUFT MANUAL GC/MS - Gasoline:MeOH Ext.:GC/MS							Soil
TARGET ANALYTES							
GASOLINE	U	1.0	mg/kg	1	1		
INTERNAL STANDARD							
FLUOROBENZENE		51.2	% recovery	1			
D5-CHLOROBENZENE		69.6	% recovery	1			
D4-1,4-DICHLOROBENZENE		57.2	% recovery	1			
SURROGATE							
DIBROMOFLUOROMETHANE		106	% recovery	1			
D4-DICHLOROETHANE		98.8	% recovery	1			
D8-TOLUENE		106	% recovery	1			
4-BROMOFLUOROBENZENE		77.0	% recovery	1			
Run ID: R134861 / Work Group No.: WG124711							
Prep Date1: 19-OCT-05 Prep Date2: 20-OCT-05 Analyzed 20-Oct-05 20:49							
Method: EPA 8260B - Volatile Organics: 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		0.0025	mg/kg	1	0.002		
M+P XYLENES		0.012	mg/kg	1	0.0055		
O-XYLENE		0.0098	mg/kg	1	0.0028		
1,3-DICHLOROBENZENE	U	0.0015	mg/kg	1	0.0015		
1,4-DICHLOROBENZENE	U	0.0010	mg/kg	1	0.001		
1,2-DICHLOROBENZENE	U	0.0012	mg/kg	1	0.0012		
INTERNAL STANDARD							
FLUOROBENZENE		55.0	% recovery	1			
D5-CHLOROBENZENE		72.4	% recovery	1			
D4-1,4-DICHLOROBENZENE		69.2	% recovery	1			
SURROGATE							
D8-TOLUENE		104	% recovery	1			
4-BROMOFLUOROBENZENE		80.4	% recovery	1			
Run ID: R134860 / Work Group No.: WG124712							
Prep Date1: 19-OCT-05 Prep Date2: 20-OCT-05 Analyzed 20-Oct-05 20:49							
Method: EPA 6010B - ICAP Metals							Soil
TARGET ANALYTES							
ARSENIC	U	1.84	mg/kg	.184	1.84		
BARIUM		174	mg/kg	.184	0.0919		
BERYLLIUM	B	0.364	mg/kg	.184	0.0184		
CADMIUM		1.85	mg/kg	.184	0.0919		

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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: L123784-6 (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;  
 CAM 17 metals only, Ag by GFAA.

Method Reference	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
Parameter							
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.: WG124764  
 Prep Date1: 19-OCT-05 Prep Date2: 23-OCT-05 Analyzed 23-Oct-05 12:15

Method: EPA 6010B: WET - ICAP Metals

WET-Citric

TARGET ANALYTES	Qualifier	Result	Units	Dilution	MDL
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.: WG124799  
 Prep Date1: 19-OCT-05 Prep Date2: 25-OCT-05 Analyzed 25-Oct-05 14:53

Method: EPA 7471 - Mercury: Cold Vapor

Soil

TARGET ANALYTES	Qualifier	Result	Units	Dilution	MDL
MERCURY	*	0.54	mg/kg	1	0.04

Run ID: R134880 / Work Group No.: WG124756  
 Prep Date1: 21-OCT-05 Analyzed 21-Oct-05 15:30

Method: EPA 7761 - Silver: Graphite Furnace

Soil

TARGET ANALYTES	Qualifier	Result	Units	Dilution	MDL
SILVER		3.8	mg/kg	1	0.03

Run ID: R134881 / Work Group No.: WG124763  
 Prep Date1: 19-OCT-05 Prep Date2: 22-OCT-05 Analyzed 22-Oct-05 17:25

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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: L123784-7 (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 @ 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.

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Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
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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: L123784-8 (P122865-27) Rush - 5 working day TAT  
Sample Type: GRAB (Instantaneous Grab)  
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 @ 2 '

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Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
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East Bay Municipal Utility District  
Laboratory Services Chain of Custody Record

Prelog or Login No.: L123784	Project Title TRENCH SPOILS PROGRAM Account or Project: B793-9512-1	Client PM: SAFA TOMA Tel No.: 1512 Lab PM: KENNETH GERSTMAN	Sampled by: J Goddard Rcvd: 18-OCT-05 11:20 Sample Date: 18-OCT-05
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Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date Preservative	Initials	DueDate pH
L123784-1	GRAB	10:35	MISC	MISC	Soil Soil	631666 JARXS	+SAVE 30 +COMP			25-OCT-05

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: B785 7999/2002083; PID = 0 ; SB 1 @ 1 ' ; Login Note: Composite 4 grabs into 1 composite . Any PID regrab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD

L123784-2	GRAB	10:45	MISC	MISC	Soil Soil	631667 JARXS	+SAVE 30 +COMP			25-OCT-05
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = 0 SB 1 @ 2 ' Pricing: STD

L123784-3	COMP	10:45	MISC	MISC	Soil Soil Soil Soil Soil Soil Soil	631670 JARS	*ICP EPA 6010;+SAVE 30;AG EPA 7761;AS EPA 6010;BA EPA 6010;BE EPA 6010;CB EPA 6010;CO EPA 6010;CR EPA 6010;CU EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;PB EPA 6010;SE EPA 6010;SE EPA 6010;TL EPA 6010;V EPA 6010;ZN EPA 6010;*ICP:C EPA 6010;CR EPA 6010;PB EPA 6010;SE EPA 6010;V EPA 6010			25-OCT-05
					Soil	631671 JARXS	8260 BTEX;DIESEL GC/MS;GASOLINE GC/MS +REPORT			

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: comp of -1 through -2; SD-1 WWTP South of the Septage Receiving Station; CAM 17 metals only, Ag by GFAA. Pr

L123784-4	GRAB	10:55	MISC	MISC	Soil Soil	631672 JARXS	+SAVE 30 +COMP			25-OCT-05
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: B785 7999/2002083; PID = 0 ; SB 3 @ 1 ' ; Login Note: Composite 4 grabs into 1 composite . Any PID regrab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD

L123784-5	GRAB	11:00	MISC	MISC	Soil Soil	631673 JARXS	+SAVE 30 +COMP			25-OCT-05
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = 0 SB 3 @ 2 ' Pricing: STD

L123784-6	COMP	11:00	MISC	MISC	Soil	631676 JARS	*ICP EPA 6010;+SAVE 30;AG EPA 7761;AS EPA 6010;BA			25-OCT-05
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East Bay Municipal Utility District  
Laboratory Services Chain of Custody Record

Prelog or  
Login No.: L123784

Project Title  
TRENCH SPOILS PROGRAM  
Account or Project: B793-9512-1

Client PM: SAFA TOMA  
Tel No.: 1512  
Lab PM: KENNETH GERSTMAN

Sampled by: J Goddard  
Rcvd: 18-OCT-05 11:20  
Sample Date: 18-OCT-05

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date	Preservative Initials	DueDate	pH
					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		+REPORT				

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: comp of - 4 through - 5; SD-1 WWtp South of the Septage Receiving Station; CAM 17 metals only, Ag by GFAA. 1

L123784-7 GRAB 11:10 MISC MISC Soil 631678 COREB +SAVE 14 25-OCT-05

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: B785 7999/2002083; PID = 0 ; SB 2 @ 1 ' ; Login Note: Composite 4 grabs into 1 composite . Any PID reac grab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD

L123784-8 GRAB 11:18 MISC MISC Soil 631679 COREB +SAVE 14 25-OCT-05

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = 0 SB 2 @ 2 ' Pricing: STD

Total containers received: 10

Signature

Print Name

Time

Date

Relinquished by

Received by

Relinquished by

Received by

Relinquished by

Received by

Joaquin Li

11:20

18-OCT-05

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03  
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

L123784

East Bay Municipal Utility District  
Laboratory Services Chain of Custody Record

Prelog or Login No.: P122865  
Project Title: TRENCH SPOILS PROGRAM  
Account or Project: B793-9512-1

Client PM: SAFA TOMA  
Tel No.: 1512  
Lab PM: KENNETH GERSTMAN

Sampled by: Joe Goddard  
Rcvd:  
Sample Date: 10.19.05

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date Preservative	Initials	DueDate pH
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P122865-1	GRAB	1035	MISC	MISC	Soil Soil	631666 JARXS	+SAVE 30 +COMP			
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: B785 7999/2002083; PID = 0 ; SB 1 @ 1; Login Note: Composite 4 grabs into 1 composite . Any PID reading grab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD

P122865-2	GRAB	1045	MISC	MISC	Soil Soil	631667 JARXS	+SAVE 30 +COMP			
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = 0 SB 1 @ 2 Pricing: STD

P122865-3	GRAB		MISC	MISC	Soil Soil	631668 JARXS	+SAVE 30 +COMP			
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = SB 1 @ Pricing: STD

P122865-4	GRAB		MISC	MISC	Soil Soil	631669 JARXS	+SAVE 30 +COMP			
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = SB 1 @ Pricing: STD

P122865-5	COMP		MISC	MISC	Soil Soil Soil Soil Soil Soil Soil	631670 JARS	*ICP EPA 6010;+SAVE 30;AG EPA 7761;AS EPA 6010;BA EPA 6010;BE EPA 6010;CD EPA 6010;CO EPA 6010;CR EPA 6010;CU EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;PB EPA 6010;SE EPA 6010;SE EPA 6010;TL EPA 6010;V EPA 6010;ZN EPA 6010;*ICP-C EPA 6010;CR EPA 6010;PB EPA 6010;SE EPA 6010;V EPA 6010			
					Soil	631671 JARXS	8260 BTEX;DIESEL GC/MS;GASOLINE GC/MS			
					Soil		+REPORT			

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: comp of -1 through -4; SD-1 WWTP South of the Septage Receiving Station; CAM 17 metals only, Ag by GFAA. Pricin.

P122865-21	GRAB	1055	MISC	MISC	Soil Soil	631672 JARXS	+SAVE 30 +COMP			
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments:

L123784

East Bay Municipal Utility District  
Laboratory Services Chain of Custody Record

Prelog or  
Login No.: P122865

Project Title  
TRENCH SPOILS PROGRAM  
Account or Project: B793-9512-1

Client PM: SAFA TOMA  
Tel No.: 1512  
Lab PM: KENNETH GERSTMAN

Sampled by: Joe Goldard  
Rcvd:  
Sample Date: 10.18.05

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date	DueDate	Preservative Initials	pH
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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

P122865-22	GRAB	1100	MISC	MISC	Soil	631673 JARXS	+SAVE 30 +COMP				
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-5

ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = 0 SB 3 @ 2' Pricing: STD

P122865-23	GRAB		MISC	MISC	Soil	631675 JARXS	+SAVE 30 +COMP				
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = SB 3 @ Pricing: STD

P122865-24	GRAB		MISC	MISC	Soil	631674 JARXS	+SAVE 30 +COMP				
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = SB 3 @ Pricing: STD

P122865-25	COMP		MISC	MISC	Soil	631676 JARS	*ICP EPA 6010;+SAVE 30;AG EPA 7761;AS EPA 6010;BA EPA 6010;BE EPA 6010;CD EPA 6010;CO EPA 6010;CR EPA 6010;CU EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;PB EPA 6010;SE EPA 6010;SE EPA 6010;TL EPA 6010;V EPA 6010;Zn EPA 6010;*ICP:C EPA 6010;CR EPA 6010;PB EPA 6010;SE EPA 6010;V EPA 6010				
					Soil	631677 JARXS	8260 BTEX;DIESEL GC/MS;GASOLINE GC/MS +REPORT				

-6

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	1110	MISC	MISC	Soil	631678 COREB	+SAVE 14				
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ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: B785 7999/2002083; PID = 0 ; SB 2 @ 1'; Login Note: Composite 4 grabs into 1 composite . Any PID reading > grab and substitute 8260 for 8260 BTEX on the composite sample. Pricing: STD

-7

L123784

East Bay Municipal Utility District  
Laboratory Services Chain of Custody Record

Prelog or  
Login No.: P122865


Project Title  
TRENCH SPOILS PROGRAM  
Account or Project: B793-9512-1

Client PM: SAFA TOMA  
Tel No.: 1512  
Lab PM: KENNETH GERSTMAN

Sampled by: Joe Goddard  
Rcvd:  
Sample Date: 10.18.05

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date	Preservative Initials	DueDate	pH
P122865-27	GRAB	1115	MISC	MISC	Soil	631679 COREB +SAVE 14					
ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = 0 SB 2 @ 2 Pricing: STD											
P122865-28	GRAB		MISC	MISC	Soil	631680 COREB +SAVE 14					
ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = SB 2 @ Pricing: STD											
P122865-29	GRAB		MISC	MISC	Soil	631681 COREB +SAVE 14					
ClientID: SD-1 WWTP South of Septage Rcvg Station Sample Comments: PID = SB 2 @ Pricing: STD											

Total containers received: 16

Signature	Print Name	Time	Date
	Joe Goddard	1120	10.18.05
Relinquished by			
Received by			
Relinquished by			
Received by			
Relinquished by			
Received by	Jojoquin Li	1120	10/18/05

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03  
CT04;CT05;CT06;CT07;CT08;CTV;GRAB



**Keller Canyon Sanitary Landfill**  
 901 Bailey Road  
 Pittsburg, CA 94565  
 Phone (925) 458-9800  
 Fax (925) 458-9891

**Ox Mountain Sanitary Landfill**  
 12310 San Mateo Road  
 Half Moon Bay, CA 94019  
 Phone (650) 726-1819  
 Fax (650) 726-9183

**Newby Island Sanitary Landfill**  
 1601 Dixon Landing Road  
 Milpitas, CA 95035  
 Phone (408) 945-2800  
 Fax (408) 262-2871

**Forward Landfill**  
 9999 S. Austin Road  
 Manteca, CA 95336  
 Phone (209) 982-4298  
 Fax (209) 982-1009

**NON-HAZARDOUS WASTE MANIFEST**

<b>GENERATOR</b>		<b>WASTE ACCEPTANCE NO.</b>		
EBMUD		<b>212Y514488</b>		
MAILING ADDRESS				
375 - 11th Street, MS#704		<b>REQUIRED PERSONAL PROTECTIVE EQUIPMENT</b>		
CITY, STATE, ZIP		<input checked="" type="checkbox"/> GLOVES <input type="checkbox"/> GOGGLES <input type="checkbox"/> RESPIRATOR <input checked="" type="checkbox"/> HARD HAT <input type="checkbox"/> TY-VEK <input type="checkbox"/> OTHER		
Oakland, CA 94607				
PHONE		<b>SPECIAL HANDLING PROCEDURES:</b>		
(510) 287-1512				
CONTACT PERSON		<b>RECEIVING FACILITY</b>        		
Safa Toma				
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE			
*				
<small>GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulation, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation; AND, if the waste is a treatment residue of previously restricted hazardous waste subject to the Land Disposal Restriction, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.</small>				
<b>WASTE TYPE:</b>				
<input type="checkbox"/> DISPOSAL		<input type="checkbox"/> SLUDGE		
<input type="checkbox"/> CONSTRUCTION		<input type="checkbox"/> WOOD		
<input type="checkbox"/> DEBRIS		<input type="checkbox"/> OTHER		
<input type="checkbox"/> SPECIAL WASTE				
<b>GENERATING FACILITY</b>				
Wastewater Treatment Plant, Oakland, CA				
<b>TRANSPORTER</b>		<b>NOTES:</b>	<b>VEHICLE LICENSE #</b>	<b>TRUCK NUMBER</b>
ADDRESS				
CITY, STATE, ZIP				
PHONE		<input type="checkbox"/> END DUMP	<input type="checkbox"/> BOTTOM DUMP	<input type="checkbox"/> TRANSFER
SIGNATURE OF AUTHORIZED AGENT / DRIVER		<input type="checkbox"/> ROLL OFF(S)	<input type="checkbox"/> FLAT-BED	<input type="checkbox"/> VAN
DATE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*				
<b>I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.</b>		<b>CUBIC YARDS</b>		
		<b>DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)</b>		
REMARKS		<b>DISPOSE</b>		<b>OTHER</b>
		<input type="checkbox"/> SOIL		
		<input type="checkbox"/> CONSTRUCTION DEBRIS		
		<input type="checkbox"/> NON-FRIABLE ASBESTOS		
		<input type="checkbox"/> WOOD		
		<input type="checkbox"/> ASH		
FACILITY TICKET NUMBER		<input type="checkbox"/> SPECIAL OTHER		
SIGNATURE OF AUTHORIZED AGENT				
DATE				
*				

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

MANIFEST #



# CAMBRIA

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 Request .....	October 11, 2005
Date Samples Collected .....	October 18, 2005
Lab Used/Required Turnaround Time .....	EBMUD, RUSH
Date Samples Submitted to Lab .....	October 18, 2005
Thickness of Asphalt or Concrete .....	N/A
Number of Soil Borings, 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 .....	TPH-g/d/mo, BTEX, CAM 17 metals, WET Pb and Cr
Groundwater Samples .....	None
Laboratory Sample Tracking Numbers .....	L123784.

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

Attachments: GPS Coordinates, Site Maps, Boring Logs.



# CAMBRIA

## 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.

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





# CAMBRIA



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 EBMud  
 Job/Site Name WWTIP South of the Septage Station  
 Project Number 47A-2010

Depth/Sample Interval	Time	Sample ID	PID/Color	Well Construction	USC Class	Soil Type and Comments	Color	Penetration Resistance/ Blow Counts	Moisture	Percentages				Plasticity	Estimated Permeability
										Clay	Silt	Sand	Gravel		
1 2	1035 1045	SB1 ↓	O O			Fill Fill	Brown Brown			10 10	40 40	30 30	20 20	L L	H H
1 2	1110 1115	SB2 ↓	O O			Fill Fill	Brown Brown			10 10	40 40	30 30	20 20	L L	H H
1 2	1055 1100	SB3 ↓	O O			Fill Fill	Brown Brown			10 10	40 40	30 30	20 20	L L	H H

G:\SPECIALTY FIGURE BORING-2\MSHEET.A1