



Post Office Box 8043
Madison, WI 53708-8043

**Madison-Kipp
Corporation**

201 Waubesa Street
Madison, WI 53704-5728

March 2, 2016

James Brodzeller
Wastewater Specialist
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Rd.
Fitchburg, WI 53711

Subject: Discharge Monitoring Report - Groundwater Extraction and Treatment System,
Madison Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin

Dear Mr. Brodzeller,

The Groundwater Extraction and Treatment System (GETS) ran for the month of February, with the exception of maintenance activities. This letter summarizes the activities completed in February 2016 as part of the GETS at the Madison Kipp Corporation (MKC) site under the Wisconsin Pollution Discharge Elimination System (WPDES) Permit WI-0046566-6. Compliance samples were collected on February 8, 2016 per the WPDES permit, including visual monitoring for sodium permanganate neutralization. The compliance sample results were below the WPDES discharge limits. The Discharge Monitoring Report is included as Attachment A and laboratory reports are included as Attachment B.

During the month of February, the GETS was shut down for less than 24 hours at a time in order to change the hydrogen peroxide tank and repair a level switch. Due to an issue with the air stripper, the GETS ran at 40 gpm on February 29th. The air stripper issue was addressed and the system has returned to operating at 45 gpm. If you have any questions or need additional information, please contact me at asatkoski@madison-kipp.com or (608) 242-5200.

Alina Satkoski

Madison Kipp Corporation

Attachment A Discharge Monitoring Report Form

Attachment B Laboratory Reports

Copies:

Andrew Stehn - TRC (electronic)

Mike Schmoller - WDNR (electronic)

George Parrino - Madison Department of Health (electronic)

FOOTNOTES:

- (1) Total BETX is the sum of the benzene, ethylbenzene, toluene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.
- (2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted
- (3) Madison Kipp/Arcadis/TRC will conduct visual monitoring for this compound.
- (4) No effluent limit is established, refer to section 4 of the permit.

DIRECTIONS:

- ☞ For "Outfall # and Description" enter the number of the outfall you are reporting (001 or 002, etc.)
- ☞ Monitoring for a given parameter depends on if the discharge is to surface water or groundwater.
- ☞ The value entered must be the highest value of all samples analyzed for that day.
- ☞ Print additional DMRs as necessary for monthly reporting.

RETURN REPORT BY: **February 15, of the year following completion of monitoring**

RETURN TO: **ATTN: Nicholas Bertolas**
Department of Natural Resources
3911 Fish Hatchery Rd.
Fitchburg, WI 53711

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment, (40 CFR 122.5). I also certify that the values being submitted are the actual values found in the samples; no values have been modified or changed in any manner. Wherever I believe a value being reported is inaccurate, I have added an explanation indicating the reasons why the value is inaccurate.

Alina Lotkewitz

3-2-2016

Signature of Person Completing Form

Date

Alina Lotkewitz

3-2-2016

Signature of Principal Exec. or Authorized Agent

Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-107349-1

Client Project/Site: MadisonKipp GETS/SVE Sampling

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

2/11/2016 11:20:21 AM

Eric Lang, Manager of Project Management

(708)534-5200

eric.lang@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	9
QC Association	10
QC Sample Results	11
Chronicle	13
Certification Summary	14
Chain of Custody	15
Receipt Checklists	18

Case Narrative

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Job ID: 500-107349-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-107349-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Client Sample ID: Influent

Lab Sample ID: 500-107349-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HEM (Oil & Grease)	0.68	J B	5.6	0.61	mg/L	1		1664B	Total/NA
Chloride	100		5.0	1.9	mg/L	25		300.0	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 500-107349-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	110		5.0	1.9	mg/L	25		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Method	Method Description	Protocol	Laboratory
1664B	HEM and SGT-HEM	1664B	TAL CHI
300.0	Anions, Ion Chromatography	MCAWW	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI

Protocol References:

1664B = 1664B

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107349-1	Influent	Water	02/08/16 08:05	02/09/16 09:10
500-107349-2	Effluent	Water	02/08/16 08:10	02/09/16 09:10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Client Sample ID: Influent

Lab Sample ID: 500-107349-1

Date Collected: 02/08/16 08:05

Matrix: Water

Date Received: 02/09/16 09:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	0.68	J B	5.6	0.61	mg/L		02/09/16 18:18	02/09/16 20:15	1
Chloride	100		5.0	1.9	mg/L			02/09/16 22:19	25
Total Suspended Solids	<1.6		5.0	1.6	mg/L			02/09/16 12:12	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Client Sample ID: Effluent

Lab Sample ID: 500-107349-2

Date Collected: 02/08/16 08:10

Matrix: Water

Date Received: 02/09/16 09:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<0.57		5.3	0.57	mg/L		02/09/16 18:26	02/09/16 20:20	1
Chloride	110		5.0	1.9	mg/L			02/09/16 22:32	25
Total Suspended Solids	<1.6		5.0	1.6	mg/L			02/09/16 12:14	1

Definitions/Glossary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

General Chemistry

Analysis Batch: 322196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	SM 2540D	
500-107349-2	Effluent	Total/NA	Water	SM 2540D	
LCS 500-322196/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 500-322196/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 322233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	1664B	
500-107349-2	Effluent	Total/NA	Water	1664B	
LCS 500-322233/2-A	Lab Control Sample	Total/NA	Water	1664B	
MB 500-322233/1-A	Method Blank	Total/NA	Water	1664B	

Analysis Batch: 322235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	1664B	322233
500-107349-2	Effluent	Total/NA	Water	1664B	322233
LCS 500-322233/2-A	Lab Control Sample	Total/NA	Water	1664B	322233
MB 500-322233/1-A	Method Blank	Total/NA	Water	1664B	322233

Analysis Batch: 322296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	300.0	
500-107349-2	Effluent	Total/NA	Water	300.0	
500-107349-2 MS	Effluent	Total/NA	Water	300.0	
500-107349-2 MSD	Effluent	Total/NA	Water	300.0	
LCS 500-322296/4	Lab Control Sample	Total/NA	Water	300.0	
MB 500-322296/3	Method Blank	Total/NA	Water	300.0	

QC Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-322233/1-A
 Matrix: Water
 Analysis Batch: 322235

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 322233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	0.900	J	5.0	0.54	mg/L		02/09/16 15:20	02/09/16 18:40	1

Lab Sample ID: LCS 500-322233/2-A
 Matrix: Water
 Analysis Batch: 322235

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 322233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	35.1		mg/L		88	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-322296/3
 Matrix: Water
 Analysis Batch: 322296

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.076		0.20	0.076	mg/L			02/09/16 19:15	1

Lab Sample ID: LCS 500-322296/4
 Matrix: Water
 Analysis Batch: 322296

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.89		mg/L		96	90 - 110

Lab Sample ID: 500-107349-2 MS
 Matrix: Water
 Analysis Batch: 322296

Client Sample ID: Effluent
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	110		25.0	129	4	mg/L		94	80 - 120

Lab Sample ID: 500-107349-2 MSD
 Matrix: Water
 Analysis Batch: 322296

Client Sample ID: Effluent
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	110		25.0	126	4	mg/L		84	80 - 120	2	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-322196/1
 Matrix: Water
 Analysis Batch: 322196

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.6		5.0	1.6	mg/L			02/09/16 12:00	1

TestAmerica Chicago

QC Sample Results

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 500-322196/2

Matrix: Water

Analysis Batch: 322196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	200	230		mg/L		115	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Client Sample ID: Influent

Lab Sample ID: 500-107349-1

Date Collected: 02/08/16 08:05

Matrix: Water

Date Received: 02/09/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664B			322233	02/09/16 18:18	SSF	TAL CHI
Total/NA	Analysis	1664B		1	322235	02/09/16 20:15	SSF	TAL CHI
Total/NA	Analysis	300.0		25	322296	02/09/16 22:19	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	322196		SMO	TAL CHI
					(Start)	02/09/16 12:12		
					(End)	02/09/16 12:14		

Client Sample ID: Effluent

Lab Sample ID: 500-107349-2

Date Collected: 02/08/16 08:10

Matrix: Water

Date Received: 02/09/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664B			322233	02/09/16 18:26	SSF	TAL CHI
Total/NA	Analysis	1664B		1	322235	02/09/16 20:20	SSF	TAL CHI
Total/NA	Analysis	300.0		25	322296	02/09/16 22:32	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	322196		SMO	TAL CHI
					(Start)	02/09/16 12:14		
					(End)	02/09/16 12:15		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL TI

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5



500-107349 COC

Report To (optional)
Contact: Alina Satkoski
Company: mkc
Address: 201 Waubesa St.
Madison WI
Phone: 608-242-5200
Fax:
E-Mail: ASATKOSKI@madison-kipp.com

Bill To (optional)
Contact: Accounts Payable
Company: mkc
Address: 201 Waubesa St.
Madison, WI 53704
Phone:
Fax:
PO#/Reference# 106371

Chain of Custody Record

Lab Job #: 500-107349

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
mkc				1	7	7	2				
Project Name		Lab Project #		Date		Time		# of Containers		Preservative Key	
GETS/SVE Sampling				2/8/16		805		9 W			
Project Location/State		Lab Project #		Date		Time		# of Containers		Preservative Key	
Madison, WI				2/8/16		810		9 W			
Sampler		Lab PM		Date		Time		# of Containers		Preservative Key	
Alina Satkoski								1 W			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	PAH	BOD/TSS/Chloride	Oil + Grease	Comments
1		Influent	2/8/16	805	9 W		X	X	X	X	For VOC +
2		Effluent	2/8/16	810	9 W		X	X	X	X	PAH see
3		Trip Blank			1 W		X				attached
											analyte list

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Alina Satkoski</u>	Company <u>mkc</u>	Date <u>2/8/16</u>	Time <u>1600</u>	Received By <u>Theresa Scott</u>	Company <u>TH-CART</u>	Date <u>2/9/16</u>	Time <u>0910</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: FedEx
Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:

Parameter	Method
VOCs	
Bromoform	624
Carbon Tetrachloride	624
Dichlorobromomethane	624
1,2-Dichloroethane	624
1,1-Dichloroethylene	624
Methyl Bromide	624
Methyl Chloride	624
1,1,2,2-Tetrachloroethane	624
Tetrachloroethylene	624
1,1,2-Trichloroethane	624
1,1,1-Trichloroethane	624
Trichloroethylene	624
Vinyl Chloride	624
Cis-1,2-Dichloroethene	624
Trans-1,2-Dichloroethene	624
TSS	
Suspended Solids, Total	2540D
BTEX	
Benzene	624
Toluene	
Ethylbenzene	
Xylenes	

PAHs (Group of 10)

Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	

PAHs

Benzo(a)pyrene	625 SIM
Naphthalene	

Oil and Grease

Oil and Grease	1664
----------------	------

BOD₅

BOD ₅	5210B
------------------	-------

Anions

Chloride	300
----------	-----

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-107349-1

Login Number: 107349

List Number: 1

Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-107349-2

Client Project/Site: MadisonKipp GETS/SVE Sampling

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

2/25/2016 4:53:19 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	12
QC Association	13
Surrogate Summary	14
QC Sample Results	15
Chronicle	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	24

Case Narrative

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Job ID: 500-107349-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107349-2

Comments

No additional comments.

Receipt

The samples were received on 2/9/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-107349-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 625 SIM: Internal standard (ISTD) response for Perylene-d12 in the following sample was outside of acceptance limits: Effluent (500-107349-2). No compounds were detected above the method detection limit; therefore, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Influent

Lab Sample ID: 500-107349-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	2300		50	19	ug/L	50		624	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 500-107349-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	43		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	6.4		0.50	0.16	ug/L	1		624	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-107349-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
625 SIM	Semivolatile Organic Compounds GC/MS (SIM)	40CFR136A	TAL NSH
SM 5210B	BOD, 5-Day	SM	TAL CHI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107349-1	Influent	Water	02/08/16 08:05	02/09/16 09:10
500-107349-2	Effluent	Water	02/08/16 08:10	02/09/16 09:10
500-107349-3	Trip Blank	Water	02/08/16 00:00	02/09/16 09:10

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Influent

Date Collected: 02/08/16 08:05

Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			02/14/16 07:53	5
Bromoform	<2.2		5.0	2.2	ug/L			02/14/16 07:53	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			02/14/16 07:53	5
Chloroform	<1.9		5.0	1.9	ug/L			02/14/16 07:53	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			02/14/16 07:53	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			02/14/16 07:53	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			02/14/16 07:53	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			02/14/16 07:53	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			02/14/16 07:53	5
Methyl bromide	<3.2		10	3.2	ug/L			02/14/16 07:53	5
Methyl chloride	<1.6		5.0	1.6	ug/L			02/14/16 07:53	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			02/14/16 07:53	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			02/14/16 07:53	5
Toluene	<0.76		2.5	0.76	ug/L			02/14/16 07:53	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			02/14/16 07:53	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			02/14/16 07:53	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			02/14/16 07:53	5
Trichloroethene	<0.82		2.5	0.82	ug/L			02/14/16 07:53	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			02/14/16 07:53	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			02/14/16 07:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 120		02/14/16 07:53	5
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		02/14/16 07:53	5
Toluene-d8 (Surr)	102		75 - 120		02/14/16 07:53	5

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2300		50	19	ug/L			02/14/16 08:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 120		02/14/16 08:20	50
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		02/14/16 08:20	50
Toluene-d8 (Surr)	99		75 - 120		02/14/16 08:20	50

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 19:36	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 19:36	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 19:36	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1
Chrysene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 19:36	1
Fluoranthene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 19:36	1
Naphthalene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1
Phenanthrene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1
Pyrene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Influent

Date Collected: 02/08/16 08:05

Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		29 - 120	02/11/16 13:20	02/24/16 19:36	1
Nitrobenzene-d5	28		27 - 120	02/11/16 13:20	02/24/16 19:36	1
Phenol-d5	21		10 - 120	02/11/16 13:20	02/24/16 19:36	1
Terphenyl-d14	35		13 - 120	02/11/16 13:20	02/24/16 19:36	1
2,4,6-Tribromophenol	42		10 - 120	02/11/16 13:20	02/24/16 19:36	1
2-Fluorobiphenyl (Surr)	38		10 - 120	02/11/16 13:20	02/24/16 19:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			02/10/16 06:57	1

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Effluent

Date Collected: 02/08/16 08:10

Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-2

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/14/16 07:27	1
Bromoform	<0.45		1.0	0.45	ug/L			02/14/16 07:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/14/16 07:27	1
Chloroform	<0.37		1.0	0.37	ug/L			02/14/16 07:27	1
cis-1,2-Dichloroethene	19		1.0	0.41	ug/L			02/14/16 07:27	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/14/16 07:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/14/16 07:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/14/16 07:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/14/16 07:27	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/14/16 07:27	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/14/16 07:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/14/16 07:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/14/16 07:27	1
Tetrachloroethene	43		1.0	0.37	ug/L			02/14/16 07:27	1
Toluene	<0.15		0.50	0.15	ug/L			02/14/16 07:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/14/16 07:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/14/16 07:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/14/16 07:27	1
Trichloroethene	6.4		0.50	0.16	ug/L			02/14/16 07:27	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/14/16 07:27	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/14/16 07:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 120					02/14/16 07:27	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 125					02/14/16 07:27	1
Toluene-d8 (Surr)	100		75 - 120					02/14/16 07:27	1

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.024	*	0.048	0.024	ug/L		02/11/16 13:20	02/24/16 20:00	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 20:00	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 20:00	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Chrysene	<0.048	*	0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 20:00	1
Fluoranthene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		02/11/16 13:20	02/24/16 20:00	1
Naphthalene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Phenanthrene	<0.048		0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Pyrene	<0.048	*	0.096	0.048	ug/L		02/11/16 13:20	02/24/16 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		29 - 120				02/11/16 13:20	02/24/16 20:00	1
Nitrobenzene-d5	51		27 - 120				02/11/16 13:20	02/24/16 20:00	1
Phenol-d5	30		10 - 120				02/11/16 13:20	02/24/16 20:00	1
Terphenyl-d14	24	*	13 - 120				02/11/16 13:20	02/24/16 20:00	1
2,4,6-Tribromophenol	28		10 - 120				02/11/16 13:20	02/24/16 20:00	1
2-Fluorobiphenyl (Surr)	55		10 - 120				02/11/16 13:20	02/24/16 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Effluent
Date Collected: 02/08/16 08:10
Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			02/10/16 06:59	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Trip Blank

Lab Sample ID: 500-107349-3

Date Collected: 02/08/16 00:00

Matrix: Water

Date Received: 02/09/16 09:10

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/14/16 02:06	1
Bromoform	<0.45		1.0	0.45	ug/L			02/14/16 02:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/14/16 02:06	1
Chloroform	<0.37		1.0	0.37	ug/L			02/14/16 02:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/14/16 02:06	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/14/16 02:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/14/16 02:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/14/16 02:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/14/16 02:06	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/14/16 02:06	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/14/16 02:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/14/16 02:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/14/16 02:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/14/16 02:06	1
Toluene	<0.15		0.50	0.15	ug/L			02/14/16 02:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/14/16 02:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/14/16 02:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/14/16 02:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/14/16 02:06	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/14/16 02:06	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/14/16 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 120		02/14/16 02:06	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		02/14/16 02:06	1
Toluene-d8 (Surr)	100		75 - 120		02/14/16 02:06	1

Definitions/Glossary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

GC/MS VOA

Analysis Batch: 322715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	624	
500-107349-1 - DL	Influent	Total/NA	Water	624	
500-107349-2	Effluent	Total/NA	Water	624	
500-107349-2 MS	Effluent	Total/NA	Water	624	
500-107349-2 MSD	Effluent	Total/NA	Water	624	
500-107349-3	Trip Blank	Total/NA	Water	624	
LCS 500-322715/4	Lab Control Sample	Total/NA	Water	624	
MB 500-322715/6	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 317461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	625	
500-107349-2	Effluent	Total/NA	Water	625	
LCS 490-317461/2-A	Lab Control Sample	Total/NA	Water	625	
MB 490-317461/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 319026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	625 SIM	317461
500-107349-2	Effluent	Total/NA	Water	625 SIM	317461
LCS 490-317461/2-A	Lab Control Sample	Total/NA	Water	625 SIM	317461
MB 490-317461/1-A	Method Blank	Total/NA	Water	625 SIM	317461

General Chemistry

Analysis Batch: 322279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107349-1	Influent	Total/NA	Water	SM 5210B	
500-107349-2	Effluent	Total/NA	Water	SM 5210B	
LCS 500-322279/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 500-322279/1	Method Blank	Total/NA	Water	SM 5210B	

Surrogate Summary

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	12DCE	TOL
		(75-120)	(75-125)	(75-120)
500-107349-1	Influent	99	96	102
500-107349-1 - DL	Influent	98	99	99
500-107349-2	Effluent	98	96	100
500-107349-2 MS	Effluent	100	96	102
500-107349-2 MSD	Effluent	100	99	103
500-107349-3	Trip Blank	96	96	100
LCS 500-322715/4	Lab Control Sample	98	99	101
MB 500-322715/6	Method Blank	97	99	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 12DCE = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	NBZ	PHL	TPH	TBP	FBP
		(29-120)	(27-120)	(10-120)	(13-120)	(10-120)	(10-120)
500-107349-1	Influent	40	28	21	35	42	38
500-107349-2	Effluent	36	51	30	24 *	28	55
LCS 490-317461/2-A	Lab Control Sample	77	70	51	85	73	75
MB 490-317461/1-A	Method Blank	68	65	42	72	59	76

Surrogate Legend

2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPH = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl (Surr)

QC Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322715/6

Matrix: Water

Analysis Batch: 322715

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/14/16 01:39	1
Bromoform	<0.45		1.0	0.45	ug/L			02/14/16 01:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/14/16 01:39	1
Chloroform	<0.37		1.0	0.37	ug/L			02/14/16 01:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/14/16 01:39	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/14/16 01:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/14/16 01:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/14/16 01:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/14/16 01:39	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/14/16 01:39	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/14/16 01:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/14/16 01:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/14/16 01:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/14/16 01:39	1
Toluene	<0.15		0.50	0.15	ug/L			02/14/16 01:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/14/16 01:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/14/16 01:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/14/16 01:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/14/16 01:39	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/14/16 01:39	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/14/16 01:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 120		02/14/16 01:39	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		02/14/16 01:39	1
Toluene-d8 (Surr)	99		75 - 120		02/14/16 01:39	1

Lab Sample ID: LCS 500-322715/4

Matrix: Water

Analysis Batch: 322715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.6		ug/L		93	37 - 151
Bromoform	50.0	48.9		ug/L		98	45 - 169
Carbon tetrachloride	50.0	42.1		ug/L		84	70 - 140
Chloroform	50.0	44.9		ug/L		90	51 - 138
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 130
Dichlorobromomethane	50.0	47.3		ug/L		95	35 - 155
1,2-Dichloroethane	50.0	47.0		ug/L		94	49 - 155
1,1-Dichloroethene	50.0	45.7		ug/L		91	10 - 234
Ethylbenzene	50.0	46.3		ug/L		93	37 - 162
Methyl bromide	50.0	40.5		ug/L		81	10 - 242
Methyl chloride	50.0	47.6		ug/L		95	10 - 273
m&p-Xylene	50.0	45.5		ug/L		91	
o-Xylene	50.0	46.8		ug/L		94	
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/L		97	46 - 157
Tetrachloroethene	50.0	45.0		ug/L		90	64 - 148
Toluene	50.0	42.2		ug/L		84	47 - 150

TestAmerica Chicago

QC Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322715/4
Matrix: Water
Analysis Batch: 322715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	44.7		ug/L		89	54 - 156
1,1,1-Trichloroethane	50.0	43.2		ug/L		86	52 - 162
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	52 - 150
Trichloroethene	50.0	47.1		ug/L		94	71 - 157
Vinyl chloride	50.0	48.3		ug/L		97	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 125
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-107349-2 MS
Matrix: Water
Analysis Batch: 322715

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		50.0	49.0		ug/L		98	37 - 151
Bromoform	<0.45		50.0	49.1		ug/L		98	45 - 169
Carbon tetrachloride	<0.38		50.0	45.1		ug/L		90	70 - 140
Chloroform	<0.37		50.0	46.4		ug/L		93	51 - 138
cis-1,2-Dichloroethene	19		50.0	68.2		ug/L		99	70 - 130
Dichlorobromomethane	<0.37		50.0	48.9		ug/L		98	35 - 155
1,2-Dichloroethane	<0.39		50.0	48.7		ug/L		97	49 - 155
1,1-Dichloroethene	<0.39		50.0	49.2		ug/L		98	10 - 234
Ethylbenzene	<0.18		50.0	48.7		ug/L		97	37 - 162
Methyl bromide	<0.65		50.0	42.8		ug/L		86	10 - 242
Methyl chloride	<0.32		50.0	46.9		ug/L		94	10 - 273
m&p-Xylene	<0.40		50.0	48.4		ug/L		97	
o-Xylene	<0.22		50.0	49.7		ug/L		99	
1,1,1,2-Tetrachloroethane	<0.40		50.0	52.6		ug/L		105	46 - 157
Tetrachloroethene	43		50.0	89.6		ug/L		92	64 - 148
Toluene	<0.15		50.0	44.9		ug/L		90	47 - 150
trans-1,2-Dichloroethene	<0.35		50.0	47.5		ug/L		95	54 - 156
1,1,1-Trichloroethane	<0.38		50.0	45.8		ug/L		92	52 - 162
1,1,2-Trichloroethane	<0.35		50.0	53.5		ug/L		107	52 - 150
Trichloroethene	6.4		50.0	52.3		ug/L		92	71 - 157
Vinyl chloride	<0.20		50.0	46.5		ug/L		93	10 - 251

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
Toluene-d8 (Surr)	102		75 - 120

QC Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107349-2 MSD

Matrix: Water

Analysis Batch: 322715

Client Sample ID: Effluent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.15		50.0	49.0		ug/L		98	37 - 151	0	20
Bromoform	<0.45		50.0	49.4		ug/L		99	45 - 169	1	20
Carbon tetrachloride	<0.38		50.0	45.4		ug/L		91	70 - 140	1	20
Chloroform	<0.37		50.0	47.8		ug/L		96	51 - 138	3	20
cis-1,2-Dichloroethene	19		50.0	69.5		ug/L		101	70 - 130	2	20
Dichlorobromomethane	<0.37		50.0	48.6		ug/L		97	35 - 155	1	20
1,2-Dichloroethane	<0.39		50.0	48.7		ug/L		97	49 - 155	0	20
1,1-Dichloroethene	<0.39		50.0	48.0		ug/L		96	10 - 234	2	20
Ethylbenzene	<0.18		50.0	48.6		ug/L		97	37 - 162	0	20
Methyl bromide	<0.65		50.0	42.1		ug/L		84	10 - 242	2	20
Methyl chloride	<0.32		50.0	48.2		ug/L		96	10 - 273	3	20
m&p-Xylene	<0.40		50.0	47.5		ug/L		95		2	
o-Xylene	<0.22		50.0	49.1		ug/L		98		1	
1,1,2,2-Tetrachloroethane	<0.40		50.0	53.2		ug/L		106	46 - 157	1	20
Tetrachloroethene	43		50.0	91.5		ug/L		96	64 - 148	2	20
Toluene	<0.15		50.0	44.6		ug/L		89	47 - 150	1	20
trans-1,2-Dichloroethene	<0.35		50.0	46.9		ug/L		94	54 - 156	1	20
1,1,1-Trichloroethane	<0.38		50.0	46.8		ug/L		94	52 - 162	2	20
1,1,2-Trichloroethane	<0.35		50.0	52.9		ug/L		106	52 - 150	1	20
Trichloroethene	6.4		50.0	51.8		ug/L		91	71 - 157	1	20
Vinyl chloride	<0.20		50.0	48.2		ug/L		96	10 - 251	4	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 125
Toluene-d8 (Surr)	103		75 - 120

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 490-317461/1-A

Matrix: Water

Analysis Batch: 319026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 317461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		02/11/16 13:20	02/24/16 18:46	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		02/11/16 13:20	02/24/16 18:46	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		02/11/16 13:20	02/24/16 18:46	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1
Chrysene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		02/11/16 13:20	02/24/16 18:46	1
Fluoranthene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		02/11/16 13:20	02/24/16 18:46	1
Naphthalene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1
Phenanthrene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1
Pyrene	<0.050		0.10	0.050	ug/L		02/11/16 13:20	02/24/16 18:46	1

TestAmerica Chicago

QC Sample Results

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: MB 490-317461/1-A
Matrix: Water
Analysis Batch: 319026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317461

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	68		29 - 120	02/11/16 13:20	02/24/16 18:46	1
Nitrobenzene-d5	65		27 - 120	02/11/16 13:20	02/24/16 18:46	1
Phenol-d5	42		10 - 120	02/11/16 13:20	02/24/16 18:46	1
Terphenyl-d14	72		13 - 120	02/11/16 13:20	02/24/16 18:46	1
2,4,6-Tribromophenol	59		10 - 120	02/11/16 13:20	02/24/16 18:46	1
2-Fluorobiphenyl (Surr)	76		10 - 120	02/11/16 13:20	02/24/16 18:46	1

Lab Sample ID: LCS 490-317461/2-A
Matrix: Water
Analysis Batch: 319026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	0.800	0.640		ug/L		80	17 - 163
Benzo[b]fluoranthene	0.800	0.747		ug/L		93	24 - 159
Benzo[g,h,i]perylene	0.800	0.695		ug/L		87	10 - 219
Benzo[k]fluoranthene	0.800	0.706		ug/L		88	11 - 162
Chrysene	0.800	0.753		ug/L		94	17 - 168
Dibenz(a,h)anthracene	0.800	0.465		ug/L		58	10 - 227
Fluoranthene	0.800	0.730		ug/L		91	26 - 137
Indeno[1,2,3-cd]pyrene	0.800	0.471		ug/L		59	10 - 171
Naphthalene	0.800	0.653		ug/L		82	21 - 133
Phenanthrene	0.800	0.632		ug/L		79	54 - 120
Pyrene	0.800	0.691		ug/L		86	52 - 115

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	77		29 - 120
Nitrobenzene-d5	70		27 - 120
Phenol-d5	51		10 - 120
Terphenyl-d14	85		13 - 120
2,4,6-Tribromophenol	73		10 - 120
2-Fluorobiphenyl (Surr)	75		10 - 120

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-322279/1
Matrix: Water
Analysis Batch: 322279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB USB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			02/10/16 06:55	1

Lab Sample ID: LCS 500-322279/2
Matrix: Water
Analysis Batch: 322279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Chicago

Lab Chronicle

Client: Madison-Kipp Corporation
 Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Client Sample ID: Influent

Date Collected: 02/08/16 08:05

Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	322715	02/14/16 07:53	TCT	TAL CHI
Total/NA	Analysis	624	DL	50	322715	02/14/16 08:20	TCT	TAL CHI
Total/NA	Prep	625			317461	02/11/16 13:20	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	319026	02/24/16 19:36	WDS	TAL NSH
Total/NA	Analysis	SM 5210B		1	322279	(Start) 02/10/16 06:57 (End) 02/10/16 06:59	MAN	TAL CHI

Client Sample ID: Effluent

Date Collected: 02/08/16 08:10

Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	322715	02/14/16 07:27	TCT	TAL CHI
Total/NA	Prep	625			317461	02/11/16 13:20	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	319026	02/24/16 20:00	WDS	TAL NSH
Total/NA	Analysis	SM 5210B		1	322279	(Start) 02/10/16 06:59 (End) 02/10/16 07:01	MAN	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 02/08/16 00:00

Date Received: 02/09/16 09:10

Lab Sample ID: 500-107349-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	322715	02/14/16 02:06	TCT	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp GETS/SVE Sampling

TestAmerica Job ID: 500-107349-2

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998020430	08-31-16

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica

THE LEADER IN ENVIRONMENTAL TI

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5



500-107349 COC

Report To (optional)
Contact: Alina Satkoski
Company: mkc
Address: 201 Waubesa St.
Madison WI
Phone: 608-242-5200
Fax:
E-Mail: ASATKOSKI@madison-kipp.com

Bill To (optional)
Contact: Accounts Payable
Company: mkc
Address: 201 Waubesa St.
Madison, WI 53704
Phone:
Fax:
PO#/Reference# 106371

Chain of Custody Record

Lab Job #: 500-107349
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
mkc				1	7	7	2				
Project Name		Lab Project #		Date		Time		# of Containers	Matrix	Preservative Key	
GETS/SVE Sampling				2/8/16		805		9	W		
Project Location/State		Lab Project #		Date		Time		# of Containers	Matrix	Preservative Key	
Madison, WI				2/8/16		810		9	W		
Sampler		Lab PM		Date		Time		# of Containers	Matrix	Preservative Key	
Alina Satkoski								1	W		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	PAH	BOD/SS/Chloride	Oil + Grease	Preservative Key
1		Influent	2/8/16	805	9	W	X	X	X	X	
2		Effluent	2/8/16	810	9	W	X	X	X	X	
3		Trip Blank			1	W	X				

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Alina Satkoski</u>	Company <u>mkc</u>	Date <u>2/8/16</u>	Time <u>1600</u>	Received By <u>Theresa Scott</u>	Company <u>TH-CART</u>	Date <u>2/9/16</u>	Time <u>0910</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FedEx
Hand Delivered

Matrix Key

WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments

Lab Comments:

Parameter	Method
VOCs	
Bromoform	624
Carbon Tetrachloride	624
Dichlorobromomethane	624
1,2-Dichloroethane	624
1,1-Dichloroethylene	624
Methyl Bromide	624
Methyl Chloride	624
1,1,1,2-Tetrachloroethane	624
Tetrachloroethylene	624
1,1,2-Trichloroethane	624
1,1,1-Trichloroethane	624
Trichloroethylene	624
Vinyl Chloride	624
Cis-1,2-Dichloroethene	624
Trans-1,2-Dichloroethene	624
TSS	
Suspended Solids, Total	2540D
BTEX	
Benzene	624
Toluene	
Ethylbenzene	
Xylenes	

PAHs (Group of 10)

Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	

PAHs

Benzo(a)pyrene	625 SIM
Naphthalene	

Oil and Grease

Oil and Grease	1664
----------------	------

BOD₅

BOD ₅	5210B
------------------	-------

Anions

Chloride	300
----------	-----

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-107349-2

Login Number: 107349

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-107349-2

Login Number: 107349

List Number: 2

Creator: Armstrong, Daniel

List Source: TestAmerica Nashville

List Creation: 02/11/16 08:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

