



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 285134 ANALYTICAL REPORT

Golden Gate Tank Removal

1480 Carroll Avenue

San Francisco, CA 94124

Project : 9609

Location: 170 Woodland Way

Date: <u>01/26/2017</u>

Level : II

Sample ID	<u>Lab ID</u>
9606-SP	285134-001
9606-TANK	285134-002
9606-W-5.5	285134-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Patrick McCarthy Project Manager patrick.mccarthy@ctberk.com

(510) 204-2236

CA ELAP# 2896, NELAP# 4044-001



CASE NARRATIVE

Laboratory number: 285134

Client: Golden Gate Tank Removal

Project: 9609

Location: 170 Woodland Way

Request Date: 01/17/17 Samples Received: 01/17/17

This data package contains sample and QC results for two soil samples and one oil sample, requested for the above referenced project on 01/17/17. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B) Soil:

Matrix spikes QC868991,QC868992 (batch 243506) were not reported because the parent sample required a dilution that would have diluted out the spikes. 9606-SP (lab # 285134-001) and 9606-W-5.5 (lab # 285134-003) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Miscell.:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

9606-SP (lab # 285134-001) and 9606-W-5.5 (lab # 285134-003) were diluted due to high hydrocarbons. No other analytical problems were encountered.

PCBs (EPA 8082):

All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. High surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 243456; no target analytes were detected in the sample. No other analytical problems were encountered.

CHAIN OF CUSTODY

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Project I Project I Project I EDD For	Name: / 70 W(2) & 1/ P. O. No: 960 6 mat: / Report Level□ [Phone (5 Fax (5 Re	mpler: Aspendicular sport To: Aspendicular sp	00 32 SCEI	NS 9 \ TR	√ √•	N ee	<i>J</i> .	10,	RD			Hadene		0115				y = 5			
Lab No.	Sample ID.	SAMPI Date Collected	Time Collected	MATR	XIX	of Containers		SSO4	VATIV	None	THAI	37ex	THOUN	THA	1070x	76/35						
	9606-SP 9606-TANK	1/17/17	1:10	X	ŀ	* < 	主	I I	Ž	Ž	X		X	X	X X	X						
	9606-W-5.5	=	2:00			/					X	X	X									
																-						
Notes:		SAMPLE RECEIPT Intact	M	R	RELIN	NQUIS	- 1	D BY:		TIME: S	<u>├</u>	2/	2	1		REC	EIVE	D BY:	TE)		LS ME:	\n_
		On Ice						DATE:		TIME:								DA			ME:	

COOLER RECEIPT CHECKLIST



Login # $\frac{275134}{6618}$ Date Received $\frac{1/17/17}{9606}$ Number of cooler Project $\frac{9606}{6}$	s
Date Opened 1/17/17 By (print) H (sign) Date Logged in By (print) (sign) Date Labeled By (print) (sign)	
1. Did cooler come with a shipping slip (airbill, etc) YES Shipping info	NO
A 777	NO (N/A
3. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top of form) 6. Indicate the packing in cooler: (if other, describe)	NO NO NO
☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper town 7. Temperature documentation: * Notify PM if temperature exceeds 6°C	vels
Type of ice used: ☐ Wet ☐ Blue/Gel ☐ None Temp(°C)	
☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#	****
☐ Samples received on ice directly from the field. Cooling process had begun	
8. Were Method 5035 sampling containers present? Y	ES NO
If YES, what time were they transferred to freezer?	
9. Did all bottles arrive unbroken/unopened?	TR NO
	ES NO
10. Are there any missing / extra samples?	es no
10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete?	es no
10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers?	ES NO ES NO ES NO
10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested?	ES NO ES NO ES NO ES NO ES NO
10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? YES	ES NO ES NO ES NO ES NO ES NO NO NA
10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? (pH strip lot#) YES	ES NO ES NO ES NO ES NO NO N/A NO N/A
10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? (pH strip lot#) YES 11. Did you change the hold time in LIMS for unpreserved VOAs? YES 11. Are samples in the appropriate containers for indicated tests? YES 12. Are samples in the appropriate containers for indicated tests?	ES NO ES NO ES NO ES NO ES NO N
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Detections Summary for 285134

Results for any subcontracted analyses are not included in this summary.

Client : Golden Gate Tank Removal

Project : 9609

Location: 170 Woodland Way

Client Sample ID : 9606-SP Laboratory Sample ID : 285134-001

Analyte	Result	Flags		Units						_	Method
Diesel C10-C24	9,800		50	mg/Kg	As	Recd	50.00	EPA	8015B	EPA	3550B
o-Xylene	400		250	ug/Kg	As	Recd	50.00	EPA	8260B	EPA	5030B
Naphthalene	360		250	ug/Kg	As	Recd	50.00	EPA	8260B	EPA	5030B

Client Sample ID : 9606-TANK Laboratory Sample ID : 285134-002

Analyte	Result	Flags			Basis			Prep Method
Diesel C10-C24	20,000		400	mg/Kg	As Recd	1.000	EPA 8015B	EPA 3580

Client Sample ID : 9606-W-5.5 Laboratory Sample ID : 285134-003

Analyte	Result Fla	gs RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	14,000	5(mg/Kg	As Recd	50.00	EPA 8015B	EPA 3550B

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Total Extractable Hydrocarbons Lab #: 285134 Location: 170 Woodland Way Client: Golden Gate Tank Removal EPA 3550B Prep: EPA 8015B Project#: 9609 Analysis: $01/\overline{17/17}$ Soil Matrix: Sampled: Units: mg/Kg Received: 01/17/17 Basis: as received Prepared: 01/18/17 Batch#: 243506

Field ID: 9606-SP Diln Fac: 50.00
Type: SAMPLE Analyzed: 01/23/17

Lab ID: 285134-001

 Analyte
 Result
 RL

 Diesel C10-C24
 9,800
 50

Surrogate	%REC	Limits	
o-Terphenyl	DO	59-140	

 Field ID:
 9606-W-5.5
 Diln Fac:
 50.00

 Type:
 SAMPLE
 Analyzed:
 01/23/17

Lab ID: 285134-003

 Analyte
 Result
 RL

 Diesel C10-C24
 14,000
 50

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Type: BLANK Diln Fac: 1.000 Lab ID: QC868989 Analyzed: 01/19/17

Analyte	Result	RL	
Diesel C10-C24	ND	1.0	

Surrogate	%REC	Limits	
o-Terphenyl	117	59-140	

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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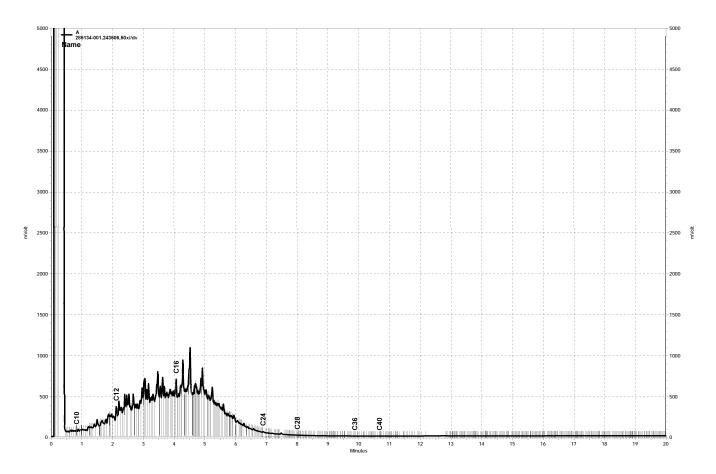
	Total Extractable Hydrocarbons									
Lab #:	285134	Location:	170 Woodland							
Client:	Golden Gate Tank Removal	Prep:	EPA 3550B							
Project#:	9606	Analysis:	EPA 8015B							
Type:	LCS	Diln Fac:	1.000							
Lab ID:	QC868990	Batch#:	243506							
Matrix:	Soil	Prepared:	01/18/17							
Units:	mg/Kg	Analyzed:	01/19/17							

Cleanup Method: EPA 3630C

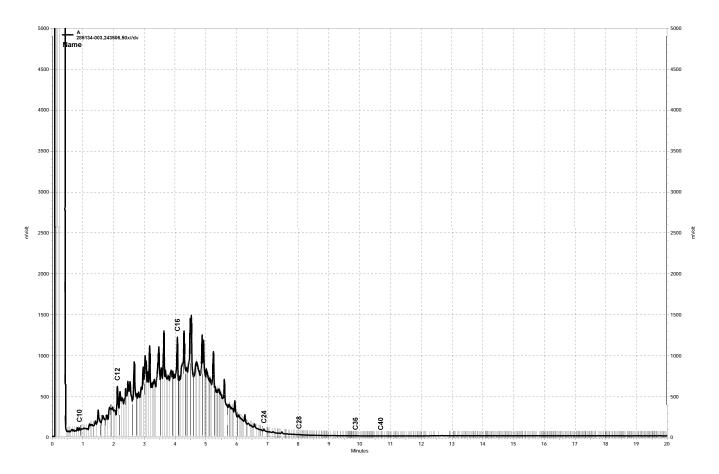
Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	40.89	82	58-137

Surrogate	%REC	Limits
o-Terphenyl	86	59-140

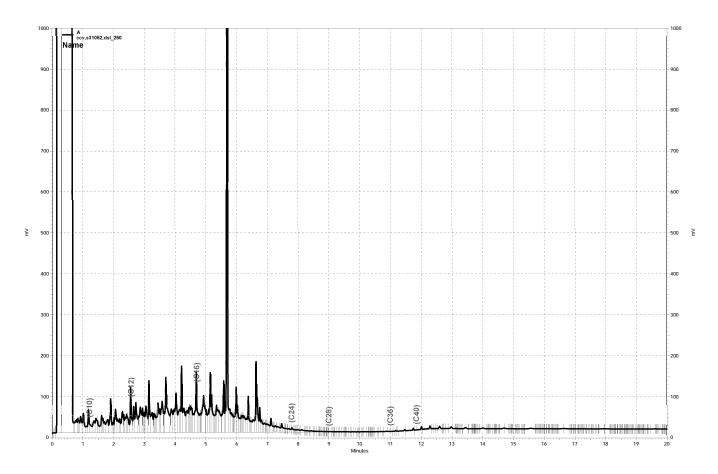
Page 1 of 1



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\kraken\gdrive\ezchrom\Projects\GC26\data\023a006, A



\kraken\gdrive\ezchrom\Projects\GC17a\Data\018a033, A



	Total Extractable Hydrocarbons						
Lab #:	285134	Location:	170 Woodland Way				
Client:	Golden Gate Tank Removal	Prep:	EPA 3580				
Project#:	9609	Analysis:	EPA 8015B				
Field ID:	9606-TANK	Batch#:	243483				
Matrix:	Miscell.	Sampled:	01/17/17				
Units:	mg/Kg	Received:	01/17/17				
Basis:	as received	Prepared:	01/18/17				
Diln Fac:	1.000	Analyzed:	01/18/17				

Type: SAMPLE Lab ID: 285134-002

Analyte	Result	RL	
Diesel C10-C24	20,000	400	
Motor Oil C24-C36	ND	2,000	

Surrogate	%REC	Limits
o-Terphenyl	117	59-140

Type: BLANK Lab ID: QC868901

Analyte	Result	RL	
Diesel C10-C24	ND	400	
Motor Oil C24-C36	ND	2,000	

	Surrogate	%REC	Limits
o-Terphen	nyl	105	59-140

ND= Not Detected RL= Reporting Limit

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Total Extractable Hydrocarbons						
Lab #:	285134	Location:	170 Woodland Way			
Client:	Golden Gate Tank Removal	Prep:	EPA 3580			
Project#:	9609	Analysis:	EPA 8015B			
Matrix:	Miscell.	Batch#:	243483			
Units:	mg/Kg	Prepared:	01/18/17			
Diln Fac:	1.000	Analyzed:	01/18/17			

Type: BS Lab ID: QC868902

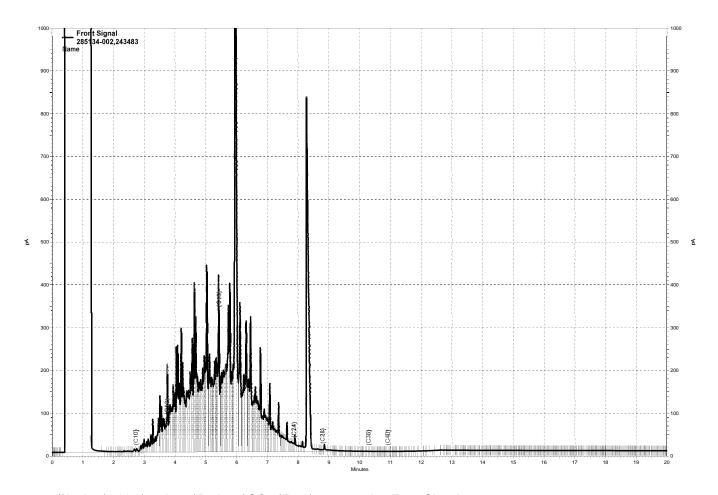
Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	19,200	19,800	103	58-137

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

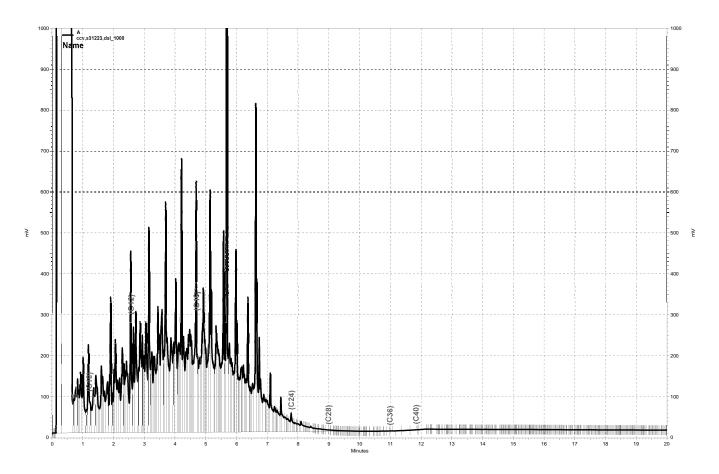
Type: BSD Lab ID: QC868903

Analyte Spiked		Result	%REC	Limits	RPD	Lim
Diesel C10-C24	19,200	20,570	107	58-137	4	20

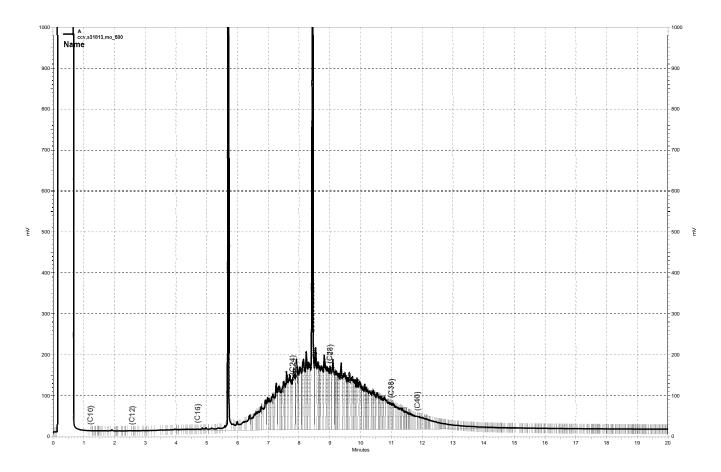
Surrogate	%REC	Limits	
o-Terphenyl	104	59-140	



\kraken\gdrive\ezchrom\Projects\GC27\Data\018a032.dat, Front Signal



\kraken\gdrive\ezchrom\Projects\GC17a\Data\018a016, A



\kraken\gdrive\ezchrom\Projects\GC17a\Data\018a017, A



Purgeable Aromatics by GC/MS						
Lab #:	285134	Location:	170 Woodland			
Client:	Golden Gate Tank Removal	Prep:	EPA 5030B			
Project#:	9606	Analysis:	EPA 8260B			
Field ID:	9606-SP	Diln Fac:	50.00			
Lab ID:	285134-001	Batch#:	243623			
Matrix:	Soil	Sampled:	01/17/17			
Units:	ug/Kg	Received:	01/17/17			
Basis:	as received	Analyzed:	01/21/17			

Analyte	Result	RL	
MTBE	ND	250	
Benzene	ND	250	
Toluene	ND	250	
Ethylbenzene	ND	250	
m,p-Xylenes	ND	250	
o-Xylene	400	250	
Naphthalene	360	250	

Surrogate	%REC	Limits
Dibromofluoromethane	84	78-134
1,2-Dichloroethane-d4	101	80-138
Toluene-d8	100	80-120
Bromofluorobenzene	118	78-123
Trifluorotoluene (MeOH)	78	52-147

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Purgeable Aromatics by GC/MS					
Lab #:	285134	Location:	170 Woodland			
Client:	Golden Gate Tank Removal	Prep:	EPA 5030B			
Project#:	9606	Analysis:	EPA 8260B			
Field ID:	9606-W-5.5	Diln Fac:	100.0			
Lab ID:	285134-003	Batch#:	243623			
Matrix:	Soil	Sampled:	01/17/17			
Units:	ug/Kg	Received:	01/17/17			
Basis:	as received	Analyzed:	01/22/17			

Analyte	Result	RL	
MTBE	ND	500	
Benzene	ND	500	
Toluene	ND	500	
Ethylbenzene	ND	500	
m,p-Xylenes	ND	500	
m,p-Xylenes o-Xylene	ND	500	
Naphthalene	ND	500	

Surrogate	%REC	Limits	
Dibromofluoromethane	83	78-134	
1,2-Dichloroethane-d4	100	80-138	
Toluene-d8	96	80-120	
Bromofluorobenzene	107	78-123	
Trifluorotoluene (MeOH)	79	52-147	

ND= Not Detected RL= Reporting Limit Page 1 of 1

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Purgeable Aromatics by GC/MS				
Lab #:	285134	Location:	170 Woodland	
Client:	Golden Gate Tank Removal	Prep:	EPA 5030B	
Project#:	9606	Analysis:	EPA 8260B	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC869451	Batch#:	243623	
Matrix:	Soil	Analyzed:	01/21/17	
Units:	ug/Kg			

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	21.52	86	61-122
Benzene	25.00	23.32	93	80-123
Toluene	25.00	22.42	90	80-120
Ethylbenzene	25.00	22.00	88	80-122
m,p-Xylenes	50.00	42.67	85	80-127
o-Xylene	25.00	21.67	87	80-125

Surrogate	%REC	Limits
Dibromofluoromethane	87	78-134
1,2-Dichloroethane-d4	100	80-138
Toluene-d8	102	80-120
Bromofluorobenzene	97	78-123

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Purgeable Aromatics by GC/MS				
Lab #:	285134	Location:	170 Woodland	
Client:	Golden Gate Tank Removal	Prep:	EPA 5030B	
Project#:	9606	Analysis:	EPA 8260B	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC869452	Batch#:	243623	
Matrix:	Soil	Analyzed:	01/21/17	
Units:	ug/Kg			

Analyte	Result	RL	
MTBE	ND	5.0	
Benzene	ND	5.0	
Toluene	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	
Naphthalene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	87	78-134	
1,2-Dichloroethane-d4	102	80-138	
Toluene-d8	102	80-120	
Bromofluorobenzene	99	78-123	

ND= Not Detected RL= Reporting Limit

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Purgeable Aromatics by GC/MS				
Lab #:	285134	Location:	170 Woodland	
Client:	Golden Gate Tank Removal	Prep:	EPA 5030B	
Project#:	9606	Analysis:	EPA 8260B	
Field ID:	ZZZZZZZZZZ	Batch#:	243623	
MSS Lab ID:	285310-001	Sampled:	01/20/17	
Matrix:	Soil	Received:	01/20/17	
Units:	ug/Kg	Analyzed:	01/21/17	
Basis:	as received			

Type: MS Diln Fac: 0.9653

Lab ID: QC869457

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.4708	24.13	24.80	103	49-120
Benzene	<0.6785	24.13	24.34	101	57-120
Toluene	<0.7432	24.13	23.06	96	51-120
Ethylbenzene	<0.6941	24.13	22.85	95	45-120
m,p-Xylenes	<1.342	48.26	44.12	91	45-123
o-Xylene	<0.5791	24.13	22.38	93	44-122

Surrogate	%REC	Limits
Dibromofluoromethane	88	78-134
1,2-Dichloroethane-d4	106	80-138
Toluene-d8	101	80-120
Bromofluorobenzene	100	78-123

Type: MSD Diln Fac: 0.9579

Lab ID: QC869458

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	23.95	23.01	96	49-120	7	40
Benzene	23.95	23.53	98	57-120	3	44
Toluene	23.95	21.78	91	51-120	5	47
Ethylbenzene	23.95	21.30	89	45-120	6	55
m,p-Xylenes	47.89	40.72	85	45-123	7	53
o-Xylene	23.95	20.83	87	44-122	6	55

Surrogate	%REC	Limits	
Dibromofluoromethane	88	78-134	
1,2-Dichloroethane-d4	106	80-138	
Toluene-d8	101	80-120	
Bromofluorobenzene	98	78-123	

RPD= Relative Percent Difference

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	Polychlorinated	Biphenyls (PC	CBs)
Lab #:	285134	Location:	170 Woodland
Client:	Golden Gate Tank Removal	Prep:	EPA 3580
Project#:	9606	Analysis:	EPA 8082
Field ID:	9606-TANK	Batch#:	243456
Matrix:	Miscell.	Sampled:	01/17/17
Units:	ug/Kg	Received:	01/17/17
Basis:	as received	Analyzed:	01/19/17
Diln Fac:	1.000		

Type: SAMPLE Prepared: 01/18/17

Lab ID: 285134-002

Analyte	Result	RL
Aroclor-1016	ND	500
Aroclor-1221	ND	1,000
Aroclor-1232	ND	500
Aroclor-1242	ND	500
Aroclor-1248	ND	500
Aroclor-1254	ND	500
Aroclor-1260	ND	500

Surrogate	%REC	Limits	
Decachlorobiphenyl	117	25-135	

Type: BLANK Prepared: 01/17/17

Lab ID: QC868805

Analyte	Result	RL	
Aroclor-1016	ND	500	
Aroclor-1221	ND	1,000	
Aroclor-1232	ND	500	
Aroclor-1242	ND	500	
Aroclor-1248	ND	500	
Aroclor-1254	ND	500	
Aroclor-1260	ND	500	

Surrogate	%REC	Limits
Decachlorobiphenyl	138 *	25-135

ND= Not Detected

RL= Reporting Limit

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 $[\]star =$ Value outside of QC limits; see narrative



	Polychlorinated	l Biphenyls	(PCBs)
Lab #:	285134	Location:	170 Woodland
Client:	Golden Gate Tank Removal	Prep:	EPA 3580
Project#:	9606	Analysis:	EPA 8082
Matrix:	Miscell.	Batch#:	243456
Units:	ug/Kg	Prepared:	01/17/17
Diln Fac:	1.000	Analyzed:	01/19/17

Type: BS Lab ID: QC868806

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	10,000	11,290	113	64-140
Aroclor-1260	10,000	12,610	126	65-146

Surrogate	%REC	Limits	
Decachlorobiphenyl	102	25-135	

Type: BSD Lab ID: QC868807

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	10,000	10,730	107	64-140	5	35
Aroclor-1260	10,000	10,880	109	65-146	15	36

Surrogate	%REC	Limits	
Decachlorobiphenyl	93	25-135	