American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Number of Pages 90
Date Received 08/23/2017
Date Reported 09/05/2017

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Job Number	Order Date	Client
89104	08/23/2017	T/T

Project ID: T73479.17
Project Name: Wilmington Marine Service
Site: Wilmington Marine Service

Enclosed please find results of analyses of 34 soil and 2 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

102263

AETL JOB No. 89104

Page 1 of 4

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson Maclyn O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470 2405
FAX:
PROJECT NAME: Wilmington Marine Service (WMS)
PROJECT #: 73479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C12) 8015M	TPHg (C13-C40) 8015	Title 22 metals 6010/7471	MOISTURE Percent	VOCS + oxygenates 8260B	SVOCS	PCBs 8082 Soxhlet				TEST INSTRUCTIONS & COMMENTS
TB08232017		8-23-17	0700	W	4		X				X						Tt standard EDD VOCS + oxygenates and TPHgas - 3 day TAT Rest normal TAT Blank = hold
Tt-WMS-36-0.5			0726	S	5		X	X	X	X	X	X	X				89104.01
Tt-WMS-36-2.0			0732	S	5		X	X	X	X	X	X	X				89104.02
Tt-WMS-36-2.0D			0736	S	5		X	X	X	X	X	X	X				89104.03
Tt-WMS-36-5.0			0740	S	5		X	X	X	X	X	X	X				89104.04
Tt-WMS-36-10.0			0745	S	5												89104.05
Tt-WMS-12-0.5			0756	S	5												89104.06
Tt-WMS-12-2.0			0801	S	14		X	X	X	X							89104.07
Tt-WMS-12-5.0			0808	S	5		X	X	X	X							MS/MSD 89104.08
Tt-WMS-12-10.0			0815	S	5						X						89104.09
Tt-WMS-37-0.5			0828	S	5												89104.10
Tt-WMS-37-2.0			0833	S	5		X	X	X	X		X					89104.11
Tt-WMS-37-5.0			0837	S	5		X	X	X	X	X	X	X				89104.12
Tt-WMS-37-10.0			0844	S	5								X				89104.13
Tt-WMS-13-0.50			0857	S	5												89104.14
							X	X	X	X							89104.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	83	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: [✓] NORMAL [✓] RUSH — [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [✓] 3 DAYS

DATA DELIVERABLE REQUIRED: [ ] HARD COPY [ ] PDF [ ] GEOTRACKER (GLOBAL ID) [ ] OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Sargis P
Date: 8-23-17 Time: 1530	Date: Time:	Date: 8/23/14 Time: 1730

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sargis P	Printed Name:	Printed Name: Artin
Date: 8/23/17 Time: 1530	Date: Time:	Date: 08/23/17 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102264

AETL JOB No. 89104

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Maclyn O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Service (WMS)
PROJECT #:
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C12) 8015M	TPHd (C13-C40) 8015	Title 22 metals 6010/7471	Moisture Percent	VOCs + Oxygenates 8260B	SVOCs	PCBs 8082	8081			TEST INSTRUCTIONS & COMMENTS
																	Tt standard EDD VOCs + oxygenates + TPHgas - 3day TAT Rest normal TAT Blank = Hold
Tt-WMS-13-2.0		8-23-17	0902	S	5		X	X	X	X							89104.16
Tt-WMS-13-2.0			0906	S	5		X	X	X	X							89104.17
Tt-WMS-13-5.0			0911	S	5								X				89104.18
Tt-WMS-13-10.0			0917	S	5												89104.19
Tt-WMS-14-0.5		0923	~~0926~~	S	5		X	X	X	X							89104.20
Tt-WMS-14-2.0			0928	S	5		X	X	X	X							89104.21
Tt-WMS-14-5.0			0937	S	5												89104.22
Tt-WMS-14-10.0			0945	S	5												89104.23
Tt-WMS-11-0.5			0950	S	5		X	X	X	X							89104.24
Tt-WMS-11-3.0			1007	S	5		X	X	X	X							89104.25
Tt-WMS-11-~~5.0~~ 5.0			1011	S	5												89104.26
Tt-WMS-11-12.0			1020	S	5												89104.27
Tt-WMS-1-0.5			1033	S	5		X	X	X	X							89104.28
Tt-WMS-1-2.0			1038	S	5		X	X	X	X							89104.29
Tt-WMS-1-5.0			1044	S	5												89104.30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	75	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

☑ NORMAL ☑ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☑ 3 DAYS

DATA DELIVERABLE REQUIRED

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☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Sangisp
Date: 8-23-17 Time: 1530	Date: Time:	Date: 8/23/17 Time: 1730
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sangisp	Printed Name:	Printed Name: Antin
Date: 8/23/17 Time: 1530	Date: Time:	Date: 08/23/17 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102266

AETL JOB No. 89104

Page 3 of 4

COMPANY: TETRA TECH
PROJECT MANAGER: Eric Nelson / Mady O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Service (WMS)
PROJECT #: T73479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C12) 8015M	TPHd (C15-C40) 8015	Title 22 metals 6010/7471	Moisture Percent	VOCs + oxygenates 8260B	SVOCS	PCBS 8082 Sampler				TEST INSTRUCTIONS & COMMENTS
TE-WMS-1-10.0		8-23-17	1055	S	5												TE Standard EDD VOCs + oxygenates and TPHg as 3-day TAT Rest normal TAT Blank = Hold
TE-WMS-2-0.5			1158	S	14		X	X	X	X							89104.31
TE-WMS-2-2.0			1203	S	5		X	X	X	X							MS / MSD 89104.32
TE-WMS-2-5.0			1209	S	5												89104.33
TE-WMS-2-10.0			1216	S	5												89104.34
TE-WMS-10-0.5			1220	S	5		X	X	X	X							89104.35
TE-WMS-10-2.0			1225	S	5		X	X	X	X							89104.36
TE-WMS-10-2.0D			~~1232~~ 1228	S	5		X	X	X	X							89104.37
TE-WMS-10-5.0			1232	S	5												89104.38
TE-WMS-10-10.0			1238	S	5												89104.39
TE-WMS-3-0.5			1251	S	5		X	X	X	X							89104.40
TE-WMS-3-2.0			1256	S	5		X	X	X	X							89104.41
TE-WMS-3-2.0D			1258	S	5		X	X	X	X							89104.42
TE-WMS-3-5.0			1302	S	5												89104.43
TE-WMS-3-10.0			1309	S	5												89104.44
																	89104.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	84	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Dargis P
Date: 8-23-17 Time: 1530	Date: Time:	Date: 8/23/17 Time: 1730

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Dargis P	Printed Name:	Printed Name: Antin
Date: 8/23/17 Time: 1530	Date: Time:	Date: 08/23/17 Time: 1730

TURN AROUND TIME

- [x] NORMAL
- [x] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [x] 3 DAYS

DATA DELIVERABLE REQUIRED

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- [ ] OTHER (PLEASE SPECIFY) _____

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CHAIN OF CUSTODY RECORD

102265

AETL JOB No. 89104

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Marlyn O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Service (WMS)
PROJECT #: T3479-17
SITE NAME AND ADDRESS:
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH (C4-C12) 8015M	TPH (C13-C40) 8015M	T/L/X 7 metals Cadmium 7471 moisture	Percent	VOCs + oxygenates 8260B	SVOCs	PCB 8082 Soxhlet				TEST INSTRUCTIONS & COMMENTS
9-0.5		8-23-17															Tt standard EDD
Tt-wms-9-0.5		1317	1317	S	5		X	X	X	X	X						VOC + oxygenates and
Tt-wms-9-2.0		8-23-17	1320	S	5		X	X	X	X	X						TPHgas - 3 day TAT
Tt-wms-9-20D		8-23-17	1323	S	5		X	X	X	X	X						Rest normal TAT
Tt-wms-9-5.0		↓	1329	S	5												Blank = hold
Tt-wms-9-10.0			1336	S	5												89104.46
EB0823017		↓	1400	W	7		X	X			X						89104.47
																	89104.48
																	89104.49
																	89104.50
																	89104.51

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	32	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☑ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Carmen P
Date: 8-23-17 Time: 530	Date: Time:	Date: 8/23/17 Time: 1730
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: Carmen P	Printed Name:	Printed Name: AETL
Date: 8/23/17 Time: 1530	Date: Time:	Date: 08/23/17 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102263

AETL JOB No. 89104

Page 1 of 4

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson Maclyn O'Donnell
COMPANY ADDRESS: 3475E Foothill Blvd
PHONE: 626-470 2405
FAX:
PROJECT NAME: Wilmington Marine Service (WMS)
PROJECT #: 73479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C12) 8015M	TPHg (C13-C40) 8015	Title 22 metals 6010 17471	MOISTURE percent	VOCs + oxygenates 8260B	SVOCs	PCBs 8082 Soxhlet				TEST INSTRUCTIONS & COMMENTS
TB08232017		8-23-17	0700	W	4		X				X						Tt standard BDD VOCs + oxygenates and TPHgas - 3 day TAT Rest normal TAT Blank = hold
Tt-WMS-36-0.5			0726	S	5		X	X	X	X	X	X	X				89104.01
Tt-WMS-36-2.0			0732	S	5		X	X	X	X	X	X	X				89104.02
Tt-WMS-36-2.0D			0736	S	5		X	X	X	X	X	X	X				89104.03
Tt-WMS-36-5.0			0740	S	5		X	X									89104.04
Tt-WMS-36-10.0			0745	S	5		X	X									89104.05
Tt-WMS-12-0.5			0750	S	5		X	X	X	X							89104.06
Tt-WMS-12-2.0			0801	S	14		X	X	X	X							89104.07
Tt-WMS-12-5.0			0808	S	5		X	X			X						MS/MSD 89104.08
Tt-WMS-12-10.0			0815	S	5		X	X									89104.09
Tt-WMS-37-0.5			0828	S	5		X	X	X	X		X					89104.10
Tt-WMS-37-2.0			0833	S	5		X	X	X	X	X	X	X				89104.11
Tt-WMS-37-5.0			0837	S	5		X	X					X				89104.12
Tt-WMS-37-10.0			0844	S	5		X	X									89104.13
Tt-WMS-13-0.50			0857	S	5		X	X	X	X							89104.14
																	89104.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	83	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☑ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Sargis P
Date: 8-23-17 Time: 1530	Date: Time:	Date: 8/23/14 Time: 1730
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sargis P	Printed Name:	Printed Name: Antin
Date: 8/23/17 Time: 1530	Date: Time:	Date: 08/23/17 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

From: ODonnell, Maclyn [Maclyn.O'Donnell@tetratech.com]
Sent: Thursday, August 24, 2017 5:50 PM
To: JIM LIN
Cc: Nelson, Eric J; Benfield, Heather
Subject: Samples to be run

Jim,

Could you please run the following samples for TPH gas and TPH by method 8015M.

Tt-WMS39-5.0
Tt-WMS39-10.0
Tt-WMS36-5.0
Tt-WMS36-10.0
Tt-WMS37-5.0
Tt-WMS37-10.0
Tt-WMS12-5.0
Tt-WMS12-10.0

Thank you

Maclyn O'Donnell | Project Engineer
Direct: 626.470.2405

Tetra Tech | Engineering Department
3475 E. Foothill Blvd. | Pasadena, CA 91107 | www.tetratech.com

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COOLER RECEIPT FORM

Client Name: TetraTech
Project Name:
AETL Job Number: 89104
Date Received: 08/24/17 Received by: Antin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (4) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: 3.3°C, No 3: 3.2°C NO4: 3.4
Type of sample containers: ☒ VOA, ☒ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): 51 x 5035 kites
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, ☒ MeOH
_ Other (Specify): $NaHSO_4H_2O$

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?		X	
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	X		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/23/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89104	08/23/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 51 samples with the following specification on 08/23/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89104.01	TB08232017	08/23/2017	Aqueous	4

Method ^ Submethod	Req Date	Priority	TAT	Units
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L

Continued

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/23/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89104	08/23/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89104.01	TB08232017	08/23/2017	Aqueous	4

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L

Continued

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Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/23/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89104	08/23/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89104.01	TB08232017	08/23/2017	Aqueous	4

Method ^ Submethod	Req Date	Priority	TAT	Units
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/30/2017	2	Normal	ug/L

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

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Site

Wilmington Marine Service

Page: 2

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/25/2017	08/23/2017	08/23/2017	08/23/2017	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			08/25/2017	08/25/2017	08/25/2017	08/25/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Acetone	25	50	ND	ND	ND	ND	
Benzene	1.0	10.0	ND	ND	1.20J	1.22J	
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND	ND	ND	
Bromochloromethane	5.0	10.0	ND	ND	ND	ND	
Bromodichloromethane	5.0	10.0	ND	ND	ND	ND	
Bromoform (Tribromomethane)	25	50	ND	ND	ND	ND	
Bromomethane (Methyl bromide)	15	30	ND	ND	ND	ND	
2-Butanone (MEK)	25	50	ND	ND	ND	ND	
n-Butylbenzene	5.0	10.0	ND	ND	ND	ND	
sec-Butylbenzene	5.0	10.0	ND	ND	ND	ND	
tert-Butylbenzene	5.0	10.0	ND	ND	ND	ND	
Carbon Disulfide	25	50	ND	ND	ND	ND	
Carbon tetrachloride	5.0	10.0	ND	ND	ND	ND	
Chlorobenzene	5.0	10.0	ND	ND	ND	ND	
Chloroethane	15	30	ND	ND	ND	ND	
2-Chloroethyl vinyl ether	50	50	ND	ND	ND	ND	
Chloroform (Trichloromethane)	5.0	10.0	ND	ND	ND	ND	
Chloromethane (Methyl chloride)	15	30	ND	ND	ND	ND	
2-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	
4-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND	ND	ND	
Dibromochloromethane	5.0	10.0	ND	ND	ND	ND	
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND	ND	ND	
Dibromomethane	5.0	10.0	ND	ND	ND	ND	
1,2-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,3-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,4-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/25/2017	08/23/2017	08/23/2017	08/23/2017	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			08/25/2017	08/25/2017	08/25/2017	08/25/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Dichlorodifluoromethane	15	30	ND	ND	ND	ND	
1,1-Dichloroethane	5.0	10.0	ND	ND	ND	ND	
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND	ND	ND	
1,1-Dichloroethene	5.0	10.0	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	
1,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	
1,3-Dichloropropane	5.0	10.0	ND	ND	ND	ND	
2,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	
1,1-Dichloropropene	5.0	10.0	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	
trans-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	
Ethylbenzene	1.0	10.0	ND	ND	ND	ND	
Hexachlorobutadiene	15	30	ND	ND	ND	ND	
2-Hexanone	25	50	ND	ND	ND	ND	
Isopropylbenzene	5.0	10.0	ND	ND	ND	ND	
p-Isopropyltoluene	5.0	10.0	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND	ND	ND	
Methylene chloride (DCM)	25	50	ND	ND	ND	ND	
Naphthalene	5.0	10.0	ND	ND	ND	ND	
n-Propylbenzene	5.0	10.0	ND	ND	ND	ND	
Styrene	5.0	10.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	
Tetrachloroethene	2.0	10.0	ND	ND	ND	ND	
Toluene (Methyl benzene)	1.0	10.0	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,1,1-Trichloroethane	5.0	10.0	ND	ND	ND	ND	
1,1,2-Trichloroethane	5.0	10.0	ND	ND	ND	ND	
Trichloroethene	1.5	10.0	ND	ND	ND	ND	
Trichlorofluoromethane	5.0	10.0	ND	ND	ND	ND	
1,2,3-Trichloropropane	5.0	10.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			Method Blank	**89104.02**	**89104.03**	**89104.04**	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/25/2017	08/23/2017	08/23/2017	08/23/2017	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			08/25/2017	08/25/2017	08/25/2017	08/25/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	
Vinyl Acetate	25	50	ND	ND	ND	ND	
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND	ND	ND	
o-Xylene	1.0	10.0	ND	ND	ND	ND	
m,p-Xylenes	1.0	20.0	ND	ND	ND	ND	
tert-Butyl alcohol (TBA)	20	500	ND	ND	ND	ND	
Diisopropyl ether (DIPE)	2.0	10.0	ND	ND	ND	ND	
Ethyl alcohol (Ethanol)	100	500	ND	ND	ND	ND	
Ethyl-tert-butyl ether (ETBE)	2.0	10.0	ND	ND	ND	ND	
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND	ND	ND	
tert-Amyl methyl ether (TAME)	2.0	10.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	**89104.02**	**89104.03**	**89104.04**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		83.0	84.1	76.8	77.7	
Dibromofluoromethane	75-125		107	115	117	116	
Toluene-d8	75-125		101	99.5	102	104	

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ANALYTICAL RESULTS

Ordered By

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3475 East Foothill Boulevard
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Site

Wilmington Marine Service

Page: 5

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			89104.09				
Client Sample I.D.			Tt-WMS12-5.0				
Date Sampled			08/23/2017				
Date Prepared			08/26/2017				
Preparation Method			5030				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			34				
Analytes	**MDL**	**PQL**	**Results**				
Acetone	850	1700	ND				
Benzene	34	340	ND				
Bromobenzene (Phenyl bromide)	170	340	ND				
Bromochloromethane	170	340	ND				
Bromodichloromethane	170	340	ND				
Bromoform (Tribromomethane)	850	1700	ND				
Bromomethane (Methyl bromide)	510	1020	ND				
2-Butanone (MEK)	850	1700	ND				
n-Butylbenzene	170	340	ND				
sec-Butylbenzene	170	340	4,490				
tert-Butylbenzene	170	340	357				
Carbon Disulfide	850	1700	ND				
Carbon tetrachloride	170	340	ND				
Chlorobenzene	170	340	ND				
Chloroethane	510	1020	ND				
2-Chloroethyl vinyl ether	1700	1700	ND				
Chloroform (Trichloromethane)	170	340	ND				
Chloromethane (Methyl chloride)	510	1020	ND				
2-Chlorotoluene	170	340	ND				
4-Chlorotoluene	170	340	ND				
1,2-Dibromo-3-chloropropane (DBCP)	850	1700	ND				
Dibromochloromethane	170	340	ND				
1,2-Dibromoethane (EDB)	170	340	ND				
Dibromomethane	170	340	ND				
1,2-Dichlorobenzene	170	340	ND				
1,3-Dichlorobenzene	170	340	ND				
1,4-Dichlorobenzene	170	340	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			89104.09				
Client Sample I.D.			Tt-WMS12-5.0				
Date Sampled			08/23/2017				
Date Prepared			08/26/2017				
Preparation Method			5030				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			34				
Analytes	**MDL**	**PQL**	**Results**				
Dichlorodifluoromethane	510	1020	ND				
1,1-Dichloroethane	170	340	ND				
1,2-Dichloroethane (EDC)	170	340	ND				
1,1-Dichloroethene	170	340	ND				
cis-1,2-Dichloroethene	170	340	ND				
trans-1,2-Dichloroethene	170	340	ND				
1,2-Dichloropropane	170	340	ND				
1,3-Dichloropropane	170	340	ND				
2,2-Dichloropropane	170	340	ND				
1,1-Dichloropropene	170	340	ND				
cis-1,3-Dichloropropene	170	340	ND				
trans-1,3-Dichloropropene	170	340	ND				
Ethylbenzene	34	340	ND				
Hexachlorobutadiene	510	1020	ND				
2-Hexanone	850	1700	ND				
Isopropylbenzene	170	340	4,110				
p-Isopropyltoluene	170	340	ND				
4-Methyl-2-pentanone (MIBK)	850	1700	ND				
Methylene chloride (DCM)	850	1700	ND				
Naphthalene	170	340	5,810				
n-Propylbenzene	170	340	ND				
Styrene	170	340	ND				
1,1,1,2-Tetrachloroethane	170	340	ND				
1,1,2,2-Tetrachloroethane	170	340	ND				
Tetrachloroethene	68	340	ND				
Toluene (Methyl benzene)	34	340	ND				
1,2,3-Trichlorobenzene	170	340	ND				
1,2,4-Trichlorobenzene	170	340	ND				
1,1,1-Trichloroethane	170	340	ND				
1,1,2-Trichloroethane	170	340	ND				
Trichloroethene	51	340	ND				
Trichlorofluoromethane	170	340	ND				
1,2,3-Trichloropropane	170	340	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			**89104.09**				
Client Sample I.D.			Tt-WMS12-5.0				
Date Sampled			08/23/2017				
Date Prepared			08/26/2017				
Preparation Method			5030				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			34				
Analytes	**MDL**	**PQL**	**Results**				
1,2,4-Trimethylbenzene	170	340	ND				
1,3,5-Trimethylbenzene	170	340	ND				
Vinyl Acetate	850	1700	ND				
Vinyl chloride (Chloroethene)	170	340	ND				
o-Xylene	34	340	ND				
m,p-Xylenes	34	680	ND				
tert-Butyl alcohol (TBA)	680	17000	ND				
Diisopropyl ether (DIPE)	68	340	ND				
Ethyl alcohol (Ethanol)	3400	17000	ND				
Ethyl-tert-butyl ether (ETBE)	68	340	ND				
Methyl-tert-butyl ether (MTBE)	68	340	ND				
tert-Amyl methyl ether (TAME)	68	340	ND				
Our Lab I.D.			**89104.09**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		91.6				
Dibromofluoromethane	75-125		111				
Toluene-d8	75-125		107				

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ANALYTICAL RESULTS

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Wilmington Marine Service

Page: 8

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			89104.12				
Client Sample I.D.			Tt-WMS37-2.0				
Date Sampled			08/23/2017				
Date Prepared			08/23/2017				
Preparation Method			5035A				
Date Analyzed			08/25/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Acetone	25	50	ND				
Benzene	1.0	10.0	ND				
Bromobenzene (Phenyl bromide)	5.0	10.0	ND				
Bromochloromethane	5.0	10.0	ND				
Bromodichloromethane	5.0	10.0	ND				
Bromoform (Tribromomethane)	25	50	ND				
Bromomethane (Methyl bromide)	15	30	ND				
2-Butanone (MEK)	25	50	ND				
n-Butylbenzene	5.0	10.0	ND				
sec-Butylbenzene	5.0	10.0	ND				
tert-Butylbenzene	5.0	10.0	ND				
Carbon Disulfide	25	50	ND				
Carbon tetrachloride	5.0	10.0	ND				
Chlorobenzene	5.0	10.0	ND				
Chloroethane	15	30	ND				
2-Chloroethyl vinyl ether	50	50	ND				
Chloroform (Trichloromethane)	5.0	10.0	ND				
Chloromethane (Methyl chloride)	15	30	ND				
2-Chlorotoluene	5.0	10.0	ND				
4-Chlorotoluene	5.0	10.0	ND				
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND				
Dibromochloromethane	5.0	10.0	ND				
1,2-Dibromoethane (EDB)	5.0	10.0	ND				
Dibromomethane	5.0	10.0	ND				
1,2-Dichlorobenzene	5.0	10.0	ND				
1,3-Dichlorobenzene	5.0	10.0	ND				
1,4-Dichlorobenzene	5.0	10.0	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			89104.12				
Client Sample I.D.			Tt-WMS37-2.0				
Date Sampled			08/23/2017				
Date Prepared			08/23/2017				
Preparation Method			5035A				
Date Analyzed			08/25/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Dichlorodifluoromethane	15	30	ND				
1,1-Dichloroethane	5.0	10.0	ND				
1,2-Dichloroethane (EDC)	5.0	10.0	ND				
1,1-Dichloroethene	5.0	10.0	ND				
cis-1,2-Dichloroethene	5.0	10.0	ND				
trans-1,2-Dichloroethene	5.0	10.0	ND				
1,2-Dichloropropane	5.0	10.0	ND				
1,3-Dichloropropane	5.0	10.0	ND				
2,2-Dichloropropane	5.0	10.0	ND				
1,1-Dichloropropene	5.0	10.0	ND				
cis-1,3-Dichloropropene	5.0	10.0	ND				
trans-1,3-Dichloropropene	5.0	10.0	ND				
Ethylbenzene	1.0	10.0	ND				
Hexachlorobutadiene	15	30	ND				
2-Hexanone	25	50	ND				
Isopropylbenzene	5.0	10.0	ND				
p-Isopropyltoluene	5.0	10.0	ND				
4-Methyl-2-pentanone (MIBK)	25	50	ND				
Methylene chloride (DCM)	25	50	ND				
Naphthalene	5.0	10.0	ND				
n-Propylbenzene	5.0	10.0	ND				
Styrene	5.0	10.0	ND				
1,1,1,2-Tetrachloroethane	5.0	10.0	ND				
1,1,2,2-Tetrachloroethane	5.0	10.0	ND				
Tetrachloroethene	2.0	10.0	ND				
Toluene (Methyl benzene)	1.0	10.0	ND				
1,2,3-Trichlorobenzene	5.0	10.0	ND				
1,2,4-Trichlorobenzene	5.0	10.0	ND				
1,1,1-Trichloroethane	5.0	10.0	ND				
1,1,2-Trichloroethane	5.0	10.0	ND				
Trichloroethene	1.5	10.0	ND				
Trichlorofluoromethane	5.0	10.0	ND				
1,2,3-Trichloropropane	5.0	10.0	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			**89104.12**				
Client Sample I.D.			Tt-WMS37-2.0				
Date Sampled			08/23/2017				
Date Prepared			08/23/2017				
Preparation Method			5035A				
Date Analyzed			08/25/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
1,2,4-Trimethylbenzene	5.0	10.0	ND				
1,3,5-Trimethylbenzene	5.0	10.0	ND				
Vinyl Acetate	25	50	ND				
Vinyl chloride (Chloroethene)	5.0	10.0	ND				
o-Xylene	1.0	10.0	ND				
m,p-Xylenes	1.0	20.0	ND				
tert-Butyl alcohol (TBA)	20	500	ND				
Diisopropyl ether (DIPE)	2.0	10.0	ND				
Ethyl alcohol (Ethanol)	100	500	ND				
Ethyl-tert-butyl ether (ETBE)	2.0	10.0	ND				
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND				
tert-Amyl methyl ether (TAME)	2.0	10.0	ND				
Our Lab I.D.			**89104.12**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		88.5				
Dibromofluoromethane	75-125		116				
Toluene-d8	75-125		106				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB1

Our Lab I.D.			Method Blank	**89104.02**	**89104.03**	**89104.04**	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/25/2017	08/23/2017	08/23/2017	08/23/2017	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			08/25/2017	08/25/2017	08/25/2017	08/25/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	0.599J	1.14	0.710J	
Our Lab I.D.			Method Blank	**89104.02**	**89104.03**	**89104.04**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		106	102	100	103	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/29/2017				
Preparation Method			5030				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		109				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1

Our Lab I.D.			**89104.05**				
Client Sample I.D.			Tt-WMS36-5.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			5030				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			83				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	8	83	313				
Our Lab I.D.			**89104.05**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		109				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1

Our Lab I.D.			**89104.06**				
Client Sample I.D.			Tt-WMS36-1 0.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			5030				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			265				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	26	265	1,300				
Our Lab I.D.			**89104.06**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		95.8				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB1

Our Lab I.D.			**89104.07**	**89104.08**			
Client Sample I.D.			Tt-WMS12-0.5	Tt-WMS12-2.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/23/2017	08/23/2017			
Preparation Method			5035A	5035A			
Date Analyzed			08/25/2017	08/26/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND			
Our Lab I.D.			**89104.07**	**89104.08**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		110	112			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1

Our Lab I.D.			**89104.09**				
Client Sample I.D.			Tt-WMS12-5.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			5030				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			180				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	18	180	587				
Our Lab I.D.			**89104.09**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		94.4				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1

Our Lab I.D.			**89104.10**				
Client Sample I.D.			Tt-WMS12-1 0.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			5030				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.500	5	8.35				
Our Lab I.D.			**89104.10**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		100				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB1

Our Lab I.D.			**89104.11**	**89104.12**			
Client Sample I.D.			Tt-WMS37-0.5	Tt-WMS37-2.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/23/2017	08/23/2017			
Preparation Method			5035A	5035A			
Date Analyzed			08/26/2017	08/26/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	0.878J			
Our Lab I.D.			**89104.11**	**89104.12**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		108	111			

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017OB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/30/2017				
Preparation Method			5030				
Date Analyzed			08/30/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		110				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017OB1

Our Lab I.D.			**89104.13**				
Client Sample I.D.			Tt-WMS37-5.0				
Date Sampled			08/23/2017				
Date Prepared			08/30/2017				
Preparation Method			5030				
Date Analyzed			08/30/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1000				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	100	1000	1,850				
Our Lab I.D.			**89104.13**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		104				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1

Our Lab I.D.			**89104.14**				
Client Sample I.D.			Tt-WMS37-1 0.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			5030				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.500	5	8.39				
Our Lab I.D.			**89104.14**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		97.4				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB1

Our Lab I.D.			89104.15	89104.16	89104.17	89104.20	89104.21
Client Sample I.D.			Tt-WMS13-0.5	Tt-WMS13-2.0	Tt-WMS13-2.0D	Tt-WMS14-0.5	Tt-WMS14-2.0
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			08/26/2017	08/26/2017	08/26/2017	08/26/2017	08/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	1.29	1.52	ND	ND
Our Lab I.D.			**89104.15**	**89104.16**	**89104.17**	**89104.20**	**89104.21**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		110	93.6	110	113	114

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB1

Our Lab I.D.			**89104.24**				
Client Sample I.D.			Tt-WMS11-0.5				
Date Sampled			08/23/2017				
Date Prepared			08/23/2017				
Preparation Method			5035A				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND				
Our Lab I.D.			**89104.24**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		112				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB2

Our Lab I.D.			Method Blank	**89104.25**	**89104.28**	**89104.29**	**89104.32**
Client Sample I.D.				Tt-WMS11-3.0	Tt-WMS1-0.5	Tt-WMS1-2.0	Tt-WMS2-0.5
Date Sampled				08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			08/26/2017	08/26/2017	08/26/2017	08/26/2017	08/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**89104.25**	**89104.28**	**89104.29**	**89104.32**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		113	115	111	108	113

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB2

Our Lab I.D.			89104.33	89104.36	89104.37	89104.38	89104.41
Client Sample I.D.			Tt-WMS2-2.0	Tt-WMS10-0.5	Tt-WMS10-2.0	Tt-WMS10-2.0D	Tt-WMS3-0.5
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			08/26/2017	08/26/2017	08/26/2017	08/26/2017	08/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			**89104.33**	**89104.36**	**89104.37**	**89104.38**	**89104.41**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		110	113	114	115	111

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB2

Our Lab I.D.			89104.42	89104.43	89104.46	89104.47	89104.48
Client Sample I.D.			Tt-WMS3-2.0	Tt-WMS3-2.0 D	Tt-WMS9-0.5	Tt-WMS9-2.0	Tt-WMS9-2.0 D
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			08/26/2017	08/26/2017	08/26/2017	08/26/2017	08/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			**89104.42**	**89104.43**	**89104.46**	**89104.47**	**89104.48**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		109	114	115	110	113

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB1

Our Lab I.D.			Method Blank	**89104.02**	**89104.03**	**89104.04**	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/28/2017	08/28/2017	08/28/2017	08/28/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Diesel (C13-C22)	1.0	5.0	ND	16.7	ND	ND	
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	56.7	ND	ND	
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	73.4	ND	ND	
Our Lab I.D.			Method Blank	**89104.02**	**89104.03**	**89104.04**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Chlorobenzene	75-125		117	98.7	98.4	77.3	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1

Our Lab I.D.			Method Blank	**89104.05**	**89104.06**		
Client Sample I.D.				Tt-WMS36-5.0	Tt-WMS36-10.0		
Date Sampled				08/23/2017	08/23/2017		
Date Prepared			08/29/2017	08/29/2017	08/29/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			08/29/2017	08/29/2017	08/29/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Diesel (C13-C22)	1.0	5.0	ND	197	2,370		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	197	2,370		
Our Lab I.D.			Method Blank	**89104.05**	**89104.06**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Chlorobenzene	75-125		98.2	100	95.2		

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB1

Our Lab I.D.			**89104.07**	**89104.08**			
Client Sample I.D.			Tt-WMS12-0.5	Tt-WMS12-2.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/28/2017	08/28/2017			
Preparation Method			3550B	3550B			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	143	ND			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	143	ND			
Our Lab I.D.			**89104.07**	**89104.08**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		108	105			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1

Our Lab I.D.			**89104.09**	**89104.10**			
Client Sample I.D.			Tt-WMS12-5.0	Tt-WMS12-10.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			3550B	3550B			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	240	79.6			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	240	79.6			
Our Lab I.D.			**89104.09**	**89104.10**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		102	99.7			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB1

Our Lab I.D.			**89104.11**	**89104.12**			
Client Sample I.D.			Tt-WMS37-0.5	Tt-WMS37-2.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/28/2017	08/28/2017			
Preparation Method			3550B	3550B			
Date Analyzed			08/28/2017	08/28/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	66.0	ND			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	815	ND			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	881	ND			
Our Lab I.D.			**89104.11**	**89104.12**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		111	104			

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1

Our Lab I.D.			**89104.13**	**89104.14**			
Client Sample I.D.			Tt-WMS37-5.0	Tt-WMS37-10.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			3550B	3550B			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	333	3.10J			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	333	3.10J			
Our Lab I.D.			**89104.13**	**89104.14**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		125	100			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB1

Our Lab I.D.			89104.15	89104.16	89104.17	89104.20	89104.21
Client Sample I.D.			Tt-WMS13-0.5	Tt-WMS13-2.0	Tt-WMS13-2.0D	Tt-WMS14-0.5	Tt-WMS14-2.0
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89104.15**	**89104.16**	**89104.17**	**89104.20**	**89104.21**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		110	112	108	110	111

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB1

Our Lab I.D.			89104.24	89104.25	89104.28	89104.29	
Client Sample I.D.			Tt-WMS11-0.5	Tt-WMS11-3.0	Tt-WMS1-0.5	Tt-WMS1-2.0	
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/28/2017	08/28/2017	08/29/2017	08/29/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	37.8	ND	
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	403	ND	
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	441	ND	
Our Lab I.D.			**89104.24**	**89104.25**	**89104.28**	**89104.29**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Chlorobenzene	75-125		111	109	119	113	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB2

Our Lab I.D.			Method Blank	**89104.32**	**89104.33**	**89104.36**	**89104.37**
Client Sample I.D.				Tt-WMS2-0.5	Tt-WMS2-2.0	Tt-WMS10-0.5	Tt-WMS10-2.0
Date Sampled				08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	41.7	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	41.7	ND
Our Lab I.D.			Method Blank	**89104.32**	**89104.33**	**89104.36**	**89104.37**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		123	105	113	110	107

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Site

Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB2

Our Lab I.D.			89104.38	89104.41	89104.42	89104.43	89104.46
Client Sample I.D.			Tt-WMS10-2.0D	Tt-WMS3-0.5	Tt-WMS3-2.0	Tt-WMS3-2.0D	Tt-WMS9-0.5
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89104.38**	**89104.41**	**89104.42**	**89104.43**	**89104.46**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		104	78.9	96.2	115	81.9

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB2

Our Lab I.D.			**89104.47**	**89104.48**			
Client Sample I.D.			Tt-WMS9-2.0	Tt-WMS9-2.0 D			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/28/2017	08/28/2017			
Preparation Method			3550B	3550B			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND			
Our Lab I.D.			**89104.47**	**89104.48**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		91.4	103			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082517-4

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	89104.12
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	Tt-WMS37-2.0
Date Sampled				08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	89104.12
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		81.2	64.9	55.6	64.0	56.8
Tetrachloro-m-xylene	30-150		58.4	54.6	51.8	50.0	55.0

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082517-4

Our Lab I.D.			89104.13	89104.18			
Client Sample I.D.			Tt-WMS37-5.0	Tt-WMS13-5.0			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/28/2017	08/28/2017			
Preparation Method			3540C	3540C			
Date Analyzed			08/28/2017	08/28/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND			
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND			
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND			
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND			
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND			
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND			
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND			
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND			
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND			
Our Lab I.D.			**89104.13**	**89104.18**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		86.0	80.0			
Tetrachloro-m-xylene	30-150		106	79.5			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Acenaphthene	0.25	0.50	ND	ND	ND	ND	
Acenaphthylene	0.25	0.50	ND	ND	ND	ND	
Anthracene	0.25	0.50	ND	ND	ND	ND	
Azobenzene	0.25	0.50	ND	ND	ND	ND	
Benzidine	0.25	0.50	ND	ND	ND	ND	
Benzo(a)anthracene	0.25	0.50	ND	ND	ND	ND	
Benzo(a)pyrene	0.25	0.50	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.25	0.50	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.25	0.50	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.25	0.50	ND	ND	ND	ND	
Benzoic Acid	0.25	0.50	ND	ND	ND	ND	
Benzyl Alcohol	0.25	0.50	ND	ND	ND	ND	
Bis(2-Chloroethoxy)methane	0.25	0.50	ND	ND	ND	ND	
Bis(2-Chloroethyl)ether	0.25	0.50	ND	ND	ND	ND	
Bis(2-chloroisopropyl) ether	0.25	0.50	ND	ND	ND	ND	
Bis(2-ethylhexyl) phthalate	0.25	0.50	ND	ND	ND	ND	
4-Bromophenyl phenyl ether	0.25	0.50	ND	ND	ND	ND	
Butyl benzyl phthalate	0.25	0.50	ND	ND	ND	ND	
4-Chloro-3-methylphenol	0.25	0.50	ND	ND	ND	ND	
4-Chloroaniline	0.25	0.50	ND	ND	ND	ND	
2-Chloronaphthalene	0.25	0.50	ND	ND	ND	ND	
2-Chlorophenol	0.25	0.50	ND	ND	ND	ND	
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND	ND	ND	
Chrysene	0.25	0.50	ND	ND	ND	ND	
Di-n-butyl phthalate	0.25	0.50	ND	ND	ND	ND	
Di-n-octyl phthalate (Dioctyl ester)	0.25	0.50	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.25	0.50	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Dibenzofuran	0.25	0.50	ND	ND	ND	ND	
1,2-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND	
1,3-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND	
1,4-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND	
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND	ND	ND	
2,4-Dichlorophenol	0.25	0.50	ND	ND	ND	ND	
Diethyl phthalate (Diethyl ester)	0.25	0.50	ND	ND	ND	ND	
Dimethyl phthalate (Dimethyl ester)	0.25	0.50	ND	ND	ND	ND	
2,4-Dimethylphenol	0.25	0.50	ND	ND	ND	ND	
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND	ND	ND	
2,4-Dinitrophenol	0.25	0.50	ND	ND	ND	ND	
2,4-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND	
2,6-Dinitrotoluene (2,6-DNT)	0.25	0.50	ND	ND	ND	ND	
Fluoranthene	0.25	0.50	ND	ND	ND	ND	
Fluorene	0.25	0.50	ND	ND	ND	ND	
Hexachlorobenzene	0.25	0.50	ND	ND	ND	ND	
Hexachlorobutadiene	0.25	0.50	ND	ND	ND	ND	
Hexachlorocyclopentadiene	0.25	0.50	ND	ND	ND	ND	
Hexachloroethane	0.25	0.50	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND	ND	ND	
Isophorone	0.25	0.50	ND	ND	ND	ND	
2-Methylnaphthalene	0.25	0.50	ND	ND	ND	ND	
4-Methylphenol	0.25	0.50	ND	ND	ND	ND	
2-Methylphenol (2-Cresol)	0.25	0.50	ND	ND	ND	ND	
3-Methylphenol (3-Cresol)	0.25	0.50	ND	ND	ND	ND	
N-Nitroso-Di-n-propylamine	0.25	0.50	ND	ND	ND	ND	
Naphthalene	0.25	0.50	ND	ND	ND	ND	
2-Nitroaniline	0.25	0.50	ND	ND	ND	ND	
3-Nitroaniline	0.25	0.50	ND	ND	ND	ND	
4-Nitroaniline	0.25	0.50	ND	ND	ND	ND	
Nitrobenzene (NB)	0.25	0.50	ND	ND	ND	ND	
4-Nitrophenol	0.25	0.50	ND	ND	ND	ND	
2-Nitrophenol (o-Nitrophenol)	0.25	0.50	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	
Date Sampled				08/23/2017	08/23/2017	08/23/2017	
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
N-nitrosodiphenylamine	0.25	0.50	ND	ND	ND	ND	
Pentachlorophenol	0.25	0.50	ND	ND	ND	ND	
Phenanthrene	0.25	0.50	ND	ND	ND	ND	
Phenol	0.25	0.50	ND	ND	ND	ND	
Pyrene	0.25	0.50	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND	ND	ND	
2,4,5-Trichlorophenol	0.25	0.50	ND	ND	ND	ND	
2,4,6-Trichlorophenol	0.25	0.50	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
2-Fluorophenol	25-121		68.5	58.9	43.2	40.0	
2-Fluorobiphenyl	30-115		86.1	78.2	60.4	50.0	
Nitrobenzene-d5	23-120		70.1	65.0	50.3	40.4	
Phenol-d6	21-113		67.5	59.0	43.8	39.0	
p-Terphenyl-D14	18-137		138	85.2	96.6	40.9	
2,4,6-Tribromophenol	19-122		81.9	121	59.2	48.5	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			89104.11				
Client Sample I.D.			Tt-WMS37-0.5				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Acenaphthene	5	10	ND				
Acenaphthylene	5	10	ND				
Anthracene	5	10	ND				
Azobenzene	5	10	ND				
Benzidine	5	10	ND				
Benzo(a)anthracene	5	10	ND				
Benzo(a)pyrene	5	10	ND				
Benzo(b)fluoranthene	5	10	ND				
Benzo(g,h,i)perylene	5	10	ND				
Benzo(k)fluoranthene	5	10	ND				
Benzoic Acid	5	10	ND				
Benzyl Alcohol	5	10	ND				
Bis(2-Chloroethoxy)methane	5	10	ND				
Bis(2-Chloroethyl)ether	5	10	ND				
Bis(2-chloroisopropyl) ether	5	10	ND				
Bis(2-ethylhexyl) phthalate	5	10	ND				
4-Bromophenyl phenyl ether	5	10	ND				
Butyl benzyl phthalate	5	10	ND				
4-Chloro-3-methylphenol	5	10	ND				
4-Chloroaniline	5	10	ND				
2-Chloronaphthalene	5	10	ND				
2-Chlorophenol	5	10	ND				
4-Chlorophenyl phenyl ether	5	10	ND				
Chrysene	5	10	ND				
Di-n-butyl phthalate	5	10	ND				
Di-n-octyl phthalate (Dioctyl ester)	5	10	ND				
Dibenzo(a,h)anthracene	5	10	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			89104.11				
Client Sample I.D.			Tt-WMS37-0.5				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Dibenzofuran	5	10	ND				
1,2-Dichlorobenzene	5	10	ND				
1,3-Dichlorobenzene	5	10	ND				
1,4-Dichlorobenzene	5	10	ND				
3,3'-Dichlorobenzidine	5	10	ND				
2,4-Dichlorophenol	5	10	ND				
Diethyl phthalate (Diethyl ester)	5	10	ND				
Dimethyl phthalate (Dimethyl ester)	5	10	ND				
2,4-Dimethylphenol	5	10	ND				
4,6-Dinitro-2-methylphenol	5	10	ND				
2,4-Dinitrophenol	5	10	ND				
2,4-Dinitrotoluene	5	10	ND				
2,6-Dinitrotoluene (2,6-DNT)	5	10	ND				
Fluoranthene	5	10	ND				
Fluorene	5	10	ND				
Hexachlorobenzene	5	10	ND				
Hexachlorobutadiene	5	10	ND				
Hexachlorocyclopentadiene	5	10	ND				
Hexachloroethane	5	10	ND				
Indeno(1,2,3-cd)pyrene	5	10	ND				
Isophorone	5	10	ND				
2-Methylnaphthalene	5	10	ND				
4-Methylphenol	5	10	ND				
2-Methylphenol (2-Cresol)	5	10	ND				
3-Methylphenol (3-Cresol)	5	10	ND				
N-Nitroso-Di-n-propylamine	5	10	ND				
Naphthalene	5	10	ND				
2-Nitroaniline	5	10	ND				
3-Nitroaniline	5	10	ND				
4-Nitroaniline	5	10	ND				
Nitrobenzene (NB)	5	10	ND				
4-Nitrophenol	5	10	ND				
2-Nitrophenol (o-Nitrophenol)	5	10	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			89104.11				
Client Sample I.D.			Tt-WMS37-0.5				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
N-nitrosodiphenylamine	5	10	ND				
Pentachlorophenol	5	10	ND				
Phenanthrene	5	10	ND				
Phenol	5	10	ND				
Pyrene	5	10	ND				
1,2,4-Trichlorobenzene	5	10	ND				
2,4,5-Trichlorophenol	5	10	ND				
2,4,6-Trichlorophenol	5	10	ND				

Comment(s):
89104.11: Analyzed under dilution due to matrix interference

Our Lab I.D.			89104.11				
Surrogates	**%Rec.Limit**		**% Rec.**				
2-Fluorophenol	25-121		65.8				
2-Fluorobiphenyl	30-115		80.0				
Nitrobenzene-d5	23-120		68.8				
Phenol-d6	21-113		52.8				
p-Terphenyl-D14	18-137		112				
2,4,6-Tribromophenol	19-122		64.0				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			89104.12				
Client Sample I.D.			Tt-WMS37-2.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Acenaphthene	0.25	0.50	ND				
Acenaphthylene	0.25	0.50	ND				
Anthracene	0.25	0.50	ND				
Azobenzene	0.25	0.50	ND				
Benzidine	0.25	0.50	ND				
Benzo(a)anthracene	0.25	0.50	ND				
Benzo(a)pyrene	0.25	0.50	ND				
Benzo(b)fluoranthene	0.25	0.50	ND				
Benzo(g,h,i)perylene	0.25	0.50	ND				
Benzo(k)fluoranthene	0.25	0.50	ND				
Benzoic Acid	0.25	0.50	ND				
Benzyl Alcohol	0.25	0.50	ND				
Bis(2-Chloroethoxy)methane	0.25	0.50	ND				
Bis(2-Chloroethyl)ether	0.25	0.50	ND				
Bis(2-chloroisopropyl) ether	0.25	0.50	ND				
Bis(2-ethylhexyl) phthalate	0.25	0.50	ND				
4-Bromophenyl phenyl ether	0.25	0.50	ND				
Butyl benzyl phthalate	0.25	0.50	ND				
4-Chloro-3-methylphenol	0.25	0.50	ND				
4-Chloroaniline	0.25	0.50	ND				
2-Chloronaphthalene	0.25	0.50	ND				
2-Chlorophenol	0.25	0.50	ND				
4-Chlorophenyl phenyl ether	0.25	0.50	ND				
Chrysene	0.25	0.50	ND				
Di-n-butyl phthalate	0.25	0.50	ND				
Di-n-octyl phthalate (Dioctyl ester)	0.25	0.50	ND				
Dibenzo(a,h)anthracene	0.25	0.50	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			89104.12				
Client Sample I.D.			Tt-WMS37-2.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Dibenzofuran	0.25	0.50	ND				
1,2-Dichlorobenzene	0.25	0.50	ND				
1,3-Dichlorobenzene	0.25	0.50	ND				
1,4-Dichlorobenzene	0.25	0.50	ND				
3,3'-Dichlorobenzidine	0.25	0.50	ND				
2,4-Dichlorophenol	0.25	0.50	ND				
Diethyl phthalate (Diethyl ester)	0.25	0.50	ND				
Dimethyl phthalate (Dimethyl ester)	0.25	0.50	ND				
2,4-Dimethylphenol	0.25	0.50	ND				
4,6-Dinitro-2-methylphenol	0.25	0.50	ND				
2,4-Dinitrophenol	0.25	0.50	ND				
2,4-Dinitrotoluene	0.25	0.50	ND				
2,6-Dinitrotoluene (2,6-DNT)	0.25	0.50	ND				
Fluoranthene	0.25	0.50	ND				
Fluorene	0.25	0.50	ND				
Hexachlorobenzene	0.25	0.50	ND				
Hexachlorobutadiene	0.25	0.50	ND				
Hexachlorocyclopentadiene	0.25	0.50	ND				
Hexachloroethane	0.25	0.50	ND				
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND				
Isophorone	0.25	0.50	ND				
2-Methylnaphthalene	0.25	0.50	ND				
4-Methylphenol	0.25	0.50	ND				
2-Methylphenol (2-Cresol)	0.25	0.50	ND				
3-Methylphenol (3-Cresol)	0.25	0.50	ND				
N-Nitroso-Di-n-propylamine	0.25	0.50	ND				
Naphthalene	0.25	0.50	ND				
2-Nitroaniline	0.25	0.50	ND				
3-Nitroaniline	0.25	0.50	ND				
4-Nitroaniline	0.25	0.50	ND				
Nitrobenzene (NB)	0.25	0.50	ND				
4-Nitrophenol	0.25	0.50	ND				
2-Nitrophenol (o-Nitrophenol)	0.25	0.50	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917

Our Lab I.D.			89104.12				
Client Sample I.D.			Tt-WMS37-2.0				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
N-nitrosodiphenylamine	0.25	0.50	ND				
Pentachlorophenol	0.25	0.50	ND				
Phenanthrene	0.25	0.50	ND				
Phenol	0.25	0.50	ND				
Pyrene	0.25	0.50	ND				
1,2,4-Trichlorobenzene	0.25	0.50	ND				
2,4,5-Trichlorophenol	0.25	0.50	ND				
2,4,6-Trichlorophenol	0.25	0.50	ND				
Our Lab I.D.			**89104.12**				
Surrogates	**%Rec.Limit**		**% Rec.**				
2-Fluorophenol	25-121		46.0				
2-Fluorobiphenyl	30-115		58.3				
Nitrobenzene-d5	23-120		48.3				
Phenol-d6	21-113		44.2				
p-Terphenyl-D14	18-137		90.6				
2,4,6-Tribromophenol	19-122		55.8				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C4

Our Lab I.D.			Method Blank	89104.02	89104.03	89104.04	89104.07
Client Sample I.D.				Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	Tt-WMS12-0.5
Date Sampled				08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	11.1
Barium	2.5	5.0	ND	38.2	93.8	74.3	248
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	9.56	15.4	12.3	15.0
Cobalt	2.5	5.0	ND	5.38	9.00	7.13	9.97
Copper	2.5	5.0	ND	10.1	24.6	12.2	94.6
Lead	2.5	5.0	ND	ND	21.5	5.75	31.1
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	ND	4.46
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	10.0	11.9	9.34	11.6
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	18.4	30.3	24.4	27.5
Zinc	2.5	5.0	ND	26.1	61.0	43.1	110

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C4

Our Lab I.D.			89104.08	89104.11	89104.12	89104.15	89104.16
Client Sample I.D.			Tt-WMS12-2.0	Tt-WMS37-0.5	Tt-WMS37-2.0	Tt-WMS13-0.5	Tt-WMS13-2.0
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	2.51J	ND	ND	ND	3.57J
Barium	2.5	5.0	96.8	42.7	93.0	153	81.1
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	16.8	8.19	15.3	20.3	18.3
Cobalt	2.5	5.0	9.21	3.54J	9.00	6.63	8.89
Copper	2.5	5.0	17.0	98.3	14.7	8.28	19.3
Lead	2.5	5.0	ND	16.5	ND	ND	3.55J
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	ND	0.112J
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	12.1	8.22	11.5	10.8	12.5
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	31.9	16.9	29.1	31.7	33.7
Zinc	2.5	5.0	50.4	68.9	48.4	31.8	51.4

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C4

Our Lab I.D.			89104.17				
Client Sample I.D.			Tt-WMS13-2.0D				
Date Sampled			08/23/2017				
Date Prepared			08/29/2017				
Preparation Method			3050B				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	1.0	5.0	ND				
Arsenic	1.0	5.0	5.80				
Barium	2.5	5.0	87.2				
Beryllium	1.3	2.5	ND				
Cadmium	1.3	2.5	ND				
Chromium	2.5	5.0	18.9				
Cobalt	2.5	5.0	9.52				
Copper	2.5	5.0	19.5				
Lead	2.5	5.0	3.34J				
Mercury (By EPA 7471)	0.1	0.2	ND				
Molybdenum	2.5	5.0	ND				
Nickel	2.5	5.0	13.3				
Selenium	1.0	5.0	ND				
Silver	2.5	5.0	ND				
Thallium	1.0	5.0	ND				
Vanadium	2.5	5.0	34.0				
Zinc	2.5	5.0	55.1				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C5

Our Lab I.D.			Method Blank	89104.20	89104.21	89104.24	89104.25
Client Sample I.D.				Tt-WMS14-0.5	Tt-WMS14-2.0	Tt-WMS11-0.5	Tt-WMS11-3.0
Date Sampled				08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	ND	103	36.0	77.3	63.6
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	19.7	6.04	6.10	12.8
Cobalt	2.5	5.0	ND	8.63	3.57J	5.74	6.98
Copper	2.5	5.0	ND	8.25	5.95	22.3	11.5
Lead	2.5	5.0	ND	2.85J	ND	4.03J	ND
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	0.382	0.121J
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	10.5	4.18J	4.79J	9.09
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	33.4	12.3	18.5	23.3
Zinc	2.5	5.0	ND	31.0	21.8	39.7	37.5

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Wilmington Marine Service

Page: 53

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C5

Our Lab I.D.			89104.28	89104.29	89104.32	89104.33	89104.36
Client Sample I.D.			Tt-WMS1-0.5	Tt-WMS1-2.0	Tt-WMS2-0.5	Tt-WMS2-2.0	Tt-WMS10-0.5
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	90.1	27.7	43.8	31.1	103
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	14.3	6.33	9.51	7.52	17.9
Cobalt	2.5	5.0	8.61	3.16J	5.02	3.79J	6.57
Copper	2.5	5.0	26.0	3.94J	7.89	5.47	49.0
Lead	2.5	5.0	60.6	ND	ND	ND	72.5
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	ND	0.357
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	13.7	3.94J	6.55	4.90J	13.0
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	29.9	11.8	17.6	14.2	30.8
Zinc	2.5	5.0	92.5	18.9	27.7	22.0	120

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C5

Our Lab I.D.			89104.37	89104.38			
Client Sample I.D.			Tt-WMS10-2.0	Tt-WMS10-2.0D			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			3050B	3050B			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	ND	ND			
Barium	2.5	5.0	37.4	21.5			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	7.68	4.52J			
Cobalt	2.5	5.0	3.97J	2.52J			
Copper	2.5	5.0	8.33	5.68			
Lead	2.5	5.0	ND	ND			
Mercury (By EPA 7471)	0.1	0.2	ND	ND			
Molybdenum	2.5	5.0	ND	ND			
Nickel	2.5	5.0	4.95J	3.00J			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	1.0	5.0	ND	ND			
Vanadium	2.5	5.0	15.3	9.75			
Zinc	2.5	5.0	25.8	21.2			

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C6

Our Lab I.D.			Method Blank	89104.41	89104.42	89104.43	89104.46
Client Sample I.D.				Tt-WMS3-0.5	Tt-WMS3-2.0	Tt-WMS3-2.0 D	Tt-WMS9-0.5
Date Sampled				08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	ND	34.3	28.7	38.1	23.4
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	6.32	6.57	7.91	4.15J
Cobalt	2.5	5.0	ND	3.19J	3.22J	4.14J	ND
Copper	2.5	5.0	ND	4.30J	4.29J	5.61	4.36J
Lead	2.5	5.0	ND	ND	ND	ND	ND
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	ND	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	3.96J	3.87J	5.23	2.78J
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	13.3	13.5	14.9	9.15
Zinc	2.5	5.0	ND	18.8	17.7	23.3	16.6

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C6

Our Lab I.D.			89104.47	89104.48			
Client Sample I.D.			Tt-WMS9-2.0	Tt-WMS9-2.0 D			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			3050B	3050B			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	ND	ND			
Barium	2.5	5.0	47.2	29.8			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	9.38	6.83			
Cobalt	2.5	5.0	5.00	3.57J			
Copper	2.5	5.0	6.93	4.54J			
Lead	2.5	5.0	ND	ND			
Mercury (By EPA 7471)	0.1	0.2	ND	ND			
Molybdenum	2.5	5.0	ND	ND			
Nickel	2.5	5.0	6.55	4.39J			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	1.0	5.0	ND	ND			
Vanadium	2.5	5.0	17.8	13.6			
Zinc	2.5	5.0	27.9	19.8			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-1

Our Lab I.D.			89104.02	89104.03	89104.04	89104.07	89104.08
Client Sample I.D.			Tt-WMS36-0.5	Tt-WMS36-2.0	Tt-WMS36-2.0D	Tt-WMS12-0.5	Tt-WMS12-2.0
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	20.3	23.4	18.3	17.0	27.6

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-1

Our Lab I.D.			89104.11	89104.12	89104.15	89104.16	89104.17
Client Sample I.D.			Tt-WMS37-0.5	Tt-WMS37-2.0	Tt-WMS13-0.5	Tt-WMS13-2.0	Tt-WMS13-2.0D
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	7.90	21.8	15.6	25.1	26.9

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-1

Our Lab I.D.			89104.20	89104.21	89104.24	89104.25	89104.28
Client Sample I.D.			Tt-WMS14-0.5	Tt-WMS14-2.0	Tt-WMS11-0.5	Tt-WMS11-3.0	Tt-WMS1-0.5
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	13.3	8.10	3.40	20.2	16.3

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-2

Our Lab I.D.			89104.29	89104.32	89104.33	89104.36	89104.37
Client Sample I.D.			Tt-WMS1-2.0	Tt-WMS2-0.5	Tt-WMS2-2.0	Tt-WMS10-0.5	Tt-WMS10-2.0
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	14.1	15.7	14.7	12.6	11.4

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-2

Our Lab I.D.			89104.38	89104.41	89104.42	89104.43	89104.46
Client Sample I.D.			Tt-WMS10-2.0D	Tt-WMS3-0.5	Tt-WMS3-2.0	Tt-WMS3-2.0D	Tt-WMS9-0.5
Date Sampled			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Date Prepared			08/28/2017	08/28/2017	08/28/2017	08/28/2017	08/28/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	7.00	7.90	15.0	19.5	8.20

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-2

Our Lab I.D.			89104.47	89104.48			
Client Sample I.D.			Tt-WMS9-2.0	Tt-WMS9-2.0 D			
Date Sampled			08/23/2017	08/23/2017			
Date Prepared			08/28/2017	08/28/2017			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	17.5	16.8			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825171A1

Our Lab I.D.			Method Blank	89104.01	89104.51		
Client Sample I.D.				TB08232017	EB08232017		
Date Sampled				08/23/2017	08/23/2017		
Date Prepared			08/25/2017	08/23/2017	08/23/2017		
Preparation Method			5030B	5030B	5030B		
Date Analyzed			08/25/2017	08/25/2017	08/25/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			ug/L	ug/L	ug/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Acetone	10	10	ND	ND	ND		
Benzene	0.5	1.0	ND	ND	ND		
Bromobenzene (Phenyl bromide)	0.5	1.0	ND	ND	ND		
Bromochloromethane	0.5	1.0	ND	ND	ND		
Bromodichloromethane	0.5	1.0	ND	ND	ND		
Bromoform (Tribromomethane)	2.5	5.0	ND	ND	ND		
Bromomethane (Methyl bromide)	1.5	3.0	ND	ND	ND		
2-Butanone (MEK)	5.0	5.0	ND	ND	ND		
n-Butylbenzene	0.5	1.0	ND	ND	ND		
sec-Butylbenzene	0.5	1.0	ND	ND	ND		
tert-Butylbenzene	0.5	1.0	ND	ND	ND		
Carbon Disulfide	0.5	1.0	ND	ND	ND		
Carbon tetrachloride	0.5	1.0	ND	ND	ND		
Chlorobenzene	0.5	1.0	ND	ND	ND		
Chloroethane	1.5	3.0	ND	ND	ND		
2-Chloroethyl vinyl ether	2.5	5.0	ND	ND	ND		
Chloroform (Trichloromethane)	0.5	1.0	ND	ND	ND		
Chloromethane (Methyl chloride)	1.5	3.0	ND	ND	ND		
2-Chlorotoluene	0.5	1.0	ND	ND	ND		
4-Chlorotoluene	0.5	1.0	ND	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	2.5	5.0	ND	ND	ND		
Dibromochloromethane	0.5	1.0	ND	ND	ND		
1,2-Dibromoethane (EDB)	0.5	1.0	ND	ND	ND		
Dibromomethane	0.5	1.0	ND	ND	ND		
1,2-Dichlorobenzene	0.5	1.0	ND	ND	ND		
1,3-Dichlorobenzene	0.5	1.0	ND	ND	ND		
1,4-Dichlorobenzene	0.5	1.0	ND	ND	ND		
Dichlorodifluoromethane	1.5	3.0	ND	ND	ND		

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825171A1

Our Lab I.D.			Method Blank	89104.01	89104.51		
Client Sample I.D.				TB08232017	EB08232017		
Date Sampled				08/23/2017	08/23/2017		
Date Prepared			08/25/2017	08/23/2017	08/23/2017		
Preparation Method			5030B	5030B	5030B		
Date Analyzed			08/25/2017	08/25/2017	08/25/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			ug/L	ug/L	ug/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
1,1-Dichloroethane	0.5	1.0	ND	ND	ND		
1,2-Dichloroethane (EDC)	0.5	1.0	ND	ND	ND		
1,1-Dichloroethene	0.5	1.0	ND	ND	ND		
cis-1,2-Dichloroethene	0.5	1.0	ND	ND	ND		
trans-1,2-Dichloroethene	0.5	1.0	ND	ND	ND		
1,2-Dichloropropane	0.5	1.0	ND	ND	ND		
1,3-Dichloropropane	0.5	1.0	ND	ND	ND		
2,2-Dichloropropane	0.5	1.0	ND	ND	ND		
1,1-Dichloropropene	0.5	1.0	ND	ND	ND		
cis-1,3-Dichloropropene	0.5	1.0	ND	ND	ND		
trans-1,3-Dichloropropene	0.5	1.0	ND	ND	ND		
Ethylbenzene	0.5	1.0	ND	ND	ND		
Hexachlorobutadiene	1.5	3.0	ND	ND	ND		
2-Hexanone	2.5	5.0	ND	ND	ND		
Iodomethane	0.5	1.0	ND	ND	ND		
Isopropylbenzene	0.5	1.0	ND	ND	ND		
p-Isopropyltoluene	0.5	1.0	ND	ND	ND		
4-Methyl-2-pentanone (MIBK)	2.5	5.0	ND	ND	ND		
Methylene chloride (DCM)	2.0	4.0	ND	ND	ND		
Naphthalene	0.5	1.0	ND	ND	ND		
n-Propylbenzene	0.5	1.0	ND	ND	ND		
Styrene	0.5	1.0	ND	ND	ND		
1,1,1,2-Tetrachloroethane	0.5	1.0	ND	ND	ND		
1,1,2,2-Tetrachloroethane	0.5	1.0	ND	ND	ND		
Tetrachloroethene	0.5	1.0	ND	ND	ND		
Toluene (Methyl benzene)	0.5	1.0	ND	ND	ND		
1,2,3-Trichlorobenzene	0.5	1.0	ND	ND	ND		
1,2,4-Trichlorobenzene	0.5	1.0	ND	ND	ND		
1,1,1-Trichloroethane	0.5	1.0	ND	ND	ND		
1,1,2-Trichloroethane	0.5	1.0	ND	ND	ND		
Trichloroethene	0.5	1.0	ND	ND	ND		
Trichlorofluoromethane	0.5	1.0	ND	ND	ND		
1,2,3-Trichloropropane	0.5	1.0	ND	ND	ND		
1,2,4-Trimethylbenzene	0.5	1.0	ND	ND	ND		

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825171A1

Our Lab I.D.			Method Blank	**89104.01**	**89104.51**		
Client Sample I.D.				TB08232017	EB08232017		
Date Sampled				08/23/2017	08/23/2017		
Date Prepared			08/25/2017	08/23/2017	08/23/2017		
Preparation Method			5030B	5030B	5030B		
Date Analyzed			08/25/2017	08/25/2017	08/25/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			ug/L	ug/L	ug/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
1,3,5-Trimethylbenzene	0.5	1.0	ND	ND	ND		
Vinyl Acetate	0.5	5.0	ND	ND	ND		
Vinyl chloride (Chloroethene)	0.5	3.0	ND	ND	ND		
o-Xylene	0.5	1.0	ND	ND	ND		
m,p-Xylenes	1.0	2.0	ND	ND	ND		
tert-Butyl alcohol (TBA)	10	50	ND	ND	ND		
Diisopropyl ether (DIPE)	0.5	1.0	ND	ND	ND		
Ethyl alcohol (Ethanol)	250	500	ND	ND	ND		
Ethyl-tert-butyl ether (ETBE)	0.5	1.0	ND	ND	ND		
Methyl-tert-butyl ether (MTBE)	0.5	1.0	ND	ND	ND		
tert-Amyl methyl ether (TAME)	0.5	1.0	ND	ND	ND		
Our Lab I.D.			Method Blank	**89104.01**	**89104.51**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Bromofluorobenzene	75-125		124	121	120		
Dibromofluoromethane	75-125		107	108	108		
Toluene-d8	75-125		120	121	119		

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Site

Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082417NB2

Our Lab I.D.			Method Blank	**89104.01**	**89104.51**		
Client Sample I.D.				TB08232017	EB08232017		
Date Sampled				08/23/2017	08/23/2017		
Date Prepared			08/24/2017	08/23/2017	08/23/2017		
Preparation Method			5030B	5030B	5030B		
Date Analyzed			08/25/2017	08/25/2017	08/25/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			mg/L	mg/L	mg/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Gasoline and Light HC. (C4-C12)	0.005	0.010	ND	ND	ND		
Our Lab I.D.			Method Blank	**89104.01**	**89104.51**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Bromofluorobenzene	75-125		112	106	112		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817DB1

Our Lab I.D.			Method Blank	**89104.51**			
Client Sample I.D.				EB08232017			
Date Sampled				08/23/2017			
Date Prepared			08/28/2017	08/28/2017			
Preparation Method			3510C	3510C			
Date Analyzed			08/28/2017	08/28/2017			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	0.1	0.5	ND	ND			
TPH as Heavy Hydrocarbons (C23-C40)	0.1	0.5	ND	ND			
TPH Total as Diesel and Heavy HC.C13-C40	0.1	0.5	ND	ND			
Our Lab I.D.			Method Blank	**89104.51**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	60-125		97.0	104			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825171A1; Dup or Spiked Sample: B0825171A1; LCS: Clean Water; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: ug/L

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Benzene	50.0	50.5	101	50.0	48.6	97.2	3.8	75-125	<20	
Carbon tetrachloride	50.0	48.3	96.6	50.0	47.2	94.4	2.3	75-125	<20	
Chlorobenzene	50.0	51.5	103	50.0	51.0	102	<1	75-125	<20	
Chloroform (Trichloromethane)	50.0	53.5	107	50.0	51.0	102	4.8	75-125	<20	
1,2-Dichlorobenzene	50.0	48.7	97.4	50.0	49.5	99.0	1.6	75-125	<20	
1,1-Dichloroethane	50.0	47.8	95.6	50.0	47.0	94.0	1.7	75-125	<20	
1,1-Dichloroethene	50.0	54.5	109	50.0	49.6	99.2	9.4	75-125	<20	
cis-1,2-Dichloroethene	50.0	52.5	105	50.0	49.5	99.0	5.9	75-125	<20	
Ethylbenzene	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<20	
n-Propylbenzene	50.0	44.7	89.4	50.0	44.6	89.2	<1	75-125	<20	
Toluene (Methyl benzene)	50.0	52.5	105	50.0	50.0	100	4.9	75-125	<20	
1,1,1-Trichloroethane	50.0	50.5	101	50.0	48.6	97.2	3.8	75-125	<20	
1,1,2-Trichloroethane	50.0	51.5	103	50.0	52.5	105	1.9	75-125	<20	
Trichloroethene	50.0	60.0	120	50.0	59.0	118	1.7	75-125	<20	
1,2,4-Trimethylbenzene	50.0	49.3	98.6	50.0	49.0	98.0	<1	75-125	<20	
1,3,5-Trimethylbenzene	50.0	46.7	93.4	50.0	46.3	92.6	<1	75-125	<20	
o-Xylene	50.0	53.0	106	50.0	52.5	105	<1	75-125	<20	
m,p-Xylenes	100	103	103	100	103	103	<1	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	53.0	106	50.0	51.5	103	2.9	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	48.5	97.0	50.0	48.5	96.9	<1	75-125	<20	
Dibromofluoromethane	50.0	52.5	105	50.0	52.0	104	<1	75-125	<20	
Toluene-d8	50.0	56.5	113	50.0	55.0	110	2.7	75-125	<20	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825171A1; Dup or Spiked Sample: B0825171A1; LCS: Clean Water; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	53.5	107	50.0	53.0	106	<1	75-125	<20	
Carbon tetrachloride	50.0	59.5	119	50.0	56.5	113	5.2	75-125	<20	
Chlorobenzene	50.0	56.5	113	50.0	56.5	113	<1	75-125	<20	
Chloroform (Trichloromethane)	50.0	54.0	108	50.0	54.0	108	<1	75-125	<20	
1,2-Dichlorobenzene	50.0	53.5	107	50.0	53.0	106	<1	75-125	<20	
1,1-Dichloroethane	50.0	50.5	101	50.0	50.0	100	<1	75-125	<20	
1,1-Dichloroethene	50.0	62.0	124	50.0	51.0	102	19.5	75-125	<20	
cis-1,2-Dichloroethene	50.0	54.0	108	50.0	53.5	107	<1	75-125	<20	
Ethylbenzene	50.0	59.0	118	50.0	57.5	115	2.6	75-125	<20	
n-Propylbenzene	50.0	53.0	106	50.0	51.0	102	3.8	75-125	<20	
Toluene (Methyl benzene)	50.0	57.0	114	50.0	56.5	113	<1	75-125	<20	
1,1,1-Trichloroethane	50.0	58.5	117	50.0	56.0	112	4.4	75-125	<20	
1,1,2-Trichloroethane	50.0	53.5	107	50.0	53.0	106	<1	75-125	<20	
Trichloroethene	50.0	62.5	125	50.0	62.5	125	<1	75-125	<20	
1,2,4-Trimethylbenzene	50.0	55.5	111	50.0	55.0	110	<1	75-125	<20	
1,3,5-Trimethylbenzene	50.0	53.0	106	50.0	52.5	105	<1	75-125	<20	
o-Xylene	50.0	57.5	115	50.0	56.5	113	1.8	75-125	<20	
m,p-Xylenes	100	117	117	100	115	115	1.7	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	54.5	109	50.0	52.0	104	4.7	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	49.1	98.1	50.0	47.9	95.7	2.5	75-125	<20	
Dibromofluoromethane	50.0	52.5	105	50.0	52.0	104	<1	75-125	<20	
Toluene-d8	50.0	57.0	114	50.0	57.0	114	<1	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817DB1; Dup or Spiked Sample: 0828; LCS: Clean Water; QC Prepared: 08/28/2017; QC Analyzed: 08/28/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	5.00	4.87	97.4	5.00	5.20	104	6.6	75-125	<20
Surrogates										
Chlorobenzene	0.00	2.00	1.86	93.0	2.00	1.88	94.0	1.1	60-125	<20

QC Batch No: 082817DB1; Dup or Spiked Sample: 0828; LCS: Clean Water; QC Prepared: 08/28/2017; QC Analyzed: 08/28/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C13-C22)	5.00	5.15	103	75-125						
Surrogates										
Chlorobenzene	2.00	1.92	96.0	60-125						

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082417NB2; Dup or Spiked Sample: 89104.51CGA; LCS: Clean Water; QC Prepared: 08/24/2017; QC Analyzed: 08/25/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	0.500	0.473	94.6	0.500	0.476	95.2	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0515	103	0.0500	0.0575	115	11.0	75-125	<20

QC Batch No: 082417NB2; Dup or Spiked Sample: 89104.51CGA; LCS: Clean Water; QC Prepared: 08/24/2017; QC Analyzed: 08/25/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	0.500	0.499	99.8	0.500	0.493	98.6	1.2	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0550	110	0.0500	0.0590	118	7.0	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C4; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	45.4	90.8	50.0	47.2	94.4	3.9	75-125	<15
Arsenic	2.51	50.0	45.5	86.0	50.0	48.3	91.6	6.3	75-125	<15
Barium	96.8	50.0	131 #	68.4	50.0	132 #	70.4	2.9	75-125	<15
Beryllium	0.00	50.0	47.5	95.0	50.0	49.0	98.0	3.1	75-125	<15
Cadmium	0.00	50.0	44.8	89.6	50.0	45.7	91.4	2.0	75-125	<15
Chromium	16.8	50.0	58.7	83.8	50.0	59.9	86.2	2.8	75-125	<15
Cobalt	9.21	50.0	50.1	81.8	50.0	51.1	83.8	2.4	75-125	<15
Copper	17.0	50.0	63.1	92.2	50.0	63.5	93.0	<1	75-125	<15
Lead	0.00	50.0	39.6	79.2	50.0	40.7	81.4	2.7	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.391	78.2	0.500	0.399	79.8	2.0	75-125	<15
Molybdenum	0.00	50.0	42.4	84.8	50.0	43.3	86.6	2.1	75-125	<15
Nickel	12.1	50.0	51.4	78.6	50.0	52.5	80.8	2.8	75-125	<15
Selenium	0.00	50.0	36.3 #	72.6	50.0	37.9	75.8	4.3	75-125	<15
Silver	0.00	50.0	43.9	87.8	50.0	44.3	88.6	<1	75-125	<15
Thallium	0.00	50.0	33.7 #	67.4	50.0	34.7 #	69.4	2.9	75-125	<15
Vanadium	31.9	50.0	73.5	83.2	50.0	74.2	84.6	1.7	75-125	<15
Zinc	50.4	50.0	88.6	76.4	50.0	89.7	78.6	2.8	75-125	<15

QC Batch No: 0829172C4; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Arsenic	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	56.0	112	50.0	55.5	111	<1	75-125	<15	
Cadmium	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Chromium	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Cobalt	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Copper	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Lead	50.0	49.3	98.6	50.0	49.2	98.4	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C4; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.590	118	0.500	0.600	120	1.7	75-125	<15	
Molybdenum	50.0	49.4	98.8	50.0	49.1	98.2	<1	75-125	<15	
Nickel	50.0	49.3	98.6	50.0	49.6	99.2	<1	75-125	<15	
Selenium	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15	
Silver	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Thallium	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Vanadium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Zinc	50.0	54.0	108	50.0	54.0	108	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C5; Dup or Spiked Sample: 89104.32; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	47.3	94.6	50.0	48.1	96.2	1.7	75-125	<15
Arsenic	0.00	50.0	48.1	96.2	50.0	48.9	97.8	1.6	75-125	<15
Barium	43.8	50.0	91.6	95.6	50.0	90.8	94.0	1.7	75-125	<15
Beryllium	0.00	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15
Cadmium	0.00	50.0	46.2	92.4	50.0	46.6	93.2	<1	75-125	<15
Chromium	9.51	50.0	55.0	91.0	50.0	55.4	91.8	<1	75-125	<15
Cobalt	5.02	50.0	48.5	87.0	50.0	48.8	87.6	<1	75-125	<15
Copper	7.89	50.0	57.9	100	50.0	57.3	98.8	1.2	75-125	<15
Lead	0.00	50.0	40.3	80.6	50.0	40.7	81.4	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.565	113	0.500	0.590	118	4.3	75-125	<15
Molybdenum	0.00	50.0	44.6	89.2	50.0	45.0	90.0	<1	75-125	<15
Nickel	6.55	50.0	48.0	82.9	50.0	48.4	83.7	<1	75-125	<15
Selenium	0.00	50.0	42.4	84.8	50.0	42.3	84.6	<1	75-125	<15
Silver	0.00	50.0	46.6	93.2	50.0	46.2	92.4	<1	75-125	<15
Thallium	0.00	50.0	36.6 #	73.2	50.0	36.8 #	73.6	<1	75-125	<15
Vanadium	17.6	50.0	65.9	96.6	50.0	65.2	95.2	1.5	75-125	<15
Zinc	27.7	50.0	73.3	91.2	50.0	72.6	89.8	1.5	75-125	<15

QC Batch No: 0829172C5; Dup or Spiked Sample: 89104.32; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	48.9	97.8	50.0	49.3	98.6	<1	75-125	<15	
Arsenic	50.0	49.5	99.0	50.0	49.9	99.8	<1	75-125	<15	
Barium	50.0	49.4	98.8	50.0	49.6	99.2	<1	75-125	<15	
Beryllium	50.0	54.0	108	50.0	54.5	109	<1	75-125	<15	
Cadmium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Chromium	50.0	49.6	99.2	50.0	49.8	99.6	<1	75-125	<15	
Cobalt	50.0	49.5	99.0	50.0	49.8	99.6	<1	75-125	<15	
Copper	50.0	48.9	97.8	50.0	49.1	98.2	<1	75-125	<15	
Lead	50.0	47.6	95.2	50.0	47.7	95.4	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C5; Dup or Spiked Sample: 89104.32; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.590	118	0.500	0.590	118	<1	75-125	<15	
Molybdenum	50.0	47.4	94.8	50.0	47.7	95.4	<1	75-125	<15	
Nickel	50.0	48.2	96.4	50.0	48.4	96.8	<1	75-125	<15	
Selenium	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15	
Silver	50.0	49.7	99.4	50.0	49.8	99.6	<1	75-125	<15	
Thallium	50.0	50.0	100	50.0	50.0	100	<1	75-125	<15	
Vanadium	50.0	49.0	98.0	50.0	49.2	98.4	<1	75-125	<15	
Zinc	50.0	52.5	105	50.0	52.5	105	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C6; Dup or Spiked Sample: 89104.41; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	47.7	95.4	50.0	46.8	93.6	1.9	75-125	<15
Arsenic	0.00	50.0	47.6	95.2	50.0	47.0	94.0	1.3	75-125	<15
Barium	34.3	50.0	75.9	83.2	50.0	74.8	81.0	2.7	75-125	<15
Beryllium	0.00	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15
Cadmium	0.00	50.0	45.8	91.6	50.0	45.6	91.2	<1	75-125	<15
Chromium	6.32	50.0	52.4	92.2	50.0	52.0	91.4	<1	75-125	<15
Cobalt	3.19	50.0	47.9	89.4	50.0	47.6	88.8	<1	75-125	<15
Copper	4.30	50.0	52.9	97.2	50.0	51.2	93.8	3.6	75-125	<15
Lead	0.00	50.0	41.2	82.4	50.0	41.1	82.2	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.324#	64.8	0.500	0.339#	67.8	4.5	75-125	<15
Molybdenum	0.00	50.0	45.6	91.2	50.0	45.2	90.4	<1	75-125	<15
Nickel	3.96	50.0	46.6	85.3	50.0	46.2	84.5	<1	75-125	<15
Selenium	0.00	50.0	44.7	89.4	50.0	43.4	86.8	3.0	75-125	<15
Silver	0.00	50.0	46.0	92.0	50.0	44.9	89.8	2.4	75-125	<15
Thallium	0.00	50.0	38.6	77.2	50.0	38.7	77.4	<1	75-125	<15
Vanadium	13.3	50.0	60.5	94.4	50.0	59.5	92.4	2.1	75-125	<15
Zinc	18.8	50.0	65.0	92.4	50.0	64.6	91.6	<1	75-125	<15

QC Batch No: 0829172C6; Dup or Spiked Sample: 89104.41; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	49.7	99.4	50.0	50.0	100	<1	75-125	<15	
Arsenic	50.0	50.5	101	50.0	50.0	100	<1	75-125	<15	
Barium	50.0	49.8	99.6	50.0	49.8	99.6	<1	75-125	<15	
Beryllium	50.0	55.0	110	50.0	54.5	109	<1	75-125	<15	
Cadmium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Chromium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Cobalt	50.0	49.9	99.8	50.0	49.8	99.6	<1	75-125	<15	
Copper	50.0	49.1	98.2	50.0	49.2	98.4	<1	75-125	<15	
Lead	50.0	48.2	96.4	50.0	48.3	96.6	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C6; Dup or Spiked Sample: 89104.41; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.482	96.4	0.500	0.465	93.0	3.6	75-125	<15	
Molybdenum	50.0	48.1	96.2	50.0	48.1	96.2	<1	75-125	<15	
Nickel	50.0	48.6	97.2	50.0	48.5	97.0	<1	75-125	<15	
Selenium	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Silver	50.0	49.8	99.6	50.0	49.9	99.8	<1	75-125	<15	
Thallium	50.0	51.0	102	50.0	50.5	101	<1	75-125	<15	
Vanadium	50.0	49.2	98.4	50.0	49.3	98.6	<1	75-125	<15	
Zinc	50.0	53.0	106	50.0	53.0	106	<1	75-125	<15	

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Wilmington Marine Service

Page: 78

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082517-4; Dup or Spiked Sample: 89089.44; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/28/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	480	96.0	500	560	112	15.4	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	695	139	500	705	141	1.4	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	71.5	143	50.0	75.0	150	4.8	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	65.0	130	50.0	59.0	118	9.7	30-150	<20

QC Batch No: 082517-4; Dup or Spiked Sample: 89089.44; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/28/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	520	104	500	625	125	18.3	50-150	<20	
Aroclor-1260 (PCB-1260)	500	540	108	500	505	101	6.7	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	58.0	116	50.0	55.0	110	5.3	30-150	<20	
Tetrachloro-m-xylene	50.0	59.0	118	50.0	61.0	122	3.3	30-150	<20	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	37.7	75.4	50.0	38.1	76.2	1.1	75-125	<20
Chlorobenzene	0.00	50.0	34.5 #	69.0	50.0	37.6	75.2	8.6	75-125	<20
1,1-Dichloroethene	0.00	50.0	53.0	106	50.0	49.6	99.2	6.6	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	36.3 #	72.6	50.0	38.4	76.8	5.6	75-125	<20
Trichloroethene	0.00	50.0	41.2	82.4	50.0	44.0	88.0	6.6	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	40.8	81.6	50.0	42.4	84.8	3.8	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.9	91.7	50.0	48.9	97.8	6.4	75-125	<20
Dibromofluoromethane	0.00	50.0	48.8	97.5	50.0	47.9	95.8	1.8	75-125	<20
Toluene-d8	0.00	50.0	48.5	96.9	50.0	47.3	94.5	2.5	75-125	<20

QC Batch No: 0825172A1; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	41.6	83.2	50.0	41.0	82.0	1.5	75-125	<20	
Chlorobenzene	50.0	44.5	89.0	50.0	44.0	88.0	1.1	75-125	<20	
1,1-Dichloroethene	50.0	55.0	110	50.0	52.0	104	5.6	75-125	<20	
Toluene (Methyl benzene)	50.0	43.2	86.4	50.0	45.0	90.0	4.1	75-125	<20	
Trichloroethene	50.0	48.3	96.6	50.0	47.5	95.0	1.7	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	45.1	90.2	50.0	47.5	95.0	5.2	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	42.9	85.8	50.0	45.5	91.0	5.9	75-125	<20	
Ethylbenzene	50.0	46.4	92.8	50.0	47.5	95.0	2.3	75-125	<20	
1,1,1-Trichloroethane	50.0	54.5	109	50.0	55.0	110	<1	75-125	<20	
o-Xylene	50.0	44.1	88.2	50.0	45.0	90.0	2.0	75-125	<20	
m,p-Xylenes	100	90.5	90.5	100	90.7	90.7	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	47.5	95.0	50.0	52.0	104	9.0	75-125	<20	
Dibromofluoromethane	50.0	40.1	80.1	50.0	42.4	84.8	5.7	75-125	<20	
Toluene-d8	50.0	46.7	93.4	50.0	48.5	96.9	3.7	75-125	<20	

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Wilmington Marine Service

Page: 80

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917; Dup or Spiked Sample: 89089.35; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Acenaphthene	0.00	2.50	2.06	82.4	2.50	1.93	77.2	6.5	46-118	<20
4-Chloro-3-methylphenol	0.00	5.00	3.93	78.5	5.00	3.90	77.9	<1	39-98	<20
2-Chlorophenol	0.00	5.00	3.74	74.8	5.00	3.57	71.3	4.8	27-123	<20
1,4-Dichlorobenzene	0.00	2.50	2.04	81.7	2.50	1.90	76.0	7.2	36-97	<20
2,4-Dinitrotoluene	0.00	2.50	1.90	75.9	2.50	2.02	80.6	6.0	24-96	<20
N-Nitroso-Di-n-propylamine	0.00	2.50	2.00	79.8	2.50	1.98	79.0	1.0	41-116	<20
4-Nitrophenol	0.00	5.00	1.53	30.6	5.00	2.28	45.6	39.4	10-110	<20
Pentachlorophenol	0.00	5.00	3.25	65.0	5.00	3.44	68.7	5.5	40-125	<20
Phenol	0.00	5.00	3.30	65.9	5.00	3.17	63.3	4.0	12-89	<20
Pyrene	0.00	2.50	3.05	122	2.50	3.08	123	<1	26-127	<20
1,2,4-Trichlorobenzene	0.00	2.50	2.51	100	2.50	2.31	92.2	8.5	39-98	<20
Surrogates										
2-Fluorophenol	0.00	5.00	3.03	60.5	5.00	2.78	55.6	8.4	25-121	<20
2-Fluorobiphenyl	0.00	2.50	2.11	84.4	2.50	1.93	77.0	9.2	30-115	<20
Nitrobenzene-d5	0.00	2.50	1.82	72.9	2.50	1.66	66.4	9.3	23-120	<20
p-Terphenyl-D14	0.00	2.50	3.01	120	2.50	3.34	134	10.6	18-137	<20
Phenol-d6	0.00	5.00	3.14	62.7	5.00	3.00	60.0	4.4	24-113	<20
2,4,6-Tribromophenol	0.00	5.00	4.69	93.8	5.00	4.24	84.8	10.1	19-122	<20

QC Batch No: 082917; Dup or Spiked Sample: 89089.35; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Acenaphthene	2.50	1.95	77.8	2.50	2.05	81.8	5.0	31-137	<20	
4-Chloro-3-methylphenol	5.00	3.94	78.8	5.00	4.03	80.5	2.1	40-99	<20	
2-Chlorophenol	5.00	3.53	70.5	5.00	3.69	73.8	4.6	25-102	<20	
1,4-Dichlorobenzene	2.50	1.76	70.5	2.50	1.85	73.8	4.6	28-104	<20	
2,4-Dinitrotoluene	2.50	1.85	73.8	2.50	1.98	79.2	7.1	28-89	<20	
N-Nitroso-Di-n-propylamine	2.50	1.87	74.6	2.50	1.85	73.8	1.1	41-126	<20	
4-Nitrophenol	5.00	2.05	41.0	5.00	2.36	47.2	14.1	11-114	<20	
Pentachlorophenol	5.00	3.41	68.2	5.00	3.52	70.4	3.2	17-125	<20	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082917; Dup or Spiked Sample: 89089.35; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Phenol	5.00	3.22	64.4	5.00	3.35	66.9	3.8	26-90	<20	
Pyrene	2.50	3.00	120	2.50	2.88	115	4.3	35-142	<20	
1,2,4-Trichlorobenzene	2.50	2.37	94.6	2.50	2.47	98.8	4.3	38-107	<20	
Surrogates										
2-Fluorophenol	5.00	3.10	62.0	5.00	3.12	62.3	<1	25-121	<20	
2-Fluorobiphenyl	2.50	2.06	82.2	2.50	2.09	83.6	1.7	30-115	<20	
Nitrobenzene-d5	2.50	1.71	68.4	2.50	1.78	71.2	4.0	23-120	<20	
p-Terphenyl-D14	2.50	2.99	119	2.50	2.78	111	7.3	18-137	<20	
Phenol-d6	5.00	3.11	62.1	5.00	3.22	64.4	3.6	24-113	<20	
2,4,6-Tribromophenol	5.00	4.56	91.2	5.00	4.40	87.9	3.7	19-122	<20	

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Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB1; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/28/2017;MS Analyzed: 08/29/2017; LCS Analyzed: 08/28/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	464	92.8	500	437	87.4	6.0	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	97.7	97.7	100	95.7	95.7	2.1	75-125	<20

QC Batch No: 082817PB1; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/28/2017;MS Analyzed: 08/29/2017; LCS Analyzed: 08/28/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	540	108	500	525	105	2.8	75-125	<20	
Surrogates										
Chlorobenzene	100	118	118	100	116	116	1.7	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082817PB2; Dup or Spiked Sample: 88104.32; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	499	99.8	500	499	99.8	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	108	108	100	106	106	1.9	75-125	<20

QC Batch No: 082817PB2; Dup or Spiked Sample: 88104.32; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	585	117	500	570	114	2.6	75-125	<20	
Surrogates										
Chlorobenzene	100	119	119	100	118	118	<1	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017;MS Analyzed: 08/30/2017; LCS Analyzed: 08/29/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	212	500	737	105	500	737	105	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	100	100	100	100	100	<1	75-125	<20

QC Batch No: 082917DB1; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017;MS Analyzed: 08/30/2017; LCS Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	449	89.8	500	481	96.2	6.9	75-125	<20	
Surrogates										
Chlorobenzene	100	96.9	96.9	100	94.5	94.5	2.5	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB1; Dup or Spiked Sample: 89104.08CGA; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.842	84.2	1.00	0.804	80.4	4.6	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0565	113	0.0500	0.0570	114	<1	75-125	<20

QC Batch No: 082517OB1; Dup or Spiked Sample: 89104.08CGA; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.936	93.6	1.00	0.932	93.2	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0545	109	0.0500	0.0535	107	1.9	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB2; Dup or Spiked Sample: 89104.32HGA; LCS: Clean Sand; QC Prepared: 08/25/2017; QC Analyzed: 08/26/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.813	81.3	1.00	0.802	80.2	1.4	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0565	113	0.0500	0.0560	112	<1	75-125	<20

QC Batch No: 082517OB2; Dup or Spiked Sample: 89104.32HGA; LCS: Clean Sand; QC Prepared: 08/25/2017; QC Analyzed: 08/26/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.814	81.4	1.00	0.837	83.7	2.8	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0555	111	0.0500	0.0560	112	<1	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082917OB1; LCS: Clean Sand; LCS Prepared: 08/29/2017; LCS Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.970	97.2	1.00	0.900	89.5	8.25	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0565	113	0.0500	0.0550	110	2.65	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017OB1; Dup or Spiked Sample: 89162.04AGA; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.810	81.0	1.00	0.820	81.9	1.10	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0550	110	0.0500	0.0559	112	1.82	75-125	<20

QC Batch No: 083017OB1; Dup or Spiked Sample: 89162.04AGA; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.860	85.7	1.00	0.850	85.0	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0546	109	0.0500	0.0562	112	2.75	75-125	<20	

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Site

Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-1; Dup or Spiked Sample: 89104.32; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	15.7	14.7	6.6	<20						

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Wilmington Marine Service

Page: 90

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89104	08/23/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082817-2; Dup or Spiked Sample: 89104.32; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	15.7	14.7	6.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages 14
Date Received 08/24/2017
Date Reported 09/01/2017

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Job Number	Order Date	Client
89124	08/24/2017	T/T

Project ID: T73479.17
Project Name: Wilmington Marine Service
Site: Wilmington Marine Service

Enclosed please find results of analyses of 4 soil and 1 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

102272

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Marlyn O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd Pasadena CA 91107
PHONE: 626-440-240
FAX:
PROJECT NAME: Wilmington Marine Service
PROJECT #: 773479.17
SITE NAME AND ADDRESS:
PO #:

AETL JOB No. 89124

Page 1 of 1

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCBs 8082	Soxhlet	TPH 24 Extract	6010	TEST INSTRUCTIONS & COMMENTS
S1-1	89124.01	8-24-17	0602	S	1		X	X			Te EDD
S1-3	89124.02		0605	S	1		X	X			
S2-1	89124.03		0609	S	1		X	X			
S2-3	89124.04		0611	S	1		X	X			
F-1	89124.05	8-24-17	0734	Paint	1		X	X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY: SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Carter	Printed Name:	Printed Name: C. Rodriguez
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: Marlon Parker	Printed Name:	Printed Name:
Date: 8/24/17 Time: 1604	Date: Time:	Date: 08/24/17 Time: 1850

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

ED_004566_00003134-00104

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COOLER RECEIPT FORM

Client Name: TetraTech
Project Name:
AETL Job Number: 89124
Date Received: 08/24/17 Received by: Artin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
✓ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/24/2017
Date Reported 09/01/2017

Job Number	Order Date	Client
89124	08/24/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 5 samples with the following specification on 08/24/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89124.01	S1-1	08/24/2017	Soil	1
89124.02	S1-3	08/24/2017	Soil	1
89124.03	S2-1	08/24/2017	Soil	1
89124.04	S2-3	08/24/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	08/31/2017	2	Normal	mg/Kg
(8082)	08/31/2017	2	Normal	ug/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89124.05	F-1	08/24/2017	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	08/31/2017	2	Normal	mg/Kg
(8082)	08/31/2017	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2A

Our Lab I.D.			Method Blank	**89124.01**	**89124.02**		
Client Sample I.D.				S1-1	S1-3		
Date Sampled				08/24/2017	08/24/2017		
Date Prepared			08/28/2017	08/28/2017	08/28/2017		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			08/29/2017	08/29/2017	08/29/2017		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	760	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	324	938		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND		
Our Lab I.D.			Method Blank	**89124.01**	**89124.02**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		144	88.9	71.0		
Tetrachloro-m-xylene	30-150		110	112	134		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2A

Our Lab I.D.			**89124.03**
Client Sample I.D.			S2-1
Date Sampled			08/24/2017
Date Prepared			08/28/2017
Preparation Method			3540C
Date Analyzed			08/29/2017
Matrix			Soil
Units			ug/Kg
Dilution Factor			5
Analytes	**MDL**	**PQL**	**Results**
Aroclor-1016 (PCB-1016)	125	250	ND
Aroclor-1221 (PCB-1221)	125	250	ND
Aroclor-1232 (PCB-1232)	125	250	ND
Aroclor-1242 (PCB-1242)	125	250	ND
Aroclor-1248 (PCB-1248)	125	250	9,960
Aroclor-1254 (PCB-1254)	125	250	2,510
Aroclor-1260 (PCB-1260)	125	250	ND
Aroclor-1262 (PCB-1262)	125	250	ND
Aroclor-1268 (PCB-1268)	125	250	ND
Our Lab I.D.			**89124.03**
Surrogates	**%Rec.Limit**		**% Rec.**
Decachlorobiphenyl	30-150		127
Tetrachloro-m-xylene	30-150		104

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2A

Our Lab I.D.			**89124.04**
Client Sample I.D.			S2-3
Date Sampled			08/24/2017
Date Prepared			08/28/2017
Preparation Method			3540C
Date Analyzed			08/29/2017
Matrix			Soil
Units			ug/Kg
Dilution Factor			10
Analytes	**MDL**	**PQL**	**Results**
Aroclor-1016 (PCB-1016)	250	500	ND
Aroclor-1221 (PCB-1221)	250	500	ND
Aroclor-1232 (PCB-1232)	250	500	ND
Aroclor-1242 (PCB-1242)	250	500	ND
Aroclor-1248 (PCB-1248)	250	500	10,500
Aroclor-1254 (PCB-1254)	250	500	3,630
Aroclor-1260 (PCB-1260)	250	500	ND
Aroclor-1262 (PCB-1262)	250	500	ND
Aroclor-1268 (PCB-1268)	250	500	ND
Our Lab I.D.			**89124.04**
Surrogates	**%Rec.Limit**		**% Rec.**
Decachlorobiphenyl	30-150		72.6
Tetrachloro-m-xylene	30-150		78.4

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2B

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/28/2017				
Preparation Method			3540C				
Date Analyzed			08/29/2017				
Matrix			Solid				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		144				
Tetrachloro-m-xylene	30-150		110				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2B

Our Lab I.D.			**89124.05**				
Client Sample I.D.			F-1				
Date Sampled			08/24/2017				
Date Prepared			08/28/2017				
Preparation Method			3540C				
Date Analyzed			08/29/2017				
Matrix			Solid				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	1,540				
Aroclor-1254 (PCB-1254)	125	250	1,550				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				
Our Lab I.D.			**89124.05**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		110				
Tetrachloro-m-xylene	30-150		116				

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Site

Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C7A

Our Lab I.D.			Method Blank	89124.01	89124.02	89124.03	89124.04
Client Sample I.D.				S1-1	S1-3	S2-1	S2-3
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	27.1	5.00	14.4	25.8
Barium	2.5	5.0	ND	114	579	75.6	78.3
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	16.3	40.3	29.6	56.9
Cobalt	2.5	5.0	ND	4.60J	26.7	2.81J	5.56
Copper	2.5	5.0	ND	1,410	4,870	3,020	10,600
Lead	2.5	5.0	ND	1,210	12,400	275	590
Mercury (By EPA 7471)	0.1	0.2	ND	16.9	19.1	15.3	9.78
Molybdenum	2.5	5.0	ND	4.97J	10.2	3.88J	10.3
Nickel	2.5	5.0	ND	11.4	44.4	12.9	20.0
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	17.3	ND	18.1	16.3
Zinc	2.5	5.0	ND	552	3,150	530	1,280

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C7B

Our Lab I.D.			Method Blank	89124.05			
Client Sample I.D.				F-1			
Date Sampled				08/24/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			3050B	3050B			
Date Analyzed			08/30/2017	08/30/2017			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	ND	15.0			
Barium	2.5	5.0	ND	138			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	ND	43.0			
Cobalt	2.5	5.0	ND	5.53			
Copper	2.5	5.0	ND	4,770			
Lead	2.5	5.0	ND	319			
Mercury (By EPA 7471)	0.1	0.2	ND	0.693			
Molybdenum	2.5	5.0	ND	5.50			
Nickel	2.5	5.0	ND	29.3			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	1.0	5.0	ND	ND			
Vanadium	2.5	5.0	ND	17.4			
Zinc	2.5	5.0	ND	495			

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QUALITY CONTROL RESULTS

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Site

Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C7A; Dup or Spiked Sample: 89124.01; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	45.0	90.0	50.0	44.6	89.2	<1	75-125	<15
Arsenic	27.1	50.0	71.3	88.4	50.0	69.3	84.4	4.6	75-125	<15
Barium	114	50.0	166	104	50.0	162	96.0	8.0	75-125	<15
Beryllium	0.00	50.0	46.5	93.0	50.0	47.2	94.4	1.5	75-125	<15
Cadmium	0.00	50.0	44.7	89.4	50.0	44.2	88.4	1.1	75-125	<15
Chromium	16.3	50.0	61.8	91.0	50.0	61.1	89.6	1.6	75-125	<15
Cobalt	4.60	50.0	46.5	83.8	50.0	46.1	83.0	<1	75-125	<15
Copper	1,100	50.0	1,340 M	476	50.0	1,360 M	516	8.1	75-125	<15
Lead	832	50.0	630 M	-404.0	50.0	617 M	-430.0	<1	75-125	<15
Mercury (By EPA 7471)	16.9	0.500	17.4	107	0.500	17.4	109	1.9	75-125	<15
Molybdenum	4.97	50.0	46.0	82.1	50.0	45.4	80.9	1.5	75-125	<15
Nickel	11.4	50.0	52.9	83.0	50.0	52.2	81.6	1.7	75-125	<15
Selenium	0.00	50.0	31.7 M	63.4	50.0	31.5 M	63.0	<1	75-125	<15
Silver	0.00	50.0	43.4	86.8	50.0	42.5	85.0	2.1	75-125	<15
Thallium	0.00	50.0	34.9 M	69.8	50.0	35.2 M	70.4	<1	75-125	<15
Vanadium	17.3	50.0	61.6	88.6	50.0	60.4	86.2	2.7	75-125	<15
Zinc	405	50.0	436 M	62.0	50.0	428 M	46.0	29.6	75-125	<15

QC Batch No: 0829172C7A; Dup or Spiked Sample: 89124.01; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	49.9	99.8	50.0	50.5	101	1.2	75-125	<15	
Arsenic	50.0	49.6	99.2	50.0	50.5	101	1.8	75-125	<15	
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	55.0	110	50.0	55.0	110	<1	75-125	<15	
Cadmium	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Chromium	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Cobalt	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15	
Copper	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Lead	50.0	48.5	97.0	50.0	49.2	98.4	1.4	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C7A; Dup or Spiked Sample: 89124.01; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.575	115	0.500	0.595	119	3.4	75-125	<15	
Molybdenum	50.0	49.3	98.6	50.0	49.6	99.2	<1	75-125	<15	
Nickel	50.0	49.3	98.6	50.0	50.0	100	1.4	75-125	<15	
Selenium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Silver	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Thallium	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Vanadium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Zinc	50.0	53.5	107	50.0	54.0	108	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 11

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2A; Dup or Spiked Sample: 89129.05; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	454	90.8	500	590	118	26.1	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	380	76.0	500	412	82.4	8.1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	40.0	80.0	50.0	46.0	92.0	14.0	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	51.0	102	50.0	51.0	102	<1	30-150	<20

QC Batch No: 082817-2A; Dup or Spiked Sample: 89129.05; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	570	114	500	442	88.4	25.3	50-150	<20	
Aroclor-1260 (PCB-1260)	500	434	86.8	500	447	89.4	3.0	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	52.0	104	50.0	48.0	96.0	8.0	30-150	<20	
Tetrachloro-m-xylene	50.0	62.0	124	50.0	62.0	124	<1	30-150	<20	

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QUALITY CONTROL RESULTS

Ordered By

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Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 12

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C7B; Dup or Spiked Sample: 89124.01; LCS: Blank; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	45.0	90.0	50.0	44.6	89.2	<1	75-125	<15
Arsenic	27.1	50.0	71.3	88.4	50.0	69.3	84.4	4.6	75-125	<15
Barium	114	50.0	166	104	50.0	162	96.0	8.0	75-125	<15
Beryllium	0.00	50.0	46.5	93.0	50.0	47.2	94.4	1.5	75-125	<15
Cadmium	0.00	50.0	44.7	89.4	50.0	44.2	88.4	1.1	75-125	<15
Chromium	16.3	50.0	61.8	91.0	50.0	61.1	89.6	1.6	75-125	<15
Cobalt	4.60	50.0	46.5	83.8	50.0	46.1	83.0	<1	75-125	<15
Copper	1,100	50.0	1,340 #	476	50.0	1,360 #	516	8.1	75-125	<15
Lead	832	50.0	630 #	-404.0	50.0	617 #	-430.0	<1	75-125	<15
Mercury (By EPA 7471)	16.9	0.500	17.4	107	0.500	17.4	109	1.9	75-125	<15
Molybdenum	4.97	50.0	46.0	82.1	50.0	45.4	80.9	1.5	75-125	<15
Nickel	11.4	50.0	52.9	83.0	50.0	52.2	81.6	1.7	75-125	<15
Selenium	0.00	50.0	31.7 #	63.4	50.0	31.5 #	63.0	<1	75-125	<15
Silver	0.00	50.0	43.4	86.8	50.0	42.5	85.0	2.1	75-125	<15
Thallium	0.00	50.0	34.9 #	69.8	50.0	35.2 #	70.4	<1	75-125	<15
Vanadium	17.3	50.0	61.6	88.6	50.0	60.4	86.2	2.7	75-125	<15
Zinc	405	50.0	436 #	62.0	50.0	428 #	46.0	29.6	75-125	<15

QC Batch No: 0829172C7B; Dup or Spiked Sample: 89124.01; LCS: Blank; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	49.9	99.8	50.0	50.5	101	1.2	75-125	<15	
Arsenic	50.0	49.6	99.2	50.0	50.5	101	1.8	75-125	<15	
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	55.0	110	50.0	55.0	110	<1	75-125	<15	
Cadmium	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Chromium	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Cobalt	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15	
Copper	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Lead	50.0	48.5	97.0	50.0	49.2	98.4	1.4	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C7B; Dup or Spiked Sample: 89124.01; LCS: Blank; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.575	115	0.500	0.595	119	3.4	75-125	<15	
Molybdenum	50.0	49.3	98.6	50.0	49.6	99.2	<1	75-125	<15	
Nickel	50.0	49.3	98.6	50.0	50.0	100	1.4	75-125	<15	
Selenium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Silver	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Thallium	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Vanadium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Zinc	50.0	53.5	107	50.0	54.0	108	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 14

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89124	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2B; Dup or Spiked Sample: 89129.05; LCS: Blank; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	454	90.8	500	590	118	26.1	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	380	76.0	500	412	82.4	8.1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	40.0	80.0	50.0	46.0	92.0	14.0	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	51.0	102	50.0	51.0	102	<1	30-150	<20

QC Batch No: 082817-2B; Dup or Spiked Sample: 89129.05; LCS: Blank; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	570	114	500	442	88.4	25.3	50-150	<20	
Aroclor-1260 (PCB-1260)	500	434	86.8	500	447	89.4	3.0	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	52.0	104	50.0	48.0	96.0	8.0	30-150	<20	
Tetrachloro-m-xylene	50.0	62.0	124	50.0	62.0	124	<1	30-150	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Number of Pages 69
Date Received 08/24/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89125	08/24/2017	T/T

Project ID: T73479.17
Project Name: Wilmington Marine Service
Site: Wilmington Marine Service

Enclosed please find results of analyses of 27 soil and 4 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

102267

AETL JOB No. 89125

COMPANY: Retra Tech
PROJECT MANAGER: Eric Nelson / Macky O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Service
PROJECT #: T73479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH Mg (C9-C22) 8015	TPH Dsl (C13-C40) 8015	Title 22 Metals 6010 / 7471 Mercury	VOCs + Oxygenates 8260B	SVOCs 8270	PCBs 8082 Soxhlet				TEST INSTRUCTIONS & COMMENTS
TB0804-2017	89125.01	8-24-17	0715	S	4		X	X	X	X						TE-standard EPA VOCs + TPHgas 3day TAT Rest normal TAT BLANK = Hold
TE-WMS-16-0.5	89125.02		0738	S	5		X	X	X	X						
TE-WMS-16-2.0	89125.03		0743	S	5		X	X	X	X						
TE-WMS-16-2.0D	89125.04		0747	S	5		X	X	X	X						
TE-WMS-16-5.0	89125.05		0752	S	5											HOLD SAMPLE, PENDING
TE-WMS-16-10.0	89125.06		0759	S	5											HOLD SAMPLE, PENDING
TE-WMS-17-0.5	89125.07		0808	S	5		X	X	X	X						
TE-WMS-17-2.0	89125.08		0813	S	5		X	X	X	X						
TE-WMS-17-5.0	89125.09		0818	S	5											HOLD SAMPLE, PENDING
TE-WMS-17-10.0	89125.10		0825	S	5											HOLD SAMPLE, PENDING
TE-WMS-8-0.5	89125.11		0836	S	5		X	X	X	X						MS/MSD
TE-WMS-8-2.0	89125.12		0841	S	10		X	X	X	X						MS/MSD
TE-WMS-8-5.0	89125.13		0847	S	5											HOLD SAMPLE, PENDING
TE-WMS-8-10.0	89125.14		0855	S	5											HOLD SAMPLE, PENDING
TE-WMS-4-0.5	89125.15		0902	S	5		X	X	X	X						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	79	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME	DATA DELIVERABLE REQUIRED
☑ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS	☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fletcher	Printed Name:	Printed Name: C. Ramirez
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: Charlton Ramirez	Printed Name:	Printed Name:
Date: 8/24/17 Time: 1604	Date: Time:	Date: 08/24/17 Time: 1850

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102274

COMPANY: Tetra tech
PROJECT MANAGER: Erie Nelson, Hadyn Odonnell
COMPANY ADDRESS: 3475 E Foothill, Pasadena, CA 91107
PHONE: 626-351-4664
FAX:
PROJECT NAME: Wilmington Marine Service
PROJECT #: 73429.17
SITE NAME AND ADDRESS: Fries Ave, Wilmington, CA
PO #:
AETL JOB No. 89125
Page 2 of 4

ANALYSIS REQUESTED: TPH(g) C4-C12 8015; TPH(d) C13-C40 8015; Title 22 Metals 6010 17471 INCLUDE Hexavalent Chromium; VOCs 8260 Full Scan; SVOCs 8270 Full Scan; PCBs 8082 Soxhlet

TEST INSTRUCTIONS & COMMENTS: STANDARD TR EDD VOCs + OXY and TPH(g) require 3 day TAT The rest is normal TAT Blank = Hold

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH(g) C4-C12 8015	TPH(d) C13-C40 8015	Title 22 Metals 6010 17471 INCLUDE Hexavalent Chromium	VOCs 8260 Full Scan	SVOCs 8270 Soxhlet	PCBs 8082 Soxhlet				
TR-WMS-4-0	2089125.16	8-24-17	0906	S	5		X	X	X	X						
" TR-WMS-4-2.0	089125.17		0911	S	5		X	X	X	X						
" TR-WMS-4-5.0	89125.18		0915	S	5											
" TR-WMS-4-10.0	89125.19		0921	S	5											
" TR-WMS-40-0.5	89125.20		0935	S	5		X	X	X	X						
" TR-WMS-40-2.0	89125.21		0938	S	5		X	X	X	X						
TR-WMS-40-5.0	89125.22		0943	S	5											
" TR-WMS-40-10.0	89125.23		0950	S	5											
" TR-WMS-5-0.5	89125.24		1000	S	5		X	X	X	X						
" TR-WMS-5-2.0	89125.25		1005	S	5		X	X	X	X						
" TR-WMS-5-5.0	89125.26		1010	S	5											
" TR-WMS-5-10.0	89125.27		1016	S	5											
" TR-WMS-6-0.5	89125.28		1029	S	5		X	X	X	X						
" TR-WMS-6-2.0	89125.29		1034	S	5		X	X	X	X						
" TR-WMS-6-20.0	89125.30		1038	S	5		X	X	X	X						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	75	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND (Y) / N		SAMPLES ACCEPTED (Y) / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fletcher	Printed Name:	Printed Name: C Hamilton
Date: 8-24-17 Time: 1600	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Hamilton Rodriguez	Printed Name:	Printed Name: Austin
Date: 8/24/17 Time: 1604	Date: Time:	Date: 08/24/17 Time: 1850

TURN AROUND TIME: ☑ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102273

AETL JOB No. 89125

COMPANY: Tetra tech
PROJECT MANAGER: Maclyn Odonnell, Eric Nelson
COMPANY ADDRESS: 3475 E Foothill, Pasadena, CA 91107
PHONE / FAX: 626-351-4664
PROJECT NAME: Wilmington Marine Services
PROJECT #: 73479.17
SITE NAME AND ADDRESS: Fries Ave, Wilmington, CA
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C_4-C_{12}) BOIS	TPHd (C_{13}-C_{40}) BOIS	Title 22 Metals 6010/7471	Moisture Percent	VOCs + Oxygenates 8260B	SVOCs	PCBs 8082 Soxhlet				TEST INSTRUCTIONS & COMMENTS
1 Tt-WMS-6-5.0	89125.31	8-24-17	1045	S	5												STANDARD Tt EDD VOCs + oxy and TPH(g) require 3 days TAT, The rest is normal TAT Blank = Hold
2 Tt-WMS-6-10.0	89125.32		1053	S	5												
3 Tt-WMS-7-0.5	89125.33		1207	S	5		X	X	X	X							
4 Tt-WMS-7-2.0	89125.34		1218	S	10		X	X	X	X							MS/MSD
5 Tt-MWS-7-6.0	89125.35		1230	S	5												
6 Tt-WMS-7-10.0	89125.36		1235	S	5												
7 Tt-WMS-18-0.5	89125.37		1255	S	5		X	X	X	X							
8 Tt-WMS-18-2.0	89125.38		1300	S	5		X	X	X	X							
9 Tt-WMS-18-5.0	89125.39		1305	S	5												
10 Tt-WMS-18-10.0	89125.40		1313	S	5												
11 Tt-WMS-21-0.5	89125.41		1323	S	5		X	X	X	X							
12 Tt-WMS-21-2.0	89125.42		1328	S	5		X	X	X	X							
13 Tt-WMS-21-2.0D	89125.43		1332	S	5		X	X	X	X							
14 Tt-WMS-21-5.0	89125.44		1339	S	5												
15 Tt-WMS-21-10.0	89125.45		1346	S	5												

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	80	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: ☐ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☑ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fulcher	Printed Name:	Printed Name: C. Pagnilao
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: CHARLYN PAGNILAO	Printed Name:	Printed Name: Antin
Date: 8/24/17 Time: 1604	Date: Time:	Date: 08/24/17 Time: 1850

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102275

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Madyn O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Services
PROJECT #: 773479-17
SITE NAME AND ADDRESS:
PO #:

AETL JOB No. 89125

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH(C4-C12) 8015	TPH(C13-C40) 8015	TTLC 22 metals Gold (EGT) MOISTURE Present	VOCs + Oxygenates 8260B	SVOCs	PCBs 8082 Soil/Liquid	TTLC 22 metals Q 25 ml/oil			TEST INSTRUCTIONS & COMMENTS
Tt-WMS-19-0.5	10	8/24/17	1359	S	5											STANDARD Tt EDD VOCs+Oxy and TPH(g) requires 3 day TAT reso is normal TAT Blank = Hold
Tt-WMS-20-0.5	0.5		1411	S	5		X	X	X	X	X	X				89125 .46
Tt-WMS-20-0.5	0.5D		1415	S	5		X	X	X	X	X	X				89125 .47
Tt-WMS-20-2.0			1420	S	5											89125 .48
Tt-WMS-20-5.0			1425	S	5											89125 .49
Tt-WMS-20-10.0			1431	S	5											89125 .50
Tt-WMS-9			1445	W	7		X	X		X	X	X				89125 .51
Tt-WMS-13			1530	W	7		X	X		X	X	X				89125 .52
EBOD 242017			1545	W	5		X	X		X						89125 .53
Tt-WMS-																89125 .54
Tt-WMS-																
Tt-WMS-																
Tt-WMS-																
Tt-WMS-																
Tt-WMS-																

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	49	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fletcher	Printed Name:	Printed Name:
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: MADYLON PRAMILLO	Printed Name:	Printed Name:
Date: 8/24/17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850

TURN AROUND TIME: ☐ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: TetraTech
Project Name:
AETL Job Number: 89125
Date Received: 08/24/17 Received by: Amin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (4) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.2°C, No 2: 3.2°C, No 3: 3.4°C No 4: 3.2°C
Type of sample containers: ☒ VOA, ☒ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles,
☐ Metal sleeves, ☐ Others (Specify): 52x 5035 kits
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, ☒ MeOH
_ Other (Specify): $NaHSO_4H_2O$

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/24/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89125	08/24/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 54 samples with the following specification on 08/24/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89125.01	TB08242017	08/24/2017	Aqueous	4

Method ^ Submethod	Req Date	Priority	TAT	Units
8260B ^ PLUS OXYGE	08/31/2017	2	Normal	ug/L
M8015G	08/31/2017	2	Normal	mg/L

89125.52	Tt-WMS9	08/24/2017	Aqueous	7
89125.53	Tt-WMS13	08/24/2017	Aqueous	7

Method ^ Submethod	Req Date	Priority	TAT	Units
6010/7000CAM	08/31/2017	2	Normal	mg/L
8082	08/31/2017	2	Normal	ug/L
8260B ^ PLUS OXYGE	08/31/2017	2	Normal	ug/L
M8015D ^ C13-C40	08/31/2017	2	Normal	mg/L
M8015G	08/31/2017	2	Normal	mg/L

89125.54	EB08242017	08/24/2017	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
8260B ^ PLUS OXYGE	08/31/2017	2	Normal	ug/L
M8015D ^ C13-C40	08/31/2017	2	Normal	mg/L
M8015G	08/31/2017	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89125.02	Tt-WMS16-0.5	08/24/2017	Soil	5
89125.03	Tt-WMS16-2.0	08/24/2017	Soil	5
89125.04	Tt-WMS16-2.0D	08/24/2017	Soil	5
89125.07	Tt-WMS17-0.5	08/24/2017	Soil	5
89125.08	Tt-WMS17-2.0	08/24/2017	Soil	5
89125.11	Tt-WMS8-0.5	08/24/2017	Soil	5
89125.12	Tt-WMS8-2.0	08/24/2017	Soil	5
89125.15	Tt-WMS4-0.5	08/24/2017	Soil	5

Continued

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Date Received 08/24/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89125	08/24/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

89125.16	Tt-WMS4-2.0	08/24/2017	Soil	5
89125.17	Tt-WMS4-2.0D	08/24/2017	Soil	5
89125.20	Tt-WMS40-0.5	08/24/2017	Soil	5
89125.21	Tt-WMS40-2.0	08/24/2017	Soil	5
89125.24	Tt-WMS5-0.5	08/24/2017	Soil	5
89125.25	Tt-WMS5-2.0	08/24/2017	Soil	5
89125.29	Tt-WMS6-2.0	08/24/2017	Soil	5
89125.30	Tt-WMS6-2.0D	08/24/2017	Soil	5
89125.33	Tt-WMS7-0.5	08/24/2017	Soil	5
89125.34	Tt-WMS7-2.0	08/24/2017	Soil	10
89125.37	Tt-WMS18-0.5	08/24/2017	Soil	10
89125.38	Tt-WMS18-2.0	08/24/2017	Soil	10
89125.41	Tt-WMS21-0.5	08/24/2017	Soil	10
89125.42	Tt-WMS21-2.0	08/24/2017	Soil	10
89125.43	Tt-WMS21-2.0D	08/24/2017	Soil	10

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6010B/7000CAM)	08/31/2017	2	Normal	mg/Kg
(M8015D) ^ C13-C40	08/31/2017	2	Normal	mg/Kg
(M8015G)	08/31/2017	2	Normal	mg/Kg
ASTM-D2216	08/31/2017	2	Normal	% wt

89125.05	Tt-WMS16-5.0	08/24/2017	Soil	5
89125.06	Tt-WMS16-10.0	08/24/2017	Soil	5
89125.09	Tt-WMS17-5.0	08/24/2017	Soil	5
89125.10	Tt-WMS17-10.0	08/24/2017	Soil	5
89125.13	Tt-WMS8-5.0	08/24/2017	Soil	5
89125.14	Tt-WMS8-10.0	08/24/2017	Soil	5
89125.18	Tt-WMS4-5.0	08/24/2017	Soil	5
89125.19	Tt-WMS4-10.0	08/24/2017	Soil	5
89125.22	Tt-WMS40-5.0	08/24/2017	Soil	5

Continued

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3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/24/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89125	08/24/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

89125.23	Tt-WMS40-10.0	08/24/2017	Soil	5
89125.26	Tt-WMS5-5.0	08/24/2017	Soil	5
89125.27	Tt-WMS5-10.0	08/24/2017	Soil	5
89125.31	Tt-WMS6-5.0	08/24/2017	Soil	5
89125.32	Tt-WMS6-10.0	08/24/2017	Soil	5
89125.35	Tt-WMS7-6.0	08/24/2017	Soil	5
89125.36	Tt-WMS7-10.0	08/24/2017	Soil	5
89125.39	Tt-WMS18-5.0	08/24/2017	Soil	5
89125.40	Tt-WMS18-10.0	08/24/2017	Soil	5
89125.44	Tt-WMS21-5.0	08/24/2017	Soil	5
89125.45	Tt-WMS21-10.0	08/24/2017	Soil	5
89125.46	Tt-WMS19-10.0	08/24/2017	Soil	5
89125.49	Tt-WMS20-2.0	08/24/2017	Soil	5
89125.50	Tt-WMS20-5.0	08/24/2017	Soil	5
89125.51	Tt-WMS20-10.0	08/24/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	08/31/2017	2	Normal	--

89125.28	Tt-WMS6-0.5	08/24/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	08/31/2017	2	Normal	mg/Kg
(8260B) ^ +OXY5035	08/31/2017	2	Normal	ug/Kg
(M8015D) ^ C13-C40	08/31/2017	2	Normal	mg/Kg
(M8015G)	08/31/2017	2	Normal	mg/Kg
ASTM-D2216	08/31/2017	2	Normal	% wt

89125.47	Tt-WMS20-0.5	08/24/2017	Soil	10
89125.48	Tt-WMS20-0.5D	08/24/2017	Soil	10

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	08/31/2017	2	Normal	mg/Kg
(8082)	08/31/2017	2	Normal	ug/Kg
(8260B) ^ +OXY5035	08/31/2017	2	Normal	ug/Kg
(M8015D) ^ C13-C40	08/31/2017	2	Normal	mg/Kg

Continued

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Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/24/2017
Date Reported 09/05/2017

Job Number	Order Date	Client
89125	08/24/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

89125.48 Tt-WMS20-0.5D 08/24/2017 Soil 10

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015G)	08/31/2017	2	Normal	mg/Kg
ASTM-D2216	08/31/2017	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

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Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell
Page: 2

Site

Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			Method Blank	89125.28			
Client Sample I.D.				Tt-WMS6-0.5			
Date Sampled				08/24/2017			
Date Prepared			08/25/2017	08/24/2017			
Preparation Method			5030	5035A			
Date Analyzed			08/25/2017	08/26/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	25	50	ND	ND			
Benzene	1.0	10.0	ND	ND			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND			
Bromochloromethane	5.0	10.0	ND	ND			
Bromodichloromethane	5.0	10.0	ND	ND			
Bromoform (Tribromomethane)	25	50	ND	ND			
Bromomethane (Methyl bromide)	15	30	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
n-Butylbenzene	5.0	10.0	ND	ND			
sec-Butylbenzene	5.0	10.0	ND	ND			
tert-Butylbenzene	5.0	10.0	ND	ND			
Carbon Disulfide	25	50	ND	ND			
Carbon tetrachloride	5.0	10.0	ND	ND			
Chlorobenzene	5.0	10.0	ND	ND			
Chloroethane	15	30	ND	ND			
2-Chloroethyl vinyl ether	50	50	ND	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND	ND			
Chloromethane (Methyl chloride)	15	30	ND	ND			
2-Chlorotoluene	5.0	10.0	ND	ND			
4-Chlorotoluene	5.0	10.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND			
Dibromochloromethane	5.0	10.0	ND	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND			
Dibromomethane	5.0	10.0	ND	ND			
1,2-Dichlorobenzene	5.0	10.0	ND	ND			
1,3-Dichlorobenzene	5.0	10.0	ND	ND			
1,4-Dichlorobenzene	5.0	10.0	ND	ND			
Dichlorodifluoromethane	15	30	ND	ND			

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ANALYTICAL RESULTS

Page: 3

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			Method Blank	89125.28			
Client Sample I.D.				Tt-WMS6-0.5			
Date Sampled				08/24/2017			
Date Prepared			08/25/2017	08/24/2017			
Preparation Method			5030	5035A			
Date Analyzed			08/25/2017	08/26/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			Method Blank	**89125.28**			
Client Sample I.D.				Tt-WMS6-0.5			
Date Sampled				08/24/2017			
Date Prepared			08/25/2017	08/24/2017			
Preparation Method			5030	5035A			
Date Analyzed			08/25/2017	08/26/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
tert-Butyl alcohol (TBA)	20	500	ND	ND			
Diisopropyl ether (DIPE)	2.0	10.0	ND	ND			
Ethyl alcohol (Ethanol)	100	500	ND	ND			
Ethyl-tert-butyl ether (ETBE)	2.0	10.0	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
tert-Amyl methyl ether (TAME)	2.0	10.0	ND	ND			
Our Lab I.D.			Method Blank	**89125.28**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		83.0	93.0			
Dibromofluoromethane	75-125		107	113			
Toluene-d8	75-125		101	98.8			

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Wilmington Marine Service

Page: 5

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829172A1

Our Lab I.D.			Method Blank	89125.47			
Client Sample I.D.				Tt-WMS20-0.5			
Date Sampled				08/24/2017			
Date Prepared			08/29/2017	08/24/2017			
Preparation Method			5030	5035A			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	25	50	ND	ND			
Benzene	1.0	10.0	ND	ND			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND			
Bromochloromethane	5.0	10.0	ND	ND			
Bromodichloromethane	5.0	10.0	ND	ND			
Bromoform (Tribromomethane)	25	50	ND	ND			
Bromomethane (Methyl bromide)	15	30	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
n-Butylbenzene	5.0	10.0	ND	ND			
sec-Butylbenzene	5.0	10.0	ND	ND			
tert-Butylbenzene	5.0	10.0	ND	ND			
Carbon Disulfide	25	50	ND	ND			
Carbon tetrachloride	5.0	10.0	ND	ND			
Chlorobenzene	5.0	10.0	ND	ND			
Chloroethane	15	30	ND	ND			
2-Chloroethyl vinyl ether	50	50	ND	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND	ND			
Chloromethane (Methyl chloride)	15	30	ND	ND			
2-Chlorotoluene	5.0	10.0	ND	ND			
4-Chlorotoluene	5.0	10.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND			
Dibromochloromethane	5.0	10.0	ND	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND			
Dibromomethane	5.0	10.0	ND	ND			
1,2-Dichlorobenzene	5.0	10.0	ND	ND			
1,3-Dichlorobenzene	5.0	10.0	ND	ND			
1,4-Dichlorobenzene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829172A1

Our Lab I.D.			Method Blank	89125.47			
Client Sample I.D.				Tt-WMS20-0.5			
Date Sampled				08/24/2017			
Date Prepared			08/29/2017	08/24/2017			
Preparation Method			5030	5035A			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	15	30	ND	ND			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829172A1

Our Lab I.D.			Method Blank	**89125.47**			
Client Sample I.D.				Tt-WMS20-0.5			
Date Sampled				08/24/2017			
Date Prepared			08/29/2017	08/24/2017			
Preparation Method			5030	5035A			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
tert-Butyl alcohol (TBA)	20	500	ND	ND			
Diisopropyl ether (DIPE)	2.0	10.0	ND	ND			
Ethyl alcohol (Ethanol)	100	500	ND	ND			
Ethyl-tert-butyl ether (ETBE)	2.0	10.0	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
tert-Amyl methyl ether (TAME)	2.0	10.0	ND	ND			
Our Lab I.D.			Method Blank	**89125.47**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		97.0	116			
Dibromofluoromethane	75-125		117	117			
Toluene-d8	75-125		101	110			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			89125.48				
Client Sample I.D.			Tt-WMS20-0.5D				
Date Sampled			08/24/2017				
Date Prepared			08/24/2017				
Preparation Method			5035A				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Acetone	25	50	ND				
Benzene	1.0	10.0	ND				
Bromobenzene (Phenyl bromide)	5.0	10.0	ND				
Bromochloromethane	5.0	10.0	ND				
Bromodichloromethane	5.0	10.0	ND				
Bromoform (Tribromomethane)	25	50	ND				
Bromomethane (Methyl bromide)	15	30	ND				
2-Butanone (MEK)	25	50	ND				
n-Butylbenzene	5.0	10.0	ND				
sec-Butylbenzene	5.0	10.0	ND				
tert-Butylbenzene	5.0	10.0	ND				
Carbon Disulfide	25	50	ND				
Carbon tetrachloride	5.0	10.0	ND				
Chlorobenzene	5.0	10.0	ND				
Chloroethane	15	30	ND				
2-Chloroethyl vinyl ether	50	50	ND				
Chloroform (Trichloromethane)	5.0	10.0	ND				
Chloromethane (Methyl chloride)	15	30	ND				
2-Chlorotoluene	5.0	10.0	ND				
4-Chlorotoluene	5.0	10.0	ND				
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND				
Dibromochloromethane	5.0	10.0	ND				
1,2-Dibromoethane (EDB)	5.0	10.0	ND				
Dibromomethane	5.0	10.0	ND				
1,2-Dichlorobenzene	5.0	10.0	ND				
1,3-Dichlorobenzene	5.0	10.0	ND				
1,4-Dichlorobenzene	5.0	10.0	ND				

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			89125.48				
Client Sample I.D.			Tt-WMS20-0.5D				
Date Sampled			08/24/2017				
Date Prepared			08/24/2017				
Preparation Method			5035A				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Dichlorodifluoromethane	15	30	ND				
1,1-Dichloroethane	5.0	10.0	ND				
1,2-Dichloroethane (EDC)	5.0	10.0	ND				
1,1-Dichloroethene	5.0	10.0	ND				
cis-1,2-Dichloroethene	5.0	10.0	ND				
trans-1,2-Dichloroethene	5.0	10.0	ND				
1,2-Dichloropropane	5.0	10.0	ND				
1,3-Dichloropropane	5.0	10.0	ND				
2,2-Dichloropropane	5.0	10.0	ND				
1,1-Dichloropropene	5.0	10.0	ND				
cis-1,3-Dichloropropene	5.0	10.0	ND				
trans-1,3-Dichloropropene	5.0	10.0	ND				
Ethylbenzene	1.0	10.0	ND				
Hexachlorobutadiene	15	30	ND				
2-Hexanone	25	50	ND				
Isopropylbenzene	5.0	10.0	ND				
p-Isopropyltoluene	5.0	10.0	ND				
4-Methyl-2-pentanone (MIBK)	25	50	ND				
Methylene chloride (DCM)	25	50	ND				
Naphthalene	5.0	10.0	ND				
n-Propylbenzene	5.0	10.0	ND				
Styrene	5.0	10.0	ND				
1,1,1,2-Tetrachloroethane	5.0	10.0	ND				
1,1,2,2-Tetrachloroethane	5.0	10.0	ND				
Tetrachloroethene	2.0	10.0	ND				
Toluene (Methyl benzene)	1.0	10.0	ND				
1,2,3-Trichlorobenzene	5.0	10.0	ND				
1,2,4-Trichlorobenzene	5.0	10.0	ND				
1,1,1-Trichloroethane	5.0	10.0	ND				
1,1,2-Trichloroethane	5.0	10.0	ND				
Trichloroethene	1.5	10.0	ND				
Trichlorofluoromethane	5.0	10.0	ND				
1,2,3-Trichloropropane	5.0	10.0	ND				

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ANALYTICAL RESULTS

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1

Our Lab I.D.			**89125.48**				
Client Sample I.D.			Tt-WMS20-0.5D				
Date Sampled			08/24/2017				
Date Prepared			08/24/2017				
Preparation Method			5035A				
Date Analyzed			08/26/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
1,2,4-Trimethylbenzene	5.0	10.0	ND				
1,3,5-Trimethylbenzene	5.0	10.0	ND				
Vinyl Acetate	25	50	ND				
Vinyl chloride (Chloroethene)	5.0	10.0	ND				
o-Xylene	1.0	10.0	ND				
m,p-Xylenes	1.0	20.0	ND				
tert-Butyl alcohol (TBA)	20	500	ND				
Diisopropyl ether (DIPE)	2.0	10.0	ND				
Ethyl alcohol (Ethanol)	100	500	ND				
Ethyl-tert-butyl ether (ETBE)	2.0	10.0	ND				
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND				
tert-Amyl methyl ether (TAME)	2.0	10.0	ND				
Our Lab I.D.			**89125.48**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		91.8				
Dibromofluoromethane	75-125		112				
Toluene-d8	75-125		104				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB3

Our Lab I.D.			Method Blank	**89125.02**	**89125.03**	**89125.04**	**89125.07**
Client Sample I.D.				Tt-WMS16-0.5	Tt-WMS16-2.0	Tt-WMS16-2.0D	Tt-WMS17-0.5
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/25/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			08/26/2017	08/26/2017	08/26/2017	08/27/2017	08/27/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**89125.02**	**89125.03**	**89125.04**	**89125.07**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		110	112	114	113	110

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Wilmington Marine Service

Page: 12

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB3

Our Lab I.D.			89125.08	89125.11	89125.12	89125.15	89125.16
Client Sample I.D.			Tt-WMS17-2.0	Tt-WMS8-0.5	Tt-WMS8-2.0	Tt-WMS4-0.5	Tt-WMS4-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			08/27/2017	08/27/2017	08/27/2017	08/27/2017	08/27/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			**89125.08**	**89125.11**	**89125.12**	**89125.15**	**89125.16**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		112	101	100	113	112

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB3

Our Lab I.D.			89125.17	89125.20	89125.21	89125.24	
Client Sample I.D.			Tt-WMS4-2.0 D	Tt-WMS40-0.5	Tt-WMS40-2.0	Tt-WMS5-0.5	
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	
Date Prepared			08/24/2017	08/24/2017	08/24/2017	08/24/2017	
Preparation Method			5035A	5035A	5035A	5035A	
Date Analyzed			08/27/2017	08/27/2017	08/27/2017	08/27/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	
Our Lab I.D.			**89125.17**	**89125.20**	**89125.21**	**89125.24**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		114	108	111	106	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB4

Our Lab I.D.			Method Blank	89125.25	89125.28	89125.29	89125.30
Client Sample I.D.				Tt-WMS5-2.0	Tt-WMS6-0.5	Tt-WMS6-2.0	Tt-WMS6-2.0 D
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/27/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			08/27/2017	08/27/2017	08/27/2017	08/27/2017	08/27/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89125.25	89125.28	89125.29	89125.30
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		106	116	114	110	112

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB4

Our Lab I.D.			89125.33	89125.34	89125.37	89125.38	89125.41
Client Sample I.D.			Tt-WMS7-0.5	Tt-WMS7-2.0	Tt-WMS18-0.5	Tt-WMS18-2.0	Tt-WMS21-0.5
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			08/27/2017	08/27/2017	08/27/2017	08/27/2017	08/27/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	0.123J	ND	ND	ND
Our Lab I.D.			**89125.33**	**89125.34**	**89125.37**	**89125.38**	**89125.41**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		114	108	115	113	115

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB4

Our Lab I.D.			89125.42	89125.43	89125.47	89125.48	
Client Sample I.D.			Tt-WMS21-2.0	Tt-WMS21-2.0D	Tt-WMS20-0.5	Tt-WMS20-0.5D	
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	
Date Prepared			08/24/2017	08/24/2017	08/24/2017	08/24/2017	
Preparation Method			5035A	5035A	5035A	5035A	
Date Analyzed			08/27/2017	08/27/2017	08/27/2017	08/27/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	0.132J	0.396J	
Our Lab I.D.			**89125.42**	**89125.43**	**89125.47**	**89125.48**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		115	111	106	101	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1

Our Lab I.D.			Method Blank	**89125.02**	**89125.03**	**89125.04**	**89125.07**
Client Sample I.D.				Tt-WMS16-0.5	Tt-WMS16-2.0	Tt-WMS16-2.0D	Tt-WMS17-0.5
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**89125.02**	**89125.03**	**89125.04**	**89125.07**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		98.2	103	101	101	101

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1

Our Lab I.D.			89125.08	89125.11	89125.12	89125.15	89125.16
Client Sample I.D.			Tt-WMS17-2.0	Tt-WMS8-0.5	Tt-WMS8-2.0	Tt-WMS4-0.5	Tt-WMS4-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/29/2017	08/29/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	256	212	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	1,180	992	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	1,440	1,200	ND	ND
Our Lab I.D.			**89125.08**	**89125.11**	**89125.12**	**89125.15**	**89125.16**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		99.5	99.2	97.7	99.5	101

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1

Our Lab I.D.			**89125.17**				
Client Sample I.D.			Tt-WMS4-2.0 D				
Date Sampled			08/24/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/30/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	1.0	5.0	ND				
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND				
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND				
Our Lab I.D.			**89125.17**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		98.8				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB2

Our Lab I.D.			Method Blank	**89125.20**	**89125.21**	**89125.24**	**89125.25**
Client Sample I.D.				Tt-WMS40-0.5	Tt-WMS40-2.0	Tt-WMS5-0.5	Tt-WMS5-2.0
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	8.92	ND	32.8	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	274	ND	142	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	283	ND	175	ND
Our Lab I.D.			Method Blank	**89125.20**	**89125.21**	**89125.24**	**89125.25**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		98.9	99.0	98.9	91.8	87.1

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB2

Our Lab I.D.			89125.28	89125.29	89125.30	89125.33	89125.34
Client Sample I.D.			Tt-WMS6-0.5	Tt-WMS6-2.0	Tt-WMS6-2.0 D	Tt-WMS7-0.5	Tt-WMS7-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	33.8	10.8	154	139
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	138	37.0	819	701
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	172	47.8	973	840
Our Lab I.D.			**89125.28**	**89125.29**	**89125.30**	**89125.33**	**89125.34**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		94.3	93.7	94.1	93.3	86.6

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB2

Our Lab I.D.			89125.37	89125.38	89125.41	89125.42	89125.43
Client Sample I.D.			Tt-WMS18-0.5	Tt-WMS18-2.0	Tt-WMS21-0.5	Tt-WMS21-2.0	Tt-WMS21-2.0D
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	6.12	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	6.12	ND	ND
Our Lab I.D.			**89125.37**	**89125.38**	**89125.41**	**89125.42**	**89125.43**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		94.7	94.9	97.2	93.4	92.2

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB2

Our Lab I.D.			**89125.47**				
Client Sample I.D.			Tt-WMS20-0.5				
Date Sampled			08/24/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	5	25	10,300				
TPH as Heavy Hydrocarbons (C23-C40)	5	25	7,080				
TPH Total as Diesel and Heavy HC.C13-C40	5	25	17,400				
Our Lab I.D.			**89125.47**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		84.8				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB2

Our Lab I.D.			**89125.48**				
Client Sample I.D.			Tt-WMS20-0.5D				
Date Sampled			08/24/2017				
Date Prepared			08/29/2017				
Preparation Method			3550B				
Date Analyzed			08/31/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	2.0	10	4,800				
TPH as Heavy Hydrocarbons (C23-C40)	2.0	10	3,990				
TPH Total as Diesel and Heavy HC.C13-C40	2.0	10	8,790				
Our Lab I.D.			**89125.48**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		95.1				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/28/2017				
Preparation Method			3540C				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		144				
Tetrachloro-m-xylene	30-150		110				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2

Our Lab I.D.			**89125.47**				
Client Sample I.D.			Tt-WMS20-0.5				
Date Sampled			08/24/2017				
Date Prepared			08/28/2017				
Preparation Method			3540C				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	2,610				
Aroclor-1254 (PCB-1254)	125	250	1,420				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				
Our Lab I.D.			**89125.47**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		79.0				
Tetrachloro-m-xylene	30-150		110				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2

Our Lab I.D.			**89125.48**				
Client Sample I.D.			Tt-WMS20-0.5D				
Date Sampled			08/24/2017				
Date Prepared			08/28/2017				
Preparation Method			3540C				
Date Analyzed			08/29/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	1,940				
Aroclor-1254 (PCB-1254)	25.0	50.0	480				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**89125.48**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		132				
Tetrachloro-m-xylene	30-150		129				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C8

Our Lab I.D.			Method Blank	89125.02	89125.03	89125.04	89125.07
Client Sample I.D.				Tt-WMS16-0.5	Tt-WMS16-2.0	Tt-WMS16-2.0D	Tt-WMS17-0.5
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	2.76J
Barium	2.5	5.0	ND	80.7	33.7	46.7	72.8
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	16.5	7.28	9.12	14.6
Cobalt	2.5	5.0	ND	8.90	3.75J	4.75J	7.94
Copper	2.5	5.0	ND	19.3	8.73	9.12	22.0
Lead	2.5	5.0	ND	3.53J	ND	ND	3.75J
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	ND	0.100J
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	11.8	4.83J	6.03	10.5
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	29.1	14.2	18.6	27.9
Zinc	2.5	5.0	ND	44.0	20.4	23.2	36.3

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C8

Our Lab I.D.			89125.08	89125.11	89125.12	89125.15	89125.16
Client Sample I.D.			Tt-WMS17-2.0	Tt-WMS8-0.5	Tt-WMS8-2.0	Tt-WMS4-0.5	Tt-WMS4-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	2.95J	272	18.2	ND	ND
Barium	2.5	5.0	79.4	507	454	71.3	87.6
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	25.4	37.6	12.8	14.0	18.4
Cobalt	2.5	5.0	8.30	13.5	5.74	6.97	9.02
Copper	2.5	5.0	19.2	3,310	2,700	38.4	24.7
Lead	2.5	5.0	3.75J	1,010	951	26.7	5.07
Mercury (By EPA 7471)	0.1	0.2	ND	17.1	9.76	ND	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	14.0	46.6	8.27	10.2	12.4
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	38.1	42.7	16.7	26.8	34.1
Zinc	2.5	5.0	47.1	4,690	802	117	45.4

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C8

Our Lab I.D.			89125.17				
Client Sample I.D.			Tt-WMS4-2.0 D				
Date Sampled			08/24/2017				
Date Prepared			08/29/2017				
Preparation Method			3050B				
Date Analyzed			08/30/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	1.0	5.0	ND				
Arsenic	1.0	5.0	ND				
Barium	2.5	5.0	105				
Beryllium	1.3	2.5	ND				
Cadmium	1.3	2.5	ND				
Chromium	2.5	5.0	21.1				
Cobalt	2.5	5.0	11.1				
Copper	2.5	5.0	26.1				
Lead	2.5	5.0	6.83				
Mercury (By EPA 7471)	0.1	0.2	ND				
Molybdenum	2.5	5.0	ND				
Nickel	2.5	5.0	14.6				
Selenium	1.0	5.0	ND				
Silver	2.5	5.0	ND				
Thallium	1.0	5.0	ND				
Vanadium	2.5	5.0	39.1				
Zinc	2.5	5.0	53.9				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C9

Our Lab I.D.			Method Blank	89125.20	89125.21	89125.24	89125.25
Client Sample I.D.				Tt-WMS40-0.5	Tt-WMS40-2.0	Tt-WMS5-0.5	Tt-WMS5-2.0
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	3.00J	6.59	2.80J	ND
Barium	2.5	5.0	ND	109	83.9	83.6	44.2
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	10.7	12.8	17.4	8.94
Cobalt	2.5	5.0	ND	5.08	5.16	7.88	4.41J
Copper	2.5	5.0	ND	128	41.0	147	40.2
Lead	2.5	5.0	ND	542	47.3	356	ND
Mercury (By EPA 7471)	0.1	0.2	ND	0.412	0.101J	0.566	0.113J
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	10.9	7.13	13.0	6.11
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	24.2	20.3	33.8	16.9
Zinc	2.5	5.0	ND	301	105	260	53.7

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C9

Our Lab I.D.			89125.28	89125.29	89125.30	89125.33	89125.34
Client Sample I.D.			Tt-WMS6-0.5	Tt-WMS6-2.0	Tt-WMS6-2.0 D	Tt-WMS7-0.5	Tt-WMS7-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	3.83J	ND	ND	9.65	6.89
Barium	2.5	5.0	160	78.4	203	76.9	69.6
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	16.6	14.3	18.2	14.9	14.8
Cobalt	2.5	5.0	6.38	5.37	6.31	6.09	6.62
Copper	2.5	5.0	49.4	60.3	54.0	205	52.9
Lead	2.5	5.0	1,720	62.2	76.3	53.2	22.3
Mercury (By EPA 7471)	0.1	0.2	0.225	0.424	0.281	10.2	7.78
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	10.5	10.1	10.5	10.3	11.0
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	30.1	23.7	24.6	25.0	27.6
Zinc	2.5	5.0	100	97.7	178	98.2	66.9

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C9

Our Lab I.D.			89125.37				
Client Sample I.D.			Tt-WMS18-0.5				
Date Sampled			08/24/2017				
Date Prepared			08/29/2017				
Preparation Method			3050B				
Date Analyzed			08/30/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	1.0	5.0	ND				
Arsenic	1.0	5.0	ND				
Barium	2.5	5.0	32.5				
Beryllium	1.3	2.5	ND				
Cadmium	1.3	2.5	ND				
Chromium	2.5	5.0	7.60				
Cobalt	2.5	5.0	4.02J				
Copper	2.5	5.0	8.56				
Lead	2.5	5.0	ND				
Mercury (By EPA 7471)	0.1	0.2	ND				
Molybdenum	2.5	5.0	ND				
Nickel	2.5	5.0	4.79J				
Selenium	1.0	5.0	ND				
Silver	2.5	5.0	ND				
Thallium	1.0	5.0	ND				
Vanadium	2.5	5.0	16.0				
Zinc	2.5	5.0	20.1				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C10

Our Lab I.D.			Method Blank	89125.38	89125.41	89125.42	89125.43
Client Sample I.D.				Tt-WMS18-2.0	Tt-WMS21-0.5	Tt-WMS21-2.0	Tt-WMS21-2.0D
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	ND	84.4	83.3	76.2	91.7
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	19.9	15.4	14.7	16.1
Cobalt	2.5	5.0	ND	9.27	6.50	6.84	8.05
Copper	2.5	5.0	ND	21.7	38.4	19.1	22.7
Lead	2.5	5.0	ND	3.11J	18.9	4.62J	7.37
Mercury (By EPA 7471)	0.1	0.2	ND	ND	0.298	ND	0.142J
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	13.2	10.5	9.15	11.0
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	36.5	450	161	188
Zinc	2.5	5.0	ND	46.7	110	44.0	45.1

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C10

Our Lab I.D.			89125.47	89125.48			
Client Sample I.D.			Tt-WMS20-0.5	Tt-WMS20-0.5D			
Date Sampled			08/24/2017	08/24/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			3050B	3050B			
Date Analyzed			08/30/2017	08/30/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	21.6	5.34			
Barium	2.5	5.0	262	89.5			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	90.1	8.19			
Cobalt	2.5	5.0	15.8	5.47			
Copper	2.5	5.0	53,900	84,800			
Lead	2.5	5.0	1,660	578			
Mercury (By EPA 7471)	0.1	0.2	6.25	2.67			
Molybdenum	2.5	5.0	8.60	3.91J			
Nickel	2.5	5.0	69.7	11.5			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	1.0	5.0	ND	ND			
Vanadium	2.5	5.0	4.46J	3.27J			
Zinc	2.5	5.0	1,740	1,210			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-1

Our Lab I.D.			89125.02	89125.03	89125.04	89125.07	89125.08
Client Sample I.D.			Tt-WMS16-0.5	Tt-WMS16-2.0	Tt-WMS16-2.0D	Tt-WMS17-0.5	Tt-WMS17-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	23.0	13.4	22.9	14.7	23.5

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-1

Our Lab I.D.			89125.11	89125.12	89125.15	89125.16	89125.17
Client Sample I.D.			Tt-WMS8-0.5	Tt-WMS8-2.0	Tt-WMS4-0.5	Tt-WMS4-2.0	Tt-WMS4-2.0 D
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	19.6	13.8	14.0	25.9	24.9

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-1

Our Lab I.D.			89125.20	89125.21	89125.24	89125.25	
Client Sample I.D.			Tt-WMS40-0.5	Tt-WMS40-2.0	Tt-WMS5-0.5	Tt-WMS5-2.0	
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			% wt	% wt	% wt	% wt	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Moisture Content	0.1	0.1	12.1	18.9	22.2	24.5	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-2

Our Lab I.D.			89125.28	89125.29	89125.30	89125.33	89125.34
Client Sample I.D.			Tt-WMS6-0.5	Tt-WMS6-2.0	Tt-WMS6-2.0 D	Tt-WMS7-0.5	Tt-WMS7-2.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	14.0	11.8	14.6	11.6	18.9

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-2

Our Lab I.D.			89125.37	89125.38	89125.41	89125.42	89125.43
Client Sample I.D.			Tt-WMS18-0.5	Tt-WMS18-2.0	Tt-WMS21-0.5	Tt-WMS21-2.0	Tt-WMS21-2.0D
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	10.3	23.1	13.7	10.8	16.5

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-2

Our Lab I.D.			89125.47	89125.48			
Client Sample I.D.			Tt-WMS20-0.5	Tt-WMS20-0.5D			
Date Sampled			08/24/2017	08/24/2017			
Date Prepared			08/29/2017	08/29/2017			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			08/29/2017	08/29/2017			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	7.90	7.00			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829171A2

Our Lab I.D.			Method Blank	89125.01	89125.52	89125.53	89125.54
Client Sample I.D.				TB08242017	Tt-WMS9	Tt-WMS13	EB08242017
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5030B	5030B	5030B	5030B	5030B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Acetone	10	10	ND	ND	ND	ND	ND
Benzene	0.5	1.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.5	1.0	ND	ND	ND	ND	ND
Bromochloromethane	0.5	1.0	ND	ND	ND	ND	ND
Bromodichloromethane	0.5	1.0	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	2.5	5.0	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	1.5	3.0	ND	ND	ND	ND	ND
2-Butanone (MEK)	5.0	5.0	ND	ND	ND	ND	ND
n-Butylbenzene	0.5	1.0	ND	ND	ND	ND	ND
sec-Butylbenzene	0.5	1.0	ND	ND	ND	38.4	ND
tert-Butylbenzene	0.5	1.0	ND	ND	ND	4.94	ND
Carbon Disulfide	0.5	1.0	ND	ND	ND	ND	ND
Carbon tetrachloride	0.5	1.0	ND	ND	ND	ND	ND
Chlorobenzene	0.5	1.0	ND	ND	ND	ND	ND
Chloroethane	1.5	3.0	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	2.5	5.0	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.5	1.0	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	1.5	3.0	ND	ND	ND	ND	ND
2-Chlorotoluene	0.5	1.0	ND	ND	ND	ND	ND
4-Chlorotoluene	0.5	1.0	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	2.5	5.0	ND	ND	ND	ND	ND
Dibromochloromethane	0.5	1.0	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.5	1.0	ND	ND	ND	ND	ND
Dibromomethane	0.5	1.0	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	1.5	3.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829171A2

Our Lab I.D.			Method Blank	89125.01	89125.52	89125.53	89125.54
Client Sample I.D.				TB08242017	Tt-WMS9	Tt-WMS13	EB08242017
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5030B	5030B	5030B	5030B	5030B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
1,1-Dichloroethane	0.5	1.0	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.5	1.0	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.5	1.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.5	1.0	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.5	1.0	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.5	1.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.5	1.0	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.5	1.0	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.5	1.0	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.5	1.0	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.5	1.0	ND	ND	ND	ND	ND
Ethylbenzene	0.5	1.0	ND	ND	ND	0.500J	ND
Hexachlorobutadiene	1.5	3.0	ND	ND	ND	ND	ND
2-Hexanone	2.5	5.0	ND	ND	ND	ND	ND
Iodomethane	0.5	1.0	ND	ND	ND	ND	ND
Isopropylbenzene	0.5	1.0	ND	ND	ND	277	ND
p-Isopropyltoluene	0.5	1.0	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	2.5	5.0	ND	ND	ND	ND	ND
Methylene chloride (DCM)	2.0	4.0	ND	ND	ND	ND	ND
Naphthalene	0.5	1.0	ND	ND	ND	1,300	ND
n-Propylbenzene	0.5	1.0	ND	ND	ND	34.8	ND
Styrene	0.5	1.0	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.5	1.0	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.5	1.0	ND	ND	ND	ND	ND
Tetrachloroethene	0.5	1.0	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	0.5	1.0	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.5	1.0	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.5	1.0	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.5	1.0	ND	ND	ND	ND	ND
Trichloroethene	0.5	1.0	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.5	1.0	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.5	1.0	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.5	1.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829171A2

Our Lab I.D.			Method Blank	89125.01	89125.52	89125.53	89125.54
Client Sample I.D.				TB08242017	Tt-WMS9	Tt-WMS13	EB08242017
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/29/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5030B	5030B	5030B	5030B	5030B
Date Analyzed			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
1,3,5-Trimethylbenzene	0.5	1.0	ND	ND	ND	ND	ND
Vinyl Acetate	0.5	5.0	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.5	3.0	ND	ND	ND	ND	ND
o-Xylene	0.5	1.0	ND	ND	ND	0.810J	ND
m,p-Xylenes	1.0	2.0	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	10	50	ND	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.5	1.0	ND	ND	ND	ND	ND
Ethyl alcohol (Ethanol)	250	500	ND	ND	ND	ND	ND
Ethyl-tert-butyl ether (ETBE)	0.5	1.0	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.5	1.0	ND	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	0.5	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89125.01	89125.52	89125.53	89125.54
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		116	113	112	109	115
Dibromofluoromethane	75-125		104	109	117	111	111
Toluene-d8	75-125		117	117	119	117	117

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517NB2

Our Lab I.D.			Method Blank	89125.01	89125.52	89125.53	89125.54
Client Sample I.D.				TB08242017	Tt-WMS9	Tt-WMS13	EB08242017
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			08/25/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Preparation Method			5030B	5030B	5030B	5030B	5030B
Date Analyzed			08/26/2017	08/26/2017	08/26/2017	08/26/2017	08/26/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units			mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.005	0.010	ND	ND	ND	2.89	ND
Our Lab I.D.			Method Blank	89125.01	89125.52	89125.53	89125.54
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		108	112	100	97.8	116

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 083017DB1

Our Lab I.D.			Method Blank	89125.52	89125.53	89125.54	
Client Sample I.D.				Tt-WMS9	Tt-WMS13	EB08242017	
Date Sampled				08/24/2017	08/24/2017	08/24/2017	
Date Prepared			08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Preparation Method			3510C	3510C	3510C	3510C	
Date Analyzed			08/31/2017	08/31/2017	08/31/2017	08/31/2017	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Diesel (C13-C22)	0.1	0.5	ND	ND	1.22	ND	
TPH as Heavy Hydrocarbons (C23-C40)	0.1	0.5	ND	ND	ND	ND	
TPH Total as Diesel and Heavy HC.C13-C40	0.1	0.5	ND	ND	1.22	ND	
Our Lab I.D.			Method Blank	89125.52	89125.53	89125.54	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Chlorobenzene	60-125		103	100	100	104	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 8082, Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017

Our Lab I.D.			Method Blank	89125.52	89125.53		
Client Sample I.D.				Tt-WMS9	Tt-WMS13		
Date Sampled				08/24/2017	08/24/2017		
Date Prepared			08/30/2017	08/30/2017	08/30/2017		
Preparation Method			3510C	3510C	3510C		
Date Analyzed			08/31/2017	08/31/2017	08/31/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			ug/L	ug/L	ug/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	1.00	5.00	ND	ND	ND		
Aroclor-1221 (PCB-1221)	2.00	10.00	ND	ND	ND		
Aroclor-1232 (PCB-1232)	1.00	5.00	ND	ND	ND		
Aroclor-1242 (PCB-1242)	1.00	5.00	ND	ND	ND		
Aroclor-1248 (PCB-1248)	0.25	2.50	ND	ND	ND		
Aroclor-1254 (PCB-1254)	1.00	5.00	ND	ND	ND		
Aroclor-1260 (PCB-1260)	1.00	5.00	ND	ND	ND		
Aroclor-1262 (PCB-1262)	1.00	5.00	ND	ND	ND		
Aroclor-1268 (PCB-1268)	1.00	5.00	ND	ND	ND		
Our Lab I.D.			Method Blank	89125.52	89125.53		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		142	143	130		
Tetrachloro-m-xylene	30-150		123	125	126		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 0829172C13

Our Lab I.D.			Method Blank	89125.52	89125.53		
Client Sample I.D.				Tt-WMS9	Tt-WMS13		
Date Sampled				08/24/2017	08/24/2017		
Date Prepared			08/29/2017	08/29/2017	08/29/2017		
Preparation Method			3005A	3005A	3005A		
Date Analyzed			08/30/2017	08/30/2017	08/30/2017		
Matrix			Aqueous	Aqueous	Aqueous		
Units			mg/L	mg/L	mg/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Antimony	0.05	0.10	ND	ND	ND		
Arsenic	0.05	0.10	ND	ND	ND		
Barium	0.03	0.05	ND	0.174	0.278		
Beryllium	0.01	0.05	ND	ND	ND		
Cadmium	0.01	0.05	ND	ND	ND		
Chromium	0.01	0.05	ND	0.0242J	ND		
Cobalt	0.01	0.05	ND	ND	ND		
Copper	0.01	0.05	ND	0.259	0.186		
Lead	0.05	0.10	ND	ND	ND		
Mercury (By EPA 7470)	0.001	0.002	ND	ND	ND		
Molybdenum	0.01	0.05	ND	0.0170J	ND		
Nickel	0.01	0.05	ND	0.0122J	ND		
Selenium	0.05	0.10	ND	ND	ND		
Silver	0.01	0.05	ND	ND	ND		
Thallium	0.05	0.10	ND	ND	ND		
Vanadium	0.03	0.05	ND	0.0368J	ND		
Zinc	0.01	0.05	ND	0.0510	0.0280J		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 0829172C13; Dup or Spiked Sample: 89125.52; LCS: Clean Water; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	1.00	0.978	97.8	1.00	0.994	99.4	1.6	75-125	<15
Arsenic	0.00	1.00	1.06	106	1.00	1.06	106	<1	75-125	<15
Barium	0.174	1.00	1.06	88.6	1.00	1.06	88.6	<1	75-125	<15
Beryllium	0.00	1.00	1.04	104	1.00	1.05	105	<1	75-125	<15
Cadmium	0.00	1.00	0.938	93.8	1.00	0.943	94.3	<1	75-125	<15
Chromium	0.0242	1.00	0.950	92.6	1.00	0.952	92.8	<1	75-125	<15
Cobalt	0.00	1.00	0.900	90.0	1.00	0.905	90.5	<1	75-125	<15
Copper	0.259	1.00	1.23	97.1	1.00	1.24	98.1	1.0	75-125	<15
Lead	0.00	1.00	0.819	81.9	1.00	0.835	83.5	1.9	75-125	<15
Mercury (By EPA 7470)	0.00	0.0100	0.00411	41.1	0.0100	0.00582	58.2	34.4	75-125	<15
Molybdenum	0.0170	1.00	0.903	88.6	1.00	0.909	89.2	<1	75-125	<15
Nickel	0.0122	1.00	0.844	83.2	1.00	0.847	83.5	<1	75-125	<15
Selenium	0.00	1.00	0.979	97.9	1.00	1.01	101	3.1	75-125	<15
Silver	0.00	1.00	0.975	97.5	1.00	0.980	98.0	<1	75-125	<15
Thallium	0.00	1.00	0.782	78.2	1.00	0.785	78.5	<1	75-125	<15
Vanadium	0.0368	1.00	0.955	91.8	1.00	0.957	92.0	<1	75-125	<15
Zinc	0.0510	1.00	0.914	86.3	1.00	0.912	86.1	<1	75-125	<15

QC Batch No: 0829172C13; Dup or Spiked Sample: 89125.52; LCS: Clean Water; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	1.00	1.01	101	1.00	1.02	102	<1	75-125	<15	
Arsenic	1.00	1.03	103	1.00	1.03	103	<1	75-125	<15	
Barium	1.00	0.978	97.8	1.00	0.976	97.6	<1	75-125	<15	
Beryllium	1.00	1.09	109	1.00	1.09	109	<1	75-125	<15	
Cadmium	1.00	0.996	99.6	1.00	0.992	99.2	<1	75-125	<15	
Chromium	1.00	1.01	101	1.00	1.00	100	<1	75-125	<15	
Cobalt	1.00	0.980	98.0	1.00	0.976	97.6	<1	75-125	<15	
Copper	1.00	0.992	99.2	1.00	0.991	99.1	<1	75-125	<15	
Lead	1.00	0.921	92.1	1.00	0.920	92.0	<1	75-125	<15	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 0829172C13; Dup or Spiked Sample: 89125.52; LCS: Clean Water; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7470)	0.0100	0.0103	103	0.0100	0.0104	104	<1	75-125	<15	
Molybdenum	1.00	0.963	96.3	1.00	0.960	96.0	<1	75-125	<15	
Nickel	1.00	0.918	91.8	1.00	0.915	91.5	<1	75-125	<15	
Selenium	1.00	1.04	104	1.00	1.05	105	<1	75-125	<15	
Silver	1.00	1.01	101	1.00	1.01	101	<1	75-125	<15	
Thallium	1.00	0.921	92.1	1.00	0.916	91.6	<1	75-125	<15	
Vanadium	1.00	0.988	98.8	1.00	0.987	98.7	<1	75-125	<15	
Zinc	1.00	1.00	100	1.00	0.991	99.1	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 8082, Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017; LCS: Clean Water; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	5.00	3.69	73.8	5.00	4.35	87.0	16.4	75-125	<20
Aroclor-1260 (PCB-1260)	0.00	5.00	5.40	108	5.00	4.89	97.8	9.9	75-125	<20
Surrogates										
Decachlorobiphenyl	0.00	1.00	1.49	149	1.00	1.34	134	10.6	30-150	<20
Tetrachloro-m-xylene	0.00	1.00	1.14	114	1.00	1.33	133	15.4	30-150	<20

QC Batch No: 083017; LCS: Clean Water; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	5.00	4.16	83.2	75-125						
Aroclor-1260 (PCB-1260)	5.00	5.15	103	75-125						
Surrogates										
Decachlorobiphenyl	1.00	1.45	145	30-150						
Tetrachloro-m-xylene	1.00	1.17	117	30-150						

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829171A2; LCS: Clean Water; LCS Prepared: 08/29/2017; LCS Analyzed: 08/29/2017; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	48.7	97.4	50.0	50.5	101	3.6	75-125	<20	
Carbon tetrachloride	50.0	50.5	101	50.0	50.0	100	<1	75-125	<20	
Chlorobenzene	50.0	52.5	105	50.0	54.0	108	2.8	75-125	<20	
Chloroform (Trichloromethane)	50.0	51.5	103	50.0	52.5	105	1.9	75-125	<20	
1,2-Dichlorobenzene	50.0	49.3	98.6	50.0	50.5	101	2.4	75-125	<20	
1,1-Dichloroethane	50.0	46.6	93.2	50.0	48.5	97.0	4.0	75-125	<20	
1,1-Dichloroethene	50.0	49.3	98.6	50.0	49.0	98.0	<1	75-125	<20	
cis-1,2-Dichloroethene	50.0	50.5	101	50.0	52.0	104	2.9	75-125	<20	
Ethylbenzene	50.0	53.5	107	50.0	54.5	109	1.9	75-125	<20	
n-Propylbenzene	50.0	45.9	91.8	50.0	46.5	93.0	1.3	75-125	<20	
Toluene (Methyl benzene)	50.0	52.0	104	50.0	53.5	107	2.8	75-125	<20	
1,1,1-Trichloroethane	50.0	51.0	102	50.0	50.5	101	<1	75-125	<20	
1,1,2-Trichloroethane	50.0	53.5	107	50.0	54.0	108	<1	75-125	<20	
Trichloroethene	50.0	59.0	118	50.0	61.0	122	3.3	75-125	<20	
1,2,4-Trimethylbenzene	50.0	50.0	100	50.0	51.5	103	3.0	75-125	<20	
1,3,5-Trimethylbenzene	50.0	47.0	94.0	50.0	48.0	96.0	2.1	75-125	<20	
o-Xylene	50.0	54.5	109	50.0	54.5	109	<1	75-125	<20	
m,p-Xylenes	100	106	106	100	109	109	2.8	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	54.0	108	50.0	55.0	110	1.8	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	47.9	95.7	50.0	47.2	94.3	1.5	75-125	<20	
Dibromofluoromethane	50.0	52.0	104	50.0	51.5	103	<1	75-125	<20	
Toluene-d8	50.0	56.0	112	50.0	55.5	111	<1	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 083017DB1; Dup or Spiked Sample: 0830; LCS: Clean Water; QC Prepared: 08/30/2017;MS Analyzed: 08/30/2017; LCS Analyzed: 08/31/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	5.00	5.25	105	5.00	5.45	109	3.7	75-125	<20
Surrogates										
Chlorobenzene	0.00	2.00	1.94	97.0	2.00	1.92	96.0	1.0	60-125	<20

QC Batch No: 083017DB1; Dup or Spiked Sample: 0830; LCS: Clean Water; QC Prepared: 08/30/2017;MS Analyzed: 08/30/2017; LCS Analyzed: 08/31/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C13-C22)	5.00	5.50	110	75-125						
Surrogates										
Chlorobenzene	2.00	2.00	100	60-125						

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517NB2; Dup or Spiked Sample: 89125.52EGA; LCS: Clean Water; QC Prepared: 08/25/2017; QC Analyzed: 08/26/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	0.500	0.474	94.8	0.500	0.478	95.6	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0560	112	0.0500	0.0545	109	2.7	75-125	<20

QC Batch No: 082517NB2; Dup or Spiked Sample: 89125.52EGA; LCS: Clean Water; QC Prepared: 08/25/2017; QC Analyzed: 08/26/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	0.500	0.445	89.0	0.500	0.452	90.4	1.6	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0540	108	0.0500	0.0535	107	<1	75-125	<20	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C10; Dup or Spiked Sample: 89125.38; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<15
Arsenic	0.00	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15
Barium	84.4	50.0	134	99.2	50.0	132	95.2	4.1	75-125	<15
Beryllium	0.00	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15
Cadmium	0.00	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15
Chromium	19.9	50.0	68.4	97.0	50.0	68.3	96.8	<1	75-125	<15
Cobalt	9.27	50.0	56.6	94.7	50.0	56.4	94.3	<1	75-125	<15
Copper	21.7	50.0	74.7	106	50.0	72.7	102	3.8	75-125	<15
Lead	3.11	50.0	45.5	84.8	50.0	45.5	84.8	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.452	90.4	0.500	0.431	86.2	4.8	75-125	<15
Molybdenum	0.00	50.0	47.8	95.6	50.0	47.8	95.6	<1	75-125	<15
Nickel	13.2	50.0	58.3	90.2	50.0	58.2	90.0	<1	75-125	<15
Selenium	0.00	50.0	41.2	82.4	50.0	41.3	82.6	<1	75-125	<15
Silver	0.00	50.0	49.8	99.6	50.0	48.9	97.8	1.8	75-125	<15
Thallium	0.00	50.0	37.8	75.6	50.0	37.7	75.4	<1	75-125	<15
Vanadium	36.5	50.0	86.3	99.6	50.0	84.9	96.8	2.9	75-125	<15
Zinc	46.7	50.0	93.0	92.6	50.0	92.3	91.2	1.5	75-125	<15

QC Batch No: 0829172C10; Dup or Spiked Sample: 89125.38; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	47.2	94.4	50.0	47.9	95.8	1.5	75-125	<15	
Arsenic	50.0	47.8	95.6	50.0	47.2	94.4	1.3	75-125	<15	
Barium	50.0	49.4	98.8	50.0	48.6	97.2	1.6	75-125	<15	
Beryllium	50.0	53.5	107	50.0	53.0	106	<1	75-125	<15	
Cadmium	50.0	50.5	101	50.0	49.8	99.6	1.4	75-125	<15	
Chromium	50.0	49.6	99.2	50.0	49.5	99.0	<1	75-125	<15	
Cobalt	50.0	49.7	99.4	50.0	48.9	97.8	1.6	75-125	<15	
Copper	50.0	48.7	97.4	50.0	47.6	95.2	2.3	75-125	<15	
Lead	50.0	46.9	93.8	50.0	46.8	93.6	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C10; Dup or Spiked Sample: 89125.38; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.575	115	0.500	0.595	119	3.4	75-125	<15	
Molybdenum	50.0	47.2	94.4	50.0	47.2	94.4	<1	75-125	<15	
Nickel	50.0	48.3	96.6	50.0	47.6	95.2	1.5	75-125	<15	
Selenium	50.0	48.5	97.0	50.0	48.6	97.2	<1	75-125	<15	
Silver	50.0	49.4	98.8	50.0	48.5	97.0	1.8	75-125	<15	
Thallium	50.0	49.4	98.8	50.0	49.5	99.0	<1	75-125	<15	
Vanadium	50.0	49.1	98.2	50.0	48.3	96.6	1.6	75-125	<15	
Zinc	50.0	52.5	105	50.0	52.5	105	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C8; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	43.3	86.6	50.0	45.5	91.0	5.0	75-125	<15
Arsenic	18.2	50.0	61.4	86.4	50.0	63.9	91.4	5.6	75-125	<15
Barium	454	50.0	405 #	-97.9	50.0	409 #	-89.9	<1	75-125	<15
Beryllium	0.00	50.0	47.5	95.0	50.0	49.5	99.0	4.1	75-125	<15
Cadmium	0.00	50.0	46.5	93.0	50.0	48.1	96.2	3.4	75-125	<15
Chromium	12.8	50.0	55.0	84.4	50.0	56.7	87.8	3.9	75-125	<15
Cobalt	5.74	50.0	46.8	82.1	50.0	48.5	85.5	4.1	75-125	<15
Copper	2,700	50.0	2,670 #	-69.9	50.0	2,710 #	22.0	<1	75-125	<15
Lead	951	50.0	961 #	20.0	50.0	972 #	42.0	71.0	75-125	<15
Mercury (By EPA 7471)	9.76	0.500	9.96 #	39.7	0.500	9.97 #	41.6	4.7	75-125	<15
Molybdenum	0.00	50.0	43.1	86.2	50.0	44.6	89.2	3.4	75-125	<15
Nickel	8.27	50.0	47.3	78.1	50.0	48.9	81.3	4.0	75-125	<15
Selenium	0.00	50.0	34.4 #	68.8	50.0	36.4 #	72.8	5.6	75-125	<15
Silver	0.00	50.0	44.4	88.8	50.0	45.1	90.2	1.6	75-125	<15
Thallium	0.00	50.0	34.5 #	69.0	50.0	36.5 #	73.0	5.6	75-125	<15
Vanadium	16.7	50.0	61.2	89.0	50.0	62.0	90.6	1.8	75-125	<15
Zinc	802	50.0	820 #	36.0	50.0	830 #	56.0	43.5	75-125	<15

QC Batch No: 0829172C8; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	47.3	94.6	50.0	48.3	96.6	2.1	75-125	<15	
Arsenic	50.0	47.3	94.6	50.0	48.0	96.0	1.5	75-125	<15	
Barium	50.0	48.7	97.4	50.0	49.1	98.2	<1	75-125	<15	
Beryllium	50.0	53.0	106	50.0	53.0	106	<1	75-125	<15	
Cadmium	50.0	49.1	98.2	50.0	49.6	99.2	1.0	75-125	<15	
Chromium	50.0	49.6	99.2	50.0	50.5	101	1.8	75-125	<15	
Cobalt	50.0	48.7	97.4	50.0	52.0	104	6.6	75-125	<15	
Copper	50.0	47.9	95.8	50.0	48.6	97.2	1.5	75-125	<15	
Lead	50.0	46.6	93.2	50.0	47.9	95.8	2.8	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C8; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.595	119	0.500	0.600	120	<1	75-125	<15	
Molybdenum	50.0	47.6	95.2	50.0	48.3	96.6	1.5	75-125	<15	
Nickel	50.0	47.4	94.8	50.0	47.7	95.4	<1	75-125	<15	
Selenium	50.0	48.1	96.2	50.0	48.7	97.4	1.2	75-125	<15	
Silver	50.0	48.8	97.6	50.0	49.4	98.8	1.2	75-125	<15	
Thallium	50.0	49.3	98.6	50.0	51.0	102	3.4	75-125	<15	
Vanadium	50.0	48.4	96.8	50.0	48.9	97.8	1.0	75-125	<15	
Zinc	50.0	52.0	104	50.0	53.0	106	1.9	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C9; Dup or Spiked Sample: 89125.34; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	42.7	85.4	50.0	40.9	81.8	4.3	75-125	<15
Arsenic	6.89	50.0	46.7	79.6	50.0	46.0	78.2	1.8	75-125	<15
Barium	69.6	50.0	115	90.8	50.0	115	90.8	<1	75-125	<15
Beryllium	0.00	50.0	44.3	88.6	50.0	44.0	88.0	<1	75-125	<15
Cadmium	0.00	50.0	41.9	83.8	50.0	41.0	82.0	2.2	75-125	<15
Chromium	14.8	50.0	58.4	87.2	50.0	56.9	84.2	3.5	75-125	<15
Cobalt	6.62	50.0	47.1	81.0	50.0	46.0	78.8	2.8	75-125	<15
Copper	52.9	50.0	99.3	92.8	50.0	101	96.2	3.6	75-125	<15
Lead	22.3	50.0	55.7 #	66.8	50.0	54.1 #	63.6	4.9	75-125	<15
Mercury (By EPA 7471)	7.78	0.500	8.24	91.2	0.500	8.21	85.8	6.1	75-125	<15
Molybdenum	0.00	50.0	39.9	79.8	50.0	39.1	78.2	2.0	75-125	<15
Nickel	11.0	50.0	49.7	77.4	50.0	48.6	75.2	2.9	75-125	<15
Selenium	0.00	50.0	30.8 #	61.6	50.0	31.1 #	62.2	<1	75-125	<15
Silver	0.00	50.0	40.9	81.8	50.0	41.1	82.2	<1	75-125	<15
Thallium	0.00	50.0	31.8 #	63.6	50.0	31.0 #	62.0	2.5	75-125	<15
Vanadium	27.6	50.0	74.4	93.6	50.0	74.4	93.6	<1	75-125	<15
Zinc	66.9	50.0	118	102	50.0	115	96.2	5.9	75-125	<15

QC Batch No: 0829172C9; Dup or Spiked Sample: 89125.34; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	50.5	101	50.0	50.0	100	<1	75-125	<15	
Arsenic	50.0	51.0	102	50.0	50.0	100	2.0	75-125	<15	
Barium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Beryllium	50.0	56.0	112	50.0	55.0	110	1.8	75-125	<15	
Cadmium	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Chromium	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15	
Cobalt	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Copper	50.0	50.0	100	50.0	50.0	100	<1	75-125	<15	
Lead	50.0	49.3	98.6	50.0	49.3	98.6	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0829172C9; Dup or Spiked Sample: 89125.34; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.555	111	0.500	0.570	114	2.7	75-125	<15	
Molybdenum	50.0	50.0	100	50.0	49.9	99.8	<1	75-125	<15	
Nickel	50.0	49.5	99.0	50.0	49.5	99.0	<1	75-125	<15	
Selenium	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Silver	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Thallium	50.0	52.5	105	50.0	52.5	105	<1	75-125	<15	
Vanadium	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Zinc	50.0	55.0	110	50.0	55.0	110	<1	75-125	<15	

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Page: 61

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082817-2; Dup or Spiked Sample: 89129.05; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	454	90.8	500	590	118	26.1	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	380	76.0	500	412	82.4	8.1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	40.0	80.0	50.0	46.0	92.0	14.0	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	51.0	102	50.0	51.0	102	<1	30-150	<20

QC Batch No: 082817-2; Dup or Spiked Sample: 89129.05; LCS: Clean Sand; QC Prepared: 08/28/2017; QC Analyzed: 08/29/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	570	114	500	442	88.4	25.3	50-150	<20	
Aroclor-1260 (PCB-1260)	500	434	86.8	500	447	89.4	3.0	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	52.0	104	50.0	48.0	96.0	8.0	30-150	<20	
Tetrachloro-m-xylene	50.0	62.0	124	50.0	62.0	124	<1	30-150	<20	

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Page: 62

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0825172A1; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	37.7	75.4	50.0	38.1	76.2	1.1	75-125	<20
Chlorobenzene	0.00	50.0	34.5	69.0	50.0	37.6	75.2	8.6	75-125	<20
1,1-Dichloroethene	0.00	50.0	53.0	106	50.0	49.6	99.2	6.6	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	36.3	72.6	50.0	38.4	76.8	5.6	75-125	<20
Trichloroethene	0.00	50.0	41.2	82.4	50.0	44.0	88.0	6.6	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	40.8	81.6	50.0	42.4	84.8	3.8	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.9	91.7	50.0	48.9	97.8	6.4	75-125	<20
Dibromofluoromethane	0.00	50.0	48.8	97.5	50.0	47.9	95.8	1.8	75-125	<20
Toluene-d8	0.00	50.0	48.5	96.9	50.0	47.3	94.5	2.5	75-125	<20

QC Batch No: 0825172A1; Dup or Spiked Sample: 89104.08; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/26/2017; LCS Analyzed: 08/25/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	41.6	83.2	50.0	41.0	82.0	1.5	75-125	<20	
Chlorobenzene	50.0	44.5	89.0	50.0	44.0	88.0	1.1	75-125	<20	
1,1-Dichloroethene	50.0	55.0	110	50.0	52.0	104	5.6	75-125	<20	
Toluene (Methyl benzene)	50.0	43.2	86.4	50.0	45.0	90.0	4.1	75-125	<20	
Trichloroethene	50.0	48.3	96.6	50.0	47.5	95.0	1.7	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	45.1	90.2	50.0	47.5	95.0	5.2	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	42.9	85.8	50.0	45.5	91.0	5.9	75-125	<20	
Ethylbenzene	50.0	46.4	92.8	50.0	47.5	95.0	2.3	75-125	<20	
1,1,1-Trichloroethane	50.0	54.5	109	50.0	55.0	110	<1	75-125	<20	
o-Xylene	50.0	44.1	88.2	50.0	45.0	90.0	2.0	75-125	<20	
m,p-Xylenes	100	90.5	90.5	100	90.7	90.7	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	47.5	95.0	50.0	52.0	104	9.0	75-125	<20	
Dibromofluoromethane	50.0	40.1	80.1	50.0	42.4	84.8	5.7	75-125	<20	
Toluene-d8	50.0	46.7	93.4	50.0	48.5	96.9	3.7	75-125	<20	

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QUALITY CONTROL RESULTS

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Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 63

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0829172A1; LCS: Clean Sand; LCS Prepared: 08/29/2017; LCS Analyzed: 08/29/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	38.5	77.0	50.0	39.0	78.0	1.3	75-125	<20	
Chlorobenzene	50.0	41.6	83.2	50.0	42.0	84.0	<1	75-125	<20	
1,1-Dichloroethene	50.0	45.3	90.6	50.0	45.5	91.0	<1	75-125	<20	
Toluene (Methyl benzene)	50.0	39.5	79.0	50.0	40.0	80.0	1.3	75-125	<20	
Trichloroethene	50.0	44.4	88.8	50.0	45.0	90.0	1.3	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	45.1	90.2	50.0	45.5	91.0	<1	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	41.4	82.8	50.0	46.5	93.0	11.6	75-125	<20	
Ethylbenzene	50.0	43.2	86.4	50.0	44.0	88.0	1.8	75-125	<20	
1,1,1-Trichloroethane	50.0	52.5	105	50.0	53.5	107	1.9	75-125	<20	
o-Xylene	50.0	41.8	83.6	50.0	42.0	84.0	<1	75-125	<20	
m,p-Xylenes	100	82.2	82.2	100	83.3	83.3	1.3	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	49.6	99.2	50.0	50.5	101	1.8	75-125	<20	
Dibromofluoromethane	50.0	46.0	92.0	50.0	43.0	86.0	6.7	75-125	<20	
Toluene-d8	50.0	47.6	95.1	50.0	47.3	94.5	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Ordered By

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Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 64

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB1; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017;MS Analyzed: 08/30/2017; LCS Analyzed: 08/29/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	212	500	737	105	500	737	105	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	100	100	100	100	100	<1	75-125	<20

QC Batch No: 082917DB1; Dup or Spiked Sample: 89125.12; LCS: Clean Sand; QC Prepared: 08/29/2017;MS Analyzed: 08/30/2017; LCS Analyzed: 08/29/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	449	89.8	500	481	96.2	6.9	75-125	<20	
Surrogates										
Chlorobenzene	100	96.9	96.9	100	94.5	94.5	2.5	75-125	<20	

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Site

Wilmington Marine Service

Page: 65

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082917DB2; Dup or Spiked Sample: 89125.34; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	139	500	631	98.4	500	539	80.0	20.6	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	99.4	99.4	100	89.1	89.1	10.9	75-125	<20

QC Batch No: 082917DB2; Dup or Spiked Sample: 89125.34; LCS: Clean Sand; QC Prepared: 08/29/2017; QC Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	499	99.8	500	505	101	1.2	75-125	<20	
Surrogates										
Chlorobenzene	100	98.7	98.7	100	97.0	97.0	1.7	75-125	<20	

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Page: 66

Site

Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB3; Dup or Spiked Sample: 89125.12EGA; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/27/2017; LCS Analyzed: 08/26/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.833	83.3	1.00	0.782	78.2	6.3	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0525	105	0.0500	0.0545	109	3.7	75-125	<20

QC Batch No: 082517OB3; Dup or Spiked Sample: 89125.12EGA; LCS: Clean Sand; QC Prepared: 08/25/2017;MS Analyzed: 08/27/2017; LCS Analyzed: 08/26/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.831	83.1	1.00	0.812	81.2	2.3	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0550	110	0.0500	0.0545	109	<1	75-125	<20	

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Site

Wilmington Marine Service

Page: 67

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082517OB4; Dup or Spiked Sample: 89125.34EGA; LCS: Clean Sand; QC Prepared: 08/25/2017; QC Analyzed: 08/27/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.123	1.00	0.756#	63.3	1.00	0.768#	64.5	1.9	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0560	112	0.0500	0.0555	111	<1	75-125	<20

QC Batch No: 082517OB4; Dup or Spiked Sample: 89125.34EGA; LCS: Clean Sand; QC Prepared: 08/25/2017; QC Analyzed: 08/27/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.902	90.2	1.00	0.901	90.1	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0520	104	0.0500	0.0515	103	<1	75-125	<20	

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Site

Wilmington Marine Service

Page: 68

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-1; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	13.8	13.8	<1	<20						

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Wilmington Marine Service

Page: 69

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89125	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO082917-2; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	18.9	17.7	6.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Number of Pages 20
Date Received 08/21/2017
Date Reported 09/20/2017

Job Number	Order Date	Client
89304	09/11/2017	T/T

Project ID: 73479
Project Name: Wilmington Marine Services
Site: Wilmington Marine Services

Enclosed please find results of analyses of 30 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

№ 90467

89304

COMPANY: Tetra tech INC
PROJECT MANAGER: Eric Nelson Macilyn Odonnell
AETL JOB No.: 89069
Page 1 of 4

COMPANY ADDRESS: 3475 Foothill Blvd
PHONE: 626 470-2536
FAX:
PROJECT NAME: Wilmington Marine
PROJECT #: 73479.
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH(C4-C12) 8015	TPH(C13-C40) 8015	VOCs-Long 8260	Title 22 metals 6010/7470	PCBs 8082 Soxhlet	Organochlorine Pesticides 8081	Moisture content				TEST INSTRUCTIONS & COMMENTS
TB082120 17	89069.01	8-21-17	0800	W	2		X		X								Tt Standard EDD TPH(g) and VOCs - 3 days TAT The rest is STANDARD TAT Blank = hold
Tt-WMS-19-0.5	~~89069.02~~	8-21-17	0812	S	5		X	X		X	(*)	X					89304.01
Tt-WMS-19-2.0	~~89069.03~~		0820				X	X		X	(*)	X					89304.02
Tt-WMS-19-5.0	~~89069.04~~		0831					(*)	X	(*)	(*)		(*)				89304.03
Tt-WMS-22-0.5	8906905		0846				X	X		X			X				
Tt-WMS-22-2.0	89069.06		0854				X	X		X			X				
Tt-WMS-22-5.0	89069.07		0859														
Tt-WMS-22-10.0	89069.08		0909														
Tt-WMS-25-0.5	89069.09		0922				X	X		X			X				
Tt-WMS-25-2.0	89069.10		0930				X	X		X			X				
Tt-WMS-25-5.0	89069.11		0936														
Tt-WMS-25-10.0	89069.12		0943														
Tt-WMS-23-0.5	~~89069.13~~		0957				X	X		X	(*)		X				89304.04
Tt-WMS-23-2.0	~~89069.14~~		0959				X	X		X	(*)		X				89304.05
Tt-WMS-23-5.0	~~89069.15~~		1010								(*)		(*)				89304.06

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	72	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

[X] NORMAL [X] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [X] 3 DAYS

DATA DELIVERABLE REQUIRED

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Signature:	Signature:	Signature:
Printed Name: Jason Fakker	Printed Name:	Printed Name: Ik Sangbis
Date: 8-21-17 Time: 1535	Date: Time:	Date: 8/21/17 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.** AETL
Signature:	Signature:	Signature:
Printed Name: Miguel	Printed Name:	Printed Name: Artin
Date: 8/21/17 Time: 1535	Date: Time:	Date: 08/21/17 Time: 1800

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89304

CHAIN OF CUSTODY RECORD

102259

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Maclyn O'donnell
AETL JOB No.: 89069
Page 2 of 4

COMPANY ADDRESS: 3475 E Foothill, Pasadena 91107
PHONE / FAX: 626-351-4664

PROJECT NAME: Wilmington Marine
PROJECT #:

SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHgas (Cyte Lu) 8015M	TPH (C13-Lu) 8015M	VOCs + Oxygenates 8260B	PCBs 8082	Organotins	Moisture percentage 6080 (7471)	Title 22 metals				TEST INSTRUCTIONS & COMMENTS
1	Tt-WMS-23-10.0		8-21-17	1020	S	5					*		*					~~89069.16~~ 89304.07
2	Tt-WMS-23-CC			1035	concrete	1					*							89069.17
3	Tt-WMS-24-0.5			1032	S	5		X	X		*		X	X				~~89069.18~~ 89304.08
4	Tt-WMS-24-2.0			1038		5		X	X		*		X	X				~~89069.19~~ 89304.09
5	Tt-WMS-24-5.0			1044		5					*		*					~~89069.20~~ 89304.10
6	Tt-WMS-24-10.0			1054		5					*		*					~~89069.21~~ 89304.11
7	Tt-WMS-26-0.5			1106		5		X	X		*		X	X				~~89069.22~~ 89304.12
8	Tt-WMS-26-2.0			1113		5		X	X		*		X	X				~~89069.23~~ 89304.13
9	Tt-WMS-26-5.0			1120		5					*		*					~~89069.24~~ 89304.14
10	Tt-WMS-26-10.0			1129		5					*		*					~~89069.25~~ 89304.15
11	Tt-WMS-26-CC			1132	Asphalt	1					*							89069.26
12	Tt-WMS-24-CC			1134	Asphalt	1					*							89069.27
13	Tt-WMS-27-0.5			1145	S	5		X	X		*		X	X				~~89069.28~~ 89304.16
14	Tt-WMS-27-2.0			1150		5		X	X		*		X	X				~~89069.29~~ 89304.17
15	Tt-WMS-27-5.0			1203		5					*		*					~~89069.30~~ 89304.18

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	63	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Sanjeev
Date: 8-21-17 Time: 1535	Date: Time:	Date: 8/21/17 Time: 1800

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Sanjeev	Printed Name:	Printed Name: Antin
Date: 8/21/17 Time: 1535	Date: Time:	Date: 08/21/17 Time: 1800

TURN AROUND TIME: ☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

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89304

CHAIN OF CUSTODY RECORD

102277

COMPANY: Tetra Tech INC
PROJECT MANAGER: Eric Nelson, Naclyn Odonnell
AETL JOB No: ~~89069~~
Page 3 of 4

COMPANY ADDRESS: 3475 E. Foothill, Pasadena, 91107
PHONE / FAX: 626-351-4664
PROJECT NAME: Wilmington Marine
PROJECT #:
SITE NAME AND ADDRESS: Fries Ave, Wilmington CA
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHgas (8015)	Total Lead (6020)	VOCs (8260)	Title 22 Metals	PAHs (8270 SIM)	Organochlorines	moisture percent			TEST INSTRUCTIONS & COMMENTS
Te-WMS-27-0.0		8-21-17	1213	S	5						*		*			Fe Standard EDD
Te-WMS-28-0.5			1220	S	5		X	X		X	*		X			TPH(g) + VOCs rox
Te-WMS-28-2.0			1226	S	5		X	X		X	*		X			Blank hold
Te-WMS-28-5.0			1231	S	5				X		*		*			3 days rush.
~~Te-WMS-28-10.0~~ hold																The rest normal
Te-WMS-30-0.5			1333	S	14		X	X		X	*		X			~~89069.31~~ 89304.19
Te-WMS-30-2.0			1339	S	5		X	X		X	*		X			~~89069.32~~ 89304.20
Te-WMS-30-2.0D			1342	S	5		X	X		X	*		X			~~89069.33~~ 89304.21
Te-WMS-30-5.0			1348	S	5						*		*			~~89069.34~~ 89304.22
Te-WMS-27-0.0			1355	~~SWMS~~	1						*					MS/MSD ~~89069.35~~ 89304.23
Te-WMS-31-0.5			1425	S	14		X	X		X	*		X			~~89069.36~~ 89304.24
Te-WMS-31-2.0			~~1300~~ 1430	S	5		X	X		X	*		X			~~89069.37~~ 89304.25
Te-WMS-31-2.0D			1434	S	5		X	X		X	*		X			~~89069.38~~ 89304.26
Te-WMS-31-5.0			1439	S	5						*		*			89069.39
~~Te-WMS-31-10.0~~ hold																MS/MSD ~~89069.40~~ 89304.27
																~~89069.41~~ 89304.28
																~~89069.42~~ 89304.29
																~~89069.43~~ 89304.30

(1) Fe Standard EDD
TPH(g) + VOCs rox
Blank hold
3 days rush.
The rest normal

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	79	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

[X] NORMAL [X] RUSH
[ ] SAME DAY
[ ] NEXT DAY
[ ] 2 DAYS
[X] 3 DAYS

DATA DELIVERABLE REQUIRED

[ ] HARD COPY
[ ] PDF
[ ] GEOTRACKER (GLOBAL ID) _____
[ ] OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Belcher	Printed Name:	Printed Name: Sawyer
Date: 8-21-17 Time: 1535	Date: Time:	Date: 8/21/17 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.** AETL
Signature:	Signature:	Signature:
Printed Name: Sawyer	Printed Name:	Printed Name: Austin
Date: 8/21/17 Time: 1536	Date: Time:	Date: 08/21/17 Time: 1800

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102276

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson, Marlyn O'Donnell
PHONE: 626 351 4204
COMPANY ADDRESS: 3475 E Foothill Blvd Pasadena CA 91107
FAX:
PROJECT NAME: Cutter/Wilmington Marine
PROJECT #:
SITE NAME AND ADDRESS: Fries Ave, Wilmington, CA
PO #:
AETL JOB No. 89069
Page 4 of 9

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	SVOC (PCS) Oil Impacted	TPH (C7-C12) 8015M	TPH (C13-C40) 8015M							TEST INSTRUCTIONS & COMMENTS
1	EB082-12017	89069.44	8-21-17	1600	W	7		X	X	X							Tt standard EDD TPH(g) + VOCs + oxy requires 3 days TAT The rest normal (o)
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	7	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) / NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: [X] NORMAL [X] RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS [X] 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Jose Felix	Printed Name:	Printed Name:
Date: 8-21-17 Time: 1535	Date: Time:	Date: 8/21/17 Time: 1500
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: Sergio R	Printed Name:	Printed Name: Andi
Date: 8/21/17 Time: 1535	Date: Time:	Date: 8/21/17 Time: 1800

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

Subject: FW: WMS Additional analyses
Attachments: WMS additional supplemental analyses.pdf

From: Benfield, Heather [mailto:Heather.Benfield@tetratech.com]
Sent: Friday, September 8, 2017 6:19 PM
To: Jim Lin (jimL@aetlab.com); Cyrus
Cc: Nelson, Eric J; ODonnell, Maclyn
Subject: WMS Additional analyses

Jim and Cyrus,

Sorry for the late submittal on a Friday, but below is a list of additional analyses for samples. Most samples have not been analyzed and are on archive. Some have already been analyzed for metals. I think you should have plenty of samples remaining, but let me know if not.

We will have some additional soluble metal analyses to request later, but I wanted to have you start with the PCBs and TEPH analyses since we are technically already beyond the 14-day holding time. If you can extract all the samples as soon as possible and then analyze on a standard TAT that would be great. Please include moisture content for samples with a "1" in the table. The "done" under moisture content indicates that it has already been calculated.

Call or email me with any questions.

Lab work Order	Sample Date	Archived Sample ID	Additional analyses	Moisture content	Lab Sample ID
POLA89069	08/21/2017	Tt-WMS19-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.02
POLA89069	08/21/2017	Tt-WMS19-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.03
POLA89069	08/21/2017	Tt-WMS19-5.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89069.04
POLA89069	08/21/2017	Tt-WMS23-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.13
POLA89069	08/21/2017	Tt-WMS23-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.14
POLA89069	08/21/2017	Tt-WMS23-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.15
POLA89069	08/21/2017	Tt-WMS23-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.16
POLA89069	08/21/2017	Tt-WMS24-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.18
POLA89069	08/21/2017	Tt-WMS24-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.19
POLA89069	08/21/2017	Tt-WMS24-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.20
POLA89069	08/21/2017	Tt-WMS24-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.21
POLA89069	08/21/2017	Tt-WMS26-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.22
POLA89069	08/21/2017	Tt-WMS26-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.23
POLA89069	08/21/2017	Tt-WMS26-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.24
POLA89069	08/21/2017	Tt-WMS26-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.25
POLA89069	08/21/2017	Tt-WMS27-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.28
POLA89069	08/21/2017	Tt-WMS27-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.29
POLA89069	08/21/2017	Tt-WMS27-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.30
POLA89069	08/21/2017	Tt-WMS27-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.31
POLA89069	08/21/2017	Tt-WMS30-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.35

POLA89069	08/21/2017	Tt-WMS30-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.36
POLA89069	08/21/2017	Tt-WMS30-2.0D	PCBs with soxhlet extraction	done	Lab ID 89069.37
POLA89069	08/21/2017	Tt-WMS30-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.38
POLA89069	08/21/2017	Tt-WMS31-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.40
POLA89069	08/21/2017	Tt-WMS31-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.41
POLA89069	08/21/2017	Tt-WMS31-2.0D	PCBs with soxhlet extraction	done	Lab ID 89069.42
POLA89069	08/21/2017	Tt-WMS31-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.43

POLA89089	08/22/2017	Tt-WMS28-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.32
POLA89089	08/22/2017	Tt-WMS28-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.33
POLA89089	08/22/2017	Tt-WMS28-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.34
POLA89089	08/22/2017	Tt-WMS28-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.35
POLA89089	08/22/2017	Tt-WMS30-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.02
POLA89089	08/22/2017	Tt-WMS31-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.02
POLA89089	08/22/2017	Tt-WMS32-0.5	PCBs with soxhlet extraction	done	Lab ID 89089.10
POLA89089	08/22/2017	Tt-WMS32-2.0	PCBs with soxhlet extraction	done	Lab ID 89089.11
POLA89089	08/22/2017	Tt-WMS32-2.0D	PCBs with soxhlet extraction	done	Lab ID 89089.12
POLA89089	08/22/2017	Tt-WMS32-5.0	PCBs with soxhlet extraction	1	Lab ID 89089.13
POLA89089	08/22/2017	Tt-WMS32-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.14
POLA89089	08/22/2017	Tt-WMS33-5.0	Pb and Hg	1	Lab ID 89089.18
POLA89089	08/22/2017	Tt-WMS33-10.0	Pb and Hg	1	Lab ID 89089.19
POLA89089	08/22/2017	Tt-WMS34-5.0	Pb	1	Lab ID 89089.29
POLA89089	08/22/2017	Tt-WMS34-10.0	Pb	1	Lab ID 89089.30
POLA89089	08/22/2017	Tt-WMS38-5.0	TEPH C13-C40	1	Lab ID 89089.40
POLA89089	08/22/2017	Tt-WMS38-10.0	TEPH C13-C40	1	Lab ID 89089.41
POLA89089	08/22/2017	Tt-WMS39-10	PCBs with soxhlet extraction	1	Lab ID 89089.46

POLA89125	08/24/2017	Tt-WMS18-0.5	PCBs with soxhlet extraction	done	Lab ID 89125.37
POLA89125	08/24/2017	Tt-WMS18-2.0	PCBs with soxhlet extraction	done	Lab ID 89125.38
POLA89125	08/24/2017	Tt-WMS18-5.0	PCBs with soxhlet extraction	1	Lab ID 89125.39
POLA89125	08/24/2017	Tt-WMS18-10.0	PCBs with soxhlet extraction	1	Lab ID 89125.40
POLA89125	08/24/2017	Tt-WMS19-10.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.46
POLA89125	08/24/2017	Tt-WMS20-2.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.49
POLA89125	08/24/2017	Tt-WMS20-5.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.50
POLA89125	08/24/2017	Tt-WMS20-10.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.51
POLA89125	08/24/2017	Tt-WMS6-5.0	Pb, PCBs with soxhlet extraction	1	Lab ID 89125.31
POLA89125	08/24/2017	Tt-WMS6-10.0	Pb, PCBs with soxhlet extraction	1	Lab ID 89125.32
POLA89125	08/24/2017	Tt-WMS7-6.0	TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.35
POLA89125	08/24/2017	Tt-WMS7-10.0	TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.36
POLA89125	08/24/2017	Tt-WMS8-5.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.13

POLA89125	08/24/2017	Tt-WMS8-10.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.14

Heather Benfield, P.E. | Associate Director
Direct: 626.470.2415 | Personal Fax: 626.470.2615

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: 73479
Date Received 08/21/2017
Date Reported 09/20/2017

Job Number	Order Date	Client
89304	09/11/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 09/11/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89304.01	Tt-WMS-19-0.5	08/21/2017	Soil	5
89304.02	Tt-WMS-19-2.0	08/21/2017	Soil	5
89304.04	Tt-WMS-23-0.5	08/21/2017	Soil	5
89304.05	Tt-WMS-23.2.0	08/21/2017	Soil	5
89304.08	Tt-WMS-24-0.5	08/21/2017	Soil	5
89304.09	Tt-WMS-24-2.0	08/21/2017	Soil	5
89304.12	Tt-WMS-26-0.5	08/21/2017	Soil	5
89304.13	Tt-WMS-26-2.0	08/21/2017	Soil	5
89304.16	Tt-WMS-27-0.5	08/21/2017	Soil	5
89304.17	Tt-WMS-27-2.0	08/21/2017	Soil	5
89304.20	Tt-WMS-28-0.5	08/21/2017	Soil	5
89304.21	Tt-WMS-28-2.0	08/21/2017	Soil	5
89304.23	Tt-WMS-30-0.5	08/21/2017	Soil	14
89304.24	Tt-WMS-30-2.0	08/21/2017	Soil	5
89304.25	Tt-WMS-30-2.0D	08/21/2017	Soil	5
89304.27	Tt-WMS-31-0.5	08/21/2017	Soil	14
89304.28	Tt-WMS-31-2.0	08/21/2017	Soil	5
89304.29	Tt-WMS-31-2.0D	08/21/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg

89304.03	Tt-WMS-19-5.0	08/21/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	09/18/2017	2	Normal	mg/Kg
(8082)	09/18/2017	2	Normal	ug/Kg
(M8015D) ^ C13-C40	09/18/2017	2	Normal	mg/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

Continued

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Tetra Tech, Inc.
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Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: 73479
Date Received 08/21/2017
Date Reported 09/20/2017

Job Number	Order Date	Client
89304	09/11/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89304.06	Tt-WMS-23-5.0	08/21/2017	Soil	5
89304.07	Tt-WMS-23-10.0	08/21/2017	Soil	5
89304.10	Tt-WMS-24-5.0	08/21/2017	Soil	5
89304.11	Tt-WMS-24-10.0	08/21/2017	Soil	5
89304.14	Tt-WMS-26-5.0	08/21/2017	Soil	5
89304.15	Tt-WMS-26-10.0	08/21/2017	Soil	5
89304.18	Tt-WMS-27-5.0	08/21/2017	Soil	5
89304.19	Tt-WMS-27-10.0	08/21/2017	Soil	5
89304.22	Tt-WMS-28-5.0	08/21/2017	Soil	5
89304.26	Tt-WMS-30-5.0	08/21/2017	Soil	5
89304.30	Tt-WMS-31-5.0	08/21/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Services

Page: 2

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1

Our Lab I.D.			Method Blank	**89304.03**			
Client Sample I.D.				Tt-WMS-19-5.0			
Date Sampled				08/21/2017			
Date Prepared			09/11/2017	09/11/2017			
Preparation Method			3550B	3550B			
Date Analyzed			09/11/2017	09/11/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	ND	222			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	503			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	725			
Our Lab I.D.			Method Blank	**89304.03**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		96.9	99.9			

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
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Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Services

Page: 3

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117-2

Our Lab I.D.			Method Blank	89304.01	89304.02	89304.03	89304.04
Client Sample I.D.				Tt-WMS-19-0.5	Tt-WMS-19-2.0	Tt-WMS-19-5.0	Tt-WMS-23-0.5
Date Sampled				08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	9,420	480	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89304.01	89304.02	89304.03	89304.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		87.8	128	115	127	129
Tetrachloro-m-xylene	30-150		99.0	115	134	122	147

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Site

Wilmington Marine Services

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Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117-2

Our Lab I.D.			89304.05	89304.06	89304.07	89304.08	89304.09
Client Sample I.D.			Tt-WMS-23.2 .0	Tt-WMS-23-5 .0	Tt-WMS-23-1 0.0	Tt-WMS-24-0 .5	Tt-WMS-24-2 .0
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89304.05**	**89304.06**	**89304.07**	**89304.08**	**89304.09**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		115	132	127	116	114
Tetrachloro-m-xylene	30-150		134	146	150	141	146

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Wilmington Marine Services

Page: 5

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117-2

Our Lab I.D.			89304.10	89304.11	89304.12	89304.13	89304.14
Client Sample I.D.			Tt-WMS-24-5 .0	Tt-WMS-24-1 0.0	Tt-WMS-26-0 .5	Tt-WMS-26-2 .0	Tt-WMS-26-5 .0
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89304.10**	**89304.11**	**89304.12**	**89304.13**	**89304.14**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		114	106	104	115	129
Tetrachloro-m-xylene	30-150		143	144	135	143	148

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Wilmington Marine Services

Page: 6

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117-2

Our Lab I.D.			89304.15	89304.16	89304.17	89304.18	89304.19
Client Sample I.D.			Tt-WMS-26-1 0.0	Tt-WMS-27-0 .5	Tt-WMS-27-2 .0	Tt-WMS-27-5 .0	Tt-WMS-27-1 0.0
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89304.15**	**89304.16**	**89304.17**	**89304.18**	**89304.19**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		115	96.0	130	105	120
Tetrachloro-m-xylene	30-150		142	75.0	150	136	139

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Site

Wilmington Marine Services

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117-2

Our Lab I.D.			**89304.20**				
Client Sample I.D.			Tt-WMS-28-0 .5				
Date Sampled			08/21/2017				
Date Prepared			09/11/2017				
Preparation Method			3540C				
Date Analyzed			09/11/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**89304.20**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		101				
Tetrachloro-m-xylene	30-150		135				

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Wilmington Marine Services

Page: 8

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217-2

Our Lab I.D.			Method Blank	89304.21	89304.22	89304.23	89304.24
Client Sample I.D.				Tt-WMS-28-2.0	Tt-WMS-28-5.0	Tt-WMS-30-0.5	Tt-WMS-30-2.0
Date Sampled				08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89304.21	89304.22	89304.23	89304.24
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		91.8	120	129	91.4	105
Tetrachloro-m-xylene	30-150		58.8	150	124	80.3	133

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Wilmington Marine Services

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Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217-2

Our Lab I.D.			89304.25	89304.26	89304.27	89304.28	89304.29
Client Sample I.D.			Tt-WMS-30-2.0D	Tt-WMS-30-5.0	Tt-WMS-31-0.5	Tt-WMS-31-2.0	Tt-WMS-31-2.0D
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89304.25**	**89304.26**	**89304.27**	**89304.28**	**89304.29**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		124	105	126	82.6	102
Tetrachloro-m-xylene	30-150		136	47.4	150	81.1	101

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Site

Wilmington Marine Services

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217-2

Our Lab I.D.			**89304.30**				
Client Sample I.D.			Tt-WMS-31-5 .0				
Date Sampled			08/21/2017				
Date Prepared			09/12/2017				
Preparation Method			3540C				
Date Analyzed			09/12/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**89304.30**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		110				
Tetrachloro-m-xylene	30-150		145				

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Wilmington Marine Services

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Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C8

Our Lab I.D.			Method Blank	89304.03			
Client Sample I.D.				Tt-WMS-19-5.0			
Date Sampled				08/21/2017			
Date Prepared			09/13/2017	09/13/2017			
Preparation Method			3050B	3050B			
Date Analyzed			09/15/2017	09/15/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	ND	10.1			
Barium	2.5	5.0	ND	85.2			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	ND	39.9			
Cobalt	2.5	5.0	ND	10.9			
Copper	2.5	5.0	ND	5,340			
Lead	2.5	5.0	ND	307			
Mercury (By EPA 7471)	0.1	0.2	ND	6.68			
Molybdenum	2.5	5.0	ND	9.50			
Nickel	2.5	5.0	ND	185			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	1.0	5.0	ND	ND			
Vanadium	2.5	5.0	ND	15.8			
Zinc	2.5	5.0	ND	9,600			

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Wilmington Marine Services

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Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-1

Our Lab I.D.			Method Blank	89304.03	89304.06	89304.07	89304.10
Client Sample I.D.				Tt-WMS-19-5.0	Tt-WMS-23-5.0	Tt-WMS-23-10.0	Tt-WMS-24-5.0
Date Sampled				08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/14/2017	09/14/2017	09/14/2017	09/14/2017	09/14/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2017	09/15/2017	09/15/2017	09/15/2017	09/15/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	19.9	27.0	27.9	24.5

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Wilmington Marine Services

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Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-1

Our Lab I.D.			89304.11	89304.14	89304.15	89304.18	89304.19
Client Sample I.D.			Tt-WMS-24-1 0.0	Tt-WMS-26-5 .0	Tt-WMS-26-1 0.0	Tt-WMS-27-5 .0	Tt-WMS-27-1 0.0
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			09/14/2017	09/14/2017	09/14/2017	09/14/2017	09/14/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2017	09/15/2017	09/15/2017	09/15/2017	09/15/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	24.6	27.3	23.4	22.7	27.1

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
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Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Services

Page: 14

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-1

Our Lab I.D.			89304.22	89304.26	89304.30		
Client Sample I.D.			Tt-WMS-28-5.0	Tt-WMS-30-5.0	Tt-WMS-31-5.0		
Date Sampled			08/21/2017	08/21/2017	08/21/2017		
Date Prepared			09/14/2017	09/14/2017	09/14/2017		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/15/2017	09/15/2017	09/15/2017		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	26.6	20.5	19.6		

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QUALITY CONTROL RESULTS

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Site

Wilmington Marine Services

Page: 15

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C8; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/13/2017; QC Analyzed: 09/15/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	55.5	111	50.0	56.0	112	<1	75-125	<15
Arsenic	0.00	50.0	56.0	112	50.0	56.5	113	<1	75-125	<15
Barium	30.4	50.0	98.9 #	137	50.0	97.4 #	134	2.2	75-125	<15
Beryllium	0.00	50.0	60.5	121	50.0	59.5	119	1.7	75-125	<15
Cadmium	0.00	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<15
Chromium	5.33	50.0	60.8	111	50.0	60.3	110	<1	75-125	<15
Cobalt	2.69	50.0	56.7	108	50.0	56.2	107	<1	75-125	<15
Copper	1.97	50.0	56.0	108	50.0	55.5	107	<1	75-125	<15
Lead	0.548	50.0	51.5	102	50.0	51.0	101	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.530	106	0.500	0.530	106	<1	75-125	<15
Molybdenum	0.125	50.0	56.6	113	50.0	56.1	112	<1	75-125	<15
Nickel	2.99	50.0	53.5	101	50.0	52.8	99.6	1.4	75-125	<15
Selenium	0.00	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15
Silver	0.00	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15
Thallium	0.00	50.0	49.0	98.0	50.0	49.4	98.8	<1	75-125	<15
Vanadium	10.2	50.0	67.2	114	50.0	66.7	113	<1	75-125	<15
Zinc	35.5	50.0	96.0	121	50.0	91.5	112	7.7	75-125	<15

QC Batch No: 0913172C8; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/13/2017; QC Analyzed: 09/15/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	58.4	117	50.0	58.3	117	<1	75-125	<15	
Arsenic	50.0	58.3	117	50.0	57.9	116	<1	75-125	<15	
Barium	50.0	59.6	119	50.0	59.3	119	<1	75-125	<15	
Beryllium	50.0	61.5	123	50.0	61.6	123	<1	75-125	<15	
Cadmium	50.0	57.9	116	50.0	57.8	116	<1	75-125	<15	
Chromium	50.0	57.4	115	50.0	57.2	114	<1	75-125	<15	
Cobalt	50.0	59.3	119	50.0	59.1	118	<1	75-125	<15	
Copper	50.0	53.9	108	50.0	53.6	107	<1	75-125	<15	
Lead	50.0	58.4	117	50.0	58.5	117	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C8; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/13/2017; QC Analyzed: 09/15/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.452	90.4	0.500	0.454	90.8	<1	75-125	<15	
Molybdenum	50.0	57.3	115	50.0	57.1	114	<1	75-125	<15	
Nickel	50.0	57.0	114	50.0	56.8	114	<1	75-125	<15	
Selenium	50.0	57.7	115	50.0	57.7	115	<1	75-125	<15	
Silver	50.0	56.2	112	50.0	56.0	112	<1	75-125	<15	
Thallium	50.0	61.4	123	50.0	61.0	122	<1	75-125	<15	
Vanadium	50.0	56.3	113	50.0	56.1	112	<1	75-125	<15	
Zinc	50.0	54.2	108	50.0	54.4	109	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

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Attn: Maclyn O'Donnell

Site

Wilmington Marine Services

Page: 17

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117-2; Dup or Spiked Sample: 89304.05; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	605	121	500	640	128	5.6	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	545	109	500	545	109	<1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	61.5	123	50.0	62.0	124	<1	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	69.0	138	50.0	71.0	142	2.9	30-150	<20

QC Batch No: 091117-2; Dup or Spiked Sample: 89304.05; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	480	96.0	500	311	62.2	42.7	50-150	<20	
Aroclor-1260 (PCB-1260)	500	374	74.8	500	353	70.6	5.8	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	50.0	99.9	50.0	47.3	94.6	5.4	30-150	<20	
Tetrachloro-m-xylene	50.0	54.5	109	50.0	57.5	115	5.4	30-150	<20	

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Wilmington Marine Services

Page: 18

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217-2; Dup or Spiked Sample: 89304.02; LCS: Clean Sand; QC Prepared: 09/12/2017; QC Analyzed: 09/12/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	470	94.0	500	550	110	15.7	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	510	102	500	500	100	2.0	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	59.0	118	50.0	62.0	124	5.0	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	75.0	150	50.0	68.0	136	9.8	30-150	<20

QC Batch No: 091217-2; Dup or Spiked Sample: 89304.02; LCS: Clean Sand; QC Prepared: 09/12/2017; QC Analyzed: 09/12/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	432	86.4	500	555	111	24.9	50-150	<20	
Aroclor-1260 (PCB-1260)	500	373	74.6	500	436	87.2	15.6	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	47.0	94.0	50.0	49.0	98.0	4.2	30-150	<20	
Tetrachloro-m-xylene	50.0	50.0	100	50.0	54.0	108	7.7	30-150	<20	

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Site

Wilmington Marine Services

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Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1; Dup or Spiked Sample: 89299.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	441	88.2	500	466	93.2	5.51	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	80.0	80.0	100	78.9	78.9	1.38	75-125	<20

QC Batch No: 091117PB1; Dup or Spiked Sample: 89299.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	468	93.6	500	473	94.6	1.06	75-125	<20	
Surrogates										
Chlorobenzene	100	91.1	91.1	100	90.5	90.5	<1	75-125	<20	

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Wilmington Marine Services

Page: 20

Project ID: 73479
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89304	08/21/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-1; Dup or Spiked Sample: 89304.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	19.9	19.0	4.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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Number of Pages 14
Date Received 08/22/2017
Date Reported 09/21/2017

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Job Number	Order Date	Client
89305	09/11/2017	T/T

Project ID: T73479.17
Project Name: Wilmington Marine Services
Site: Wilmington Marine Services

Enclosed please find results of analyses of 15 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

89305

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

102258

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Maelin O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd Pasadena CA 91107
PHONE:
FAX:
PROJECT NAME: Wilmington Marine Services (WMS)
PROJECT #: T73479.17
SITE NAME AND ADDRESS:
PO #:

AETL JOB No. 89089

Page 1 of 4

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C13) 8015	TPHd (C13-C44) 8015	TEPH 22 metals	Cd/Cr/Zn 7471	Vol Organics 8260B	PCBs 8082	Organo Pest	Diesel Pesticides	SVOCs
1 TB08222017	89089.01	8-22-17	0700	W			X								
2 TE-WMS-28-0.0	89089.02		0740	S	5	89305.01			X			X	X		
3 TE-WMS-30-0.0	89089.03		0752			89305.02						X	X		
4 TE-WMS-31-0.0	89089.04		0803			89305.03						X	X		
5 TE-WMS-29-0.5	89089.05		0812				X	X	X				X		
6 TE-WMS-29-2.0	89089.06		0819				X	X	X				X		
7 TE-WMS-29-2.0	89089.07		0823				X	X	X				X		
8 TE-WMS-29-5.0	89089.08		0827												
9 TE-WMS-29-10.0	89089.09		0835	V											
10 TE-WMS-29-CC			0844	composite											
11 TE-WMS-32-0.5	89089.10		0842	S		89305.04	X	X	X			X	X		
12 TE-WMS-32-1.0	89089.11		0850			89305.05	X	X	X			X	X		
13 TE-WMS-32-2.0	89089.12		0855		V	89305.06	X	X	X			X	X		
14 TE-WMS-32-5.0	89089.13		0906		14	89305.07						X	X		
15 TE-WMS-32-10.0	89089.14	V	0914	V	5	89305.08						X	X		

TEST INSTRUCTIONS & COMMENTS:
Tt standard EDD
VOC 8260 and TPHg
- 3 day TAT, Rest
normal TAT
Blank = Hold (0)

place on hold

MS/MSD

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	76	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fulcher	Printed Name:	Printed Name: Sanjiso
Date: 8-22-17 Time: 1530	Date: Time:	Date: 8/22/17 Time: 1500
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: Sanjiso	Printed Name:	Printed Name: Alin
Date: 8/22/17 Time: 1530	Date: Time:	Date: 08/22/17 Time: 1800

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

89305 102260

AETL JOB No. ~~89089~~

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Machen O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626 470-2405
FAX:
PROJECT NAME: Wilmington Marine Services (WMS)
PROJECT #: T73479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS: Tt standard EDD voc's + oxygenates and TPHg - 3 day TAT rest normal TAT (5) Blank = hold

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C_4-C_{12}) 8015	TPH (C_{13}-C_{40}) 8015	Title 22 Metals 6010/7471	VOC's + Oxygenates 82 GC/B	PCBs 8082 Soxhlet	Organotin	Moisture Percent	SVOC's	LEAD & Mercury	
1	Tt-WMS-33-0.5	89089.15	8-22-17	0927	S	5		X	X	X				X			
2	Tt-WMS-33-2.0	89089.16		0936	S	5		X	X	X				X			
3	Tt-WMS-33-2.0D	89089.17		0938	S	5		X	X	X				X			
4	Tt-WMS-33-5.0	~~89089.18~~		0944	S	5	89305-09							⊛		⊛	
5	Tt-WMS-33-10.0	~~89089.19~~		0957	S	5	89305-10							⊛		⊛	
6	Tt-WMS-28-CC	89089.20		1108	Asphalt	1						*					
7	~~Tt-WMS-29-CC~~			~~1110~~		~~1~~											
8	Tt-WMS-30-CC	89089.21		1112	Asphalt	1						*					
9	Tt-WMS-31-CC	89089.22		1120	Concrete	1						*					
10	Tt-WMS-32-CC	89089.23		1125	Concrete	1						*					
11	Tt-WMS-33-CC	89089.24		1135	Concrete	1						*					
12	Tt-WMS-15-0.5	89089.25		1115	S	5		X	X	X				X			
13	Tt-WMS-15-2.0	89089.26		1120	S	5		X	X	X				X			
14	Tt-WMS-15-5.0	89089.27		1126	S	5											
15	Tt-WMS-15-10.0	89089.28		1137	S	5											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	50	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: ☑ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature: [signature]	Signature:	Signature: [signature]
	Printed Name: Sean Fulcher	Printed Name:	Printed Name: Sergio P
	Date: 8-22-17 Time: 1530	Date: Time:	Date: 8/22/17 Time: 1800
RECEIVED BY:	Signature: [signature]	Signature:	Signature:
	Printed Name: Sergio P	Printed Name:	Printed Name:
	Date: 8/22/17 Time: 1530	Date: Time:	Date: 08/22/17 Time: 1800

RECEIVED BY LABORATORY: AETL

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CHAIN OF CUSTODY RECORD

89305

102261

AETL JOB No. 89089

Page 3 of 4

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Machin O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd Pasadena CA 91107
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Services
PROJECT #: 133479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS: TE STANDARD EDD VOCs + oxy and TPH(g) → 3 days TAT rush, the rest normal

TAT

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH (C4-C12) 8015	TPH (C9-C40) 8015	Tetra 22 Metals (Ag, Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn) 6020	Hg 7471	Oxygenates 8260B	Chromium	Moisture Percent	TVOC's Per Page Sample	Lead (AA)	Mercury (AA)	
1 Te-WMS-34-0.5	~~89089.29~~	8-22-17	1145	S	5		X	X	X	X		(X)			(X)	(X)	(0) Blank = Hold
2 Te-WMS-34-0.5 D	~~89089.30~~		1149				X	X	X	X		(X)			(X)	(X)	~~89305.11~~ AK
3 Te-WMS-34-2.0	89089.31		1200				X	X	X	X		X	X				~~89305.12~~ AK
4 Te-WMS-34-5.0	89089.32		1211									(X)				(X)	89305.11
5 Te-WMS-34-10.0	89089.33		1221									(X)				(X)	89305.12
6 Te-WMS-35-0.5	89089.34		1233				X	X	X			X					
7 Te-WMS-35-2.0	89089.35		1239				X	X	X			X	X				
8 Te-WMS-35-5.0	89089.36		1245														
9 Te-WMS-35-10.0	89089.37		1254														
10 Te-WMS-38-0.5	89089.38		1306				X	X	X	X		X	X	X			
11 Te-WMS-38-2.0	89089.39		1313				X	X	X			X					
12 Te-WMS-38-5.0	~~89089.40~~		1320														
13 Te-WMS-38-10.0	89089.41		1329				(X)					(X)					89305.13
14 Te-WMS-39-0.5	89089.42		1339				(X)					(X)					89305.14
15 Te-WMS-39-0.5 D	89089.43		1342				X	X	X	X		X		X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	75	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: [X] NORMAL [X] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [X] 3 DAYS

DATA DELIVERABLE REQUIRED: [ ] HARD COPY [ ] PDF [ ] GEOTRACKER (GLOBAL ID) ____ [ ] OTHER (PLEASE SPECIFY) ____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fletcher	Printed Name:	Printed Name: Jorgis-P
Date: 7-22-17 Time: 1530	Date: Time:	Date: 8/22/17 Time: 1800
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: Sam Ip	Printed Name:	Printed Name: Antin
Date: 8/22/17 Time: 1530	Date: Time:	Date: 08/22/17 Time: 1800

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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89305

CHAIN OF CUSTODY RECORD

102262

AETL JOB No. 89089

COMPANY: Tetra tech INC
PROJECT MANAGER: Eric Nelson / Maclyn O'donnell
COMPANY ADDRESS: 3475 E Foothill Blvd., Pasadena, CA 91107
PHONE / FAX: 626-470-2405
PROJECT NAME: Wilmington Marine Services
PROJECT #: 73479-17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C12) 8015	TPHd (C13-C40) 8015	Title 22 Metals 6010/7471	VOCs + Oxygenates 8260B	PCBs 8082 Soxhlet	Organotin	Moisture Percent	SVOCs			TEST INSTRUCTIONS & COMMENTS
Tt-WMS-39-2.0	89089.44	8-22-17	1349	S	14		X	X	X	X	X		X				VOCs + oxy and TPH(g) - 3 days TAT. The rest is normal TAT Blank = Hold STANDARD TE EOD
Tt-WMS-39-5.0	89089.45		1402	S	5					X	X			X			MS / MSD
Tt-WMS-39-10.0	89089.46		1410	S	5					X	*		*				89305.15
~~Tt-WMS~~																	
~~Tt-WMS~~																	
FB08222017	89089.47		1500	W	7		X	X		X							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	31	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y / (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME: [X] NORMAL [X] RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS [X] 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Ian Fulcher	Printed Name:	Printed Name: Jargis-P
Date: 8-22-17 Time: 1530	Date: Time:	Date: 8/22/17 Time: 1800
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Jargis-P	Printed Name:	Printed Name: Antin
Date: 8/22/17 Time: 1530	Date: Time:	Date: 08/22/17 Time: 1800

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

Subject: FW: WMS Additional analyses
Attachments: WMS additional supplemental analyses.pdf

From: Benfield, Heather [mailto:Heather.Benfield@tetratech.com]
Sent: Friday, September 8, 2017 6:19 PM
To: Jim Lin (jimL@aetlab.com); Cyrus
Cc: Nelson, Eric J; ODonnell, Maclyn
Subject: WMS Additional analyses

Jim and Cyrus,

Sorry for the late submittal on a Friday, but below is a list of additional analyses for samples. Most samples have not been analyzed and are on archive. Some have already been analyzed for metals. I think you should have plenty of samples remaining, but let me know if not.

We will have some additional soluble metal analyses to request later, but I wanted to have you start with the PCBs and TEPH analyses since we are technically already beyond the 14-day holding time. If you can extract all the samples as soon as possible and then analyze on a standard TAT that would be great. Please include moisture content for samples with a "1" in the table. The "done" under moisture content indicates that it has already been calculated.

Call or email me with any questions.

Lab work Order	Sample Date	Archived Sample ID	Additional analyses	Moisture content	Lab Sample ID
POLA89069	08/21/2017	Tt-WMS19-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.02
POLA89069	08/21/2017	Tt-WMS19-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.03
POLA89069	08/21/2017	Tt-WMS19-5.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89069.04
POLA89069	08/21/2017	Tt-WMS23-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.13
POLA89069	08/21/2017	Tt-WMS23-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.14
POLA89069	08/21/2017	Tt-WMS23-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.15
POLA89069	08/21/2017	Tt-WMS23-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.16
POLA89069	08/21/2017	Tt-WMS24-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.18
POLA89069	08/21/2017	Tt-WMS24-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.19
POLA89069	08/21/2017	Tt-WMS24-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.20
POLA89069	08/21/2017	Tt-WMS24-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.21
POLA89069	08/21/2017	Tt-WMS26-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.22
POLA89069	08/21/2017	Tt-WMS26-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.23
POLA89069	08/21/2017	Tt-WMS26-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.24
POLA89069	08/21/2017	Tt-WMS26-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.25
POLA89069	08/21/2017	Tt-WMS27-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.28
POLA89069	08/21/2017	Tt-WMS27-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.29
POLA89069	08/21/2017	Tt-WMS27-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.30
POLA89069	08/21/2017	Tt-WMS27-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.31
POLA89069	08/21/2017	Tt-WMS30-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.35

POLA89069	08/21/2017	Tt-WMS30-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.36
POLA89069	08/21/2017	Tt-WMS30-2.0D	PCBs with soxhlet extraction	done	Lab ID 89069.37
POLA89069	08/21/2017	Tt-WMS30-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.38
POLA89069	08/21/2017	Tt-WMS31-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.40
POLA89069	08/21/2017	Tt-WMS31-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.41
POLA89069	08/21/2017	Tt-WMS31-2.0D	PCBs with soxhlet extraction	done	Lab ID 89069.42
POLA89069	08/21/2017	Tt-WMS31-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.43

POLA89089	08/22/2017	Tt-WMS28-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.32
POLA89089	08/22/2017	Tt-WMS28-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.33
POLA89089	08/22/2017	Tt-WMS28-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.34
POLA89089	08/22/2017	Tt-WMS28-10.0	PCBs with soxhlet extraction	1	Lab ID ~~89069.35~~ 89089.01
POLA89089	08/22/2017	Tt-WMS30-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.~~02~~ 02
POLA89089	08/22/2017	Tt-WMS31-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.~~02~~ 04
POLA89089	08/22/2017	Tt-WMS32-0.5	PCBs with soxhlet extraction	done	Lab ID 89089.10
POLA89089	08/22/2017	Tt-WMS32-2.0	PCBs with soxhlet extraction	done	Lab ID 89089.11
POLA89089	08/22/2017	Tt-WMS32-2.0D	PCBs with soxhlet extraction	done	Lab ID 89089.12
POLA89089	08/22/2017	Tt-WMS32-5.0	PCBs with soxhlet extraction	1	Lab ID 89089.13
POLA89089	08/22/2017	Tt-WMS32-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.14
POLA89089	08/22/2017	Tt-WMS33-5.0	Pb and Hg	1	Lab ID 89089.18
POLA89089	08/22/2017	Tt-WMS33-10.0	Pb and Hg	1	Lab ID 89089.19
POLA89089	08/22/2017	Tt-WMS34-5.0	Pb	1	Lab ID 89089.29
POLA89089	08/22/2017	Tt-WMS34-10.0	Pb	1	Lab ID 89089.30
POLA89089	08/22/2017	Tt-WMS38-5.0	TEPH C13-C40	1	Lab ID 89089.40
POLA89089	08/22/2017	Tt-WMS38-10.0	TEPH C13-C40	1	Lab ID 89089.41
POLA89089	08/22/2017	Tt-WMS39-10	PCBs with soxhlet extraction	1	Lab ID 89089.46

POLA89125	08/24/2017	Tt-WMS18-0.5	PCBs with soxhlet extraction	done	Lab ID 89125.37
POLA89125	08/24/2017	Tt-WMS18-2.0	PCBs with soxhlet extraction	done	Lab ID 89125.38
POLA89125	08/24/2017	Tt-WMS18-5.0	PCBs with soxhlet extraction	1	Lab ID 89125.39
POLA89125	08/24/2017	Tt-WMS18-10.0	PCBs with soxhlet extraction	1	Lab ID 89125.40
POLA89125	08/24/2017	Tt-WMS19-10.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.46
POLA89125	08/24/2017	Tt-WMS20-2.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.49
POLA89125	08/24/2017	Tt-WMS20-5.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.50
POLA89125	08/24/2017	Tt-WMS20-10.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.51
POLA89125	08/24/2017	Tt-WMS6-5.0	Pb, PCBs with soxhlet extraction	1	Lab ID 89125.31
POLA89125	08/24/2017	Tt-WMS6-10.0	Pb, PCBs with soxhlet extraction	1	Lab ID 89125.32
POLA89125	08/24/2017	Tt-WMS7-6.0	TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.35
POLA89125	08/24/2017	Tt-WMS7-10.0	TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.36
POLA89125	08/24/2017	Tt-WMS8-5.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.13

POLA89125	08/24/2017	Tt-WMS8-10.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.14

Heather Benfield, P.E. | Associate Director
Direct: 626.470.2415 | Personal Fax: 626.470.2615

Tetra Tech | Engineering Department
3475 E. Foothill Blvd. | Pasadena, CA 91107 | www.tetratech.com

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/22/2017
Date Reported 09/21/2017

Job Number	Order Date	Client
89305	09/11/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 15 samples with the following specification on 09/11/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89305.01	Tt-WMS-28-10.0	08/22/2017	Soil	5
89305.02	Tt-WMS-30-10.0	08/22/2017	Soil	5
89305.03	Tt-WMS-31-10.0	08/22/2017	Soil	5
89305.07	Tt-WMS-32-5.0	08/22/2017	Soil	14
89305.08	Tt-WMS-32-10.0	08/22/2017	Soil	14
89305.15	Tt-WMS-39-10.0	08/22/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

89305.04	Tt-WMS-32-0.5	08/22/2017	Soil	5
89305.05	Tt-WMS-32-2.0	08/22/2017	Soil	5
89305.06	Tt-WMS-32-2.0D	08/22/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg

89305.09	Tt-WMS-33-5.0	08/22/2017	Soil	5
89305.10	Tt-WMS-33-10.0	08/22/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	09/18/2017	2	Normal	mg/Kg
7471A	09/18/2017	2	Normal	mg/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

89305.11	Tt-WMS-34-5.0	08/22/2017	Soil	5
89305.12	Tt-WMS-34-10.0	08/22/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
7471A	09/18/2017	2	Normal	mg/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

Continued

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/22/2017
Date Reported 09/21/2017

Job Number	Order Date	Client
89305	09/11/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89305.13	Tt-WMS-38-5.0	08/22/2017	Soil	5
89305.14	Tt-WMS-38-10.0	08/22/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	09/18/2017	2	Normal	mg/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Services

Page: 2

Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1

Our Lab I.D.			Method Blank	**89305.13**	**89305.14**		
Client Sample I.D.				Tt-WMS-38-5.0	Tt-WMS-38-10.0		
Date Sampled				08/22/2017	08/22/2017		
Date Prepared			09/11/2017	09/11/2017	09/11/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/11/2017	09/11/2017	09/11/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND		
Our Lab I.D.			Method Blank	**89305.13**	**89305.14**		
Surrogates	%Rec.Limit		**% Rec.**	**% Rec.**	**% Rec.**		
Chlorobenzene	75-125		96.9	104	101		

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117

Our Lab I.D.			Method Blank	89305.01	89305.02	89305.03	89305.04
Client Sample I.D.				Tt-WMS-28-1 0.0	Tt-WMS-30-1 0.0	Tt-WMS-31-1 0.0	Tt-WMS-32-0 .5
Date Sampled				08/22/2017	08/22/2017	08/22/2017	08/22/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89305.01	89305.02	89305.03	89305.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		115	114	109	105	103
Tetrachloro-m-xylene	30-150		146	144	147	144	140

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117

Our Lab I.D.			89305.05	89305.06	89305.07	89305.08	89305.15
Client Sample I.D.			Tt-WMS-32-2.0	Tt-WMS-32-2.0D	Tt-WMS-32-5.0	Tt-WMS-32-1 0.0	Tt-WMS-39-1 0.0
Date Sampled			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89305.05**	**89305.06**	**89305.07**	**89305.08**	**89305.15**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		111	98.0	98.0	110	121
Tetrachloro-m-xylene	30-150		137	128	141	144	143

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0913172C8

Our Lab I.D.			Method Blank	89305.09	89305.10		
Client Sample I.D.				Tt-WMS-33-5.0	Tt-WMS-33-10.0		
Date Sampled				08/22/2017	08/22/2017		
Date Prepared			09/13/2017	09/13/2017	09/13/2017		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			09/15/2017	09/15/2017	09/15/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.5	5.0	ND	ND	ND		

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 091417-5

Our Lab I.D.			Method Blank	89305.09	89305.10	89305.11	89305.12
Client Sample I.D.				Tt-WMS-33-5.0	Tt-WMS-33-10.0	Tt-WMS-34-5.0	Tt-WMS-34-10.0
Date Sampled				08/22/2017	08/22/2017	08/22/2017	08/22/2017
Date Prepared			09/14/2017	09/14/2017	09/14/2017	09/14/2017	09/14/2017
Preparation Method			7471A	7471A	7471A	7471A	7471A
Date Analyzed			09/14/2017	09/14/2017	09/14/2017	09/14/2017	09/14/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Mercury	0.1	0.2	ND	ND	ND	0.118J	0.459

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-2

Our Lab I.D.			Method Blank	89305.01	89305.02	89305.03	89305.07
Client Sample I.D.				Tt-WMS-28-1 0.0	Tt-WMS-30-1 0.0	Tt-WMS-31-1 0.0	Tt-WMS-32-5 .0
Date Sampled				08/22/2017	08/22/2017	08/22/2017	08/22/2017
Date Prepared			09/14/2017	09/14/2017	09/14/2017	09/14/2017	09/14/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2017	09/15/2017	09/15/2017	09/15/2017	09/15/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	21.8	23.8	23.0	21.7

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-2

Our Lab I.D.			89305.08	89305.09	89305.10	89305.11	89305.12
Client Sample I.D.			Tt-WMS-32-1 0.0	Tt-WMS-33-5 .0	Tt-WMS-33-1 0.0	Tt-WMS-34-5 .0	Tt-WMS-34-1 0.0
Date Sampled			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Date Prepared			09/14/2017	09/14/2017	09/14/2017	09/14/2017	09/14/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2017	09/15/2017	09/15/2017	09/15/2017	09/15/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	23.2	19.1	26.3	4.80	15.4

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-2

Our Lab I.D.			89305.13	89305.14	89305.15		
Client Sample I.D.			Tt-WMS-38-5.0	Tt-WMS-38-10.0	Tt-WMS-39-10.0		
Date Sampled			08/22/2017	08/22/2017	08/22/2017		
Date Prepared			09/14/2017	09/14/2017	09/14/2017		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/15/2017	09/15/2017	09/15/2017		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	21.6	34.9	25.7		

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0913172C8; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/13/2017; QC Analyzed: 09/15/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	0.00	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15

QC Batch No: 0913172C8; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/13/2017; QC Analyzed: 09/15/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	58.5	117	50.0	58.5	117	<1	75-125	<15	

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091117; Dup or Spiked Sample: 89279.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	379	75.8	500	364	72.8	4.0	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	438	87.6	500	395	79.0	10.3	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	42.6	85.2	50.0	42.8	85.6	<1	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	59.0	118	50.0	60.5	121	2.5	30-150	<20

QC Batch No: 091117; Dup or Spiked Sample: 89279.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	430	86.0	500	477	95.4	10.4	50-150	<20	
Aroclor-1260 (PCB-1260)	500	436	87.2	500	406	81.2	7.1	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	44.0	88.0	50.0	47.0	94.0	6.6	30-150	<20	
Tetrachloro-m-xylene	50.0	62.0	124	50.0	73.0	146	16.3	30-150	<20	

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1; Dup or Spiked Sample: 89299.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	441	88.2	500	466	93.2	5.51	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	80.0	80.0	100	78.9	78.9	1.38	75-125	<20

QC Batch No: 091117PB1; Dup or Spiked Sample: 89299.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	468	93.6	500	473	94.6	1.06	75-125	<20	
Surrogates										
Chlorobenzene	100	91.1	91.1	100	90.5	90.5	<1	75-125	<20	

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 091417-5; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/14/2017; QC Analyzed: 09/14/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Mercury	0.00	0.500	0.530	106	0.500	0.530	106	<1	75-125	<15

QC Batch No: 091417-5; Dup or Spiked Sample: 89305.09; LCS: Clean Sand; QC Prepared: 09/14/2017; QC Analyzed: 09/14/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury	0.500	0.452	90.4	0.500	0.454	90.8	<1	75-125	<15	

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Wilmington Marine Services

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Project ID: T73479.17
Project Name: Wilmington Marine Services

AETL Job Number	Submitted	Client
89305	08/22/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091417-2; Dup or Spiked Sample: 89305.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	21.8	21.7	<1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Number of Pages 19
Date Received 08/24/2017
Date Reported 09/21/2017

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Job Number	Order Date	Client
89306	09/11/2017	T/T

Project ID: T73479.17
Project Name: Wilmington Marine Service
Site: Wilmington Marine Service

Enclosed please find results of analyses of 14 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

102267

AETL JOB No. ~~89125~~ 89306

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Mindy O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Service
PROJECT #: T73479.17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH (C9-C44) 8015	TPH (C13-C40) 8015	Title 22 Metals (Cadio TAFT) MISTIME Percent	VOCs + oxygenates 8260B	SVOCs 8270C	PCBs 8082 Soxhlet				TEST INSTRUCTIONS & COMMENTS
TB08242017	89125.01	8-24-17	0715	S	4		X			X						
Tt-wms-16-0.5	89125.02		0738	S	5		X	X	X	X						
Tt-wms-16-2.0	89125.03		0743	S	5		X	X	X	X						
Tt-wms-16-2.0D	89125.04		0749	S	5		X	X	X	X						
Tt-wms-16-5.0	89125.05		0752	S	5											HOLD SAMPLE, PENDING
Tt-wms-16-10.0	89125.06		0759	S	5											HOLD SAMPLE, PENDING
Tt-wms-17-0.5	89125.07		0808	S	5		X	X	X	X						
Tt-wms-17-2.0	89125.08		0813	S	5		X	X	X	X						
Tt-wms-17-5.0	89125.09		0818	S	5											HOLD SAMPLE, PENDING
Tt-wms-17-10.0	89125.10		0825	S	5											HOLD SAMPLE, PENDING
Tt-wms-8-0.5	89125.11		0836	S	5		X	X	X	X						~~HOLD~~ AG MS/MSD
Tt-wms-8-2.0	89125.12		0841	S	10		X	X	X	X						
Tt-wms-8-5.0	~~89125.13~~		0847	S	5	89306.01		*	*	*		*				HOLD SAMPLE, PENDING
Tt-wms-8-10.0	~~89125.14~~		0855	S	5	89306.02		*	*	*		*				HOLD SAMPLE, PENDING
Tt-wms-4-0.5	89125.15		0902	S	5		X	X	X	X						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	79	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y N NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND	Y / N	SAMPLES ACCEPTED	Y N

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fletcher	Printed Name:	Printed Name: C. McMillan
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3. AETL
Signature:	Signature:	Signature:
Printed Name: CARLOS MCMILLAN	Printed Name:	Printed Name:
Date: 8/24/17 Time: 1604	Date: Time:	Date: 08/24/17 Time: 1850

TURN AROUND TIME: ☑ NORMAL ☑ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☑ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

ED_004566_00003134-00259

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CHAIN OF CUSTODY RECORD

102274

COMPANY: Tetra tech
PROJECT MANAGER: Eric Nelson, Maclyn Odonnell
COMPANY ADDRESS: 3475 E Foothill, Pasadena, CA 91107
PHONE: 626-351-4664
FAX:
PROJECT NAME: Wilmington Marine Service
PROJECT #: 73479.17
SITE NAME AND ADDRESS: Fries Ave, Wilmington, CA
PO #:
AETL JOB No: 89125

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPHg (C4-C12) 8015B	TPHd (C13-C40) 8015	Title 22 Metals Cd, Cr, Pb, Ni, Zn, Cu, As	VOCs + OXY 8260B	SVOCs 8270C	PCB's 8082 Soxhlet					TEST INSTRUCTIONS & COMMENTS
1 Tt-WMS-Blank	089125.16	8-24-17	0906	S	5		X	X	X								STANDARD TR EDD VOCs + OXY and TPH(g) require 3 day TAT The rest is normal TAT Blank = Hold
2 Tt-WMS-4-2.0	089125.17		0911	S	5		X	X	X								
3 Tt-WMS-4-5.0	89125.18		0915	S	5		X	X	X								
4 Tt-WMS-4-40.0	89125.19		0921	S	5												
5 Tt-WMS-40-0.5	89125.20		0935	S	5		X	X	X								
6 Tt-WMS-40-2.0	89125.21		0938	S	5		X	X	X								
7 Tt-WMS-40-5.0	89125.22		0943	S	5												
8 Tt-WMS-40-10.0	89125.23		0950	S	5												
9 Tt-WMS-5-0.5	89125.24		1000	S	5		X	X	X								
10 Tt-WMS-5-2.0	89125.25		1005	S	5		X	X	X								
11 Tt-WMS-5-5.0	89125.26		1010	S	5												
12 Tt-WMS-5-10.0	89125.27		1016	S	5												
13 Tt-WMS-6-0.5	89125.28		1029	S	5		X	X	X	X							
14 Tt-WMS-6-2.0	89125.29		1034	S	5		X	X	X								
15 Tt-WMS-6-20.0	89125.30		1038	S	5		X	X	X								

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	75	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☑ NORMAL ☑ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☑ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: 8/24/17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850

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CHAIN OF CUSTODY RECORD

89306 102273

AETL JOB No. 89125

COMPANY: Tetra tech
PROJECT MANAGER: Maelyn Odonnell, Eric Nelson
COMPANY ADDRESS: 3475 E Foothill, Pasadena, CA 91107
PHONE / FAX: 626-351-4664
PROJECT NAME: Wilmington Marine Services
PROJECT #: 73479.17
SITE NAME AND ADDRESS: Fries Ave, Wilmington, CA
PO #

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH (C4-C12) 8015	TPH (C13-C40) 8015	Title 22 Metals 6010/7471	Marine Percent	VOCs + Oxygenates 8260B	SVOCs	PCBs 8082 Soxhlet	LSD			TEST INSTRUCTIONS & COMMENTS
TE-WMS-6-5.0	89125.31	8-24-17	1045	S	5					⊛			⊛	⊛			STANDARD TE EDD VOCs 8015 and TPH(g) require 3 days TAT, The rest is normal TAT Black = Hold
TE-WMS-6-10.0	89125.32		1053	S	5					⊛			⊛	⊛			89306.03
TE-WMS-7-0.5	89125.33		1207	S	5		X	X	X	X							89306.04
TE-WMS-7-2.0	[redacted]		1218	S	10		X	X	X	X							
TE-WMS-7-6.0	89125.35		1230	S	5			⊛		⊛			⊛				MS/MSD
TE-WMS-7-10.0	89125.36		1235	S	5			⊛		⊛			⊛				89306.05
TE-WMS-18-0.5	89125.37		1255	S	5		X	X	X	X			⊛				89306.06
TE-WMS-18-2.0	89125.38		1300	S	5		X	X	X	X			⊛				89306.07
TE-WMS-18-5.0	89125.39		1305	S	5					⊛			⊛				89306.08
TE-WMS-18-10.0	89125.40		1313	S	5					⊛			⊛				89306.09
TE-WMS-21-0.5	89125.41		1323	S	5		X	X	X	X							89306.10
TE-WMS-21-2.0	89125.42		1328	S	5		X	X	X	X							
TE-WMS-21-2.0D	89125.43		1332	S	5		X	X	X	X							
TE-WMS-21-5.0	89125.44		1339	S	5		X	X	X	X							
TE-WMS-21-10.0	89125.45		1346	S	5		X	X	X	X							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	80	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME: ☐ NORMAL ☒ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Sean Fletcher	Printed Name:	Printed Name: Z Pamilgo
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature:
Printed Name: Z Pamilgo	Printed Name:	Printed Name:
Date: 8/24/17 Time: 1604	Date: Time:	Date: 08/24/17 Time: 1850

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

102275

AETL JOB No. 89306 ~~89125~~

COMPANY: Tetra Tech
PROJECT MANAGER: Eric Nelson / Marlya O'Donnell
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2405
FAX:
PROJECT NAME: Wilmington Marine Services
PROJECT #: 773479-17
SITE NAME AND ADDRESS:
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH(C4-C12) 8015	TPH(C13-C40) 8015	TPH 22 metals Calc TTLC MOISTURE Present	VOCs oxygenated 8260B	SVOCs	PCBs 8082	TPH 22 metals 6020 0.25 digest			TEST INSTRUCTIONS & COMMENTS
1 ~~Tt-wms-19-0.5~~ 10		8/24/17	1359	S	5	89306.11		⊛	⊛	⊛			⊛			STANDARD Tt EDD
2 Tt-wms-~~20-0.5~~ 0.5			1411	S	5		X	X	X	X	X		X			VOC's + Oxy and TPH(g)
3 Tt-wms-20-~~2.0~~ 0.5D			1415	S	5		X	X	X	X	X		X			requires 3 day TAT
4 Tt-wms-20-2.0			1420	S	5	89306.12		⊛	⊛	⊛			⊛			reso is normal TAT
5 Tt-wms-20-5.0			1425	S	5	89306.13		⊛	⊛	⊛			⊛			Blank = Hold
6 Tt-wms-20-10.0			1431	S	5	89306.14		⊛	⊛	⊛			⊛			~~89125.46~~
7 Tt-wms-9			1445	W	7		X	X		X		X	X			89125.47
8 Tt-wms-13			1530	W	7		X	X		X		X	X			89125.48
9 ~~Tt-wms-EBOD 8/24/17~~			1545	W	5		X	X		X						~~89125.49~~
10 Tt-wms-																~~89125.50~~
11 Tt-wms-																~~89125.51~~
12 ~~Tt-wms-~~																89125.52
13 ~~Tt-wms-~~																89125.53
14 Tt-wms-																89125.54
15 ~~Tt-wms-~~																

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	49	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

☐ NORMAL ☑ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☑ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Sean Fedeler	Printed Name:	Printed Name: [illegible]
Date: 8-24-17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.** AETL
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Guillermo Ramirez	Printed Name:	Printed Name: [illegible]
Date: 8/24/17 Time: 1604	Date: Time:	Date: 8/24/17 Time: 1850

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

Subject: FW: WMS Additional analyses
Attachments: WMS additional supplemental analyses.pdf

From: Benfield, Heather [mailto:Heather.Benfield@tetratech.com]
Sent: Friday, September 8, 2017 6:19 PM
To: Jim Lin (jimL@aetlab.com); Cyrus
Cc: Nelson, Eric J; ODonnell, Maclyn
Subject: WMS Additional analyses

Jim and Cyrus,

Sorry for the late submittal on a Friday, but below is a list of additional analyses for samples. Most samples have not been analyzed and are on archive. Some have already been analyzed for metals. I think you should have plenty of samples remaining, but let me know if not.

We will have some additional soluble metal analyses to request later, but I wanted to have you start with the PCBs and TEPH analyses since we are technically already beyond the 14-day holding time. If you can extract all the samples as soon as possible and then analyze on a standard TAT that would be great. Please include moisture content for samples with a "1" in the table. The "done" under moisture content indicates that it has already been calculated.

Call or email me with any questions.

Lab work Order	Sample Date	Archived Sample ID	Additional analyses	Moisture content	Lab Sample ID
POLA89069	08/21/2017	Tt-WMS19-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.02
POLA89069	08/21/2017	Tt-WMS19-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.03
POLA89069	08/21/2017	Tt-WMS19-5.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89069.04
POLA89069	08/21/2017	Tt-WMS23-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.13
POLA89069	08/21/2017	Tt-WMS23-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.14
POLA89069	08/21/2017	Tt-WMS23-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.15
POLA89069	08/21/2017	Tt-WMS23-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.16
POLA89069	08/21/2017	Tt-WMS24-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.18
POLA89069	08/21/2017	Tt-WMS24-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.19
POLA89069	08/21/2017	Tt-WMS24-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.20
POLA89069	08/21/2017	Tt-WMS24-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.21
POLA89069	08/21/2017	Tt-WMS26-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.22
POLA89069	08/21/2017	Tt-WMS26-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.23
POLA89069	08/21/2017	Tt-WMS26-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.24
POLA89069	08/21/2017	Tt-WMS26-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.25
POLA89069	08/21/2017	Tt-WMS27-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.28
POLA89069	08/21/2017	Tt-WMS27-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.29
POLA89069	08/21/2017	Tt-WMS27-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.30
POLA89069	08/21/2017	Tt-WMS27-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.31
POLA89069	08/21/2017	Tt-WMS30-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.35

POLA89069	08/21/2017	Tt-WMS30-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.36
POLA89069	08/21/2017	Tt-WMS30-2.0D	PCBs with soxhlet extraction	done	Lab ID 89069.37
POLA89069	08/21/2017	Tt-WMS30-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.38
POLA89069	08/21/2017	Tt-WMS31-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.40
POLA89069	08/21/2017	Tt-WMS31-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.41
POLA89069	08/21/2017	Tt-WMS31-2.0D	PCBs with soxhlet extraction	done	Lab ID 89069.42
POLA89069	08/21/2017	Tt-WMS31-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.43

POLA89089	08/22/2017	Tt-WMS28-0.5	PCBs with soxhlet extraction	done	Lab ID 89069.32
POLA89089	08/22/2017	Tt-WMS28-2.0	PCBs with soxhlet extraction	done	Lab ID 89069.33
POLA89089	08/22/2017	Tt-WMS28-5.0	PCBs with soxhlet extraction	1	Lab ID 89069.34
POLA89089	08/22/2017	Tt-WMS28-10.0	PCBs with soxhlet extraction	1	Lab ID 89069.35
POLA89089	08/22/2017	Tt-WMS30-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.02
POLA89089	08/22/2017	Tt-WMS31-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.02
POLA89089	08/22/2017	Tt-WMS32-0.5	PCBs with soxhlet extraction	done	Lab ID 89089.10
POLA89089	08/22/2017	Tt-WMS32-2.0	PCBs with soxhlet extraction	done	Lab ID 89089.11
POLA89089	08/22/2017	Tt-WMS32-2.0D	PCBs with soxhlet extraction	done	Lab ID 89089.12
POLA89089	08/22/2017	Tt-WMS32-5.0	PCBs with soxhlet extraction	1	Lab ID 89089.13
POLA89089	08/22/2017	Tt-WMS32-10.0	PCBs with soxhlet extraction	1	Lab ID 89089.14
POLA89089	08/22/2017	Tt-WMS33-5.0	Pb and Hg	1	Lab ID 89089.18
POLA89089	08/22/2017	Tt-WMS33-10.0	Pb and Hg	1	Lab ID 89089.19
POLA89089	08/22/2017	Tt-WMS34-5.0	Pb	1	Lab ID 89089.29
POLA89089	08/22/2017	Tt-WMS34-10.0	Pb	1	Lab ID 89089.30
POLA89089	08/22/2017	Tt-WMS38-5.0	TEPH C13-C40	1	Lab ID 89089.40
POLA89089	08/22/2017	Tt-WMS38-10.0	TEPH C13-C40	1	Lab ID 89089.41
POLA89089	08/22/2017	Tt-WMS39-10	PCBs with soxhlet extraction	1	Lab ID 89089.46

POLA89125	08/24/2017	Tt-WMS18-0.5	PCBs with soxhlet extraction	done	Lab ID 89125.37
POLA89125	08/24/2017	Tt-WMS18-2.0	PCBs with soxhlet extraction	done	Lab ID 89125.38
POLA89125	08/24/2017	Tt-WMS18-5.0	PCBs with soxhlet extraction	1	Lab ID 89125.39
POLA89125	08/24/2017	Tt-WMS18-10.0	PCBs with soxhlet extraction	1	Lab ID 89125.40
POLA89125	08/24/2017	Tt-WMS19-10.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.46
POLA89125	08/24/2017	Tt-WMS20-2.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.49
POLA89125	08/24/2017	Tt-WMS20-5.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.50
POLA89125	08/24/2017	Tt-WMS20-10.0	Title 22 metals, TEPH C13-C40, PCB with soxhlet extraction	1	Lab ID 89125.51
POLA89125	08/24/2017	Tt-WMS6-5.0	Pb, PCBs with soxhlet extraction	1	Lab ID 89125.31
POLA89125	08/24/2017	Tt-WMS6-10.0	Pb, PCBs with soxhlet extraction	1	Lab ID 89125.32
POLA89125	08/24/2017	Tt-WMS7-6.0	TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.35
POLA89125	08/24/2017	Tt-WMS7-10.0	TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.36
POLA89125	08/24/2017	Tt-WMS8-5.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.13

POLA89125	08/24/2017	Tt-WMS8-10.0	Title 22 metals, TEPH C13-C40, PCBs with soxhlet extraction	1	Lab ID 89125.14

Heather Benfield, P.E. | Associate Director
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Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 08/24/2017
Date Reported 09/21/2017

Job Number	Order Date	Client
89306	09/11/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 14 samples with the following specification on 09/11/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89306.01	Tt-WMS-8-5.0	08/24/2017	Soil	5
89306.02	Tt-WMS-8-10.0	08/24/2017	Soil	5
89306.11	Tt-WMS-19-10.0	08/24/2017	Soil	5
89306.12	Tt-WMS-20-2.0	08/24/2017	Soil	5
89306.13	Tt-WMS-20-5.0	08/24/2017	Soil	5
89306.14	Tt-WMS-20-10.0	08/24/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	09/18/2017	2	Normal	mg/Kg
(8082)	09/18/2017	2	Normal	ug/Kg
(M8015D) ^ C13-C40	09/18/2017	2	Normal	mg/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

89306.03	Tt-WMS-6-5.0	08/24/2017	Soil	5
89306.04	Tt-WMS-6-10.0	08/24/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	09/18/2017	2	Normal	mg/Kg
(8082)	09/18/2017	2	Normal	ug/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

89306.05	Tt-WMS-7-6.0	08/24/2017	Soil	10
89306.06	Tt-WMS-7-10.0	08/24/2017	Soil	10

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg
(M8015D) ^ C13-C40	09/18/2017	2	Normal	mg/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

89306.07	Tt-WMS-18-0.5	08/24/2017	Soil	5
89306.08	Tt-WMS-18-2.0	08/24/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg

Continued

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Project ID: T73479.17
Date Received 08/24/2017
Date Reported 09/21/2017

Job Number	Order Date	Client
89306	09/11/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89306.09	Tt-WMS-18-5.0	08/24/2017	Soil	5
89306.10	Tt-WMS-18-10.0	08/24/2017	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	09/18/2017	2	Normal	ug/Kg
ASTM-D2216	09/18/2017	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Wilmington Marine Service

Page: 2

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1

Our Lab I.D.			Method Blank	**89306.01**	**89306.02**		
Client Sample I.D.				Tt-WMS-8-5.0	Tt-WMS-8-10.0		
Date Sampled				08/24/2017	08/24/2017		
Date Prepared			09/11/2017	09/11/2017	09/11/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/11/2017	09/11/2017	09/12/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND		
Our Lab I.D.			Method Blank	**89306.01**	**89306.02**		
Surrogates	%Rec.Limit		**% Rec.**	**% Rec.**	**% Rec.**		
Chlorobenzene	75-125		96.9	103	104		

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Wilmington Marine Service

Page: 3

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1

Our Lab I.D.			**89306.05**				
Client Sample I.D.			Tt-WMS-7-6.0				
Date Sampled			08/24/2017				
Date Prepared			09/11/2017				
Preparation Method			3550B				
Date Analyzed			09/12/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	2.0	10	3,810				
TPH as Heavy Hydrocarbons (C23-C40)	2.0	10	3,920				
TPH Total as Diesel and Heavy HC.C13-C40	2.0	10	7,730				
Our Lab I.D.			**89306.05**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		102				

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Wilmington Marine Service

Page: 4

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1

Our Lab I.D.			89306.06	89306.11	89306.12	89306.13	89306.14
Client Sample I.D.			Tt-WMS-7-10.0	Tt-WMS-19-10.0	Tt-WMS-20-2.0	Tt-WMS-20-5.0	Tt-WMS-20-10.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	67.4	569	22.6	519
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	190	749	59.3	999
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	257	1,320	81.9	1,520
Our Lab I.D.			**89306.06**	**89306.11**	**89306.12**	**89306.13**	**89306.14**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		104	103	104	103	105

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217

Our Lab I.D.			Method Blank	89306.01	89306.02	89306.03	89306.04
Client Sample I.D.				Tt-WMS-8-5.0	Tt-WMS-8-10.0	Tt-WMS-6-5.0	Tt-WMS-6-10.0
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89306.01	89306.02	89306.03	89306.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		81.2	117	116	123	124
Tetrachloro-m-xylene	30-150		93.0	145	142	147	148

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Wilmington Marine Service

Page: 6

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217

Our Lab I.D.			89306.05	89306.06	89306.07	89306.08	89306.09
Client Sample I.D.			Tt-WMS-7-6.0	Tt-WMS-7-10.0	Tt-WMS-18-0.5	Tt-WMS-18-2.0	Tt-WMS-18-5.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	1,490	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	483	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89306.05**	**89306.06**	**89306.07**	**89306.08**	**89306.09**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		137	133	92.7	102	115
Tetrachloro-m-xylene	30-150		149	137	108	131	142

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217

Our Lab I.D.			89306.10	89306.11	89306.12	89306.13	89306.14
Client Sample I.D.			Tt-WMS-18-1 0.0	Tt-WMS-19-1 0.0	Tt-WMS-20-2 .0	Tt-WMS-20-5 .0	Tt-WMS-20-1 0.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	6,580	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	9,120	2,330	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**89306.10**	**89306.11**	**89306.12**	**89306.13**	**89306.14**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		104	121	126	100	113
Tetrachloro-m-xylene	30-150		145	118	120	112	120

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Wilmington Marine Service

Page: 8

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C6

Our Lab I.D.			Method Blank	89306.01	89306.02	89306.11	89306.12
Client Sample I.D.				Tt-WMS-8-5.0	Tt-WMS-8-10.0	Tt-WMS-19-10.0	Tt-WMS-20-2.0
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/13/2017	09/13/2017	09/13/2017	09/13/2017	09/13/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2017	09/15/2017	09/15/2017	09/15/2017	09/15/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	2.03J	ND	ND	5.40
Barium	2.5	5.0	ND	39.5	96.0	84.7	187
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	7.52	17.3	15.7	40.7
Cobalt	2.5	5.0	ND	4.07J	9.22	7.57	3.99J
Copper	2.5	5.0	ND	50.1	16.4	17.8	6,450
Lead	2.5	5.0	ND	10.2	3.23J	11.2	212
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	0.112J	3.46
Molybdenum	2.5	5.0	ND	ND	ND	ND	15.9
Nickel	2.5	5.0	ND	4.99J	12.4	10.5	23.6
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	14.1	32.0	27.5	3.53J
Zinc	2.5	5.0	ND	58.1	49.1	1,180	1,240

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C6

Our Lab I.D.			89306.13	89306.14			
Client Sample I.D.			Tt-WMS-20-5.0	Tt-WMS-20-10.0			
Date Sampled			08/24/2017	08/24/2017			
Date Prepared			09/13/2017	09/13/2017			
Preparation Method			3050B	3050B			
Date Analyzed			09/15/2017	09/15/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	16.0	15.8			
Barium	2.5	5.0	84.7	160			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	19.0	26.6			
Cobalt	2.5	5.0	2.50J	7.75			
Copper	2.5	5.0	4,360	265			
Lead	2.5	5.0	186	129			
Mercury (By EPA 7471)	0.1	0.2	3.47	9.09			
Molybdenum	2.5	5.0	ND	4.39J			
Nickel	2.5	5.0	7.89	27.9			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	1.0	5.0	ND	ND			
Vanadium	2.5	5.0	8.75	37.8			
Zinc	2.5	5.0	806	526			

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Site

Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0913172C6

Our Lab I.D.			Method Blank	89306.03	89306.04		
Client Sample I.D.				Tt-WMS-6-5.0	Tt-WMS-6-10.0		
Date Sampled				08/24/2017	08/24/2017		
Date Prepared			09/13/2017	09/13/2017	09/13/2017		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			09/15/2017	09/15/2017	09/15/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.5	5.0	ND	ND	ND		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091217-1

Our Lab I.D.			Method Blank	89306.01	89306.02	89306.03	89306.04
Client Sample I.D.				Tt-WMS-8-5.0	Tt-WMS-8-10.0	Tt-WMS-6-5.0	Tt-WMS-6-10.0
Date Sampled				08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/13/2017	09/13/2017	09/13/2017	09/13/2017	09/13/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	19.5	30.0	25.1	22.2

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091217-1

Our Lab I.D.			89306.05	89306.06	89306.09	89306.10	89306.11
Client Sample I.D.			Tt-WMS-7-6.0	Tt-WMS-7-10.0	Tt-WMS-18-5.0	Tt-WMS-18-10.0	Tt-WMS-19-10.0
Date Sampled			08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
Date Prepared			09/12/2017	09/12/2017	09/12/2017	09/12/2017	09/12/2017
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/13/2017	09/13/2017	09/13/2017	09/13/2017	09/13/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	20.2	20.6	26.1	22.4	20.1

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091217-1

Our Lab I.D.			89306.12	89306.13	89306.14		
Client Sample I.D.			Tt-WMS-20-2.0	Tt-WMS-20-5.0	Tt-WMS-20-10.0		
Date Sampled			08/24/2017	08/24/2017	08/24/2017		
Date Prepared			09/12/2017	09/12/2017	09/12/2017		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/13/2017	09/13/2017	09/13/2017		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	4.50	19.5	16.6		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0913172C6; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/13/2017;MS AND SD Analyzed: 09/15/2017; LCS Analyzed: 09/14/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	10.2	50.0	52.6	84.8	50.0	52.7	85.0	<1	75-125	<15

QC Batch No: 0913172C6; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/13/2017;MS AND SD Analyzed: 09/15/2017; LCS Analyzed: 09/14/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	47.9	95.8	50.0	48.4	96.8	1.0	75-125	<15	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C6; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/13/2017;MS AND SD Analyzed: 09/15/2017; LCS Analyzed: 09/14/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	58.5	117	50.0	58.5	117	<1	75-125	<15
Arsenic	2.03	50.0	62.0	120	50.0	62.0	120	<1	75-125	<15
Barium	39.5	50.0	90.0	101	50.0	92.0	105	3.9	75-125	<15
Beryllium	0.00	50.0	63.5 #	127	50.0	65.0 #	130	2.3	75-125	<15
Cadmium	0.00	50.0	58.0	116	50.0	58.0	116	<1	75-125	<15
Chromium	7.52	50.0	64.0	113	50.0	64.5	114	<1	75-125	<15
Cobalt	4.07	50.0	59.1	110	50.0	59.6	111	<1	75-125	<15
Copper	50.1	50.0	60.8 #	21.4	50.0	62.8 #	25.4	17.1	75-125	<15
Lead	10.2	50.0	52.6	84.8	50.0	52.7	85.0	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.471	94.2	0.500	0.468	93.6	<1	75-125	<15
Molybdenum	0.00	50.0	55.0	110	50.0	55.5	111	<1	75-125	<15
Nickel	4.99	50.0	59.0	108	50.0	59.0	108	<1	75-125	<15
Selenium	0.00	50.0	57.5	115	50.0	57.0	114	<1	75-125	<15
Silver	0.00	50.0	54.0	108	50.0	55.0	110	1.8	75-125	<15
Thallium	0.00	50.0	46.5	93.0	50.0	46.9	93.8	<1	75-125	<15
Vanadium	14.1	50.0	70.1	112	50.0	71.6	115	2.6	75-125	<15
Zinc	58.1	50.0	80.2 #	44.2	50.0	80.4 #	44.6	<1	75-125	<15

QC Batch No: 0913172C6; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/13/2017;MS AND SD Analyzed: 09/15/2017; LCS Analyzed: 09/14/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Arsenic	50.0	51.5	103	50.0	52.1	104	<1	75-125	<15	
Barium	50.0	47.6	95.2	50.0	47.3	94.6	<1	75-125	<15	
Beryllium	50.0	55.6	111	50.0	55.8	112	<1	75-125	<15	
Cadmium	50.0	49.2	98.4	50.0	48.2	96.4	2.1	75-125	<15	
Chromium	50.0	49.4	98.8	50.0	51.8	104	5.1	75-125	<15	
Cobalt	50.0	49.9	99.8	50.0	49.8	99.6	<1	75-125	<15	
Copper	50.0	52.8	106	50.0	50.7	101	4.8	75-125	<15	
Lead	50.0	47.9	95.8	50.0	48.4	96.8	1.0	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0913172C6; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/13/2017;MS AND SD Analyzed: 09/15/2017; LCS Analyzed: 09/14/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.500	100	0.500	0.499	99.8	<1	75-125	<15	
Molybdenum	50.0	49.2	98.4	50.0	49.1	98.2	<1	75-125	<15	
Nickel	50.0	48.9	97.8	50.0	48.6	97.2	<1	75-125	<15	
Selenium	50.0	52.1	104	50.0	53.2	106	1.9	75-125	<15	
Silver	50.0	52.4	105	50.0	50.9	102	2.9	75-125	<15	
Thallium	50.0	50.8	102	50.0	50.9	102	<1	75-125	<15	
Vanadium	50.0	50.2	100	50.0	49.5	99.0	1.0	75-125	<15	
Zinc	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 091217; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/12/2017; QC Analyzed: 09/12/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	555	111	500	455	91.0	19.8	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	479	95.8	500	535	107	11.0	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	56.0	112	50.0	64.0	128	13.3	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	61.0	122	50.0	69.0	138	12.3	30-150	<20

QC Batch No: 091217; Dup or Spiked Sample: 89306.01; LCS: Clean Sand; QC Prepared: 09/12/2017; QC Analyzed: 09/12/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	346	69.2	500	324	64.8	6.6	50-150	<20	
Aroclor-1260 (PCB-1260)	500	354	70.8	500	375	75.0	5.8	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	44.0	88.0	50.0	49.0	98.0	10.8	30-150	<20	
Tetrachloro-m-xylene	50.0	54.0	108	50.0	42.0	84.0	25.0	30-150	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 091117PB1; Dup or Spiked Sample: 89299.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	441	88.2	500	466	93.2	5.51	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	80.0	80.0	100	78.9	78.9	1.38	75-125	<20

QC Batch No: 091117PB1; Dup or Spiked Sample: 89299.01; LCS: Clean Sand; QC Prepared: 09/11/2017; QC Analyzed: 09/11/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	468	93.6	500	473	94.6	1.06	75-125	<20	
Surrogates										
Chlorobenzene	100	91.1	91.1	100	90.5	90.5	<1	75-125	<20	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
89306	08/24/2017	T/T

Method: ASTM-D2216, Moisture Content

QC Batch No: MO091217-1; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	19.5	19.1	2.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages 87
Date Received 11/08/2017
Date Reported 11/22/2017

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Job Number	Order Date	Client
90161	11/08/2017	T/T

Project ID: T73479.17
Project Name: Wilmington Marine Service
Site: Wilmington Marine Service

Enclosed please find results of analyses of 39 soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

104466

AETL JOB No. 90161

Page 1 of 3

COMPANY: TETRA Tech
PROJECT MANAGER: Maclyn O'Donnell
COMPANY ADDRESS: 3475 East Foothill Blvd
PHONE: 626-470-2391
FAX:
PROJECT NAME: Wilmington Marine
PROJECT #: T7347917
SITE NAME AND ADDRESS: Wilmington Marine
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH C_{13}-C_{40}	PCBS	Ti-Hg22	TEST INSTRUCTIONS & COMMENTS
Tt-WMS54-0	90161.01	11/8/17	0811	S	1		X	X	X	
Tt-WMS54-2.5	90161.02	11/8/17	0813	S	1		X	X	X	
Tt-WMS54-5.0	90161.03		0827	S	1		X	X	X	
Tt-WMS54-10.0	90161.04		0834	S	1		X		X	
Tt-WMS53-0.0	90161.05		0838	S	1		X	X	X	
Tt-WMS53-2.5	90161.06		0848	S	1		X	X	X	
Tt-WMS-53-5.0	90161.07		0900	S	1		X	X	X	
Tt-WMS-53-10.0	90161.08		0905	S	1		X		X	
Tt-WMS-55-0.0	90161.09		0910	S	1		X	X	X	
Tt-WMS-55-2.5	90161.10		0915	S	1		X	X	X	
Tt-WMS-55-5.0	90161.11		0927	S	1		X	X	X	
Tt-WMS-55-10.0	90161.12		0932	S	1		X		X	
Tt-WMS-52-0.0	90161.13		0942	S	1		X	X	X	
Tt-WMS-52-0.0	90161.14		—	S	1		X	X	X	Hold
Tt-WMS-52-2.5	90161.15		0955	S	1		X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☒ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Rick Olson	Printed Name:	Printed Name:
Date: 11/08/17 Time: 1520	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 11/08/17 Time: 1520

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

104465

COMPANY: Tetra-tech
PROJECT MANAGER: Maclyn Odonnell
COMPANY ADDRESS: 348 E. Foothill BLVD, PASADENA
PHONE: 626-470-2391
PROJECT NAME: Wilmington Marine Services
PROJECT #:
SITE NAME AND ADDRESS: Port of L.A.
PO #: 73479.17

AETL JOB No. 90161

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH Ca-Cu	PCBs	Title 22	TEST INSTRUCTIONS & COMMENTS
TK-WMS-52-5.0	90161.16	11/8/17	1004	S		1	X	X	X	
TK-WMS-52-10.0	90161.17		1009	S		1	X	X	X	
TK-WMS-51-0.0	90161.18		1021	S		1	X	X	X	
TK-WMS-51-2.5	90161.19		1028	S		1	X	X	X	
TK-WMS-51-2.5D	90161.20		—	S		1	X	X	X	Hold
TK-WMS-50-5.0	90161.21		1039	S		1	X	X	X	
TK-WMS-50-10.0	90161.22		1043	S		1	X	X	X	
TK-WMS-50-2.5	90161.23		1100	S		1	X	X	X	
TK-WMS-50-5.0	90161.24		1105	S		1	X	X	X	
TK-WMS-50-10.0	90161.25		1108	S		1	X	X	X	
TK-WMS-48-0.0	90161.26		1113	S		1	X	X	X	
TK-WMS-48-5.0	90161.27		1135	S		1	X	X	X	
TK-WMS-48-2.5	90161.28		1130	S		1	X	X	X	
TK-WMS-48-10.0	90161.29		1139	S		1	X	X	X	
TK-WMS-49-0.0	90161.30	↓	1120	S		1	X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

[X] NORMAL [ ] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

[ ] HARD COPY
[ ] PDF
[X] GEOTRACKER (GLOBAL ID) _____
[ ] OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Michael Sy	Printed Name:	Printed Name:
Date: 11/08/17 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Leon Sande
Date: Time:	Date: Time:	Date: 11/08/17 Time: 1520

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

ED_004566_00003134-00290

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CHAIN OF CUSTODY RECORD

104464

AETL JOB No. 9016

COMPANY: Tetra Tech
PROJECT MANAGER: Marlyn Donnell
COMPANY ADDRESS: 3475 E. Foothill Blvd, Pasadena, CA 91107
PHONE: 626-470-2391
FAX:
PROJECT NAME: Wilmington Marina Services
PROJECT #: 73479.07
SITE NAME AND ADDRESS: Port of L.A.
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TPH C13-C40	PCBs	Title 22	TEST INSTRUCTIONS & COMMENTS
TE-WMS-49-2.5	9016.31	11-8-17	1120	S	1	None	X	X	X	
TE-WMS-49-2.5D	9016.32		—	S	1		X	X	X	Hold
TE-WMS-49-5.0	9016.33		1235	S	1		X	X	X	
TE-WMS-49-10.0	9016.34		1238	S	1		X	X	X	
TE-WMS-46-0.0	9016.35		1245	S	1		X	X	X	
TE-WMS-46-2.5	9016.36		1248	S	1		X	X	X	
TE-WMS-46-5.0	9016.37		1255	S	1		X	X	X	
TE-WMS-46-10.0	9016.38		1303	S	1		X	X	X	
TE-WMS-47-0.0	9016.39		1320	S	1		X	X	X	
TE-WMS-47-2.5	9016.40		1315	S	1		X	X	X	
TE-WMS-47-0.0D	9016.41		—	S	1		X	X	X	Hold
TE-WMS-47-5.0	9016.42		1325	S	1		X	X	X	
TE-WMS-47-10.0	9016.43		1328	S	1		X	X	X	
~~TE-WMS~~-EB110817	9016.44		1400	W	3		X	X	X	Poly Acid Preserve
~~TE-WMS~~				S						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☒ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Brad Taylor	Printed Name:	Printed Name:
Date: 11/08/17 Time: 1520	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Jeff Claude
Date: Time:	Date: Time:	Date: 11/08/17 Time: 1520

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

ED_004566_00003134-00291

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name: Wilmington Foothill Blvd
AETL Job Number: 90161
Date Received: 11/08/17 Received by: Jean Claude
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 2.6°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☒ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Acid-tubes
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	X		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 11/08/2017
Date Reported 11/22/2017

Job Number	Order Date	Client
90161	11/08/2017	T/T

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 44 samples with the following specification on 11/08/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
90161.44	EB110817	11/08/2017	Aqueous	3

Method ^ Submethod	Req Date	Priority	TAT	Units
6010/7000CAM	11/15/2017	2	Normal	mg/L
7470A	11/15/2017	2	Normal	mg/L
8082	11/15/2017	2	Normal	ug/L
M8015D ^ C13-C40	11/15/2017	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
90161.01	Tt-WMS-54-0.0	11/08/2017	Soil	1
90161.02	Tt-WMS-54-2.5	11/08/2017	Soil	1
90161.03	Tt-WMS-54-5.0	11/08/2017	Soil	1
90161.05	Tt-WMS-53-0.0	11/08/2017	Soil	1
90161.06	Tt-WMS-53-2.5	11/08/2017	Soil	1
90161.07	Tt-WMS-53-5.0	11/08/2017	Soil	1
90161.09	Tt-WMS-55-0.0	11/08/2017	Soil	1
90161.10	Tt-WMS-55-2.5	11/08/2017	Soil	1
90161.11	Tt-WMS-55-5.0	11/08/2017	Soil	1
90161.13	Tt-WMS-52-0.0	11/08/2017	Soil	1
90161.15	Tt-WMS-52-2.5	11/08/2017	Soil	1
90161.16	Tt-WMS-52-5.0	11/08/2017	Soil	1
90161.18	Tt-WMS-51-0.0	11/08/2017	Soil	1
90161.19	Tt-WMS-51-2.5	11/08/2017	Soil	1
90161.21	Tt-WMS-51-5.0	11/08/2017	Soil	1
90161.23	Tt-WMS-50-2.5	11/08/2017	Soil	1
90161.24	Tt-WMS-50-5.0	11/08/2017	Soil	1
90161.26	Tt-WMS-48-0.0	11/08/2017	Soil	1

Continued

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Ordered By

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3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 11/08/2017
Date Reported 11/22/2017

Job Number	Order Date	Client
90161	11/08/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

90161.27	Tt-WMS-48-5.0	11/08/2017	Soil	1
90161.28	Tt-WMS-48-2.5	11/08/2017	Soil	1
90161.30	Tt-WMS-49-0.0	11/08/2017	Soil	1
90161.31	Tt-WMS-49-2.5	11/08/2017	Soil	1
90161.33	Tt-WMS-49-5.0	11/08/2017	Soil	1
90161.35	Tt-WMS-46-0.0	11/08/2017	Soil	1
90161.36	Tt-WMS-46-2.5	11/08/2017	Soil	1
90161.37	Tt-WMS-46-5.0	11/08/2017	Soil	1
90161.39	Tt-WMS-47-0.0	11/08/2017	Soil	1
90161.40	Tt-WMS-47-2.5	11/08/2017	Soil	1
90161.42	Tt-WMS-47-5.0	11/08/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	11/15/2017	2	Normal	mg/Kg
(8082)	11/15/2017	2	Normal	ug/Kg
(M8015D) ^ C13-C40	11/15/2017	2	Normal	mg/Kg
7471A	11/15/2017	2	Normal	mg/Kg

90161.04	Tt-WMS-54-10.0	11/08/2017	Soil	1
90161.08	Tt-WMS-53-10.0	11/08/2017	Soil	1
90161.12	Tt-WMS-55-10.0	11/08/2017	Soil	1
90161.17	Tt-WMS-52-10.0	11/08/2017	Soil	1
90161.22	Tt-WMS-51-10.0	11/08/2017	Soil	1
90161.25	Tt-WMS-50-10.0	11/08/2017	Soil	1
90161.29	Tt-WMS-48-10.0	11/08/2017	Soil	1
90161.34	Tt-WMS-49-10.0	11/08/2017	Soil	1
90161.38	Tt-WMS-46-10.0	11/08/2017	Soil	1
90161.43	Tt-WMS-47-10.0	11/08/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	11/15/2017	2	Normal	mg/Kg
(M8015D) ^ C13-C40	11/15/2017	2	Normal	mg/Kg
7471A	11/15/2017	2	Normal	mg/Kg

Continued

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Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attention: Maclyn O'Donnell

Project ID: T73479.17
Date Received 11/08/2017
Date Reported 11/22/2017

Job Number	Order Date	Client
90161	11/08/2017	T/T

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
90161.14	Tt-WMS-52-0.0D	11/08/2017	Soil	1
90161.20	Tt-WMS-51-2.5D	11/08/2017	Soil	1
90161.32	Tt-WMS-49-2.5D	11/08/2017	Soil	1
90161.41	Tt-WMS-47-0.0D	11/08/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	11/15/2017	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 2

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			Method Blank	90161.01	90161.02	90161.03	90161.04
Client Sample I.D.				Tt-WMS-54-0.0	Tt-WMS-54-2.5	Tt-WMS-54-5.0	Tt-WMS-54-10.0
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	96.6	ND	585	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	807	160	1,510	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	904	160	2,100	ND
Our Lab I.D.			Method Blank	90161.01	90161.02	90161.03	90161.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		105	110	112	110	108

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ANALYTICAL RESULTS

Ordered By

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3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 3

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			**90161.05**	**90161.06**			
Client Sample I.D.			Tt-WMS-53-0.0	Tt-WMS-53-2.5			
Date Sampled			11/08/2017	11/08/2017			
Date Prepared			11/10/2017	11/10/2017			
Preparation Method			3550B	3550B			
Date Analyzed			11/10/2017	11/10/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	754	546			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	1,740	1,170			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	2,490	1,720			
Our Lab I.D.			**90161.05**	**90161.06**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		107	112			

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
3475 East Foothill Boulevard
Pasadena, CA 91107-6024

Telephone: (626)351-4664
Attn: Maclyn O'Donnell

Site

Wilmington Marine Service

Page: 4

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			**90161.07**				
Client Sample I.D.			Tt-WMS-53-5 .0				
Date Sampled			11/08/2017				
Date Prepared			11/10/2017				
Preparation Method			3550B				
Date Analyzed			11/10/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	2.0	10	427				
TPH as Heavy Hydrocarbons (C23-C40)	2.0	10	5,710				
TPH Total as Diesel and Heavy HC.C13-C40	2.0	10	6,140				
Our Lab I.D.			**90161.07**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		104				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			90161.08	90161.09	90161.10		
Client Sample I.D.			Tt-WMS-53-1 0.0	Tt-WMS-55-0 .0	Tt-WMS-55-2 .5		
Date Sampled			11/08/2017	11/08/2017	11/08/2017		
Date Prepared			11/10/2017	11/10/2017	11/10/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			11/10/2017	11/10/2017	11/10/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Diesel (C13-C22)	1.0	5.0	ND	2,760	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	116	209	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	116	2,970	ND		
Our Lab I.D.			**90161.08**	**90161.09**	**90161.10**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Chlorobenzene	75-125		111	123	111		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			**90161.11**				
Client Sample I.D.			Tt-WMS-55-5 .0				
Date Sampled			11/08/2017				
Date Prepared			11/10/2017				
Preparation Method			3550B				
Date Analyzed			11/10/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	2.0	10	1,200				
TPH as Heavy Hydrocarbons (C23-C40)	2.0	10	1,440				
TPH Total as Diesel and Heavy HC.C13-C40	2.0	10	2,640				
Our Lab I.D.			**90161.11**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		106				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			90161.12	90161.13	90161.15	90161.16	90161.17
Client Sample I.D.			Tt-WMS-55-10.0	Tt-WMS-52-0.0	Tt-WMS-52-2.5	Tt-WMS-52-5.0	Tt-WMS-52-10.0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			**90161.12**	**90161.13**	**90161.15**	**90161.16**	**90161.17**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		112	113	118	111	108

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			**90161.18**	**90161.19**			
Client Sample I.D.			Tt-WMS-51-0.0	Tt-WMS-51-2.5			
Date Sampled			11/08/2017	11/08/2017			
Date Prepared			11/10/2017	11/10/2017			
Preparation Method			3550B	3550B			
Date Analyzed			11/10/2017	11/11/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	1.0	5.0	ND	74.5			
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	243			
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	318			
Our Lab I.D.			**90161.18**	**90161.19**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	75-125		107	107			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			**90161.21**				
Client Sample I.D.			Tt-WMS-51-5 .0				
Date Sampled			11/08/2017				
Date Prepared			11/10/2017				
Preparation Method			3550B				
Date Analyzed			11/10/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	5	25	6,860				
TPH as Heavy Hydrocarbons (C23-C40)	5	25	12,500				
TPH Total as Diesel and Heavy HC.C13-C40	5	25	19,400				
Our Lab I.D.			**90161.21**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		98.9				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2

Our Lab I.D.			**90161.22**				
Client Sample I.D.			Tt-WMS-51-1 0.0				
Date Sampled			11/08/2017				
Date Prepared			11/10/2017				
Preparation Method			3550B				
Date Analyzed			11/11/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	1.0	5.0	ND				
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND				
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND				
Our Lab I.D.			**90161.22**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		110				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB3

Our Lab I.D.			Method Blank	90161.23	90161.24	90161.25	90161.26
Client Sample I.D.				Tt-WMS-50-2.5	Tt-WMS-50-5.0	Tt-WMS-50-10.0	Tt-WMS-48-0.0
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/11/2017	11/11/2017	11/11/2017	11/11/2017	11/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	28.0	27.3	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	129	ND	33.7
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	28.0	156	ND	33.7
Our Lab I.D.			Method Blank	90161.23	90161.24	90161.25	90161.26
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		114	109	112	110	111

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB3

Our Lab I.D.			**90161.27**				
Client Sample I.D.			Tt-WMS-48-5 .0				
Date Sampled			11/08/2017				
Date Prepared			11/10/2017				
Preparation Method			3550B				
Date Analyzed			11/11/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	2.0	10	165				
TPH as Heavy Hydrocarbons (C23-C40)	2.0	10	3,970				
TPH Total as Diesel and Heavy HC.C13-C40	2.0	10	4,140				
Our Lab I.D.			**90161.27**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		115				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB3

Our Lab I.D.			90161.28	90161.29	90161.30	90161.31	90161.33
Client Sample I.D.			Tt-WMS-48-2 .5	Tt-WMS-48-1 0.0	Tt-WMS-49-0 .0	Tt-WMS-49-2 .5	Tt-WMS-49-5 .0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/11/2017	11/11/2017	11/11/2017	11/11/2017	11/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	155	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	20.1	650	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	20.1	805	ND
Our Lab I.D.			**90161.28**	**90161.29**	**90161.30**	**90161.31**	**90161.33**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		115	112	113	109	109

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB3

Our Lab I.D.			90161.34	90161.35	90161.36	90161.37	90161.38
Client Sample I.D.			Tt-WMS-49-1 0.0	Tt-WMS-46-0 .0	Tt-WMS-46-2 .5	Tt-WMS-46-5 .0	Tt-WMS-46-1 0.0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/11/2017	11/11/2017	11/11/2017	11/11/2017	11/11/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	62.7	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	62.7	ND	ND	ND
Our Lab I.D.			**90161.34**	**90161.35**	**90161.36**	**90161.37**	**90161.38**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		113	108	113	107	110

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB3

Our Lab I.D.			90161.39	90161.40	90161.42	90161.43	
Client Sample I.D.			Tt-WMS-47-0.0	Tt-WMS-47-2.5	Tt-WMS-47-5.0	Tt-WMS-47-10.0	
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	
Date Prepared			11/10/2017	11/10/2017	11/10/2017	11/10/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/11/2017	11/11/2017	11/11/2017	11/11/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	
Our Lab I.D.			**90161.39**	**90161.40**	**90161.42**	**90161.43**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Chlorobenzene	75-125		110	111	109	114	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			Method Blank	**90161.01**			
Client Sample I.D.				Tt-WMS-54-0 .0			
Date Sampled				11/08/2017			
Date Prepared			11/09/2017	11/09/2017			
Preparation Method			3540C	3540C			
Date Analyzed			11/09/2017	11/09/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND			
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND			
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND			
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND			
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	14,500			
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	7,150			
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND			
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND			
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND			
Our Lab I.D.			Method Blank	**90161.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		112	143			
Tetrachloro-m-xylene	30-150		96.8	148			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			90161.02				
Client Sample I.D.			Tt-WMS-54-2 .5				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/09/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
90161.02: Analyzed under dilution due to matrix interference

Our Lab I.D.			90161.02				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		94.2				
Tetrachloro-m-xylene	30-150		147				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			**90161.03**				
Client Sample I.D.			Tt-WMS-54-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/09/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	1,140				
Aroclor-1254 (PCB-1254)	125	250	ND				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				
Our Lab I.D.			**90161.03**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		96.2				
Tetrachloro-m-xylene	30-150		100				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			90161.05	90161.06			
Client Sample I.D.			Tt-WMS-53-0.0	Tt-WMS-53-2.5			
Date Sampled			11/08/2017	11/08/2017			
Date Prepared			11/09/2017	11/09/2017			
Preparation Method			3540C	3540C			
Date Analyzed			11/09/2017	11/09/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND			
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND			
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND			
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND			
Aroclor-1248 (PCB-1248)	25.0	50.0	66,900	4,350			
Aroclor-1254 (PCB-1254)	25.0	50.0	18,200	1,310			
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND			
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND			
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND			
Our Lab I.D.			**90161.05**	**90161.06**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		128	75.6			
Tetrachloro-m-xylene	30-150		111	62.2			

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			90161.07				
Client Sample I.D.			Tt-WMS-53-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/09/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	500	1000	ND				
Aroclor-1221 (PCB-1221)	500	1000	ND				
Aroclor-1232 (PCB-1232)	500	1000	ND				
Aroclor-1242 (PCB-1242)	500	1000	ND				
Aroclor-1248 (PCB-1248)	500	1000	ND				
Aroclor-1254 (PCB-1254)	500	1000	ND				
Aroclor-1260 (PCB-1260)	500	1000	ND				
Aroclor-1262 (PCB-1262)	500	1000	ND				
Aroclor-1268 (PCB-1268)	500	1000	ND				

Comment(s):
90161.07: Analyzed under dilution due to matrix interference

Our Lab I.D.			90161.07				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		85.4				
Tetrachloro-m-xylene	30-150		112				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			90161.09	90161.10			
Client Sample I.D.			Tt-WMS-55-0.0	Tt-WMS-55-2.5			
Date Sampled			11/08/2017	11/08/2017			
Date Prepared			11/09/2017	11/09/2017			
Preparation Method			3540C	3540C			
Date Analyzed			11/09/2017	11/09/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND			
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND			
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND			
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND			
Aroclor-1248 (PCB-1248)	25.0	50.0	2,530	576			
Aroclor-1254 (PCB-1254)	25.0	50.0	1,150	ND			
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND			
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND			
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND			
Our Lab I.D.			**90161.09**	**90161.10**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		138	133			
Tetrachloro-m-xylene	30-150		123	145			

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			90161.11				
Client Sample I.D.			Tt-WMS-55-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/09/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	500	1000	ND				
Aroclor-1221 (PCB-1221)	500	1000	ND				
Aroclor-1232 (PCB-1232)	500	1000	ND				
Aroclor-1242 (PCB-1242)	500	1000	ND				
Aroclor-1248 (PCB-1248)	500	1000	ND				
Aroclor-1254 (PCB-1254)	500	1000	ND				
Aroclor-1260 (PCB-1260)	500	1000	ND				
Aroclor-1262 (PCB-1262)	500	1000	ND				
Aroclor-1268 (PCB-1268)	500	1000	ND				

Comment(s):
90161.11: Analyzed under dilution due to matrix interference

Our Lab I.D.			90161.11				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		70.0				
Tetrachloro-m-xylene	30-150		142				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1

Our Lab I.D.			**90161.13**				
Client Sample I.D.			Tt-WMS-52-0 .0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/09/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**90161.13**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		121				
Tetrachloro-m-xylene	30-150		145				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			Method Blank	90161.15	90161.16	90161.18	90161.19
Client Sample I.D.				Tt-WMS-52-2 .5	Tt-WMS-52-5 .0	Tt-WMS-51-0 .0	Tt-WMS-51-2 .5
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/09/2017	11/09/2017	11/09/2017	11/09/2017	11/09/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	90161.15	90161.16	90161.18	90161.19
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		106	128	139	134	135
Tetrachloro-m-xylene	30-150		115	141	142	136	131

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			90161.21				
Client Sample I.D.			Tt-WMS-51-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/10/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	250	500	ND				
Aroclor-1221 (PCB-1221)	250	500	ND				
Aroclor-1232 (PCB-1232)	250	500	ND				
Aroclor-1242 (PCB-1242)	250	500	ND				
Aroclor-1248 (PCB-1248)	250	500	ND				
Aroclor-1254 (PCB-1254)	250	500	ND				
Aroclor-1260 (PCB-1260)	250	500	ND				
Aroclor-1262 (PCB-1262)	250	500	ND				
Aroclor-1268 (PCB-1268)	250	500	ND				

Comment(s):
90161.21: Analyzed under dilution due to matrix interference

Our Lab I.D.			90161.21				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		103				
Tetrachloro-m-xylene	30-150		119				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			90161.23	90161.24	90161.26		
Client Sample I.D.			Tt-WMS-50-2.5	Tt-WMS-50-5.0	Tt-WMS-48-0.0		
Date Sampled			11/08/2017	11/08/2017	11/08/2017		
Date Prepared			11/09/2017	11/09/2017	11/09/2017		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			11/10/2017	11/10/2017	11/10/2017		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	610		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND		
Our Lab I.D.			**90161.23**	**90161.24**	**90161.26**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		118	123	136		
Tetrachloro-m-xylene	30-150		138	138	148		

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			90161.27				
Client Sample I.D.			Tt-WMS-48-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/10/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	500	1000	ND				
Aroclor-1221 (PCB-1221)	500	1000	ND				
Aroclor-1232 (PCB-1232)	500	1000	ND				
Aroclor-1242 (PCB-1242)	500	1000	ND				
Aroclor-1248 (PCB-1248)	500	1000	ND				
Aroclor-1254 (PCB-1254)	500	1000	ND				
Aroclor-1260 (PCB-1260)	500	1000	ND				
Aroclor-1262 (PCB-1262)	500	1000	ND				
Aroclor-1268 (PCB-1268)	500	1000	ND				

Comment(s):
90161.27: Analyzed under dilution due to matrix interference

Our Lab I.D.			90161.27				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		131				
Tetrachloro-m-xylene	30-150		148				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			90161.28	90161.30	90161.31	90161.33	
Client Sample I.D.			Tt-WMS-48-2 .5	Tt-WMS-49-0 .0	Tt-WMS-49-2 .5	Tt-WMS-49-5 .0	
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	
Date Prepared			11/09/2017	11/09/2017	11/09/2017	11/09/2017	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			11/10/2017	11/10/2017	11/10/2017	11/10/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	660	ND	
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	
Our Lab I.D.			**90161.28**	**90161.30**	**90161.31**	**90161.33**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		104	90.8	120	126	
Tetrachloro-m-xylene	30-150		145	112	128	148	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			90161.35				
Client Sample I.D.			Tt-WMS-46-0 .0				
Date Sampled			11/08/2017				
Date Prepared			11/09/2017				
Preparation Method			3540C				
Date Analyzed			11/10/2017				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
90161.35: Analyzed under dilution due to matrix interference

Our Lab I.D.			90161.35				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		116				
Tetrachloro-m-xylene	30-150		149				

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3

Our Lab I.D.			90161.36	90161.37	90161.39	90161.40	90161.42
Client Sample I.D.			Tt-WMS-46-2 .5	Tt-WMS-46-5 .0	Tt-WMS-47-0 .0	Tt-WMS-47-2 .5	Tt-WMS-47-5 .0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/09/2017	11/09/2017	11/09/2017	11/09/2017	11/09/2017
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			11/10/2017	11/10/2017	11/10/2017	11/10/2017	11/10/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**90161.36**	**90161.37**	**90161.39**	**90161.40**	**90161.42**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		133	147	127	129	112
Tetrachloro-m-xylene	30-150		149	148	150	139	136

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C5

Our Lab I.D.			Method Blank	90161.01	90161.02	90161.03	90161.04
Client Sample I.D.				Tt-WMS-54-0.0	Tt-WMS-54-2.5	Tt-WMS-54-5.0	Tt-WMS-54-10.0
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	38.1	ND	52.1	ND
Barium	2.5	5.0	ND	339	441	380	44.5
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	50.1	12.5	38.9	9.99
Cobalt	2.5	5.0	ND	6.79	9.08	6.53	3.40J
Copper	2.5	5.0	ND	1,830	36.7	1,660	19.7
Lead	2.5	5.0	ND	500	12.2	719	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	19.5	21.0	45.9	5.56
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	19.8	18.6	69.2	17.8
Zinc	2.5	5.0	ND	1,180	62.3	910	27.1

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C5

Our Lab I.D.			90161.05	90161.06	90161.07	90161.08	90161.09
Client Sample I.D.			Tt-WMS-53-0.0	Tt-WMS-53-2.5	Tt-WMS-53-5.0	Tt-WMS-53-10.0	Tt-WMS-55-0.0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	292	35.0	ND	ND	19.3
Barium	2.5	5.0	319	146	277	36.6	117
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	155	18.6	10.5	6.37	16.6
Cobalt	2.5	5.0	5.36	6.18	7.60	ND	7.19
Copper	2.5	5.0	6,380	1,730	46.4	18.2	707
Lead	2.5	5.0	1,090	258	9.40	ND	70.9
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	12.1	12.6	19.7	3.19J	15.5
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	13.9	24.2	22.1	13.2	27.9
Zinc	2.5	5.0	1,260	626	49.0	19.9	362

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C5

Our Lab I.D.			90161.10				
Client Sample I.D.			Tt-WMS-55-2 .5				
Date Sampled			11/08/2017				
Date Prepared			11/15/2017				
Preparation Method			3050B				
Date Analyzed			11/16/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	1.0	5.0	ND				
Arsenic	1.0	5.0	1.53J				
Barium	2.5	5.0	59.9				
Beryllium	1.3	2.5	ND				
Cadmium	1.3	2.5	ND				
Chromium	2.5	5.0	10.6				
Cobalt	2.5	5.0	5.42				
Copper	2.5	5.0	30.6				
Lead	2.5	5.0	11.1				
Molybdenum	2.5	5.0	ND				
Nickel	2.5	5.0	7.45				
Selenium	1.0	5.0	ND				
Silver	2.5	5.0	ND				
Thallium	1.0	5.0	ND				
Vanadium	2.5	5.0	21.2				
Zinc	2.5	5.0	40.9				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C6

Our Lab I.D.			Method Blank	90161.11	90161.12	90161.13	90161.15
Client Sample I.D.				Tt-WMS-55-5.0	Tt-WMS-55-10.0	Tt-WMS-52-0.0	Tt-WMS-52-2.5
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	ND	80.8	42.7	117	38.3
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	8.76	9.03	14.9	7.23
Cobalt	2.5	5.0	ND	ND	3.25J	4.97J	3.09J
Copper	2.5	5.0	ND	127	14.6	192	12.6
Lead	2.5	5.0	ND	51.7	5.90	139	2.65J
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	9.87	4.96J	10.2	4.37J
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	12.1	16.3	28.7	13.4
Zinc	2.5	5.0	ND	180	26.5	160	29.6

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C6

Our Lab I.D.			90161.16	90161.17	90161.18	90161.19	90161.21
Client Sample I.D.			Tt-WMS-52-5 .0	Tt-WMS-52-1 0.0	Tt-WMS-51-0 .0	Tt-WMS-51-2 .5	Tt-WMS-51-5 .0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	24.6	48.3	65.0	41.4	33.0
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	5.03	9.89	13.6	7.13	5.30
Cobalt	2.5	5.0	ND	3.29J	5.28	3.37J	ND
Copper	2.5	5.0	9.02	10.1	13.8	16.4	12.0
Lead	2.5	5.0	ND	ND	3.50J	17.1	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	2.85J	5.18	8.10	6.33	3.02J
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	11.1	17.3	26.1	23.4	10.7
Zinc	2.5	5.0	14.5	25.8	41.0	37.9	18.2

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C6

Our Lab I.D.			90161.22				
Client Sample I.D.			Tt-WMS-51-1 0.0				
Date Sampled			11/08/2017				
Date Prepared			11/15/2017				
Preparation Method			3050B				
Date Analyzed			11/16/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	1.0	5.0	ND				
Arsenic	1.0	5.0	ND				
Barium	2.5	5.0	46.3				
Beryllium	1.3	2.5	ND				
Cadmium	1.3	2.5	ND				
Chromium	2.5	5.0	8.62				
Cobalt	2.5	5.0	3.01J				
Copper	2.5	5.0	8.53				
Lead	2.5	5.0	ND				
Molybdenum	2.5	5.0	ND				
Nickel	2.5	5.0	4.62J				
Selenium	1.0	5.0	ND				
Silver	2.5	5.0	ND				
Thallium	1.0	5.0	ND				
Vanadium	2.5	5.0	15.3				
Zinc	2.5	5.0	22.9				

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C7

Our Lab I.D.			Method Blank	90161.23	90161.24	90161.25	90161.26
Client Sample I.D.				Tt-WMS-50-2.5	Tt-WMS-50-5.0	Tt-WMS-50-10.0	Tt-WMS-48-0.0
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	30.7
Barium	2.5	5.0	ND	49.4	44.5	50.0	62.1
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	9.01	7.40	8.91	13.9
Cobalt	2.5	5.0	ND	3.66J	2.84J	3.02J	4.97J
Copper	2.5	5.0	ND	12.5	55.0	9.35	336
Lead	2.5	5.0	ND	14.4	26.3	ND	30.1
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	6.06	4.92J	4.88J	9.73
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	27.7	15.1	16.5	24.1
Zinc	2.5	5.0	ND	31.3	47.4	24.7	681

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C7

Our Lab I.D.			90161.27	90161.28	90161.29	90161.30	90161.31
Client Sample I.D.			Tt-WMS-48-5 .0	Tt-WMS-48-2 .5	Tt-WMS-48-1 0.0	Tt-WMS-49-0 .0	Tt-WMS-49-2 .5
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	81.3
Barium	2.5	5.0	44.8	39.0	69.1	347	263
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	9.62	6.76	9.60	11.8	16.6
Cobalt	2.5	5.0	3.89J	3.00J	3.09J	9.31	6.86
Copper	2.5	5.0	93.7	161	8.58	18.6	1,860
Lead	2.5	5.0	40.5	61.9	ND	5.06	565
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	7.02	4.22J	4.94J	20.0	22.8
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	17.0	13.8	16.6	19.7	21.0
Zinc	2.5	5.0	93.4	374	24.7	53.5	1,260

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C7

Our Lab I.D.			90161.33				
Client Sample I.D.			Tt-WMS-49-5 .0				
Date Sampled			11/08/2017				
Date Prepared			11/15/2017				
Preparation Method			3050B				
Date Analyzed			11/16/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	1.0	5.0	ND				
Arsenic	1.0	5.0	ND				
Barium	2.5	5.0	35.2				
Beryllium	1.3	2.5	ND				
Cadmium	1.3	2.5	ND				
Chromium	2.5	5.0	6.08				
Cobalt	2.5	5.0	3.01J				
Copper	2.5	5.0	16.3				
Lead	2.5	5.0	ND				
Molybdenum	2.5	5.0	ND				
Nickel	2.5	5.0	4.07J				
Selenium	1.0	5.0	ND				
Silver	2.5	5.0	ND				
Thallium	1.0	5.0	ND				
Vanadium	2.5	5.0	11.5				
Zinc	2.5	5.0	27.7				

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C8

Our Lab I.D.			Method Blank	90161.34	90161.35	90161.36	90161.37
Client Sample I.D.				Tt-WMS-49-1 0.0	Tt-WMS-46-0 .0	Tt-WMS-46-2 .5	Tt-WMS-46-5 .0
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	ND	42.3	85.7	35.0	31.2
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	ND	8.23	23.7	5.57	5.26
Cobalt	2.5	5.0	ND	2.68J	4.76J	ND	ND
Copper	2.5	5.0	ND	9.13	40.8	7.36	5.98
Lead	2.5	5.0	ND	ND	21.4	ND	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	ND	4.35J	12.0	2.95J	3.30J
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	15.3	34.4	13.2	10.1
Zinc	2.5	5.0	ND	24.0	116	17.0	17.4

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C8

Our Lab I.D.			90161.38	90161.39	90161.40	90161.42	90161.43
Client Sample I.D.			Tt-WMS-46-1 0.0	Tt-WMS-47-0 .0	Tt-WMS-47-2 .5	Tt-WMS-47-5 .0	Tt-WMS-47-1 0.0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	1.0	5.0	ND	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND	ND
Barium	2.5	5.0	62.0	106	45.5	28.9	46.8
Beryllium	1.3	2.5	ND	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND	ND
Chromium	2.5	5.0	9.32	20.3	7.60	4.91J	8.70
Cobalt	2.5	5.0	3.12J	7.47	3.50J	ND	2.87J
Copper	2.5	5.0	7.80	21.8	8.58	5.68	6.87
Lead	2.5	5.0	ND	6.61	ND	ND	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND	ND
Nickel	2.5	5.0	4.99J	9.91	4.79J	3.01J	4.50J
Selenium	1.0	5.0	ND	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND	ND
Vanadium	2.5	5.0	16.1	29.5	15.0	9.81	15.4
Zinc	2.5	5.0	23.3	36.4	26.3	15.9	23.0

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	0.1	0.2	ND				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.01				
Client Sample I.D.			Tt-WMS-54-0 .0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	10	20	47.4				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.02				
Client Sample I.D.			Tt-WMS-54-2 .5				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	0.1	0.2	0.165J				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.03				
Client Sample I.D.			Tt-WMS-54-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	10	20	47.4				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.04				
Client Sample I.D.			Tt-WMS-54-1 0.0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	0.1	0.2	ND				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.05				
Client Sample I.D.			Tt-WMS-53-0 .0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			500				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	50	100	189				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.06				
Client Sample I.D.			Tt-WMS-53-2 .5				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	10	20	70.6				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.07	90161.08			
Client Sample I.D.			Tt-WMS-53-5.0	Tt-WMS-53-10.0			
Date Sampled			11/08/2017	11/08/2017			
Date Prepared			11/17/2017	11/17/2017			
Preparation Method			7471A	7471A			
Date Analyzed			11/20/2017	11/20/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Mercury	0.1	0.2	0.413	ND			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.09				
Client Sample I.D.			Tt-WMS-55-0 .0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	2.0	4.0	17.1				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1

Our Lab I.D.			90161.10				
Client Sample I.D.			Tt-WMS-55-2 .5				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	0.1	0.2	0.465				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	0.1	0.2	ND				

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-2

Our Lab I.D.			90161.11				
Client Sample I.D.			Tt-WMS-55-5.0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/20/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	2.0	4.0	2.92				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-2

Our Lab I.D.			90161.12	90161.13	90161.15	90161.16	90161.17
Client Sample I.D.			Tt-WMS-55-1 0.0	Tt-WMS-52-0 .0	Tt-WMS-52-2 .5	Tt-WMS-52-5 .0	Tt-WMS-52-1 0.0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017
Preparation Method			7471A	7471A	7471A	7471A	7471A
Date Analyzed			11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Mercury	0.1	0.2	0.175J	0.642	ND	ND	ND

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-2

Our Lab I.D.			90161.18	90161.19	90161.21	90161.22	
Client Sample I.D.			Tt-WMS-51-0.0	Tt-WMS-51-2.5	Tt-WMS-51-5.0	Tt-WMS-51-10.0	
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	
Date Prepared			11/17/2017	11/17/2017	11/17/2017	11/17/2017	
Preparation Method			7471A	7471A	7471A	7471A	
Date Analyzed			11/20/2017	11/20/2017	11/20/2017	11/20/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Mercury	0.1	0.2	ND	0.103J	ND	ND	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-3

Our Lab I.D.			Method Blank	90161.23	90161.24	90161.25	
Client Sample I.D.				Tt-WMS-50-2.5	Tt-WMS-50-5.0	Tt-WMS-50-10.0	
Date Sampled				11/08/2017	11/08/2017	11/08/2017	
Date Prepared			11/17/2017	11/17/2017	11/17/2017	11/17/2017	
Preparation Method			7471A	7471A	7471A	7471A	
Date Analyzed			11/20/2017	11/17/2017	11/17/2017	11/17/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Mercury	0.1	0.2	ND	ND	0.388	ND	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-3

Our Lab I.D.			90161.26	90161.27			
Client Sample I.D.			Tt-WMS-48-0.0	Tt-WMS-48-5.0			
Date Sampled			11/08/2017	11/08/2017			
Date Prepared			11/17/2017	11/17/2017			
Preparation Method			7471A	7471A			
Date Analyzed			11/17/2017	11/17/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			20	20			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Mercury	2.0	4.0	8.77	1.43			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-3

Our Lab I.D.			90161.28	90161.29	90161.30		
Client Sample I.D.			Tt-WMS-48-2.5	Tt-WMS-48-10.0	Tt-WMS-49-0.0		
Date Sampled			11/08/2017	11/08/2017	11/08/2017		
Date Prepared			11/17/2017	11/17/2017	11/17/2017		
Preparation Method			7471A	7471A	7471A		
Date Analyzed			11/17/2017	11/17/2017	11/17/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Mercury	0.1	0.2	0.268	ND	ND		

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-3

Our Lab I.D.			90161.31				
Client Sample I.D.			Tt-WMS-49-2 .5				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/17/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	10	20	55.3				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-3

Our Lab I.D.			90161.33				
Client Sample I.D.			Tt-WMS-49-5 .0				
Date Sampled			11/08/2017				
Date Prepared			11/17/2017				
Preparation Method			7471A				
Date Analyzed			11/17/2017				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Mercury	0.1	0.2	0.353				

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-4

Our Lab I.D.			Method Blank	90161.34	90161.35	90161.36	90161.37
Client Sample I.D.				Tt-WMS-49-1 0.0	Tt-WMS-46-0 .0	Tt-WMS-46-2 .5	Tt-WMS-46-5 .0
Date Sampled				11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017
Preparation Method			7471A	7471A	7471A	7471A	7471A
Date Analyzed			11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Mercury	0.1	0.2	ND	ND	0.227	ND	ND

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-4

Our Lab I.D.			90161.38	90161.39	90161.40	90161.42	90161.43
Client Sample I.D.			Tt-WMS-46-1 0.0	Tt-WMS-47-0 .0	Tt-WMS-47-2 .5	Tt-WMS-47-5 .0	Tt-WMS-47-1 0.0
Date Sampled			11/08/2017	11/08/2017	11/08/2017	11/08/2017	11/08/2017
Date Prepared			11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017
Preparation Method			7471A	7471A	7471A	7471A	7471A
Date Analyzed			11/17/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Mercury	0.1	0.2	ND	0.886	ND	ND	ND

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111317DB1

Our Lab I.D.			Method Blank	**90161.44**			
Client Sample I.D.				EB110817			
Date Sampled				11/08/2017			
Date Prepared			11/13/2017	11/13/2017			
Preparation Method			3510C	3510C			
Date Analyzed			11/14/2017	11/15/2017			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	0.1	0.5	ND	ND			
TPH as Heavy Hydrocarbons (C23-C40)	0.1	0.5	ND	ND			
TPH Total as Diesel and Heavy HC.C13-C40	0.1	0.5	ND	ND			
Our Lab I.D.			Method Blank	**90161.44**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	60-125		105	81.0			

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 8082, Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111417ZB1

Our Lab I.D.			Method Blank	**90161.44**			
Client Sample I.D.				EB110817			
Date Sampled				11/08/2017			
Date Prepared			11/14/2017	11/14/2017			
Preparation Method			3510C	3510C			
Date Analyzed			11/14/2017	11/14/2017			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	1.00	5.00	ND	ND			
Aroclor-1221 (PCB-1221)	2.00	10.00	ND	ND			
Aroclor-1232 (PCB-1232)	1.00	5.00	ND	ND			
Aroclor-1242 (PCB-1242)	1.00	5.00	ND	ND			
Aroclor-1248 (PCB-1248)	0.25	2.50	ND	ND			
Aroclor-1254 (PCB-1254)	1.00	5.00	ND	ND			
Aroclor-1260 (PCB-1260)	1.00	5.00	ND	ND			
Aroclor-1262 (PCB-1262)	1.00	5.00	ND	ND			
Aroclor-1268 (PCB-1268)	1.00	5.00	ND	ND			
Our Lab I.D.			Method Blank	**90161.44**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		96.6	98.3			
Tetrachloro-m-xylene	30-150		119	109			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 1114172C4

Our Lab I.D.			Method Blank	90161.44			
Client Sample I.D.				EB110817			
Date Sampled				11/08/2017			
Date Prepared			11/14/2017	11/14/2017			
Preparation Method			3005A	3005A			
Date Analyzed			11/15/2017	11/15/2017			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	0.05	0.10	ND	ND			
Arsenic	0.05	0.10	ND	ND			
Barium	0.03	0.05	ND	ND			
Beryllium	0.01	0.05	ND	ND			
Cadmium	0.01	0.05	ND	ND			
Chromium	0.01	0.05	ND	ND			
Cobalt	0.01	0.05	ND	ND			
Copper	0.01	0.05	ND	ND			
Lead	0.05	0.10	ND	ND			
Molybdenum	0.01	0.05	ND	ND			
Nickel	0.01	0.05	ND	ND			
Selenium	0.05	0.10	ND	ND			
Silver	0.01	0.05	ND	ND			
Thallium	0.05	0.10	ND	ND			
Vanadium	0.03	0.05	ND	ND			
Zinc	0.01	0.05	ND	ND			

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7470A, Mercury in Liquid Waste, Cold-Vapor Technique

QC Batch No: 111317-1

Our Lab I.D.			Method Blank	90161.44			
Client Sample I.D.				EB110817			
Date Sampled				11/08/2017			
Date Prepared			11/13/2017	11/13/2017			
Preparation Method			7470A	7470A			
Date Analyzed			11/13/2017	11/13/2017			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Mercury	0.001	0.002	ND	ND			

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 1114172C4; Dup or Spiked Sample: 90175.01; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/15/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	1.00	0.915	91.5	1.00	0.913	91.3	<1	75-125	<15
Arsenic	0.00	1.00	0.974	97.4	1.00	0.942	94.2	3.34	75-125	<15
Barium	0.00	1.00	0.914	91.4	1.00	0.925	92.5	1.20	75-125	<15
Beryllium	0.00	1.00	1.07	107	1.00	1.09	109	1.85	75-125	<15
Cadmium	0.00	1.00	0.870	87.0	1.00	0.882	88.2	1.37	75-125	<15
Chromium	0.00	1.00	0.882	88.2	1.00	0.897	89.7	1.69	75-125	<15
Cobalt	0.00	1.00	0.842	84.2	1.00	0.848	84.8	<1	75-125	<15
Copper	0.0290	1.00	0.939	91.0	1.00	0.955	92.6	1.74	75-125	<15
Lead	0.00	1.00	0.827	82.7	1.00	0.810	81.0	2.08	75-125	<15
Molybdenum	0.951	1.00	1.83	87.9	1.00	1.81	85.9	2.30	75-125	<15
Nickel	0.00	1.00	0.822	82.2	1.00	0.833	83.3	1.33	75-125	<15
Selenium	0.00	1.00	0.976	97.6	1.00	0.994	99.4	1.83	75-125	<15
Silver	0.00	1.00	0.652#	65.2	1.00	0.661#	66.1	1.37	75-125	<15
Thallium	0.00	1.00	0.781	78.1	1.00	0.781	78.1	<1	75-125	<15
Vanadium	0.00	1.00	0.902	90.2	1.00	0.914	91.4	1.32	75-125	<15
Zinc	0.00	1.00	0.933	93.3	1.00	0.943	94.3	1.07	75-125	<15

QC Batch No: 1114172C4; Dup or Spiked Sample: 90175.01; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/15/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	1.00	0.970	96.6	1.00	0.970	97.1	<1	75-125	<15	
Arsenic	1.00	0.970	96.9	1.00	0.970	96.7	<1	75-125	<15	
Barium	1.00	0.970	97.0	1.00	0.960	96.3	<1	75-125	<15	
Beryllium	1.00	1.06	106	1.00	1.05	105	<1	75-125	<15	
Cadmium	1.00	0.990	98.7	1.00	0.970	97.3	1.43	75-125	<15	
Chromium	1.00	0.960	96.2	1.00	0.950	95.1	1.15	75-125	<15	
Cobalt	1.00	0.930	92.7	1.00	0.920	91.8	<1	75-125	<15	
Copper	1.00	0.880	88.1	1.00	0.890	88.8	<1	75-125	<15	
Lead	1.00	0.920	92.4	1.00	0.910	91.2	1.31	75-125	<15	
Molybdenum	1.00	0.960	96.3	1.00	0.950	95.0	1.36	75-125	<15	
Nickel	1.00	0.910	90.7	1.00	0.900	90.2	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 1114172C4; Dup or Spiked Sample: 90175.01; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/15/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Selenium	1.00	1.01	101	1.00	1.01	101	<1	75-125	<15	
Silver	1.00	0.980	97.9	1.00	0.980	97.9	<1	75-125	<15	
Thallium	1.00	0.890	88.5	1.00	0.870	87.3	1.37	75-125	<15	
Vanadium	1.00	0.970	96.9	1.00	0.960	96.2	<1	75-125	<15	
Zinc	1.00	1.01	101	1.00	1.00	100	<1	75-125	<15	

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7470A, Mercury in Liquid Waste, Cold-Vapor Technique

QC Batch No: 111317-1; Dup or Spiked Sample: 90150.01; LCS: Clean Water; QC Prepared: 11/13/2017; QC Analyzed: 11/13/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Mercury	0.00	0.0100	0.00934	93.4	0.0100	0.00943	94.3	<1	75-125	<15

QC Batch No: 111317-1; Dup or Spiked Sample: 90150.01; LCS: Clean Water; QC Prepared: 11/13/2017; QC Analyzed: 11/13/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury	0.0100	0.00973	97.3	0.0100	0.00974	97.4	<1	75-125	<15	

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Wilmington Marine Service

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 8082, Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111417ZB1; Dup or Spiked Sample: 1114; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/14/2017; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	5.00	4.89	97.8	5.00	4.54	90.8	7.4	75-125	<20
Aroclor-1260 (PCB-1260)	0.00	5.00	4.08	81.6	5.00	4.09	81.8	<1	75-125	<20
Surrogates										
Decachlorobiphenyl	0.00	1.00	1.11	111	1.00	1.10	110	<1	30-150	<20
Tetrachloro-m-xylene	0.00	1.00	1.07	107	1.00	1.13	113	5.5	30-150	<20

QC Batch No: 111417ZB1; Dup or Spiked Sample: 1114; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/14/2017; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	5.00	4.33	86.6	75-125						
Aroclor-1260 (PCB-1260)	5.00	4.00	80.0	75-125						
Surrogates										
Decachlorobiphenyl	1.00	1.25	125	30-150						
Tetrachloro-m-xylene	1.00	1.14	114	30-150						

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111317DB1; Dup or Spiked Sample: 1113; LCS: Clean Water; QC Prepared: 11/13/2017; QC Analyzed: 11/14/2017; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	5.00	6.25	125	5.00	5.90	118	5.8	75-125	<20
Surrogates										
Chlorobenzene	0.00	2.00	2.36	118	2.00	1.95	97.5	19.0	60-125	<20

QC Batch No: 111317DB1; Dup or Spiked Sample: 1113; LCS: Clean Water; QC Prepared: 11/13/2017; QC Analyzed: 11/14/2017; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C13-C22)	5.00	5.05	101	75-125						
Surrogates										
Chlorobenzene	2.00	1.36	68.0	60-125						

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C5; Dup or Spiked Sample: 90161.01; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	103 #	206	50.0	103 #	206	<1	75-125	<15
Arsenic	38.1	50.0	83.5	90.8	50.0	83.9	91.6	<1	75-125	<15
Barium	339	50.0	293 #	-91.9	50.0	293 #	-91.9	<1	75-125	<15
Beryllium	0.00	50.0	54.0	108	50.0	53.5	107	<1	75-125	<15
Cadmium	0.00	50.0	47.4	94.8	50.0	47.5	95.0	<1	75-125	<15
Chromium	50.1	50.0	89.9	79.6	50.0	90.1	80.0	<1	75-125	<15
Cobalt	6.79	50.0	51.1	88.6	50.0	51.1	88.6	<1	75-125	<15
Copper	1,830	50.0	219 #	436	50.0	207 #	412	5.66	75-125	<15
Lead	500	50.0	770 #	540	50.0	772 #	544	<1	75-125	<15
Molybdenum	0.00	50.0	46.9	93.8	50.0	47.0	94.0	<1	75-125	<15
Nickel	19.5	50.0	61.0	83.0	50.0	61.1	83.2	<1	75-125	<15
Selenium	0.00	50.0	41.6	83.2	50.0	42.1	84.2	1.19	75-125	<15
Silver	0.00	50.0	47.6	95.2	50.0	47.6	95.2	<1	75-125	<15
Thallium	0.00	50.0	36.3 #	72.6	50.0	36.1 #	72.2	<1	75-125	<15
Vanadium	19.8	50.0	64.6	89.6	50.0	64.6	89.6	<1	75-125	<15
Zinc	1,180	50.0	0.00E-7	-144.0	50.0	0.00E-7	-138.0	4.26	75-125	<15

QC Batch No: 1115172C5; Dup or Spiked Sample: 90161.01; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Arsenic	50.0	49.6	99.2	50.0	50.5	101	1.80	75-125	<15	
Barium	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Beryllium	50.0	54.0	108	50.0	55.0	110	1.83	75-125	<15	
Cadmium	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Chromium	50.0	48.4	96.8	50.0	49.0	98.0	1.23	75-125	<15	
Cobalt	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Copper	50.0	49.8	99.6	50.0	50.5	101	1.40	75-125	<15	
Lead	50.0	48.7	97.4	50.0	49.0	98.0	<1	75-125	<15	
Molybdenum	50.0	49.2	98.4	50.0	49.9	99.8	1.41	75-125	<15	
Nickel	50.0	48.5	97.0	50.0	48.9	97.8	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C5; Dup or Spiked Sample: 90161.01; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Selenium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Silver	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Thallium	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Vanadium	50.0	49.7	99.4	50.0	50.0	100	<1	75-125	<15	
Zinc	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C6; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.8	97.6	50.0	49.5	99.0	1.42	75-125	<15
Arsenic	0.00	50.0	43.9	87.8	50.0	45.2	90.4	2.92	75-125	<15
Barium	117	50.0	157	80.0	50.0	158	82.0	2.47	75-125	<15
Beryllium	0.00	50.0	54.4	109	50.0	54.8	110	<1	75-125	<15
Cadmium	0.00	50.0	47.6	95.2	50.0	48.2	96.4	1.25	75-125	<15
Chromium	14.9	50.0	65.0	100	50.0	65.5	101	<1	75-125	<15
Cobalt	4.97	50.0	51.4	92.9	50.0	52.1	94.3	1.50	75-125	<15
Copper	192	50.0	182 #	-19.9	50.0	182 #	-19.9	<1	75-125	<15
Lead	139	50.0	192	106	50.0	194	110	3.70	75-125	<15
Molybdenum	0.00	50.0	47.0	94.0	50.0	47.6	95.2	1.27	75-125	<15
Nickel	10.2	50.0	53.6	86.8	50.0	54.1	87.8	1.15	75-125	<15
Selenium	0.00	50.0	41.2	82.4	50.0	42.5	85.0	3.11	75-125	<15
Silver	0.00	50.0	46.9	93.8	50.0	47.2	94.4	<1	75-125	<15
Thallium	0.00	50.0	33.5 #	67.0	50.0	34.2 #	68.4	2.07	75-125	<15
Vanadium	28.7	50.0	79.2	101	50.0	79.8	102	<1	75-125	<15
Zinc	160	50.0	174 #	28.0	50.0	175 #	30.0	6.90	75-125	<15

QC Batch No: 1115172C6; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	51.2	102	50.0	51.2	102	<1	75-125	<15	
Arsenic	50.0	50.6	101	50.0	50.5	101	<1	75-125	<15	
Barium	50.0	50.6	101	50.0	51.1	102	<1	75-125	<15	
Beryllium	50.0	54.7	109	50.0	55.3	111	1.82	75-125	<15	
Cadmium	50.0	51.0	102	50.0	51.2	102	<1	75-125	<15	
Chromium	50.0	49.4	98.8	50.0	49.8	99.6	<1	75-125	<15	
Cobalt	50.0	51.0	102	50.0	51.2	102	<1	75-125	<15	
Copper	50.0	51.5	103	50.0	51.6	103	<1	75-125	<15	
Lead	50.0	49.2	98.4	50.0	49.0	98.0	<1	75-125	<15	
Molybdenum	50.0	49.9	99.8	50.0	50.0	100	<1	75-125	<15	
Nickel	50.0	49.2	98.4	50.0	49.5	99.0	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C6; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Selenium	50.0	50.4	101	50.0	50.4	101	<1	75-125	<15	
Silver	50.0	50.8	102	50.0	51.0	102	<1	75-125	<15	
Thallium	50.0	50.7	101	50.0	51.5	103	1.96	75-125	<15	
Vanadium	50.0	50.4	101	50.0	50.7	101	<1	75-125	<15	
Zinc	50.0	51.4	103	50.0	51.5	103	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C7; Dup or Spiked Sample: 90161.23; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.3	96.6	50.0	47.7	95.4	1.25	75-125	<15
Arsenic	0.00	50.0	46.4	92.8	50.0	46.2	92.4	<1	75-125	<15
Barium	49.4	50.0	88.4	78.0	50.0	88.6	78.4	<1	75-125	<15
Beryllium	0.00	50.0	54.6	109	50.0	55.2	110	<1	75-125	<15
Cadmium	0.00	50.0	45.2	90.4	50.0	44.7	89.4	1.11	75-125	<15
Chromium	9.01	50.0	53.8	89.6	50.0	53.2	88.4	1.35	75-125	<15
Cobalt	3.66	50.0	48.4	89.5	50.0	48.0	88.7	<1	75-125	<15
Copper	12.5	50.0	59.9	94.8	50.0	59.7	94.4	<1	75-125	<15
Lead	14.4	50.0	48.3 #	67.8	50.0	48.0 #	67.2	<1	75-125	<15
Molybdenum	0.00	50.0	46.8	93.6	50.0	46.6	93.2	<1	75-125	<15
Nickel	6.06	50.0	47.5	82.9	50.0	47.0	81.9	1.21	75-125	<15
Selenium	0.00	50.0	45.0	90.0	50.0	45.3	90.6	<1	75-125	<15
Silver	0.00	50.0	47.0	94.0	50.0	47.0	94.0	<1	75-125	<15
Thallium	0.00	50.0	35.7 #	71.4	50.0	34.6 #	69.2	3.13	75-125	<15
Vanadium	27.7	50.0	68.9	82.4	50.0	69.0	82.6	<1	75-125	<15
Zinc	31.3	50.0	73.2	83.8	50.0	72.6	82.6	1.44	75-125	<15

QC Batch No: 1115172C7; Dup or Spiked Sample: 90161.23; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	50.8	102	50.0	51.3	103	<1	75-125	<15	
Arsenic	50.0	50.2	100	50.0	50.6	101	<1	75-125	<15	
Barium	50.0	51.3	103	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	55.2	110	50.0	56.8	114	3.57	75-125	<15	
Cadmium	50.0	51.6	103	50.0	51.3	103	<1	75-125	<15	
Chromium	50.0	51.8	104	50.0	49.8	99.6	4.32	75-125	<15	
Cobalt	50.0	51.4	103	50.0	51.1	102	<1	75-125	<15	
Copper	50.0	51.4	103	50.0	51.1	102	<1	75-125	<15	
Lead	50.0	49.1	98.2	50.0	49.2	98.4	<1	75-125	<15	
Molybdenum	50.0	50.0	100	50.0	50.7	101	<1	75-125	<15	
Nickel	50.0	49.7	99.4	50.0	49.3	98.6	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C7; Dup or Spiked Sample: 90161.23; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Selenium	50.0	50.1	100	50.0	50.9	102	1.98	75-125	<15	
Silver	50.0	50.9	102	50.0	50.7	101	<1	75-125	<15	
Thallium	50.0	51.4	103	50.0	51.7	103	<1	75-125	<15	
Vanadium	50.0	50.9	102	50.0	50.6	101	<1	75-125	<15	
Zinc	50.0	51.9	104	50.0	51.4	103	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C8; Dup or Spiked Sample: 90161.39; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	49.0	98.0	50.0	49.1	98.2	<1	75-125	<15
Arsenic	0.00	50.0	43.6	87.2	50.0	43.5	87.0	<1	75-125	<15
Barium	106	50.0	155	98.0	50.0	157	102	4.00	75-125	<15
Beryllium	0.00	50.0	56.5	113	50.0	56.3	113	<1	75-125	<15
Cadmium	0.00	50.0	49.0	98.0	50.0	48.7	97.4	<1	75-125	<15
Chromium	20.3	50.0	69.3	98.0	50.0	68.8	97.0	1.03	75-125	<15
Cobalt	7.47	50.0	58.4	102	50.0	58.0	101	<1	75-125	<15
Copper	21.8	50.0	74.3	105	50.0	75.1	107	1.89	75-125	<15
Lead	6.61	50.0	56.1	99.0	50.0	56.5	99.8	<1	75-125	<15
Molybdenum	0.00	50.0	48.3	96.6	50.0	48.0	96.0	<1	75-125	<15
Nickel	9.91	50.0	55.8	91.8	50.0	55.4	91.0	<1	75-125	<15
Selenium	0.00	50.0	42.5	85.0	50.0	41.2	82.4	3.11	75-125	<15
Silver	0.00	50.0	46.5	93.0	50.0	47.0	94.0	1.07	75-125	<15
Thallium	0.00	50.0	34.7 #	69.4	50.0	34.7 #	69.4	<1	75-125	<15
Vanadium	29.5	50.0	81.5	104	50.0	82.3	106	1.90	75-125	<15
Zinc	36.4	50.0	83.8	94.8	50.0	84.6	96.4	1.67	75-125	<15

QC Batch No: 1115172C8; Dup or Spiked Sample: 90161.39; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	51.7	103	50.0	51.8	104	<1	75-125	<15	
Arsenic	50.0	50.7	101	50.0	51.2	102	<1	75-125	<15	
Barium	50.0	51.4	103	50.0	51.4	103	<1	75-125	<15	
Beryllium	50.0	55.7	111	50.0	55.3	111	<1	75-125	<15	
Cadmium	50.0	51.7	103	50.0	51.9	104	<1	75-125	<15	
Chromium	50.0	52.4	105	50.0	50.3	101	3.88	75-125	<15	
Cobalt	50.0	51.8	104	50.0	51.8	104	<1	75-125	<15	
Copper	50.0	52.2	104	50.0	51.8	104	<1	75-125	<15	
Lead	50.0	49.6	99.2	50.0	49.8	99.6	<1	75-125	<15	
Molybdenum	50.0	50.5	101	50.0	50.7	101	<1	75-125	<15	
Nickel	50.0	49.6	99.2	50.0	49.6	99.2	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1115172C8; Dup or Spiked Sample: 90161.39; LCS: Clean Sand; QC Prepared: 11/15/2017; QC Analyzed: 11/16/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Selenium	50.0	50.6	101	50.0	50.5	101	<1	75-125	<15	
Silver	50.0	51.2	102	50.0	51.0	102	<1	75-125	<15	
Thallium	50.0	52.1	104	50.0	51.8	104	<1	75-125	<15	
Vanadium	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Zinc	50.0	51.9	104	50.0	51.8	104	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB1; Dup or Spiked Sample: 90163.01; LCS: Clean Sand; QC Prepared: 11/09/2017; QC Analyzed: 11/09/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	542	108	500	540	108	<1	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	469	93.8	500	457	91.4	2.59	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	70.2	140	50.0	69.1	138	1.43	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	69.3	139	50.0	69.4	139	<1	30-150	<40

QC Batch No: 110917ZB1; Dup or Spiked Sample: 90163.01; LCS: Clean Sand; QC Prepared: 11/09/2017; QC Analyzed: 11/09/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	433	86.6	500	423	84.6	2.34	50-150	<40	
Aroclor-1260 (PCB-1260)	500	395	79.0	500	380	76.0	3.87	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	57.5	115	50.0	56.5	113	1.74	30-150	<40	
Tetrachloro-m-xylene	50.0	52.0	104	50.0	55.1	110	5.77	30-150	<40	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 110917ZB3; Dup or Spiked Sample: 90161.42; LCS: Clean Sand; QC Prepared: 11/09/2017; QC Analyzed: 11/10/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	521	104	500	478	95.6	8.42	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	456	91.2	500	427	85.4	6.57	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	62.7	125	50.0	61.2	122	2.40	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	69.6	139	50.0	67.8	136	2.16	30-150	<40

QC Batch No: 110917ZB3; Dup or Spiked Sample: 90161.42; LCS: Clean Sand; QC Prepared: 11/09/2017; QC Analyzed: 11/10/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	444	88.8	500	393	78.6	12.2	50-150	<40	
Aroclor-1260 (PCB-1260)	500	387	77.4	500	340	68.0	12.9	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	56.7	113	50.0	50.8	102	9.73	30-150	<40	
Tetrachloro-m-xylene	50.0	61.6	123	50.0	54.5	109	11.4	30-150	<40	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB2; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/10/2017; QC Analyzed: 11/10/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	615	123	500	605	121	1.6	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	102	102	100	103	103	<1	75-125	<20

QC Batch No: 111017DB2; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/10/2017; QC Analyzed: 11/10/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	585	117	500	585	117	<1	75-125	<20	
Surrogates										
Chlorobenzene	100	101	101	100	103	103	2.0	75-125	<20	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 111017DB3; Dup or Spiked Sample: 90161.42; LCS: Clean Sand; QC Prepared: 11/10/2017; QC Analyzed: 11/11/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	620	124	500	615	123	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	110	110	100	106	106	3.7	75-125	<20

QC Batch No: 111017DB3; Dup or Spiked Sample: 90161.42; LCS: Clean Sand; QC Prepared: 11/10/2017; QC Analyzed: 11/11/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	620	124	500	610	122	1.6	75-125	<20	
Surrogates										
Chlorobenzene	100	122	122	100	124	124	1.6	75-125	<20	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-1; Dup or Spiked Sample: 90161.01; LCS: Clean Sand; LCS Prepared: 11/17/2017; LCS Analyzed: 11/20/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury	0.500	0.520	104	0.500	0.510	102	1.9	75-125	<15	

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-2; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/17/2017; QC Analyzed: 11/20/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Mercury	0.642	0.500	1.22	116	0.500	1.22	116	<1	75-125	<15

QC Batch No: 111717-2; Dup or Spiked Sample: 90161.13; LCS: Clean Sand; QC Prepared: 11/17/2017; QC Analyzed: 11/20/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury	0.500	0.505	101	0.500	0.505	101	<1	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-3; Dup or Spiked Sample: 90161.23; LCS: Clean Sand; QC Prepared: 11/17/2017; QC Analyzed: 11/20/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Mercury	0.00	0.500	0.555	111	0.500	0.555	111	<1	75-125	<15

QC Batch No: 111717-3; Dup or Spiked Sample: 90161.23; LCS: Clean Sand; QC Prepared: 11/17/2017; QC Analyzed: 11/20/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury	0.500	0.520	104	0.500	0.530	106	1.9	75-125	<15	

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Wilmington Marine Service

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Project ID: T73479.17
Project Name: Wilmington Marine Service

AETL Job Number	Submitted	Client
90161	11/08/2017	T/T

Method: 7471A, Mercury in Solid or Semisolid Waste, Cold-Vapor Technique

QC Batch No: 111717-4; Dup or Spiked Sample: 90161.39; LCS: Clean Sand; QC Prepared: 11/17/2017; QC Analyzed: 11/17/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Mercury	0.886	0.500	1.40	103	0.500	1.42	106	2.9	75-125	<15

QC Batch No: 111717-4; Dup or Spiked Sample: 90161.39; LCS: Clean Sand; QC Prepared: 11/17/2017; QC Analyzed: 11/17/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury	0.500	0.515	103	0.500	0.510	102	<1	75-125	<15	

American Environmental Testing Laboratory Inc.
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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference