



May 11, 2017

Emily James  
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 Ms. James,

The Groundwater Extraction and Treatment System (GETS) ran for the month of April with the exception of maintenance activities. This letter summarizes the activities completed in April 2017 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 April 6, 2017 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.

If you have any questions or need additional information, please contact me at [asatkoski@madison-kipp.com](mailto:asatkoski@madison-kipp.com) or (608) 242-5200.

Alina Satkoski

A handwritten signature in blue ink that reads "Alina Satkoski".

Madison Kipp Corporation

Attachment A Discharge Monitoring Report Form

Attachment B Laboratory Reports

Copies:

Andrew Stehn - TRC (electronic)

Mike Schmoller - WDNR (electronic)

Wendy Weihemuller - WDNR (electronic)

George Parrino - Madison Department of Health (electronic)



FOOTNOTES:

- (1) Total BTEX 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/TRC will conduct visual monitoring for this compound.
- (4) No effluent limit is established, refer to section 4 of the permit.
- (5) Compound was found in the blank and in the sample.
- (6) Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.
- (7) Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.

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 Jett*

5-11-2017

Signature of Person Completing Form

Date

*Alina Jett*

5-11-2017

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: 500-126216-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

4/11/2017 4:59:03 PM

Sandie Fredrick, Project Manager II

(920)261-1660

[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?



Visit us at:

[www.testamericainc.com](http://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.*

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# Case Narrative

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

TestAmerica Job ID: 500-126216-1

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**Job ID: 500-126216-1**

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**Laboratory: TestAmerica Chicago**

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## Narrative

**Job Narrative**  
**500-126216-1**

### Comments

No additional comments.

### Receipt

The samples were received on 4/7/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

### GC/MS VOA

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

### General Chemistry

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

TestAmerica Job ID: 500-126216-1

## Client Sample ID: Influent

Lab Sample ID: 500-126216-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.5		2.5	0.82	ug/L	5		624	Total/NA
Tetrachloroethene - DL	1600		50	19	ug/L	50		624	Total/NA
Chloride	130		4.0	3.4	mg/L	20		300.0	Total/NA
Total Suspended Solids	20		5.0	1.9	mg/L	1		SM 2540D	Total/NA

## Client Sample ID: Effluent

Lab Sample ID: 500-126216-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	26		1.0	0.37	ug/L	1		624	Total/NA
Toluene	0.18	J	0.50	0.15	ug/L	1		624	Total/NA
Trichloroethene	7.5		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	3.4	J B	5.3	1.4	mg/L	1		1664B	Total/NA
Chloride	130		4.0	3.4	mg/L	20		300.0	Total/NA
Total Suspended Solids	3.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA

## Client Sample ID: Trip Blank

Lab Sample ID: 500-126216-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Method Summary

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

TestAmerica Job ID: 500-126216-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
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

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

TestAmerica Job ID: 500-126216-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-126216-1	Influent	Water	04/06/17 07:10	04/07/17 09:30
500-126216-2	Effluent	Water	04/06/17 07:30	04/07/17 09:30
500-126216-3	Trip Blank	Water	04/06/17 00:00	04/07/17 09:30

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# Client Sample Results

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

TestAmerica Job ID: 500-126216-1

## Client Sample ID: Influent

Date Collected: 04/06/17 07:10

Date Received: 04/07/17 09:30

## Lab Sample ID: 500-126216-1

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			04/11/17 02:05	5
Bromoform	<2.2		5.0	2.2	ug/L			04/11/17 02:05	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			04/11/17 02:05	5
Chloroform	<1.9		10	1.9	ug/L			04/11/17 02:05	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			04/11/17 02:05	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			04/11/17 02:05	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			04/11/17 02:05	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			04/11/17 02:05	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			04/11/17 02:05	5
Methyl bromide	<3.2		10	3.2	ug/L			04/11/17 02:05	5
Methyl chloride	<1.6		5.0	1.6	ug/L			04/11/17 02:05	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			04/11/17 02:05	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			04/11/17 02:05	5
Toluene	<0.76		2.5	0.76	ug/L			04/11/17 02:05	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			04/11/17 02:05	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			04/11/17 02:05	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			04/11/17 02:05	5
<b>Trichloroethene</b>	<b>2.5</b>		2.5	0.82	ug/L			04/11/17 02:05	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			04/11/17 02:05	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			04/11/17 02:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		71 - 120		04/11/17 02:05	5
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		04/11/17 02:05	5
Toluene-d8 (Surr)	96		75 - 120		04/11/17 02:05	5
Dibromofluoromethane	95		70 - 120		04/11/17 02:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>1600</b>		50	19	ug/L			04/11/17 02:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120		04/11/17 02:30	50
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		04/11/17 02:30	50
Toluene-d8 (Surr)	95		75 - 120		04/11/17 02:30	50
Dibromofluoromethane	95		70 - 120		04/11/17 02:30	50

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.5		5.8	1.5	mg/L		04/07/17 16:18	04/07/17 19:24	1
<b>Chloride</b>	<b>130</b>		4.0	3.4	mg/L			04/10/17 14:42	20
<b>Total Suspended Solids</b>	<b>20</b>		5.0	1.9	mg/L			04/07/17 14:14	1

# Client Sample Results

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

TestAmerica Job ID: 500-126216-1

**Client Sample ID: Effluent**

**Date Collected: 04/06/17 07:30**

**Date Received: 04/07/17 09:30**

**Lab Sample ID: 500-126216-2**

**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			04/11/17 01:39	1
Bromoform	<0.45		1.0	0.45	ug/L			04/11/17 01:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/11/17 01:39	1
Chloroform	<0.37		2.0	0.37	ug/L			04/11/17 01:39	1
<b>cis-1,2-Dichloroethene</b>	<b>18</b>		1.0	0.41	ug/L			04/11/17 01:39	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/11/17 01:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/11/17 01:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/11/17 01:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/11/17 01:39	1
Methyl bromide	<0.65		2.0	0.65	ug/L			04/11/17 01:39	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/11/17 01:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/11/17 01:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/11/17 01:39	1
<b>Tetrachloroethene</b>	<b>26</b>		1.0	0.37	ug/L			04/11/17 01:39	1
<b>Toluene</b>	<b>0.18 J</b>		0.50	0.15	ug/L			04/11/17 01:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/11/17 01:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/11/17 01:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/11/17 01:39	1
<b>Trichloroethene</b>	<b>7.5</b>		0.50	0.16	ug/L			04/11/17 01:39	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			04/11/17 01:39	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/11/17 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		71 - 120		04/11/17 01:39	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		04/11/17 01:39	1
Toluene-d8 (Surr)	96		75 - 120		04/11/17 01:39	1
Dibromofluoromethane	95		70 - 120		04/11/17 01:39	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>HEM (Oil &amp; Grease)</b>	<b>3.4 J B</b>		5.3	1.4	mg/L		04/08/17 10:57	04/08/17 13:55	1
<b>Chloride</b>	<b>130</b>		4.0	3.4	mg/L			04/10/17 14:54	20
<b>Total Suspended Solids</b>	<b>3.0 J</b>		5.0	1.9	mg/L			04/07/17 14:15	1

# Client Sample Results

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

TestAmerica Job ID: 500-126216-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-126216-3**

**Date Collected: 04/06/17 00:00**

**Matrix: Water**

**Date Received: 04/07/17 09:30**

**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			04/11/17 01:14	1
Bromoform	<0.45		1.0	0.45	ug/L			04/11/17 01:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/11/17 01:14	1
Chloroform	<0.37		2.0	0.37	ug/L			04/11/17 01:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/11/17 01:14	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/11/17 01:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/11/17 01:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/11/17 01:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/11/17 01:14	1
Methyl bromide	<0.65		2.0	0.65	ug/L			04/11/17 01:14	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/11/17 01:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/11/17 01:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/11/17 01:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/11/17 01:14	1
Toluene	<0.15		0.50	0.15	ug/L			04/11/17 01:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/11/17 01:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/11/17 01:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/11/17 01:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/11/17 01:14	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			04/11/17 01:14	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/11/17 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		71 - 120		04/11/17 01:14	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 127		04/11/17 01:14	1
Toluene-d8 (Surr)	97		75 - 120		04/11/17 01:14	1
Dibromofluoromethane	94		70 - 120		04/11/17 01:14	1

# Definitions/Glossary

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

TestAmerica Job ID: 500-126216-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

## 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

TestAmerica Job ID: 500-126216-1

## GC/MS VOA

### Analysis Batch: 379577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	624	
500-126216-1 - DL	Influent	Total/NA	Water	624	
500-126216-2	Effluent	Total/NA	Water	624	
500-126216-3	Trip Blank	Total/NA	Water	624	
MB 500-379577/30	Method Blank	Total/NA	Water	624	
LCS 500-379577/28	Lab Control Sample	Total/NA	Water	624	
500-126216-2 MS	Effluent	Total/NA	Water	624	
500-126216-2 MSD	Effluent	Total/NA	Water	624	

## General Chemistry

### Prep Batch: 379359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	1664B	
MB 500-379359/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-379359/2-A	Lab Control Sample	Total/NA	Water	1664B	

### Analysis Batch: 379360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	1664B	379359
MB 500-379359/1-A	Method Blank	Total/NA	Water	1664B	379359
LCS 500-379359/2-A	Lab Control Sample	Total/NA	Water	1664B	379359

### Analysis Batch: 379376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	SM 2540D	
500-126216-2	Effluent	Total/NA	Water	SM 2540D	
MB 500-379376/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-379376/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-126216-2 MS	Effluent	Total/NA	Water	SM 2540D	
500-126216-2 DU	Effluent	Total/NA	Water	SM 2540D	

### Prep Batch: 379459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-2	Effluent	Total/NA	Water	1664B	
MB 500-379459/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-379459/2-A	Lab Control Sample	Total/NA	Water	1664B	
500-126216-2 MS	Effluent	Total/NA	Water	1664B	

### Analysis Batch: 379462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-2	Effluent	Total/NA	Water	1664B	379459
MB 500-379459/1-A	Method Blank	Total/NA	Water	1664B	379459
LCS 500-379459/2-A	Lab Control Sample	Total/NA	Water	1664B	379459
500-126216-2 MS	Effluent	Total/NA	Water	1664B	379459

### Analysis Batch: 379822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	300.0	
500-126216-2	Effluent	Total/NA	Water	300.0	

TestAmerica Chicago

# QC Association Summary

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

TestAmerica Job ID: 500-126216-1

## General Chemistry (Continued)

### Analysis Batch: 379822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-379822/23	Method Blank	Total/NA	Water	300.0	
LCS 500-379822/29	Lab Control Sample	Total/NA	Water	300.0	

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# Surrogate Summary

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

TestAmerica Job ID: 500-126216-1

## 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	DBFM
		(71-120)	(71-127)	(75-120)	(70-120)
500-126216-1	Influent	93	100	96	95
500-126216-1 - DL	Influent	94	100	95	95
500-126216-2	Effluent	95	100	96	95
500-126216-2 MS	Effluent	90	98	95	98
500-126216-2 MSD	Effluent	88	100	98	98
500-126216-3	Trip Blank	95	98	97	94
LCS 500-379577/28	Lab Control Sample	90	97	96	98
MB 500-379577/30	Method Blank	94	100	94	96

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane



# QC Sample Results

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

TestAmerica Job ID: 500-126216-1

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

**Lab Sample ID: MB 500-379577/30**

**Matrix: Water**

**Analysis Batch: 379577**

**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			04/11/17 00:49	1
Bromoform	<0.45		1.0	0.45	ug/L			04/11/17 00:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/11/17 00:49	1
Chloroform	<0.37		2.0	0.37	ug/L			04/11/17 00:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/11/17 00:49	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/11/17 00:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/11/17 00:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/11/17 00:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/11/17 00:49	1
Methyl bromide	<0.65		2.0	0.65	ug/L			04/11/17 00:49	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/11/17 00:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/11/17 00:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/11/17 00:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/11/17 00:49	1
Toluene	<0.15		0.50	0.15	ug/L			04/11/17 00:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/11/17 00:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/11/17 00:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/11/17 00:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/11/17 00:49	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			04/11/17 00:49	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/11/17 00:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		71 - 120		04/11/17 00:49	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		04/11/17 00:49	1
Toluene-d8 (Surr)	94		75 - 120		04/11/17 00:49	1
Dibromofluoromethane	96		70 - 120		04/11/17 00:49	1

**Lab Sample ID: LCS 500-379577/28**

**Matrix: Water**

**Analysis Batch: 379577**

**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	42.7		ug/L		85	37 - 151
Bromoform	50.0	39.6		ug/L		79	45 - 169
Carbon tetrachloride	50.0	37.4		ug/L		75	70 - 140
Chloroform	50.0	40.4		ug/L		81	51 - 138
cis-1,2-Dichloroethene	50.0	41.6		ug/L		83	70 - 130
Dichlorobromomethane	50.0	37.3		ug/L		75	35 - 155
1,2-Dichloroethane	50.0	46.9		ug/L		94	49 - 155
1,1-Dichloroethene	50.0	40.1		ug/L		80	10 - 234
Ethylbenzene	50.0	42.6		ug/L		85	37 - 162
Methyl bromide	50.0	32.9		ug/L		66	10 - 242
Methyl chloride	50.0	64.1		ug/L		128	10 - 273
m&p-Xylene	50.0	40.7		ug/L		81	
o-Xylene	50.0	42.0		ug/L		84	
1,1,2,2-Tetrachloroethane	50.0	40.1		ug/L		80	46 - 157
Tetrachloroethene	50.0	43.0		ug/L		86	64 - 148

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-126216-1

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

**Lab Sample ID: LCS 500-379577/28**

**Matrix: Water**

**Analysis Batch: 379577**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	44.1		ug/L		88	47 - 150
trans-1,2-Dichloroethene	50.0	40.3		ug/L		81	54 - 156
1,1,1-Trichloroethane	50.0	37.1		ug/L		74	52 - 162
1,1,2-Trichloroethane	50.0	44.7		ug/L		89	52 - 150
Trichloroethene	50.0	45.7		ug/L		91	71 - 157
Vinyl chloride	50.0	60.9		ug/L		122	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		71 - 120
1,2-Dichloroethane-d4 (Surr)	97		71 - 127
Toluene-d8 (Surr)	96		75 - 120
Dibromofluoromethane	98		70 - 120

**Lab Sample ID: 500-126216-2 MS**

**Matrix: Water**

**Analysis Batch: 379577**

**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	44.4		ug/L		89	37 - 151
Bromoform	<0.45		50.0	42.9		ug/L		86	45 - 169
Carbon tetrachloride	<0.38		50.0	39.4		ug/L		79	70 - 140
Chloroform	<0.37		50.0	41.8		ug/L		84	51 - 138
cis-1,2-Dichloroethene	18		50.0	59.8		ug/L		84	70 - 130
Dichlorobromomethane	<0.37		50.0	38.7		ug/L		77	35 - 155
1,2-Dichloroethane	<0.39		50.0	47.8		ug/L		96	49 - 155
1,1-Dichloroethene	<0.39		50.0	42.5		ug/L		85	10 - 234
Ethylbenzene	<0.18		50.0	44.5		ug/L		89	37 - 162
Methyl bromide	<0.65		50.0	37.5		ug/L		75	10 - 242
Methyl chloride	<0.32		50.0	69.2		ug/L		138	10 - 273
m&p-Xylene	<0.40		50.0	41.9		ug/L		84	
o-Xylene	<0.22		50.0	43.4		ug/L		87	
1,1,1,2-Tetrachloroethane	<0.40		50.0	42.2		ug/L		84	46 - 157
Tetrachloroethene	26		50.0	68.2		ug/L		84	64 - 148
Toluene	0.18	J	50.0	44.8		ug/L		89	47 - 150
trans-1,2-Dichloroethene	<0.35		50.0	43.0		ug/L		86	54 - 156
1,1,1-Trichloroethane	<0.38		50.0	39.8		ug/L		80	52 - 162
1,1,2-Trichloroethane	<0.35		50.0	45.9		ug/L		92	52 - 150
Trichloroethene	7.5		50.0	54.3		ug/L		93	71 - 157
Vinyl chloride	<0.20		50.0	68.9		ug/L		138	10 - 251

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		71 - 120
1,2-Dichloroethane-d4 (Surr)	98		71 - 127
Toluene-d8 (Surr)	95		75 - 120
Dibromofluoromethane	98		70 - 120

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-126216-1

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

**Lab Sample ID: 500-126216-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 379577**

**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	42.3		ug/L		85	37 - 151	5	20
Bromoform	<0.45		50.0	40.7		ug/L		81	45 - 169	5	20
Carbon tetrachloride	<0.38		50.0	37.0		ug/L		74	70 - 140	6	20
Chloroform	<0.37		50.0	40.2		ug/L		80	51 - 138	4	20
cis-1,2-Dichloroethene	18		50.0	59.2		ug/L		83	70 - 130	1	20
Dichlorobromomethane	<0.37		50.0	37.7		ug/L		75	35 - 155	3	20
1,2-Dichloroethane	<0.39		50.0	46.4		ug/L		93	49 - 155	3	20
1,1-Dichloroethene	<0.39		50.0	40.2		ug/L		80	10 - 234	5	20
Ethylbenzene	<0.18		50.0	43.3		ug/L		87	37 - 162	3	20
Methyl bromide	<0.65		50.0	33.6		ug/L		67	10 - 242	11	20
Methyl chloride	<0.32		50.0	66.5		ug/L		133	10 - 273	4	20
m&p-Xylene	<0.40		50.0	40.8		ug/L		82		3	
o-Xylene	<0.22		50.0	42.0		ug/L		84		3	
1,1,2,2-Tetrachloroethane	<0.40		50.0	40.7		ug/L		81	46 - 157	4	20
Tetrachloroethene	26		50.0	68.9		ug/L		85	64 - 148	1	20
Toluene	0.18	J	50.0	44.5		ug/L		89	47 - 150	1	20
trans-1,2-Dichloroethene	<0.35		50.0	40.7		ug/L		81	54 - 156	6	20
1,1,1-Trichloroethane	<0.38		50.0	37.4		ug/L		75	52 - 162	6	20
1,1,2-Trichloroethane	<0.35		50.0	43.9		ug/L		88	52 - 150	4	20
Trichloroethene	7.5		50.0	51.8		ug/L		89	71 - 157	5	20
Vinyl chloride	<0.20		50.0	65.1		ug/L		130	10 - 251	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		71 - 120
1,2-Dichloroethane-d4 (Surr)	100		71 - 127
Toluene-d8 (Surr)	98		75 - 120
Dibromofluoromethane	98		70 - 120

## Method: 1664B - HEM and SGT-HEM

**Lab Sample ID: MB 500-379359/1-A**  
**Matrix: Water**  
**Analysis Batch: 379360**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 379359**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.90	J	5.0	1.3	mg/L		04/07/17 14:20	04/07/17 17:25	1

**Lab Sample ID: LCS 500-379359/2-A**  
**Matrix: Water**  
**Analysis Batch: 379360**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 379359**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
HEM (Oil & Grease)	40.0	36.00		mg/L		90	78 - 114

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-126216-1

## Method: 1664B - HEM and SGT-HEM (Continued)

**Lab Sample ID: MB 500-379459/1-A**  
**Matrix: Water**  
**Analysis Batch: 379462**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 379459**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.90	J	5.0	1.3	mg/L		04/08/17 10:47	04/08/17 13:50	1

**Lab Sample ID: LCS 500-379459/2-A**  
**Matrix: Water**  
**Analysis Batch: 379462**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 379459**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	31.10		mg/L		78	78 - 114

**Lab Sample ID: 500-126216-2 MS**  
**Matrix: Water**  
**Analysis Batch: 379462**

**Client Sample ID: Effluent**  
**Prep Type: Total/NA**  
**Prep Batch: 379459**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	3.4	J B	44.1	37.71		mg/L		78	78 - 114

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-379822/23**  
**Matrix: Water**  
**Analysis Batch: 379822**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.17		0.20	0.17	mg/L			04/10/17 13:38	1

**Lab Sample ID: LCS 500-379822/29**  
**Matrix: Water**  
**Analysis Batch: 379822**

**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	2.98		mg/L		99	90 - 110

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

**Lab Sample ID: MB 500-379376/1**  
**Matrix: Water**  
**Analysis Batch: 379376**

**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	<1.9		5.0	1.9	mg/L			04/07/17 14:00	1

**Lab Sample ID: LCS 500-379376/2**  
**Matrix: Water**  
**Analysis Batch: 379376**

**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	187		mg/L		94	80 - 120

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-126216-1

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

Lab Sample ID: 500-126216-2 MS  
 Matrix: Water  
 Analysis Batch: 379376

Client Sample ID: Effluent  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	3.0	J	100	88.0		mg/L		85	75 - 125

Lab Sample ID: 500-126216-2 DU  
 Matrix: Water  
 Analysis Batch: 379376

Client Sample ID: Effluent  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	3.0	J	2.00	J F5	mg/L		40	5

# Lab Chronicle

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

TestAmerica Job ID: 500-126216-1

## Client Sample ID: Influent

Date Collected: 04/06/17 07:10

Date Received: 04/07/17 09:30

## Lab Sample ID: 500-126216-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	379577	04/11/17 02:05	JMP	TAL CHI
Total/NA	Analysis	624	DL	50	379577	04/11/17 02:30	JMP	TAL CHI
Total/NA	Prep	1664B			379359	04/07/17 16:18	ADK	TAL CHI
Total/NA	Analysis	1664B		1	379360	04/07/17 19:24	ADK	TAL CHI
Total/NA	Analysis	300.0		20	379822	04/10/17 14:42	PMF	TAL CHI
Total/NA	Analysis	SM 2540D		1	379376		SMO	TAL CHI
						(Start) 04/07/17 14:14		
						(End) 04/07/17 14:15		

## Client Sample ID: Effluent

Date Collected: 04/06/17 07:30

Date Received: 04/07/17 09:30

## Lab Sample ID: 500-126216-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	379577	04/11/17 01:39	JMP	TAL CHI
Total/NA	Prep	1664B			379459	04/08/17 10:57	ADK	TAL CHI
Total/NA	Analysis	1664B		1	379462	04/08/17 13:55	ADK	TAL CHI
Total/NA	Analysis	300.0		20	379822	04/10/17 14:54	PMF	TAL CHI
Total/NA	Analysis	SM 2540D		1	379376		SMO	TAL CHI
						(Start) 04/07/17 14:15		
						(End) 04/07/17 14:16		

## Client Sample ID: Trip Blank

Date Collected: 04/06/17 00:00

Date Received: 04/07/17 09:30

## Lab Sample ID: 500-126216-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	379577	04/11/17 01:14	JMP	TAL CHI

### Laboratory References:

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

# Accreditation/Certification Summary

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

TestAmerica Job ID: 500-126216-1

## Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

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# TestAmerica


THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Contact: <u>Alina Satkoski</u> Company: <u>MKC</u> Address: _____ Address: _____ Phone: _____ Fax: _____ E-Mail: _____	Bill To (optional) Contact: <u>Accounts Payable</u> Company: <u>MKC</u> Address: _____ Address: _____ Phone: _____ Fax: _____ PO#/Reference#: <u>106985</u>
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## Chain of Custody Record

Lab Job #: 500-126216  
 Chain-of-Custody-Number: \_\_\_\_\_  
 Page 1 of 1  
 Temperature °C of Cooler: 5.475-6

Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Preservative				Comments	
			Date	Time			1	8	8	2		
1		Influent	4/6/17	710	9	W	X	X	X	X		Preservative Key Cool to 4°  500-126216 COC  For VOCs + PAH see attached analyte list
2		Effluent	4/6/17	130	9	W	X	X	X	X		
3		Trip Blank										

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day  2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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>4/6/17</u> Time: <u>1200</u>	Received By <u>Alina Satkoski</u> Company: <u>TestAmerica</u> Date: <u>04/07/17</u> Time: <u>0930</u>	Lab Courier
Relinquished By	Received By	Shipped <u>FX</u>
Relinquished By	Received By	Hand Delivered

<b>Matrix Key</b> 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
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TAL-4124-500 (1209)



500-126216

Parameter	Method
<b>VOCs</b>	
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
<b>TSS</b>	
Suspended Solids, Total	2540D
<b>BTEX</b>	
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
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**BOD<sub>5</sub>**

BOD <sub>5</sub>	5210B
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**Anions**

Chloride	300
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ORIGIN ID: JOTA (708) 534-5200  
 ALINA SATKOSKI  
 MADISON-KIPP CORPORATION  
 201 WAUBESA STREET

SHIP DATE: 22MAR17  
 ACTWGT: 50.00 LB MAN  
 CAD: 33264/CAFE3011

MADISON, WI 53704  
 UNITED STATES US

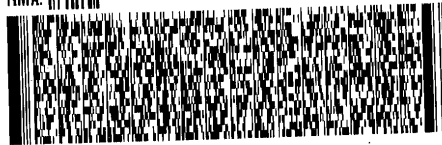
TO **SAMPLE LOGIN**  
**TESTAMERICA LABS**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60466**

(708) 534-5200  
 DEPT: PM

REF: 9500-50847DM

AMA: ||| ||| |||



5403/100/727  
 1161216101001W



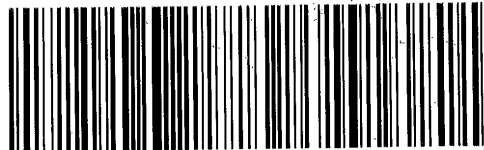
500-126216 Waybill

**FedEx**  
 TRK# 6514 8432 6606  
 0221

**FRI - 07 APR 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

**60466**  
 IL-US **ORD**



#2633987 04/06 546J2/CFD6/53C1

# Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-126216-1

**Login Number: 126216**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Sanchez, Ariel M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	
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.	False	Received Trip Blank(s) not listed on COC.
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 <6mm (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: 500-126216-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

4/12/2017 3:57:17 PM

Eric Lang, Manager of Project Management

(708)534-5200

[eric.lang@testamericainc.com](mailto:eric.lang@testamericainc.com)

Designee for

Sandie Fredrick, Project Manager II

(920)261-1660

[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



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[www.testamericainc.com](http://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.*

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# Case Narrative

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

TestAmerica Job ID: 500-126216-2

**Job ID: 500-126216-2**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-126216-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/7/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

#### GC/MS Semi VOA

Method(s) 625 SIM: The laboratory control sample (LCS) for preparation batch 490-420911 and analytical batch 490-421020 recovered outside control limits for the following analytes: Benzo[a]anthracene and Chrysene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 625 SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 490-420911 recovered outside control limits for the following analytes: Benzo[a]anthracene and Chrysene.

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-420911 and analytical batch 490-421020.

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

#### General Chemistry

Method(s) SM 5210B: The BOD unseeded control blank (USB) was found outside on control limit of <0.2mg/L. However, the laboratory control standard (LCS) was in control; therefore, the data was reported.

(USB 500-379338/1)

No additional analytical or quality issues were noted, other than those described above or 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

TestAmerica Job ID: 500-126216-2

## Client Sample ID: Influent

Lab Sample ID: 500-126216-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.12		0.096	0.048	ug/L	1		625 SIM	Total/NA

## Client Sample ID: Effluent

Lab Sample ID: 500-126216-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago





# Method Summary

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

TestAmerica Job ID: 500-126216-2

Method	Method Description	Protocol	Laboratory
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

TestAmerica Job ID: 500-126216-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-126216-1	Influent	Water	04/06/17 07:10	04/07/17 09:30
500-126216-2	Effluent	Water	04/06/17 07:30	04/07/17 09:30

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# Client Sample Results

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

TestAmerica Job ID: 500-126216-2

**Client Sample ID: Influent**

**Date Collected: 04/06/17 07:10**

**Date Received: 04/07/17 09:30**

**Lab Sample ID: 500-126216-1**

**Matrix: Water**

**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		04/09/17 15:44	04/10/17 18:06	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		04/09/17 15:44	04/10/17 18:06	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		04/09/17 15:44	04/10/17 18:06	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1
Chrysene	<0.048	*	0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		04/09/17 15:44	04/10/17 18:06	1
Fluoranthene	<0.048		0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		04/09/17 15:44	04/10/17 18:06	1
<b>Naphthalene</b>	<b>0.12</b>		0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1
Phenanthrene	<0.048		0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1
Pyrene	<0.048		0.096	0.048	ug/L		04/09/17 15:44	04/10/17 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	37		27 - 120	04/09/17 15:44	04/10/17 18:06	1
Terphenyl-d14	65		13 - 120	04/09/17 15:44	04/10/17 18:06	1
2-Fluorobiphenyl (Surr)	44		10 - 120	04/09/17 15:44	04/10/17 18:06	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			04/07/17 19:12	1

# Client Sample Results

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

TestAmerica Job ID: 500-126216-2

**Client Sample ID: Effluent**

**Date Collected: 04/06/17 07:30**

**Date Received: 04/07/17 09:30**

**Lab Sample ID: 500-126216-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025	*	0.050	0.025	ug/L		04/09/17 15:44	04/10/17 18:28	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 18:28	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 18:28	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1
Chrysene	<0.050	*	0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 18:28	1
Fluoranthene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 18:28	1
Naphthalene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1
Phenanthrene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1
Pyrene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	54		27 - 120	04/09/17 15:44	04/10/17 18:28	1
Terphenyl-d14	87		13 - 120	04/09/17 15:44	04/10/17 18:28	1
2-Fluorobiphenyl (Surr)	70		10 - 120	04/09/17 15:44	04/10/17 18:28	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			04/07/17 16:18	1

# Definitions/Glossary

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

TestAmerica Job ID: 500-126216-2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control 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

TestAmerica Job ID: 500-126216-2

## GC/MS Semi VOA

### Prep Batch: 420911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	625	
500-126216-2	Effluent	Total/NA	Water	625	
MB 490-420911/1-A	Method Blank	Total/NA	Water	625	
LCS 490-420911/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-420911/3-A	Lab Control Sample Dup	Total/NA	Water	625	

### Analysis Batch: 421020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	625 SIM	420911
500-126216-2	Effluent	Total/NA	Water	625 SIM	420911
MB 490-420911/1-A	Method Blank	Total/NA	Water	625 SIM	420911
LCS 490-420911/2-A	Lab Control Sample	Total/NA	Water	625 SIM	420911
LCSD 490-420911/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	420911

## General Chemistry

### Analysis Batch: 379338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-126216-1	Influent	Total/NA	Water	SM 5210B	
500-126216-2	Effluent	Total/NA	Water	SM 5210B	
USB 500-379338/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-379338/2	Lab Control Sample	Total/NA	Water	SM 5210B	

# Surrogate Summary

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

TestAmerica Job ID: 500-126216-2

## 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	NBZ	TPH	FBP
		(27-120)	(13-120)	(10-120)
500-126216-1	Influent	37	65	44
500-126216-2	Effluent	54	87	70
LCS 490-420911/2-A	Lab Control Sample	51	76	61
LCSD 490-420911/3-A	Lab Control Sample Dup	44	67	52
MB 490-420911/1-A	Method Blank	51	76	53

#### Surrogate Legend

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

FBP = 2-Fluorobiphenyl (Surr)

# QC Sample Results

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

TestAmerica Job ID: 500-126216-2

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

**Lab Sample ID: MB 490-420911/1-A**  
**Matrix: Water**  
**Analysis Batch: 421020**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 420911**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 16:59	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 16:59	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 16:59	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1
Chrysene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 16:59	1
Fluoranthene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		04/09/17 15:44	04/10/17 16:59	1
Naphthalene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1
Phenanthrene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1
Pyrene	<0.050		0.10	0.050	ug/L		04/09/17 15:44	04/10/17 16:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		27 - 120	04/09/17 15:44	04/10/17 16:59	1
Terphenyl-d14	76		13 - 120	04/09/17 15:44	04/10/17 16:59	1
2-Fluorobiphenyl (Surr)	53		10 - 120	04/09/17 15:44	04/10/17 16:59	1

**Lab Sample ID: LCS 490-420911/2-A**  
**Matrix: Water**  
**Analysis Batch: 421020**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 420911**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	4.00	7.41	*	ug/L		185	33 - 143
Benzo[a]pyrene	4.00	2.74		ug/L		68	17 - 163
Benzo[b]fluoranthene	4.00	3.27		ug/L		82	24 - 159
Benzo[g,h,i]perylene	4.00	3.01		ug/L		75	10 - 219
Benzo[k]fluoranthene	4.00	2.82		ug/L		70	11 - 162
Chrysene	4.00	10.4	*	ug/L		260	17 - 168
Dibenz(a,h)anthracene	4.00	2.77		ug/L		69	10 - 227
Fluoranthene	4.00	2.53		ug/L		63	26 - 137
Indeno[1,2,3-cd]pyrene	4.00	2.67		ug/L		67	10 - 171
Naphthalene	4.00	2.59		ug/L		65	21 - 133
Phenanthrene	4.00	2.83		ug/L		71	54 - 120
Pyrene	4.00	3.59		ug/L		90	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	51		27 - 120
Terphenyl-d14	76		13 - 120
2-Fluorobiphenyl (Surr)	61		10 - 120

**Lab Sample ID: LCSD 490-420911/3-A**  
**Matrix: Water**  
**Analysis Batch: 421020**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 420911**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzo[a]anthracene	4.00	2.45	*	ug/L		61	33 - 143	100	30

TestAmerica Chicago



# QC Sample Results

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

TestAmerica Job ID: 500-126216-2

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

**Lab Sample ID: LCSD 490-420911/3-A**  
**Matrix: Water**  
**Analysis Batch: 421020**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 420911**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	4.00	2.14		ug/L		54	17 - 163	24	30
Benzo[b]fluoranthene	4.00	2.55		ug/L		64	24 - 159	25	30
Benzo[g,h,i]perylene	4.00	2.43		ug/L		61	10 - 219	21	30
Benzo[k]fluoranthene	4.00	2.23		ug/L		56	11 - 162	23	30
Chrysene	4.00	2.33	*	ug/L		58	17 - 168	127	30
Dibenz(a,h)anthracene	4.00	2.26		ug/L		57	10 - 227	20	30
Fluoranthene	4.00	2.08		ug/L		52	26 - 137	19	30
Indeno[1,2,3-cd]pyrene	4.00	2.22		ug/L		56	10 - 171	18	30
Naphthalene	4.00	2.12		ug/L		53	21 - 133	20	30
Phenanthrene	4.00	2.37		ug/L		59	54 - 120	18	30
Pyrene	4.00	3.11		ug/L		78	52 - 115	14	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Nitrobenzene-d5	44		27 - 120
Terphenyl-d14	67		13 - 120
2-Fluorobiphenyl (Surr)	52		10 - 120

## Method: SM 5210B - BOD, 5-Day

**Lab Sample ID: USB 500-379338/1**  
**Matrix: Water**  
**Analysis Batch: 379338**

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			04/07/17 12:50	1

**Lab Sample ID: LCS 500-379338/2**  
**Matrix: Water**  
**Analysis Batch: 379338**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	220		mg/L		111	85 - 115

# Lab Chronicle

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

TestAmerica Job ID: 500-126216-2

## Client Sample ID: Influent

Date Collected: 04/06/17 07:10

Date Received: 04/07/17 09:30

## Lab Sample ID: 500-126216-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			420911	04/09/17 15:44	DHC	TAL NSH
Total/NA	Analysis	625 SIM		1	421020	04/10/17 18:06	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	379338		MAN	TAL CHI
					(Start)	04/07/17 19:12		
					(End)	04/07/17 19:30		

## Client Sample ID: Effluent

Date Collected: 04/06/17 07:30

Date Received: 04/07/17 09:30

## Lab Sample ID: 500-126216-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			420911	04/09/17 15:44	DHC	TAL NSH
Total/NA	Analysis	625 SIM		1	421020	04/10/17 18:28	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	379338		MAN	TAL CHI
					(Start)	04/07/17 16:18		
					(End)	04/07/17 16:36		

### 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

# Accreditation/Certification Summary

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

TestAmerica Job ID: 500-126216-2

## Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

## Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

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# TestAmerica


THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Contact: <u>Alina Satkoski</u> Company: <u>MKC</u> Address: _____ Address: _____ Phone: _____ Fax: _____ E-Mail: _____	Bill To (optional) Contact: <u>Accounts Payable</u> Company: <u>MKC</u> Address: _____ Address: _____ Phone: _____ Fax: _____ PO#/Reference#: <u>106985</u>
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## Chain of Custody Record

Lab Job #: 500-126216  
 Chain-of-Custody-Number: \_\_\_\_\_  
 Page 1 of 1  
 Temperature °C of Cooler: 5.475-6

Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Preservative				Comments	
			Date	Time			1	8	8	2		
1		Influent	4/6/17	710	9	W	X	X	X	X		Preservative Key Cool to 4°  500-126216 COC  For VOCs + PAH see attached analyte list
2		Effluent	4/6/17	130	9	W	X	X	X	X		
3		Trip Blank										

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day  2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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>4/6/17</u> Time: <u>1200</u>	Received By <u>Alina Satkoski</u> Company: <u>TestAmerica</u> Date: <u>04/07/17</u> Time: <u>0930</u>	Lab Courier
Relinquished By	Received By	Shipped <u>FX</u>
Relinquished By	Received By	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: \_\_\_\_\_

TAL-4124-500 (1209)

500-126216

Parameter	Method
<b>VOCs</b>	
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
<b>TSS</b>	
Suspended Solids, Total	2540D
<b>BTEX</b>	
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
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**BOD<sub>5</sub>**

BOD <sub>5</sub>	5210B
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**Anions**

Chloride	300
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ORIGIN ID: JOTA (708) 534-5200  
 ALINA SATKOSKI  
 MADISON-KIPP CORPORATION  
 201 WAUBESA STREET

SHIP DATE: 22MAR17  
 ACTWGT: 50.00 LB MAN  
 CAD: 33264/CAFE3011

MADISON, WI 53704  
 UNITED STATES US

TO **SAMPLE LOGIN**  
**TESTAMERICA LABS**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60466**  
 (708) 534-5200 REF: 9500-50847DM  
 DEPT: PM

AMA: ||| ||| |||



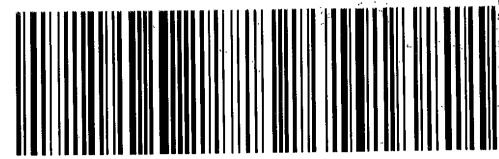
500-126216 Waybill

**FedEx**  
 TRK# 6514 8432 6606  
 0221

**FRI - 07 APR 10:30A**  
**PRIORITY OVERNIGHT**

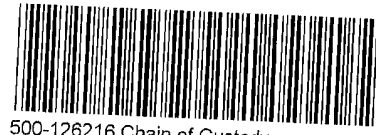
**79 JOTA**

**60466**  
 IL-US **ORD**



#2633987 04/06 546J2/CFD6/53C1

## COOLER RECEIPT FORM



500-126216 Chain of Custody

Cooler Received/Opened On 4/8/2017 @ 0915

Time Samples Removed From Cooler 1108 Time Samples Placed In Storage 1201 (2 Hour Window)

1. Tracking # 3207 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17960353 pH Strip Lot NIA Chlorine Strip Lot NIA

2. Temperature of rep. sample or temp blank when opened: 13 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) gh

7. Were custody seals on containers: YES  NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used?  Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process:  Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES... NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) H2G

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) H2G

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) H2G

I certify that I attached a label with the unique LIMS number to each container (initial) H2G

21. Were there Non-Conformance issues at login? YES... NO... Was a NCM generated? YES... NO...# \_\_\_\_\_



**TestAmerica Chicago**

2417 Bond Street  
University Park, IL 60484  
Phone (708) 534-5200 Fax (708) 534-5211

**Chain of Custody Record**

Loc: 500  
**126216**



**Client Information (Sub Contract Lab)**

Client Contact: **Shipping/Receiving**  
Company: **TestAmerica Laboratories, Inc**  
Address: **2960 Foster Creighton Drive,**  
City: **Nashville**  
State, Zip: **TN, 37204**  
Phone: **615-726-0177(Tel) 615-726-3404(Fax)**  
Email: **WO #:**

Sampler: **Frederick, Sandie J**  
Phone: **50009145**  
Project #: **50009145**  
Site: **SSOW#:**

Lab P/N: **Frederick, Sandie J**  
E-Mail: **sandie.frederick@testamericainc.com**  
Accreditations Required (See note): **Wisconsin**

No.: **35674.1**  
Page: **1 of 1**

Due Date Requested: **4/12/2017** TAT Requested (days): **1530** Analysis Requested: **625\_SIM/625\_Prep\_LVI (MOD) Single compound** Job #: **500-126216-2** Preservation Codes: **A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDTA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)**

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
Influent (500-126216-1)	4/6/17	07:10	Central	Water	X		2	
Effluent (500-126216-2)	4/6/17	07:30	Central	Water	X		2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

**Possible Hazard Identification**

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2** Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Archive For **Months**

Empty Kit Relinquished by: **Date:** **Time:** Method of Shipment: **Date/Time:** **0915** Company: **TAN**

Relinquished by: **Date/Time:** **04/07/17** **1530** Company: **TA** Received by: **Date/Time:** **4/8/17** Company: **TAN**

Custody Seals Intact: **Δ Yes Δ No** Custody Seal No.: **Cooler Temperature(s) °C and Other Remarks:**

## Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-126216-2

**Login Number: 126216**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Sanchez, Ariel M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	
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.	False	Received Trip Blank(s) not listed on COC.
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: 500-126216-2

**Login Number: 126216**  
**List Number: 2**  
**Creator: Gundi, Hozar K**

**List Source: TestAmerica Nashville**  
**List Creation: 04/08/17 11:49 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

