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Simi Valley, CA 93065
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www.alsglobal.com

LABORATORY REPORT

February 12, 2015

Deborah Gray
Stantec Consulting Services, Inc.
1500 Lake Shore Drive Suite 100
Columbus, OH 43204

RE: Bridgeton / 182608020

Dear Deborah:

Enclosed are the results of the samples submitted to our laboratory on January 30, 2015. For your reference, these analyses have been assigned our service request number P1500355.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Samantha Henningsen at 12:04 pm, Feb 12, 2015

Samantha Henningsen
Project Manager



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Client: Stantec Consulting Services, Inc.
Project: Bridgeton / 182608020

Service Request No: P1500355

CASE NARRATIVE

The samples were received intact under chain of custody on January 30, 2015 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Polynuclear Aromatic Hydrocarbon Analysis

The high volume PUF/XAD-2 samples were analyzed for polynuclear aromatic hydrocarbons (PAHs). The extracts were analyzed according to the methodology outlined in EPA Method TO-13A using combined gas chromatography/mass spectrometry (GC/MS). The samples were analyzed in SIM mode which is a method modification. This method is not included on the laboratory's DoD-ELAP or AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP scope of accreditation.

The lower control criterion was exceeded for Acenaphthylene in the Laboratory Control Sample (LCS) and Duplicate Laboratory Control Sample (DLCS) extracted on February 4, 2015. The data has been qualified accordingly. No further corrective action was taken.

Sample 129sSQ-PAH (P1500355-003) was concentrated to a final volume of 10 milliliter instead of 1 milliliter due to matrix interference. The sample extracted also required an additional 10-fold dilution to quantitate naphthalene accurately. The reporting limits have been elevated accordingly.

NELAC requirements for compliance with EPA TO-13A state a duplicate sample must be analyzed. However, this is dependent upon the client submitting a secondary sample for extraction and analysis. Sample extraction was performed at the laboratory's off-site extraction facility located at 2360 Shasta Way, Suite G, Simi Valley, CA 93065.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	838341
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	CA200007
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA01627201 4-4
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Stantec Consulting Services, Inc.
 Project ID: Bridgeton / 182608020

Service Request: P1500355

Date Received: 1/30/2015
 Time Received: 07:45

TO-13A Modified - PAH SIM Hi Vol

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	
129sN-PAH	P1500355-001	Air	1/29/2015	11:53	X
129sNQ-PAH	P1500355-002	Air	1/29/2015	11:31	X
129sSQ-PAH	P1500355-003	Air	1/29/2015	12:17	X
129BLANK-PAH	P1500355-004	Air	1/29/2015	00:00	X
128U1-PAH	P1500355-005	Air	1/28/2015	09:21	X
128D1-PAH	P1500355-006	Air	1/28/2015	10:47	X
128F-PAH	P1500355-007	Air	1/28/2015	09:48	X



Record & Analytical Service Request

2655 Park Center Drive, Suite A

Simi Valley, California 93065

Phone: (805) 526-7161 Fax: (805) 526-7270

ALS Project No. **P1500355**

Project Name: **Bridgeton**

Company Name & Address (Reporting Information):
1500 Lake Shore Drive Suite 100
Columbus Ohio 43204

Project Manager: **Deb Gray**

ALS Contact: **Sarabetha Henningsen**

Project Number: **182608020**

P.O. # / Billing Information: **Direct Bill - Army Hargrove/Bridgeton LF**

Sampler (Print & Sign): **N/C/L/R/P/N/B**

Method/Analytes: **EPA TO9a, Dioxin/Furan**

Comments: **e.g. Actual Preservative or specific instructions**

Client Sample ID	Laboratory ID #	Tube ID	Date Collected	Sampling Pump	Sampling Start Time	Sampling End Time	Sample Volume (Liters)	Analysis		Comments
								EPA TO9a, Dioxin/Furan	EP TO-13 PAHs	
129SN-PAH	1	hx028	1/29/2015	1068	9:55	11:53	28.526	X	Filter	
129SNQ-PAH	2	hx081	1/29/2015	1113	9:26	11:31	30.262	X	Filter	
129SSQ-PAH	3	hx067	1/29/2015	1060	10:17	12:17	27.340	X	Filter	
29BLANK-PAH	4	hx135	1/29/2015	NA	NA	NA	0	X	Trip Blank	
128U1-PAH	5	hx201	1/28/2015	1060	9:22	9:21	358.164	X	Filter, 24 hour from 1/27 to 1/28	
128D1-PAH	6	hx016	1/28/2015	1068	10:48	10:47	350.774	X	Filter, 24 hour from 1/27 to 1/28	
128F-PAH	7	hx004	1/28/2015	1113	9:53	9:48	347.413	X	Filter, 24 hour from 1/27 to 1/28	

Report Tier Levels - please select
 Tier I - (Results/Default if not specified)
 Tier II (Results + Q9)
 Tier III (Data Validation Package) 10% Surcharge
 Tier IV (client specified)

Received by: (Signature) **FED EX** Time: **1/29/15 1700**
 Received by: (Signature) **K K** Time: **1/30/15 0745**
 Received by: (Signature) Time: _____

Project Requirements (MRLs, QAPP) **8 Media**
 Cooler / Blank temperature _____ °C

**ALS Environmental
Sample Acceptance Check Form**

Client: Stantec Consulting Services, Inc.

Work order: P1500355

Project: Bridgeton / 182608020

Sample(s) received on: 1/30/2015

Date opened: 1/30/2015

by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | <u>Yes</u> | <u>No</u> | <u>N/A</u> |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by ALS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to?
Cooler Temperature: 8° C Blank Temperature: ° C | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | Wet Ice | | |
| 9 Was a trip blank received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 Were custody seals on outside of cooler/Box? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500355-001.01	PUF/XAD-2/Filter (High Vol)					
P1500355-002.01	PUF/XAD-2/Filter (High Vol)					
P1500355-003.01	PUF/XAD-2/Filter (High Vol)					
P1500355-004.01	PUF/XAD-2/Filter (High Vol)					
P1500355-005.01	PUF/XAD-2/Filter (High Vol)					
P1500355-006.01	PUF/XAD-2/Filter (High Vol)					
P1500355-007.01	PUF/XAD-2/Filter (High Vol)					

Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 129sN-PAH

Client Project ID: Bridgeton / 182608020

ALS Project ID: P1500355

ALS Sample ID: P1500355-001

Test Code: EPA TO-13A Modified

Date Collected: 1/29/2015

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7

Date Received: 1/30/2015

Analyst: Madeleine Dangazyan

Date Extracted: 2/4/2015

Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge

Date Analyzed: 2/10/2015

Test Notes:

Final Volume: 1.0 ml

Volume Sampled: 28526 Liter(s)

Dilution Factor: 1.00

Dilution Factor: 10.0

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	520	18	0.35	3.5	0.067	D
208-96-8	Acenaphthylene	< 0.50	ND	0.018	ND	0.0028	L
83-32-9	Acenaphthene	< 0.50	ND	0.018	ND	0.0028	
86-73-7	Fluorene	< 0.50	ND	0.018	ND	0.0026	
85-01-8	Phenanthrene	< 0.50	ND	0.018	ND	0.0024	
120-12-7	Anthracene	< 0.50	ND	0.018	ND	0.0024	
206-44-0	Fluoranthene	< 0.50	ND	0.018	ND	0.0021	
129-00-0	Pyrene	< 0.50	ND	0.018	ND	0.0021	
56-55-3	Benzo(a)anthracene	< 0.50	ND	0.018	ND	0.0019	
218-01-9	Chrysene	< 0.50	ND	0.018	ND	0.0019	
205-99-2	Benzo(b)fluoranthene	< 0.50	ND	0.018	ND	0.0017	
207-08-9	Benzo(k)fluoranthene	< 0.50	ND	0.018	ND	0.0017	
50-32-8	Benzo(a)pyrene	< 0.50	ND	0.018	ND	0.0017	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	ND	0.018	ND	0.0016	
53-70-3	Dibenz(a,h)anthracene	< 0.50	ND	0.018	ND	0.0015	
191-24-2	Benzo(g,h,i)perylene	< 0.50	ND	0.018	ND	0.0016	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits.

D = The reported result is from a dilution.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.24	65	60-120	
1718-52-1	Pyrene-d10	5.00	3.57	71	60-120	
93951-69-0	Fluoranthene-d10	10.0	7.57	76	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	8.20	82	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 129sNQ-PAH

Client Project ID: Bridgeton / 182608020

ALS Project ID: P1500355

ALS Sample ID: P1500355-002

Test Code: EPA TO-13A Modified

Date Collected: 1/29/2015

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7

Date Received: 1/30/2015

Analyst: Madeleine Dangazyan

Date Extracted: 2/4/2015

Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge

Date Analyzed: 2/10/2015

Test Notes:

Final Volume: 1.0 ml

Volume Sampled: 30262 Liter(s)

Dilution Factor: 1.00

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	5.7	0.19	0.033	0.036	0.0063	
208-96-8	Acenaphthylene	< 0.50	ND	0.017	ND	0.0027	L
83-32-9	Acenaphthene	< 0.50	ND	0.017	ND	0.0026	
86-73-7	Fluorene	< 0.50	ND	0.017	ND	0.0024	
85-01-8	Phenanthrene	< 0.50	ND	0.017	ND	0.0023	
120-12-7	Anthracene	< 0.50	ND	0.017	ND	0.0023	
206-44-0	Fluoranthene	< 0.50	ND	0.017	ND	0.0020	
129-00-0	Pyrene	< 0.50	ND	0.017	ND	0.0020	
56-55-3	Benzo(a)anthracene	< 0.50	ND	0.017	ND	0.0018	
218-01-9	Chrysene	< 0.50	ND	0.017	ND	0.0018	
205-99-2	Benzo(b)fluoranthene	< 0.50	ND	0.017	ND	0.0016	
207-08-9	Benzo(k)fluoranthene	< 0.50	ND	0.017	ND	0.0016	
50-32-8	Benzo(a)pyrene	< 0.50	ND	0.017	ND	0.0016	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	ND	0.017	ND	0.0015	
53-70-3	Dibenz(a,h)anthracene	< 0.50	ND	0.017	ND	0.0015	
191-24-2	Benzo(g,h,i)perylene	< 0.50	ND	0.017	ND	0.0015	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.19	64	60-120	
1718-52-1	Pyrene-d10	5.00	3.53	71	60-120	
93951-69-0	Fluoranthene-d10	10.0	6.73	67	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	7.73	77	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 129sSQ-PAH

Client Project ID: Bridgeton / 182608020

ALS Project ID: P1500355

ALS Sample ID: P1500355-003

Test Code: EPA TO-13A Modified

Date Collected: 1/29/2015

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7

Date Received: 1/30/2015

Analyst: Madeleine Dangazyan

Date Extracted: 2/4/2015

Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge

Date Analyzed: 2/10/2015

Test Notes:

Final Volume: 10 ml

Volume Sampled: 27340 Liter(s)

Dilution Factor: 1.00

Dilution Factor: 10.0

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	6,300	230	3.7	44	0.70	D
208-96-8	Acenaphthylene	< 5.0	ND	0.18	ND	0.029	L
83-32-9	Acenaphthene	< 5.0	ND	0.18	ND	0.029	
86-73-7	Fluorene	< 5.0	ND	0.18	ND	0.027	
85-01-8	Phenanthrene	< 5.0	ND	0.18	ND	0.025	
120-12-7	Anthracene	< 5.0	ND	0.18	ND	0.025	
206-44-0	Fluoranthene	< 5.0	ND	0.18	ND	0.022	
129-00-0	Pyrene	< 5.0	ND	0.18	ND	0.022	
56-55-3	Benz(a)anthracene	< 5.0	ND	0.18	ND	0.020	
218-01-9	Chrysene	< 5.0	ND	0.18	ND	0.020	
205-99-2	Benzo(b)fluoranthene	< 5.0	ND	0.18	ND	0.018	
207-08-9	Benzo(k)fluoranthene	< 5.0	ND	0.18	ND	0.018	
50-32-8	Benzo(a)pyrene	< 5.0	ND	0.18	ND	0.018	
193-39-5	Indeno(1,2,3-cd)pyrene	< 5.0	ND	0.18	ND	0.016	
53-70-3	Dibenz(a,h)anthracene	< 5.0	ND	0.18	ND	0.016	
191-24-2	Benzo(g,h,i)perylene	< 5.0	ND	0.18	ND	0.016	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits.

D = The reported result is from a dilution.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	4.13	83	60-120	
1718-52-1	Pyrene-d10	5.00	3.36	67	60-120	
93951-69-0	Fluoranthene-d10	10.0	6.77	68	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	7.87	79	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 129BLANK-PAH

Client Project ID: Bridgeton / 182608020

ALS Project ID: P1500355

ALS Sample ID: P1500355-004

Test Code: EPA TO-13A Modified

Date Collected: 1/29/2015

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7

Date Received: 1/30/2015

Analyst: Madeleine Dangazyan

Date Extracted: 2/4/2015

Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge

Date Analyzed: 2/10/2015

Test Notes:

Final Volume: 1.0 ml

Volume Sampled: NA Liter(s)

Dilution Factor: 1.00

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	< 1.0	NA	NA	NA	NA	
208-96-8	Acenaphthylene	< 0.50	NA	NA	NA	NA	L
83-32-9	Acenaphthene	< 0.50	NA	NA	NA	NA	
86-73-7	Fluorene	< 0.50	NA	NA	NA	NA	
85-01-8	Phenanthrene	< 0.50	NA	NA	NA	NA	
120-12-7	Anthracene	< 0.50	NA	NA	NA	NA	
206-44-0	Fluoranthene	< 0.50	NA	NA	NA	NA	
129-00-0	Pyrene	< 0.50	NA	NA	NA	NA	
56-55-3	Benz(a)anthracene	< 0.50	NA	NA	NA	NA	
218-01-9	Chrysene	< 0.50	NA	NA	NA	NA	
205-99-2	Benzo(b)fluoranthene	< 0.50	NA	NA	NA	NA	
207-08-9	Benzo(k)fluoranthene	< 0.50	NA	NA	NA	NA	
50-32-8	Benzo(a)pyrene	< 0.50	NA	NA	NA	NA	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	NA	NA	NA	NA	
53-70-3	Dibenz(a,h)anthracene	< 0.50	NA	NA	NA	NA	
191-24-2	Benzo(g,h,i)perylene	< 0.50	NA	NA	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

NA = Not applicable.

L = Laboratory control sample recovery outside the specified limits.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.46	69	60-120	
1718-52-1	Pyrene-d10	5.00	4.03	81	60-120	
93951-69-0	Fluoranthene-d10	10.0	8.21	82	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	9.61	96	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 128U1-PAH

Client Project ID: Bridgeton / 182608020

Test Code: EPA TO-13A Modified
 Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
 Analyst: Madeleine Dangazyan
 Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge
 Test Notes:

ALS Project ID: P1500355
 ALS Sample ID: P1500355-005

Date Collected: 1/28/2015
 Date Received: 1/30/2015
 Date Extracted: 2/4/2015
 Date Analyzed: 2/10/2015
 Final Volume: 1.0 ml
 Volume Sampled: 358164 Liter(s)

Dilution Factor: 1.00

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	11	0.031	0.0028	0.0060	0.00053	
208-96-8	Acenaphthylene	< 0.50	ND	0.0014	ND	0.00022	L
83-32-9	Acenaphthene	< 0.50	ND	0.0014	ND	0.00022	
86-73-7	Fluorene	< 0.50	ND	0.0014	ND	0.00021	
85-01-8	Phenanthrene	1.1	0.0032	0.0014	0.00044	0.00019	
120-12-7	Anthracene	< 0.50	ND	0.0014	ND	0.00019	
206-44-0	Fluoranthene	< 0.50	ND	0.0014	ND	0.00017	
129-00-0	Pyrene	< 0.50	ND	0.0014	ND	0.00017	
56-55-3	Benz(a)anthracene	< 0.50	ND	0.0014	ND	0.00015	
218-01-9	Chrysene	< 0.50	ND	0.0014	ND	0.00015	
205-99-2	Benzo(b)fluoranthene	< 0.50	ND	0.0014	ND	0.00014	
207-08-9	Benzo(k)fluoranthene	< 0.50	ND	0.0014	ND	0.00014	
50-32-8	Benzo(a)pyrene	< 0.50	ND	0.0014	ND	0.00014	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	ND	0.0014	ND	0.00012	
53-70-3	Dibenz(a,h)anthracene	< 0.50	ND	0.0014	ND	0.00012	
191-24-2	Benzo(g,h,i)perylene	< 0.50	ND	0.0014	ND	0.00012	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.05	61	60-120	
1718-52-1	Pyrene-d10	5.00	3.68	74	60-120	
93951-69-0	Fluoranthene-d10	10.0	6.85	69	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	6.84	68	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 128D1-PAH

Client Project ID: Bridgeton / 182608020

Test Code: EPA TO-13A Modified
 Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
 Analyst: Madeleine Dangazyan
 Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge
 Test Notes:

ALS Project ID: P1500355
 ALS Sample ID: P1500355-006

Date Collected: 1/28/2015
 Date Received: 1/30/2015
 Date Extracted: 2/4/2015
 Date Analyzed: 2/10/2015
 Final Volume: 1.0 ml
 Volume Sampled: 350774 Liter(s)

Dilution Factor: 1.00

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	16	0.047	0.0029	0.0089	0.00054	
208-96-8	Acenaphthylene	< 0.50	ND	0.0014	ND	0.00023	L
83-32-9	Acenaphthene	< 0.50	ND	0.0014	ND	0.00023	
86-73-7	Fluorene	< 0.50	ND	0.0014	ND	0.00021	
85-01-8	Phenanthrene	1.3	0.0036	0.0014	0.00049	0.00020	
120-12-7	Anthracene	< 0.50	ND	0.0014	ND	0.00020	
206-44-0	Fluoranthene	< 0.50	ND	0.0014	ND	0.00017	
129-00-0	Pyrene	< 0.50	ND	0.0014	ND	0.00017	
56-55-3	Benz(a)anthracene	< 0.50	ND	0.0014	ND	0.00015	
218-01-9	Chrysene	< 0.50	ND	0.0014	ND	0.00015	
205-99-2	Benzo(b)fluoranthene	< 0.50	ND	0.0014	ND	0.00014	
207-08-9	Benzo(k)fluoranthene	< 0.50	ND	0.0014	ND	0.00014	
50-32-8	Benzo(a)pyrene	< 0.50	ND	0.0014	ND	0.00014	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	ND	0.0014	ND	0.00013	
53-70-3	Dibenz(a,h)anthracene	< 0.50	ND	0.0014	ND	0.00013	
191-24-2	Benzo(g,h,i)perylene	< 0.50	ND	0.0014	ND	0.00013	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.18	64	60-120	
1718-52-1	Pyrene-d10	5.00	4.19	84	60-120	
93951-69-0	Fluoranthene-d10	10.0	7.88	79	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	7.58	76	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: 128F-PAH

Client Project ID: Bridgeton / 182608020

Test Code: EPA TO-13A Modified
 Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
 Analyst: Madeleine Dangazyan
 Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge
 Test Notes:

ALS Project ID: P1500355
 ALS Sample ID: P1500355-007

Date Collected: 1/28/2015
 Date Received: 1/30/2015
 Date Extracted: 2/4/2015
 Date Analyzed: 2/10/2015
 Final Volume: 1.0 ml
 Volume Sampled: 347413 Liter(s)

Dilution Factor: 1.00

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	17	0.049	0.0029	0.0094	0.00055	
208-96-8	Acenaphthylene	< 0.50	ND	0.0014	ND	0.00023	L
83-32-9	Acenaphthene	< 0.50	ND	0.0014	ND	0.00023	
86-73-7	Fluorene	< 0.50	ND	0.0014	ND	0.00021	
85-01-8	Phenanthrene	1.4	0.0041	0.0014	0.00056	0.00020	
120-12-7	Anthracene	< 0.50	ND	0.0014	ND	0.00020	
206-44-0	Fluoranthene	< 0.50	ND	0.0014	ND	0.00017	
129-00-0	Pyrene	< 0.50	ND	0.0014	ND	0.00017	
56-55-3	Benz(a)anthracene	< 0.50	ND	0.0014	ND	0.00015	
218-01-9	Chrysene	< 0.50	ND	0.0014	ND	0.00015	
205-99-2	Benzo(b)fluoranthene	< 0.50	ND	0.0014	ND	0.00014	
207-08-9	Benzo(k)fluoranthene	< 0.50	ND	0.0014	ND	0.00014	
50-32-8	Benzo(a)pyrene	< 0.50	ND	0.0014	ND	0.00014	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	ND	0.0014	ND	0.00013	
53-70-3	Dibenz(a,h)anthracene	< 0.50	ND	0.0014	ND	0.00013	
191-24-2	Benzo(g,h,i)perylene	< 0.50	ND	0.0014	ND	0.00013	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.03	61	60-120	
1718-52-1	Pyrene-d10	5.00	3.84	77	60-120	
93951-69-0	Fluoranthene-d10	10.0	7.69	77	60-120	
63466-71-7	Benzo[a]pyrene-d12	10.0	7.48	75	60-120	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec Consulting Services, Inc.

Client Sample ID: Method Blank

Client Project ID: Bridgeton / 182608020

ALS Project ID: P1500355

ALS Sample ID: P150204-MB

Test Code: EPA TO-13A Modified

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7

Date Received: NA

Analyst: Madeleine Dangazyan

Date Extracted: 2/04/15

Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge

Date Analyzed: 2/10/2015

Test Notes:

Final Volume: 1.0 ml

Volume Sampled: NA Liter(s)

CAS #	Compound	Result µg/Cartridge	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
91-20-3	Naphthalene	< 1.0	NA	NA	NA	NA	
208-96-8	Acenaphthylene	< 0.50	NA	NA	NA	NA	L
83-32-9	Acenaphthene	< 0.50	NA	NA	NA	NA	
86-73-7	Fluorene	< 0.50	NA	NA	NA	NA	
85-01-8	Phenanthrene	< 0.50	NA	NA	NA	NA	
120-12-7	Anthracene	< 0.50	NA	NA	NA	NA	
206-44-0	Fluoranthene	< 0.50	NA	NA	NA	NA	
129-00-0	Pyrene	< 0.50	NA	NA	NA	NA	
56-55-3	Benz(a)anthracene	< 0.50	NA	NA	NA	NA	
218-01-9	Chrysene	< 0.50	NA	NA	NA	NA	
205-99-2	Benzo(b)fluoranthene	< 0.50	NA	NA	NA	NA	
207-08-9	Benzo(k)fluoranthene	< 0.50	NA	NA	NA	NA	
50-32-8	Benzo(a)pyrene	< 0.50	NA	NA	NA	NA	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.50	NA	NA	NA	NA	
53-70-3	Dibenz(a,h)anthracene	< 0.50	NA	NA	NA	NA	
191-24-2	Benzo(g,h,i)perylene	< 0.50	NA	NA	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

NA = Not applicable.

L = Laboratory control sample recovery outside the specified limits.

SURROGATE SPIKE RECOVERY RESULTS

CAS #	Compound	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	5.00	3.66	73	60-120	
1718-52-1	Pyrene-d10	5.00	3.77	75	60-120	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Stantec Consulting Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bridgeton / 182608020

ALS Project ID: P1500355
 ALS Sample ID: P150204-DLCS

Test Code: EPA TO-13A Modified
 Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
 Analyst: Madeleine Dangazyan
 Sampling Media: PUF/XAD-2/Filter (Hi_Vol) Cartridge
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Extracted: 2/4/15
 Date Analyzed: 2/10/2015
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	µg/ml	LCS	DLCS	LCS	DLCS	Acceptance Limits			
91-20-3	Naphthalene	5.00	3.19	3.26	64	65	60-120	2	32		
208-96-8	Acenaphthylene	5.00	2.76	2.84	55	57	60-120	4	16	L	
83-32-9	Acenaphthene	5.00	3.04	3.10	61	62	60-120	2	16		
86-73-7	Fluorene	5.00	3.13	3.17	63	63	60-120	0	22		
85-01-8	Phenanthrene	5.00	3.08	2.99	62	60	60-120	3	14		
120-12-7	Anthracene	5.00	3.18	3.17	64	63	60-120	2	12		
206-44-0	Fluoranthene	5.00	3.60	3.55	72	71	60-120	1	14		
129-00-0	Pyrene	5.00	3.56	3.52	71	70	60-120	1	16		
56-55-3	Benz(a)anthracene	5.00	4.41	4.45	88	89	60-120	1	7		
218-01-9	Chrysene	5.00	4.23	4.28	85	86	60-120	1	7		
205-99-2	Benzo(b)fluoranthene	5.00	4.49	4.63	90	93	60-120	3	14		
207-08-9	Benzo(k)fluoranthene	5.00	4.69	4.86	94	97	60-120	3	12		
50-32-8	Benzo(a)pyrene	5.00	3.87	3.98	77	80	60-120	4	9		
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.40	4.68	88	94	60-120	7	20		
53-70-3	Dibenz(a,h)anthracene	5.00	5.15	5.33	103	107	60-120	4	10		
191-24-2	Benzo(g,h,i)perylene	5.00	4.97	5.15	99	103	60-120	4	16		

L = Laboratory control sample recovery outside the specified limits.

SURROGATE/FIELD SPIKE RECOVERY RESULTS

CAS #	Compound	QC Sample	Spike Amount µg/Sample	Amount Found µg/Sample	% Recovered	Acceptance Limits	Data Qualifier
81103-79-9	Fluorene-d10	LCS	5.00	3.36	67	60-120	
1718-52-1	Pyrene-d10	LCS	5.00	3.69	74	60-120	
93951-69-0	Fluoranthene-d10	LCS	5.00	4.83	97	60-120	
63466-71-7	Benzo[a]pyrene-d12	LCS	5.00	4.56	91	60-120	
81103-79-9	Fluorene-d10	DLCS	5.00	3.53	71	60-120	
1718-52-1	Pyrene-d10	DLCS	5.00	3.65	73	60-120	
93951-69-0	Fluoranthene-d10	DLCS	5.00	4.77	95	60-120	
63466-71-7	Benzo[a]pyrene-d12	DLCS	5.00	4.68	94	60-120	

Method Path : J:\MS15\METHODS\
Method File : PS101014E.M
Title : TO-13A Modified For PAHs in SIM
Last Update : Fri Oct 10 16:50:53 2014
Response Via : Initial Calibration

Calibration Files
0.5 =10101404.D 1 =10101405.D 5 =10101406.D 10 =10101407.D 20 =10101408.D 40 =10101412.D
100 =10101410.D

Compound	0.5	1	5	10	20	40	100	Avg	%RSD
1) I Naphthalene-d8	1.224	1.217	1.117	1.045	1.090	1.145	1.024	1.123	6.95
2) Naphthalene									
3) I Acenaphthene-d10									
4) Acenaphthylene	2.561	2.541	2.299	2.117	2.112	2.063		2.282	9.80
5) Acenaphthene	1.566	1.476	1.303	1.203	1.210	1.197		1.326	11.95
6) S Fluorene-d10	1.431	1.349	1.205	1.103	1.107	1.113		1.218	11.59
7) Fluorene	1.662	1.638	1.504	1.399	1.403	1.474		1.514	7.51
8) I Phenanthrene-d10									
9) Phenanthrene	1.414	1.482	1.280	1.304	1.285	1.231		1.333	7.12
10) Anthracene	1.634	1.621	1.532	1.425	1.416	1.364		1.499	7.59
11) S Fluoranthene-d10	1.303	1.280	1.185	1.078	1.091	1.035		1.162	9.62
12) Fluoranthene	1.584	1.541	1.419	1.293	1.312	1.239		1.398	10.07
13) S Pyrene-d10	1.146	1.118	1.046	0.953	0.971	0.923		1.026	8.95
14) Pyrene	1.619	1.573	1.453	1.328	1.345	1.261		1.430	10.02
15) I Chrysene-d12									
16) Benzo[a]anthra...	1.495	1.406	1.331	1.272	1.295	1.418		1.370	6.17
17) Chrysene	1.709	1.699	1.548	1.422	1.443	1.567		1.565	7.79
18) I Perylene-d12									
19) Benzo[b]fluora...	1.304	1.254	1.203	1.103	1.075	1.101		1.174	8.01
20) Benzo[k]fluora...	1.695	1.666	1.420	1.263	1.348	1.261		1.442	13.45
21) S Benzo[a]pyrene...	0.941	0.948	0.839	0.822	0.808	0.789		0.858	8.04
22) Benzo[a]pyrene	1.323	1.362	1.281	1.157	1.117	1.139		1.230	8.54
23) Indeno[1,2,3-C...	1.386	1.385	1.262	1.142	1.125	1.227		1.255	9.05
24) Dibenz[a,h]ant...	1.093	1.099	1.004	0.917	0.908	0.959		0.997	8.43
25) Benzo[g,h,i]pe...	1.205	1.188	1.103	1.012	1.000	1.004		1.085	8.69

(#) = Out of Range

ALS Environmental

TO-13A Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS

Method : TO-13A Modified For PAHs in SIM
 Client & Job# : Stantec P1500355
 Analyst : MD

Printed : 2/10/2015
 Instrument : MS07
 Date Acquired : 2/10/2015
 Sample Media: HiVol puf/xad + filter

MD
 2/10/15

SAMPLE RESULT SUMMARIES (ug/ml)

MDL	%Diff.	ug/ml	% Rec.	ug/ml	% Rec.	ug/ml	%RPD	ug/sample	ug/sample	ug/sample
Sample Information :		10ug/ml PAHs CCV		LCS 5ug/ml ext.2/4/15 fv=1mL	% Rec. fv=1mL	LCSD 5ug/ml ext.2/4/15 fv=1mL		MB ext.2/4/15 fv=1mL	P1500355-004 ext.2/4/15 fv=1mL	P1500355-001 P1500355-002 ext.2/4/15 fv=1mL
Dilution Factor		1.0		1.0		1.0		1.0	1.0	1.0
Final Extract Vol. (ml)		1.0		1.0		1.0		1.0	1.0	1.0
Naphthalene	2.1%	9.79	64%	3.26	65%	3.26	2%	ND	ND	5.689
Acenaphthylene	1.4%	9.86	55%	2.84	57%	2.84	3%	ND	ND	ND
Acenaphthene	7.2%	9.28	61%	3.10	62%	3.10	2%	ND	ND	ND
Fluorene	2.8%	9.73	63%	3.17	63%	3.17	1%	ND	ND	ND
Phenanthrene	9.8%	9.02	62%	3.08	60%	2.99	3%	ND	ND	ND
Anthracene	12.6%	8.74	64%	3.18	63%	3.17	0%	ND	ND	ND
Fluoranthene	5.2%	9.48	72%	3.60	71%	3.55	1%	ND	ND	ND
Pyrene	5.1%	9.50	71%	3.56	70%	3.52	1%	ND	ND	ND
Benzo(a)anthracene	1.5%	10.15	88%	4.41	89%	4.45	1%	ND	ND	ND
Chrysene	6.9%	9.31	85%	4.23	86%	4.28	1%	ND	ND	ND
Benzo[b]fluoranthene	4.3%	10.43	90%	4.49	93%	4.63	3%	ND	ND	ND
Benzo[k]fluoranthene	2.6%	9.74	94%	4.69	97%	4.86	4%	ND	ND	ND
Benzo[a]pyrene	1.2%	9.88	77%	3.87	80%	3.98	3%	ND	ND	ND
Indeno[1,2,3-cd]pyrene	13.6%	11.36	88%	4.40	94%	4.68	6%	ND	ND	ND
Dibenz[a,h]anthracene	9.3%	10.93	103%	5.15	107%	5.33	3%	ND	ND	ND
Benzo[g,h,i]perylene	2.2%	10.22	99%	4.97	103%	5.15	4%	ND	ND	ND

% Surrogate Spike Recoveries Summary

Sample Information :	LCS 5ug/ml ext.2/4/15 fv=1mL	LCSD 5ug/ml ext.2/4/15 fv=1mL	Pass	Pass
Fluorene-d10	3.36	3.53	Pass	Pass
Pyrene-d10	67%	71%	Pass	Pass
Fluorene-d10	3.69	3.65	Pass	Pass
Pyrene-d10	74%	73%	Pass	Pass
MB ext.2/4/15 fv=1mL	3.66	3.46	Pass	Pass
P1500355-004 ext.2/4/15 fv=1mL	73%	69%	Pass	Pass
P1500355-001 P1500355-002 ext.2/4/15 fv=1mL	3.77	4.03	Pass	Pass
	75%	81%	Pass	Pass