



Post Office Box 8043
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**Madison-Kipp
Corporation**

201 Waubesa Street
Madison, WI 53704-5728

November 3, 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 October, with the exception of maintenance activities. This letter summarizes the activities completed in October 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 October 10, 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 October, the GETS shut down for less than 24 hours due to an air bubble in the hydrogen peroxide line. 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)

Wendy Weihemuller - 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.
- (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.



11-3-2016

Signature of Person Completing Form

Date



11-3-2016

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: 500-118382-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

10/12/2016 10:15:33 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



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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: 500-118382-1

Job ID: 500-118382-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-118382-1

Comments

No additional comments.

Receipt

The samples were received on 10/11/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

Receipt Exceptions

One or more containers for the following sample(s) was received broken or leaking: Trip Blank client sent in was broken in transit, no volume remains.

Client lists on COC that there is an "Attached analyte list for VOC and PAH" but there is not, verified by PM.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-118382-1). 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.

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: 500-118382-1

Client Sample ID: Influent

Lab Sample ID: 500-118382-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1600		50	19	ug/L	50		624	Total/NA
Chloride	110	B	4.0	1.5	mg/L	20		300.0	Total/NA
Total Suspended Solids	2.5	J	5.0	2.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 500-118382-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	32		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	5.8		0.50	0.16	ug/L	1		624	Total/NA
Chloride	110	B	4.0	1.5	mg/L	20		300.0	Total/NA
Total Suspended Solids	15		5.0	2.5	mg/L	1		SM 2540D	Total/NA

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: 500-118382-1

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: 500-118382-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-118382-1	Influent	Water	10/10/16 08:00	10/11/16 10:20
500-118382-2	Effluent	Water	10/10/16 08:10	10/11/16 10:20

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Client Sample Results

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

TestAmerica Job ID: 500-118382-1

Client Sample ID: Influent

Date Collected: 10/10/16 08:00

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-1

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			10/12/16 11:39	5
Bromoform	<2.2		5.0	2.2	ug/L			10/12/16 11:39	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			10/12/16 11:39	5
Chloroform	<1.9		5.0	1.9	ug/L			10/12/16 11:39	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			10/12/16 11:39	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			10/12/16 11:39	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			10/12/16 11:39	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			10/12/16 11:39	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			10/12/16 11:39	5
Methyl bromide	<3.2		10	3.2	ug/L			10/12/16 11:39	5
Methyl chloride	<1.6		5.0	1.6	ug/L			10/12/16 11:39	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			10/12/16 11:39	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/12/16 11:39	5
Toluene	<0.76		2.5	0.76	ug/L			10/12/16 11:39	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/12/16 11:39	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			10/12/16 11:39	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			10/12/16 11:39	5
Trichloroethene	<0.82		2.5	0.82	ug/L			10/12/16 11:39	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			10/12/16 11:39	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			10/12/16 11:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		71 - 120		10/12/16 11:39	5
1,2-Dichloroethane-d4 (Surr)	104		71 - 127		10/12/16 11:39	5
Toluene-d8 (Surr)	96		75 - 120		10/12/16 11:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1600		50	19	ug/L			10/12/16 12:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		71 - 120		10/12/16 12:04	50
1,2-Dichloroethane-d4 (Surr)	104		71 - 127		10/12/16 12:04	50
Toluene-d8 (Surr)	94		75 - 120		10/12/16 12:04	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.4		5.3	1.4	mg/L		10/11/16 16:05	10/11/16 19:41	1
Chloride	110	B	4.0	1.5	mg/L			10/11/16 14:34	20
Total Suspended Solids	2.5	J	5.0	2.5	mg/L			10/11/16 12:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-118382-1

Client Sample ID: Effluent

Date Collected: 10/10/16 08:10

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-2

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			10/12/16 12:29	1
Bromoform	<0.45		1.0	0.45	ug/L			10/12/16 12:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/12/16 12:29	1
Chloroform	<0.37		1.0	0.37	ug/L			10/12/16 12:29	1
cis-1,2-Dichloroethene	17		1.0	0.41	ug/L			10/12/16 12:29	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			10/12/16 12:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/12/16 12:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/12/16 12:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/12/16 12:29	1
Methyl bromide	<0.65		2.0	0.65	ug/L			10/12/16 12:29	1
Methyl chloride	<0.32		1.0	0.32	ug/L			10/12/16 12:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/12/16 12:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/12/16 12:29	1
Tetrachloroethene	32		1.0	0.37	ug/L			10/12/16 12:29	1
Toluene	<0.15		0.50	0.15	ug/L			10/12/16 12:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/12/16 12:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/12/16 12:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/12/16 12:29	1
Trichloroethene	5.8		0.50	0.16	ug/L			10/12/16 12:29	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/12/16 12:29	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			10/12/16 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		71 - 120		10/12/16 12:29	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 127		10/12/16 12:29	1
Toluene-d8 (Surr)	96		75 - 120		10/12/16 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.4		5.3	1.4	mg/L		10/11/16 16:11	10/11/16 19:45	1
Chloride	110	B	4.0	1.5	mg/L			10/11/16 14:46	20
Total Suspended Solids	15		5.0	2.5	mg/L			10/11/16 12:22	1

Definitions/Glossary

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

TestAmerica Job ID: 500-118382-1

Qualifiers

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.

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: 500-118382-1

GC/MS VOA

Analysis Batch: 355693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	624	
500-118382-1 - DL	Influent	Total/NA	Water	624	
500-118382-2	Effluent	Total/NA	Water	624	
MB 500-355693/8	Method Blank	Total/NA	Water	624	
LCS 500-355693/6	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Analysis Batch: 355571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	SM 2540D	
500-118382-2	Effluent	Total/NA	Water	SM 2540D	
MB 500-355571/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-355571/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 355603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	1664B	
500-118382-2	Effluent	Total/NA	Water	1664B	
MB 500-355603/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-355603/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 355605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	1664B	355603
500-118382-2	Effluent	Total/NA	Water	1664B	355603
MB 500-355603/1-A	Method Blank	Total/NA	Water	1664B	355603
LCS 500-355603/2-A	Lab Control Sample	Total/NA	Water	1664B	355603

Analysis Batch: 355740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	300.0	
500-118382-2	Effluent	Total/NA	Water	300.0	
MB 500-355740/23	Method Blank	Total/NA	Water	300.0	
LCS 500-355740/32	Lab Control Sample	Total/NA	Water	300.0	

Surrogate Summary

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

TestAmerica Job ID: 500-118382-1

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 (71-120)	12DCE (71-127)	TOL (75-120)
500-118382-1 - DL	Influent	112	104	94
500-118382-1	Influent	111	104	96
500-118382-2	Effluent	111	103	96
LCS 500-355693/6	Lab Control Sample	102	94	99
MB 500-355693/8	Method Blank	114	103	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

TOL = Toluene-d8 (Surr)

QC Sample Results

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

TestAmerica Job ID: 500-118382-1

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

Lab Sample ID: MB 500-355693/8
Matrix: Water
Analysis Batch: 355693

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			10/12/16 11:03	1
Bromoform	<0.45		1.0	0.45	ug/L			10/12/16 11:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/12/16 11:03	1
Chloroform	<0.37		1.0	0.37	ug/L			10/12/16 11:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/12/16 11:03	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			10/12/16 11:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/12/16 11:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/12/16 11:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/12/16 11:03	1
Methyl bromide	<0.65		2.0	0.65	ug/L			10/12/16 11:03	1
Methyl chloride	<0.32		1.0	0.32	ug/L			10/12/16 11:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/12/16 11:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/12/16 11:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/12/16 11:03	1
Toluene	<0.15		0.50	0.15	ug/L			10/12/16 11:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/12/16 11:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/12/16 11:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/12/16 11:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/12/16 11:03	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/12/16 11:03	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			10/12/16 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		71 - 120		10/12/16 11:03	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 127		10/12/16 11:03	1
Toluene-d8 (Surr)	93		75 - 120		10/12/16 11:03	1

Lab Sample ID: LCS 500-355693/6
Matrix: Water
Analysis Batch: 355693

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	49.0		ug/L		98	37 - 151
Bromoform	50.0	51.3		ug/L		103	45 - 169
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 140
Chloroform	50.0	51.4		ug/L		103	51 - 138
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	70 - 130
Dichlorobromomethane	50.0	50.9		ug/L		102	35 - 155
1,2-Dichloroethane	50.0	52.0		ug/L		104	49 - 155
1,1-Dichloroethene	50.0	45.3		ug/L		91	10 - 234
Ethylbenzene	50.0	50.5		ug/L		101	37 - 162
Methyl bromide	50.0	35.2		ug/L		70	10 - 242
Methyl chloride	50.0	58.4		ug/L		117	10 - 273
m&p-Xylene	50.0	54.0		ug/L		108	
o-Xylene	50.0	54.0		ug/L		108	
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	46 - 157
Tetrachloroethene	50.0	52.9		ug/L		106	64 - 148
Toluene	50.0	53.6		ug/L		107	47 - 150

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-118382-1

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

Lab Sample ID: LCS 500-355693/6
Matrix: Water
Analysis Batch: 355693

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	45.9		ug/L		92	54 - 156
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	52 - 162
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	52 - 150
Trichloroethene	50.0	44.7		ug/L		89	71 - 157
Vinyl chloride	50.0	47.7		ug/L		95	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		71 - 120
1,2-Dichloroethane-d4 (Surr)	94		71 - 127
Toluene-d8 (Surr)	99		75 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-355603/1-A
Matrix: Water
Analysis Batch: 355605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.3		5.0	1.3	mg/L		10/11/16 15:47	10/11/16 19:31	1

Lab Sample ID: LCS 500-355603/2-A
Matrix: Water
Analysis Batch: 355605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	35.40		mg/L		89	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-355740/23
Matrix: Water
Analysis Batch: 355740

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.124	J	0.20	0.076	mg/L			10/11/16 13:05	1

Lab Sample ID: LCS 500-355740/32
Matrix: Water
Analysis Batch: 355740

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	2.77		mg/L		92	90 - 110

QC Sample Results

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

TestAmerica Job ID: 500-118382-1

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

Lab Sample ID: MB 500-355571/1
 Matrix: Water
 Analysis Batch: 355571

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	<2.5		5.0	2.5	mg/L			10/11/16 11:55	1

Lab Sample ID: LCS 500-355571/2
 Matrix: Water
 Analysis Batch: 355571

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	190		mg/L		95	80 - 120

Lab Chronicle

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

TestAmerica Job ID: 500-118382-1

Client Sample ID: Influent

Date Collected: 10/10/16 08:00

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	355693	10/12/16 11:39	PMF	TAL CHI
Total/NA	Analysis	624	DL	50	355693	10/12/16 12:04	PMF	TAL CHI
Total/NA	Prep	1664B			355603	10/11/16 16:05	ADK	TAL CHI
Total/NA	Analysis	1664B		1	355605	10/11/16 19:41	ADK	TAL CHI
Total/NA	Analysis	300.0		20	355740	10/11/16 14:34	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	355571		SMO	TAL CHI
					(Start)	10/11/16 12:20		
					(End)	10/11/16 12:22		

Client Sample ID: Effluent

Date Collected: 10/10/16 08:10

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	355693	10/12/16 12:29	PMF	TAL CHI
Total/NA	Prep	1664B			355603	10/11/16 16:11	ADK	TAL CHI
Total/NA	Analysis	1664B		1	355605	10/11/16 19:45	ADK	TAL CHI
Total/NA	Analysis	300.0		20	355740	10/11/16 14:46	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	355571		SMO	TAL CHI
					(Start)	10/11/16 12:22		
					(End)	10/11/16 12:23		

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

TestAmerica Job ID: 500-118382-1

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	08-31-17

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FedEx Express *Package US Airbill*

FedEx Tracking Number **8108 1333 0543**

Form ID No. **0215**

MUR 1

1 From

Date 10/19/16

Sender's Name Allina Satkoski Phone 708 265 7183

Company MKE

Address 201 Waukesha St.

City Madison State WI ZIP 53704

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIPT Phone 708 534-5200

Company TESTAMERICA CHICAGO LAB

Address 2417 BOND ST

Address UNIVERSITY PARK State IL ZIP 60484-3101



8108 1333 0543



RT **519** 5
ST 19 10:30 A
0543
10.11

4 Express Package Service *To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery.

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No Yes
One box must be checked. Yes: As per attached Shipper's Declaration. Yes: Shipper's Declaration not required.

Dry Ice
Dry Ice, 5 UN 1845 _____ kg

Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

Total Packages 1 Total Weight 4.3 lbs. Credit Card Acct. No. [REDACTED]

PRINTED IN U.S.A. SRM



500-118382 Waybill

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-118382-1

Login Number: 118382

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	3.8
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.	False	TB received broken.
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: 500-118382-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

10/17/2016 3:30:46 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.

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Case Narrative

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

TestAmerica Job ID: 500-118382-2

Job ID: 500-118382-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-118382-2

Comments

No additional comments.

Receipt

The samples were received on 10/11/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

Receipt Exceptions

One or more containers for the following sample(s) was received broken or leaking: Trip Blank client sent in was broke in transit, no volume remains

GC/MS Semi VOA

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-377520 and analytical batch 490-377471.

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

TestAmerica Job ID: 500-118382-2

Client Sample ID: Influent

Lab Sample ID: 500-118382-1

No Detections.

Client Sample ID: Effluent

Lab Sample ID: 500-118382-2

No Detections.

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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: 500-118382-2

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: 500-118382-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-118382-1	Influent	Water	10/10/16 08:00	10/11/16 10:20
500-118382-2	Effluent	Water	10/10/16 08:10	10/11/16 10:20

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Client Sample Results

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

TestAmerica Job ID: 500-118382-2

Client Sample ID: Influent

Date Collected: 10/10/16 08:00

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-1

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	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:24	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:24	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:24	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1
Chrysene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:24	1
Fluoranthene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:24	1
Naphthalene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1
Phenanthrene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1
Pyrene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	44		27 - 120	10/12/16 12:10	10/12/16 21:24	1
Terphenyl-d14	59		13 - 120	10/12/16 12:10	10/12/16 21:24	1
2-Fluorobiphenyl (Surr)	56		10 - 120	10/12/16 12:10	10/12/16 21:24	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			10/11/16 18:53	1

Client Sample Results

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

TestAmerica Job ID: 500-118382-2

Client Sample ID: Effluent

Date Collected: 10/10/16 08:10

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-2

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		10/12/16 12:10	10/12/16 21:43	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:43	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:43	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1
Chrysene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:43	1
Fluoranthene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 21:43	1
Naphthalene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1
Phenanthrene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1
Pyrene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	42		27 - 120	10/12/16 12:10	10/12/16 21:43	1
Terphenyl-d14	60		13 - 120	10/12/16 12:10	10/12/16 21:43	1
2-Fluorobiphenyl (Surr)	49		10 - 120	10/12/16 12:10	10/12/16 21:43	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			10/11/16 18:57	1

Definitions/Glossary

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

TestAmerica Job ID: 500-118382-2

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: 500-118382-2

GC/MS Semi VOA

Analysis Batch: 377471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	625 SIM	377520
500-118382-2	Effluent	Total/NA	Water	625 SIM	377520
MB 490-377520/1-A	Method Blank	Total/NA	Water	625 SIM	377520
LCS 490-377520/2-A	Lab Control Sample	Total/NA	Water	625 SIM	377520

Prep Batch: 377520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	625	
500-118382-2	Effluent	Total/NA	Water	625	
MB 490-377520/1-A	Method Blank	Total/NA	Water	625	
LCS 490-377520/2-A	Lab Control Sample	Total/NA	Water	625	

General Chemistry

Analysis Batch: 355654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118382-1	Influent	Total/NA	Water	SM 5210B	
500-118382-2	Effluent	Total/NA	Water	SM 5210B	
USB 500-355654/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-355654/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Surrogate Summary

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

TestAmerica Job ID: 500-118382-2

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 (27-120)	TPH (13-120)	FBP (10-120)
500-118382-1	Influent	44	59	56
500-118382-2	Effluent	42	60	49
LCS 490-377520/2-A	Lab Control Sample	55	67	64
MB 490-377520/1-A	Method Blank	39	50	43

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: 500-118382-2

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

Lab Sample ID: MB 490-377520/1-A
Matrix: Water
Analysis Batch: 377471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 20:46	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 20:46	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 20:46	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1
Chrysene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 20:46	1
Fluoranthene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		10/12/16 12:10	10/12/16 20:46	1
Naphthalene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1
Phenanthrene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1
Pyrene	<0.050		0.10	0.050	ug/L		10/12/16 12:10	10/12/16 20:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	39		27 - 120	10/12/16 12:10	10/12/16 20:46	1
Terphenyl-d14	50		13 - 120	10/12/16 12:10	10/12/16 20:46	1
2-Fluorobiphenyl (Surr)	43		10 - 120	10/12/16 12:10	10/12/16 20:46	1

Lab Sample ID: LCS 490-377520/2-A
Matrix: Water
Analysis Batch: 377471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	4.00	2.60		ug/L		65	33 - 143
Benzo[a]pyrene	4.00	2.48		ug/L		62	17 - 163
Benzo[b]fluoranthene	4.00	2.61		ug/L		65	24 - 159
Benzo[g,h,i]perylene	4.00	2.71		ug/L		68	10 - 219
Benzo[k]fluoranthene	4.00	2.80		ug/L		70	11 - 162
Chrysene	4.00	2.72		ug/L		68	17 - 168
Dibenz(a,h)anthracene	4.00	2.59		ug/L		65	10 - 227
Fluoranthene	4.00	2.52		ug/L		63	26 - 137
Indeno[1,2,3-cd]pyrene	4.00	2.55		ug/L		64	10 - 171
Naphthalene	4.00	2.36		ug/L		59	21 - 133
Phenanthrene	4.00	2.65		ug/L		66	54 - 120
Pyrene	4.00	2.58		ug/L		65	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	55		27 - 120
Terphenyl-d14	67		13 - 120
2-Fluorobiphenyl (Surr)	64		10 - 120

QC Sample Results

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

TestAmerica Job ID: 500-118382-2

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-355654/1
Matrix: Water
Analysis Batch: 355654

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			10/11/16 18:22	1

Lab Sample ID: LCS 500-355654/2
Matrix: Water
Analysis Batch: 355654

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	198		mg/L		100	85 - 115



Lab Chronicle

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

TestAmerica Job ID: 500-118382-2

Client Sample ID: Influent

Date Collected: 10/10/16 08:00

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			377520	10/12/16 12:10	SAT	TAL NSH
Total/NA	Analysis	625 SIM		1	377471	10/12/16 21:24	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	355654	10/11/16 18:53 (Start) 10/11/16 18:57 (End) 10/11/16 18:57	MAN	TAL CHI

Client Sample ID: Effluent

Date Collected: 10/10/16 08:10

Date Received: 10/11/16 10:20

Lab Sample ID: 500-118382-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			377520	10/12/16 12:10	SAT	TAL NSH
Total/NA	Analysis	625 SIM		1	377471	10/12/16 21:43	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	355654	10/11/16 18:57 (Start) 10/11/16 18:57 (End) 10/11/16 19:00	MAN	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

TestAmerica Job ID: 500-118382-2

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	08-31-17

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	08-31-17

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

500

FedEx Express Package *US Airbill*

FedEx Tracking Number **8108 1333 0543**

Form ID No. **0215** *MUR 1*

1 From

Date 10/19/16

Sender's Name Allina Satkoski Phone 708 265 7183

Company MKE

Address 201 Waukesha St.

City Madison State WI ZIP 53704

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIPT Phone 708 534-5200

Company TESTAMERICA CHICAGO LAB

Address 2417 BOND ST

Address UNIVERSITY PARK

City UNIVERSITY PARK State IL ZIP 60484-3101



4 Express Package Service *To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery.

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No Yes
One box must be checked. Yes: As per attached Shipper's Declaration. Yes: Shipper's Declaration not required.

Dry Ice
Dry Ice, 5 UN 1845 _____ x _____ kg

Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

Total Packages 1 Total Weight 4.3 lbs. Credit Card Acct. No. [REDACTED]

RT **519** 5
ST **19** 10:30 A
0543
10.11

500-118382 Waybill

COOLER RECEIPT FORM

Cooler Received/Opened On 10/12/2016 @ 0940

Time Samples Removed From Cooler 1/10 Time Samples Placed In Storage 1/23 (2 Hour Window)

1. Tracking # 0221 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 97310166 pH Strip Lot N/A Chlorine Strip Lot 040515C

2. Temperature of rep. sample or temp blank when opened: 0.8 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: (2) Front / Back

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) msm

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) msm

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) msm

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) msm

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

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

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-118382-2

Login Number: 118382

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	3.8
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.	False	TB received broken.
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	

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-118382-2

Login Number: 118382

List Number: 2

Creator: McBride, Mike

List Source: TestAmerica Nashville

List Creation: 10/12/16 11:22 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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

