



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 8/22/2018

Subject: Analytical Testing Results - Project R18U01
SDG: 18207B

From: Peter Husby, Director
EPA Region 9 Laboratory
EMD-3-1

To: Lyndsey Tu
Underground Storage Tanks Program Office
LND-4-3

Attached are the results from the analysis of samples from the **Red Hill Tank Farm October 2017 Split Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Electronic CC: Roxanne Kwan, Hawaii DOH

Analyses included in this report:

PAHs by GC/MS SIM

Extractable Petroleum Hydrocarbons by
GC/FID

Extractable Petroleum Hydrocarbons (w/silica
gel)



United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu

Project Number: R18U01

Project: Red Hill Tank Farm October 2017 Split
Sampling

Underground Storage Tanks Program Office

75 Hawthorne Street
San Francisco CA, 94105

SDG: 18207B

Reported: 08/22/18 13:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
ERH637	1807037-01	Water	07/24/18 10:00	07/26/18 10:18
ERH642	1807037-02	Water	07/25/18 08:50	07/26/18 10:18
ERH639	1807037-03	Water	07/24/18 13:25	07/26/18 10:18



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18207B
Project Number: R18U01	75 Hawthorne Street	Reported: 08/22/18 13:01
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
---------	-------------------------	--------	--------------------------	-----------------------	-------	-------	----------	----------	--------

Lab ID: 1807037-01

Water - Sampled: 07/24/18 10:00

Sample ID: ERH637

Extractable Petroleum Hydrocarbons

TPH - Diesel Range Organics		160	F13	150	ug/L	B18G083	07/27/18	08/02/18	8015C
TPH - Oil Range Organics		ND	U	600	"	"	"	"	8015C
<i>Surrogate: Hexacosane</i>			74 %	47-130%		"	"	"	

Sample ID: ERH637

Extractable Petroleum Hydrocarbons with Silica Gel Cleanup

TPH - Diesel Range Organics		ND	U	150	"	"	"	08/02/18	8015C
TPH - Oil Range Organics		ND	U	600	"	"	"	"	8015C
<i>Surrogate: Hexacosane</i>			57 %	47-130%		"	"	"	

Sample ID: ERH637

Semivolatile Organic Compounds by EPA Method 8270D

Naphthalene		130		50	ng/L	B18G090	07/30/18	08/08/18	8270D (SIM)
2-Methylnaphthalene		ND	U	50	"	"	"	"	8270D (SIM)
1-Methylnaphthalene		ND	U	50	"	"	"	"	8270D (SIM)
Acenaphthylene		ND	U	50	"	"	"	"	8270D (SIM)
Acenaphthene		ND	U	50	"	"	"	"	8270D (SIM)
Fluorene		ND	U	50	"	"	"	"	8270D (SIM)
Phenanthrene		ND	U	50	"	"	"	"	8270D (SIM)
Anthracene		ND	C3, J, U	50	"	"	"	"	8270D (SIM)
Fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(a)anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Chrysene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(b)fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(k)fluoranthene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(a)pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Indeno(1,2,3-cd)pyrene		ND	U	50	"	"	"	"	8270D (SIM)
Dibenz(a,h)anthracene		ND	U	50	"	"	"	"	8270D (SIM)
Benzo(g,h,i)perylene		ND	U	50	"	"	"	"	8270D (SIM)
<i>Surrogate: 2-Fluorobiphenyl</i>			67 %	32-110%		"	"	"	
<i>Surrogate: Terphenyl-d14</i>			100 %	39-136%		"	"	"	

Lab ID: 1807037-02

Water - Sampled: 07/25/18 08:50

Sample ID: ERH642

Extractable Petroleum Hydrocarbons

TPH - Diesel Range Organics		180	F13	150	ug/L	B18G083	07/27/18	08/02/18	8015C
TPH - Oil Range Organics		ND	U	600	"	"	"	"	8015C
<i>Surrogate: Hexacosane</i>			54 %	47-130%		"	"	"	

Sample ID: ERH642

Extractable Petroleum Hydrocarbons with Silica Gel Cleanup

TPH - Diesel Range Organics		ND	U	150	"	"	"	08/02/18	8015C
-----------------------------	--	----	---	-----	---	---	---	----------	-------



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18207B
Project Number: R18U01	75 Hawthorne Street	Reported: 08/22/18 13:01
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
---------	----------------------	--------	-----------------------	--------------------	-------	-------	----------	----------	--------

Lab ID: 1807037-02 **Water - Sampled: 07/25/18 08:50**

Sample ID: ERH642 **Extractable Petroleum Hydrocarbons with Silica Gel Cleanup**

TPH - Oil Range Organics ND U 600 ug/L B18G083 07/27/18 08/02/18 8015C

Surrogate: Hexacosane 54 % 47-130% " " "

Sample ID: ERH642 **Semivolatiles Organic Compounds by EPA Method 8270D**

Naphthalene ND U 54 ng/L B18G090 07/30/18 08/08/18 8270D (SIM)

2-Methylnaphthalene ND U 54 " " " 8270D (SIM)

1-Methylnaphthalene ND U 54 " " " 8270D (SIM)

Acenaphthylene ND U 54 " " " 8270D (SIM)

Acenaphthene ND U 54 " " " 8270D (SIM)

Fluorene ND U 54 " " " 8270D (SIM)

Phenanthrene ND U 54 " " " 8270D (SIM)

Anthracene ND C3, J, U 54 " " " 8270D (SIM)

Fluoranthene ND U 54 " " " 8270D (SIM)

Pyrene ND U 54 " " " 8270D (SIM)

Benzo(a)anthracene ND U 54 " " " 8270D (SIM)

Chrysene ND U 54 " " " 8270D (SIM)

Benzo(b)fluoranthene ND U 54 " " " 8270D (SIM)

Benzo(k)fluoranthene ND U 54 " " " 8270D (SIM)

Benzo(a)pyrene ND U 54 " " " 8270D (SIM)

Indeno(1,2,3-cd)pyrene ND U 54 " " " 8270D (SIM)

Dibenz(a,h)anthracene ND U 54 " " " 8270D (SIM)

Benzo(g,h,i)perylene ND U 54 " " " 8270D (SIM)

Surrogate: 2-Fluorobiphenyl 75 % 32-110% " " "

Surrogate: Terphenyl-d14 100 % 39-136% " " "

Lab ID: 1807037-03 **Water - Sampled: 07/24/18 13:25**

Sample ID: ERH639 **Extractable Petroleum Hydrocarbons**

TPH - Diesel Range Organics RE1 2,400 F13 150 ug/L B18G101 07/27/18 08/02/18 8015C

TPH - Oil Range Organics RE1 ND U 600 " " " 8015C

Surrogate: Hexacosane RE1 59 % 47-130% " " "

Sample ID: ERH639 **Extractable Petroleum Hydrocarbons with Silica Gel Cleanup**

TPH - Diesel Range Organics RE1 570 F13 150 " " 08/02/18 8015C

TPH - Oil Range Organics RE1 ND U 600 " " " 8015C

Surrogate: Hexacosane RE1 62 % 47-130% " " "

Sample ID: ERH639 **Semivolatiles Organic Compounds by EPA Method 8270D**

Naphthalene RE2 47,000 480 ng/L B18G090 07/30/18 08/09/18 8270D (SIM)

2-Methylnaphthalene RE2 12,000 480 " " " 8270D (SIM)

1-Methylnaphthalene RE2 19,000 480 " " " 8270D (SIM)



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18207B
Project Number: R18U01	75 Hawthorne Street	Reported: 08/22/18 13:01
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID:	1807037-03							Water - Sampled: 07/24/18 13:25	
Sample ID:	ERH639								Semivolatile Organic Compounds by EPA Method 8270D
Acenaphthylene		ND	U	48	ng/L	B18G090	07/30/18	08/08/18	8270D (SIM)
Acenaphthene		420		48	"	"	"	"	8270D (SIM)
Fluorene		270		48	"	"	"	"	8270D (SIM)
Phenanthrene		ND	U	48	"	"	"	"	8270D (SIM)
Anthracene		ND	C3, J, U	48	"	"	"	"	8270D (SIM)
Fluoranthene		ND	U	48	"	"	"	"	8270D (SIM)
Pyrene		ND	U	48	"	"	"	"	8270D (SIM)
Benzo(a)anthracene		ND	U	48	"	"	"	"	8270D (SIM)
Chrysene		ND	U	48	"	"	"	"	8270D (SIM)
Benzo(b)fluoranthene		ND	U	48	"	"	"	"	8270D (SIM)
Benzo(k)fluoranthene		ND	U	48	"	"	"	"	8270D (SIM)
Benzo(a)pyrene		ND	U	48	"	"	"	"	8270D (SIM)
Indeno(1,2,3-cd)pyrene		ND	U	48	"	"	"	"	8270D (SIM)
Dibenz(a,h)anthracene		ND	U	48	"	"	"	"	8270D (SIM)
Benzo(g,h,i)perylene		ND	U	48	"	"	"	"	8270D (SIM)
<i>Surrogate: 2-Fluorobiphenyl</i>			67 %	32-110%		"	"	"	
<i>Surrogate: Terphenyl-d14</i>			74 %	39-136%		"	"	"	



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18207B
Project Number: R18U01	75 Hawthorne Street	Reported: 08/22/18 13:01
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------------	--------------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B18G083 - 3520C CLLE - TPH - Extractable

Prepared: 07/27/18 Analyzed: 08/02/18
Extractable Petroleum Hydrocarbons - Quality Control

Blank (B18G083-BLK1)

TPH - Diesel Range Organics	ND	U	150	ug/L						
TPH - Oil Range Organics	ND	U	600	"						

Surrogate: Hexacosane 36.1 " 50.0 72 47-130

LCS (B18G083-BS1)

TPH - Diesel Range Organics	1,250		150	ug/L	1500		84	59-109		
-----------------------------	-------	--	-----	------	------	--	----	--------	--	--

Surrogate: Hexacosane 34.8 " 50.0 70 47-130

Batch B18G083 - 3520C CLLE - TPH-Extractable SGC

Prepared: 07/27/18 Analyzed: 08/02/18
Extractable Petroleum Hydrocarbons with Silica Gel Cleanup - Quality Control

Blank (B18G083-BLK2)

TPH - Diesel Range Organics	ND	U	150	ug/L						
TPH - Oil Range Organics	ND	U	600	"						

Surrogate: Hexacosane 31.8 " 50.0 64 47-130

LCS (B18G083-BS2)

TPH - Diesel Range Organics	1,110		150	ug/L	1500		74	59-109		
-----------------------------	-------	--	-----	------	------	--	----	--------	--	--

Surrogate: Hexacosane 32.0 " 50.0 64 47-130

Batch B18G090 - 3520C CLLE - PAH-Low

Prepared: 07/30/18 Analyzed: 08/08/18
Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Blank (B18G090-BLK1)

Naphthalene	ND	U	50	ng/L						
2-Methylnaphthalene	ND	U	50	"						
1-Methylnaphthalene	ND	U	50	"						
Acenaphthylene	ND	U	50	"						
Acenaphthene	ND	U	50	"						
Fluorene	ND	U	50	"						
Phenanthrene	ND	U	50	"						
Anthracene	ND	C3, J, U	50	"						
Fluoranthene	ND	U	50	"						
Pyrene	ND	U	50	"						
Benzo(a)anthracene	ND	U	50	"						
Chrysene	ND	U	50	"						
Benzo(b)fluoranthene	ND	U	50	"						
Benzo(k)fluoranthene	ND	U	50	"						
Benzo(a)pyrene	ND	U	50	"						
Indeno(1,2,3-cd)pyrene	ND	U	50	"						
Dibenz(a,h)anthracene	ND	U	50	"						
Benzo(g,h,i)perylene	ND	U	50	"						



United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone: (510) 412-2300 Fax: (510) 412-2302

Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18207B
Project Number: R18U01	75 Hawthorne Street	Reported: 08/22/18 13:01
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------------	--------------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B18G090 - 3520C CLLE - PAH-Low

Prepared: 07/30/18 Analyzed: 08/08/18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Blank (B18G090-BLK1)

Surrogate: 2-Fluorobiphenyl	3300	"	5000	66	32-110
Surrogate: Terphenyl-d14	5380	"	5000	108	39-136

LCS (B18G090-BS1)

Naphthalene	696		50 ng/L	1000	70	20-110
2-Methylnaphthalene	628		50 "	1000	63	20-110
1-Methylnaphthalene	627		50 "	1000	63	20-110
Acenaphthylene	716		50 "	1000	72	35-110
Acenaphthene	684		50 "	1000	68	25-110
Fluorene	765		50 "	1000	76	36-110
Phenanthrene	835		50 "	1000	83	49-110
Anthracene	855		50 "	1000	86	56-110
Fluoranthene	922		50 "	1000	92	65-110
Pyrene	872		50 "	1000	87	57-114
Benzo(a)anthracene	967		50 "	1000	97	70-125
Chrysene	884		50 "	1000	88	64-110
Benzo(b)fluoranthene	877		50 "	1000	88	63-111
Benzo(k)fluoranthene	889		50 "	1000	89	63-116
Benzo(a)pyrene	784		50 "	1000	78	62-110
Indeno(1,2,3-cd)pyrene	847		50 "	1000	85	60-116
Dibenz(a,h)anthracene	853		50 "	1000	85	60-121
Benzo(g,h,i)perylene	825		50 "	1000	83	59-110

Surrogate: 2-Fluorobiphenyl	3280	"	5000	66	32-110
Surrogate: Terphenyl-d14	4470	"	5000	89	39-136

Batch B18G101 - 3520C CLLE - TPH - Extractable

Prepared: 07/31/18 Analyzed: 08/02/18

Extractable Petroleum Hydrocarbons - Quality Control

Blank (B18G101-BLK1)

TPH - Diesel Range Organics	ND	U	150 ug/L		
TPH - Oil Range Organics	ND	U	600 "		

Surrogate: Hexacosane	31.2	"	50.0	62	47-130
-----------------------	------	---	------	----	--------

LCS (B18G101-BS1)

TPH - Diesel Range Organics	1,380		150 ug/L	92	59-109
-----------------------------	-------	--	----------	----	--------

Surrogate: Hexacosane	38.5	"	50.0	77	47-130
-----------------------	------	---	------	----	--------

Batch B18G101 - 3520C CLLE - TPH-Extractable SGC

Prepared: 07/31/18 Analyzed: 08/02/18

Extractable Petroleum Hydrocarbons with Silica Gel Cleanup - Quality Control

Blank (B18G101-BLK2)

TPH - Diesel Range Organics	ND	U	150 ug/L		
TPH - Oil Range Organics	ND	U	600 "		



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu	Underground Storage Tanks Program Office	SDG: 18207B
Project Number: R18U01	75 Hawthorne Street	Reported: 08/22/18 13:01
Project: Red Hill Tank Farm October 2017 Split Sampling	San Francisco CA, 94105	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B18G101 - 3520C CLLE - TPH-Extractable SGC						Prepared: 07/31/18 Analyzed: 08/02/18				
Blank (B18G101-BLK2)						Extractable Petroleum Hydrocarbons with Silica Gel Cleanup - Quality Control				
<i>Surrogate: Hexacosane</i>	26.4			"	50.0		53	47-130		
LCS (B18G101-BS2)										
TPH - Diesel Range Organics	1,220			150 ug/L	1500		82	59-109		
<i>Surrogate: Hexacosane</i>	34.5			"	50.0		69	47-130		



United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lyndsey Tu

Project Number: R18U01

Project: Red Hill Tank Farm October 2017 Split
Sampling

Underground Storage Tanks Program Office

75 Hawthorne Street
San Francisco CA, 94105

SDG: 18207B

Reported: 08/22/18 13:01

Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

F13 Fuel or Product Type: mixed or unknown

C3 The initial calibration for this analyte did not meet calibration criteria.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNITS	RPTOMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL
3520C CLLE	TPH - Diesel Range Organics	TPH-DRO	FALSE	FALSE		160	75	150 ug/L	TRUE	NA		1			
3520C CLLE	TPH - Oil Range Organics	TPH-ORO	FALSE	FALSE	ND		300	600 ug/L	TRUE	NA		1			
3520C CLLE	Hexacosane	630-01-3	TRUE	FALSE		36.9		ug/mL	TRUE	NA		1	50	74	130 47
3520C CLLE	TPH - Diesel Range Organics	TPH-DRO	FALSE	FALSE	ND		75	150 ug/L	TRUE	NA		1			
3520C CLLE	TPH - Oil Range Organics	TPH-ORO	FALSE	FALSE	ND		300	600 ug/L	TRUE	NA		1			
3520C CLLE	Hexacosane	630-01-3	TRUE	FALSE		28.5		ug/mL	TRUE	NA		1	50	57	130 47
3520C CLLE	Naphthalene	91-20-3	FALSE	FALSE		130	25	50 ng/L	TRUE	NA		1			
3520C CLLE	2-Methylnaphthalene	91-57-6	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	1-Methylnaphthalene	90-12-0	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Acenaphthylene	208-96-8	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Acenaphthene	83-32-9	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Fluorene	86-73-7	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Phenanthrene	85-01-8	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Anthracene	120-12-7	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Fluoranthene	206-44-0	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Pyrene	129-00-0	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(a)anthracene	56-55-3	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Chrysene	218-01-9	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(b)fluoranthene	205-99-2	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(k)fluoranthene	207-08-9	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(a)pyrene	50-32-8	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Indeno(1,2,3-cd)pyrene	193-39-5	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Dibenz(a,h)anthracene	53-70-3	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(g,h,i)perylene	191-24-2	FALSE	FALSE	ND		25	50 ng/L	TRUE	NA		1			
3520C CLLE	2-Fluorobiphenyl	321-60-8	TRUE	FALSE		3370		ng/mL	TRUE	NA		1	5000	67	110 32
3520C CLLE	Terphenyl-d14	1718-51-0	TRUE	FALSE		5010		ng/mL	TRUE	NA		1	5000	100	136 39
3520C CLLE	TPH - Diesel Range Organics	TPH-DRO	FALSE	FALSE		180	75	150 ug/L	TRUE	NA		1			
3520C CLLE	TPH - Oil Range Organics	TPH-ORO	FALSE	FALSE	ND		300	600 ug/L	TRUE	NA		1			
3520C CLLE	Hexacosane	630-01-3	TRUE	FALSE		27		ug/mL	TRUE	NA		1	50	54	130 47
3520C CLLE	TPH - Diesel Range Organics	TPH-DRO	FALSE	FALSE	ND		75	150 ug/L	TRUE	NA		1			
3520C CLLE	TPH - Oil Range Organics	TPH-ORO	FALSE	FALSE	ND		300	600 ug/L	TRUE	NA		1			
3520C CLLE	Hexacosane	630-01-3	TRUE	FALSE		26.8		ug/mL	TRUE	NA		1	50	54	130 47
3520C CLLE	Naphthalene	91-20-3	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	2-Methylnaphthalene	91-57-6	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	1-Methylnaphthalene	90-12-0	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Acenaphthylene	208-96-8	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Acenaphthene	83-32-9	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Fluorene	86-73-7	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Phenanthrene	85-01-8	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Anthracene	120-12-7	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Fluoranthene	206-44-0	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Pyrene	129-00-0	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(a)anthracene	56-55-3	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Chrysene	218-01-9	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(b)fluoranthene	205-99-2	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(k)fluoranthene	207-08-9	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(a)pyrene	50-32-8	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Indeno(1,2,3-cd)pyrene	193-39-5	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Dibenz(a,h)anthracene	53-70-3	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(g,h,i)perylene	191-24-2	FALSE	FALSE	ND		27	54 ng/L	TRUE	NA		1			
3520C CLLE	2-Fluorobiphenyl	321-60-8	TRUE	FALSE		3750		ng/mL	TRUE	NA		1	5000	75	110 32
3520C CLLE	Terphenyl-d14	1718-51-0	TRUE	FALSE		5010		ng/mL	TRUE	NA		1	5000	100	136 39
3520C CLLE	Acenaphthylene	208-96-8	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Acenaphthene	83-32-9	FALSE	FALSE		420	24	48 ng/L	TRUE	NA		1			
3520C CLLE	Fluorene	86-73-7	FALSE	FALSE		270	24	48 ng/L	TRUE	NA		1			
3520C CLLE	Phenanthrene	85-01-8	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Anthracene	120-12-7	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Fluoranthene	206-44-0	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Pyrene	129-00-0	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(a)anthracene	56-55-3	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Chrysene	218-01-9	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(b)fluoranthene	205-99-2	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(k)fluoranthene	207-08-9	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(a)pyrene	50-32-8	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Indeno(1,2,3-cd)pyrene	193-39-5	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Dibenz(a,h)anthracene	53-70-3	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	Benzo(g,h,i)perylene	191-24-2	FALSE	FALSE	ND		24	48 ng/L	TRUE	NA		1			
3520C CLLE	2-Fluorobiphenyl	321-60-8	TRUE	FALSE		3340		ng/mL	TRUE	NA		1	5000	67	110 32
3520C CLLE	Terphenyl-d14	1718-51-0	TRUE	FALSE		3720		ng/mL	TRUE	NA		1	5000	74	136 39
3520C CLLE	TPH - Diesel Range Organics	TPH-DRO	FALSE	FALSE		2400	75	150 ug/L	TRUE	NA		1			
3520C CLLE	TPH - Oil Range Organics	TPH-ORO	FALSE	FALSE	ND		300	600 ug/L	TRUE	NA		1			
3520C CLLE	Hexacosane	630-01-3	TRUE	FALSE		29.7		ug/mL	TRUE	NA		1	50	59	130 47
3520C CLLE	TPH - Diesel Range Organics	TPH-DRO	FALSE	FALSE		570	75	150 ug/L	TRUE	NA		1			
3520C CLLE	TPH - Oil Range Organics	TPH-ORO	FALSE	FALSE	ND		300	600 ug/L	TRUE	NA		1			
3520C CLLE	Hexacosane	630-01-3	TRUE	FALSE		31.1		ug/mL	TRUE	NA		1	50	62	130 47
3520C CLLE	Naphthalene	91-20-3	FALSE	FALSE		47000	240	480 ng/L	TRUE	NA		10			
3520C CLLE	2-Methylnaphthalene	91-57-6	FALSE	FALSE		12000	240	480 ng/L	TRUE	NA		10			
3520C CLLE	1-Methylnaphthalene	90-12-0	FALSE	FALSE		19000	240	480 ng/L	TRUE	NA		10			

SNOTE10

ANALYTEORDER

10
20
710
10
20
710
200
240
245
310
340
400
480
490
520
530
550
570
600
610
620
630
640
650
870
890
10
20
710
10
20
710
200
240
245
310
340
400
480
490
520
530
550
570
600
610
620
630
640
650
870
890
310
340
400
480
490
520
530
550
570
600
610
620
630
640
650
870
890
10
20
710
10
20
710
200
240
245

QUALIFIER DESCRIPTION

- C3 The initial calibration for this analyte did not meet calibration criteria.
- F13 Fuel or Product Type: mixed or unknown
- J The reported result for this analyte should be considered an estimated value.
- U This analyte was not detected.