



Post Office Box 8043
Madison, WI 53708-8043

**Madison-Kipp
Corporation**

201 Waubesa Street
Madison, WI 53704-5728

February 7, 2017

Alan Hopfensperger
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. Hopfensperger,

The Groundwater Extraction and Treatment System (GETS) ran for the month of January, with the exception of maintenance activities and repair of a pressure transducer on the mixing tank. This letter summarizes the activities completed in January 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 January 12, 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.

Between January 11th and the 18th, the GETS extraction well was operated at 40 gallons per minute (gpm) instead of 45 gpm due to issues with the onsite soil vapor extraction (SVE) system. The vapors extracted from the SVE system and generated from the air stripper for the GETS operation are combined and treated by two 2,000 pound activated carbon vessels installed in series. To ensure proper operation of the air stripper, a booster blower is installed downstream of the stripper to overcome back pressure from the SVE system. At times when the SVE system shuts down, the water level in the air stripper increases due to lack of back pressure downstream of the blower. The booster blower during this time can pull water from the top portion of the air stripper into the vapor phase carbon. While the SVE system was down, the extraction pump was operated at 40 gpm to keep water from being extracted from the upper portion of the air stripper. The SVE system was restarted on the 18th and the GETS flow rate was increased back to 45 gpm for the remainder of the month. Based on scheduled system monitoring, the influent and effluent samples were collected when the system was operating at 40 gpm during this month.



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If you have any questions or need additional information, please contact Andrew Stehn at astehn@trcsolutions.com or (608) 826-3665.

Mark Sheppard

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/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.
- (8) Between January 11 and January 18, the GETS extraction well was operated at 40 gpm. Please reference the cover letter of this submittal for further details.

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.



Signature of Person Completing Form

02/02/2017

Date



Signature of Principal Exec. or Authorized Agent

2-6-17

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: 500-122563-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

1/17/2017 4:33:52 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: 500-122563-1

Job ID: 500-122563-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-122563-1

Comments

No additional comments.

Receipt

The samples were received on 1/13/2017 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.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-122563-2). 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.

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Detection Summary

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

TestAmerica Job ID: 500-122563-1

Client Sample ID: Effluent

Lab Sample ID: 500-122563-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	21		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	5.5		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	3.1	J B	5.2	1.4	mg/L	1		1664B	Total/NA
Chloride	110	B	5.0	1.9	mg/L	25		300.0	Total/NA

Client Sample ID: Influent

Lab Sample ID: 500-122563-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.68	J	1.0	0.33	ug/L	2		624	Total/NA
Tetrachloroethene - DL	1300		20	7.4	ug/L	20		624	Total/NA
HEM (Oil & Grease)	2.6	J B	5.4	1.4	mg/L	1		1664B	Total/NA
Chloride	110	B	5.0	1.9	mg/L	25		300.0	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-122563-3

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: 500-122563-1

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: 500-122563-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-122563-1	Effluent	Water	01/12/17 06:15	01/13/17 10:20
500-122563-2	Influent	Water	01/12/17 06:35	01/13/17 10:20
500-122563-3	Trip Blank	Water	01/12/17 00:00	01/13/17 10:20

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Client Sample Results

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

TestAmerica Job ID: 500-122563-1

Client Sample ID: Effluent

Date Collected: 01/12/17 06:15

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-1

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			01/16/17 13:21	1
Bromoform	<0.45		1.0	0.45	ug/L			01/16/17 13:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/17 13:21	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/17 13:21	1
cis-1,2-Dichloroethene	14		1.0	0.41	ug/L			01/16/17 13:21	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			01/16/17 13:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/17 13:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/17 13:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/17 13:21	1
Methyl bromide	<0.65		2.0	0.65	ug/L			01/16/17 13:21	1
Methyl chloride	<0.32		1.0	0.32	ug/L			01/16/17 13:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/17 13:21	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/17 13:21	1
Tetrachloroethene	21		1.0	0.37	ug/L			01/16/17 13:21	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/17 13:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/17 13:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/17 13:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/17 13:21	1
Trichloroethene	5.5		0.50	0.16	ug/L			01/16/17 13:21	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			01/16/17 13:21	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			01/16/17 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		71 - 120		01/16/17 13:21	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		01/16/17 13:21	1
Toluene-d8 (Surr)	98		75 - 120		01/16/17 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	3.1	J B	5.2	1.4	mg/L		01/13/17 20:30	01/13/17 22:11	1
Chloride	110	B	5.0	1.9	mg/L			01/17/17 12:22	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			01/13/17 13:11	1

Client Sample Results

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

TestAmerica Job ID: 500-122563-1

Client Sample ID: Influent

Lab Sample ID: 500-122563-2

Date Collected: 01/12/17 06:35

Matrix: Water

Date Received: 01/13/17 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			01/16/17 13:48	2
Bromoform	<0.89		2.0	0.89	ug/L			01/16/17 13:48	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			01/16/17 13:48	2
Chloroform	<0.74		4.0	0.74	ug/L			01/16/17 13:48	2
cis-1,2-Dichloroethene	<0.82		2.0	0.82	ug/L			01/16/17 13:48	2
Dichlorobromomethane	<0.74		2.0	0.74	ug/L			01/16/17 13:48	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			01/16/17 13:48	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			01/16/17 13:48	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			01/16/17 13:48	2
Methyl bromide	<1.3		4.0	1.3	ug/L			01/16/17 13:48	2
Methyl chloride	<0.64		2.0	0.64	ug/L			01/16/17 13:48	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			01/16/17 13:48	2
1,1,1,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			01/16/17 13:48	2
Toluene	<0.30		1.0	0.30	ug/L			01/16/17 13:48	2
trans-1,2-Dichloroethene	<0.70		2.0	0.70	ug/L			01/16/17 13:48	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			01/16/17 13:48	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			01/16/17 13:48	2
Trichloroethene	0.68	J	1.0	0.33	ug/L			01/16/17 13:48	2
Vinyl chloride	<0.41		1.0	0.41	ug/L			01/16/17 13:48	2
Xylenes, Total	<0.80		2.0	0.80	ug/L			01/16/17 13:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		71 - 120		01/16/17 13:48	2
1,2-Dichloroethane-d4 (Surr)	111		71 - 127		01/16/17 13:48	2
Toluene-d8 (Surr)	97		75 - 120		01/16/17 13:48	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1300		20	7.4	ug/L			01/16/17 14:15	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		71 - 120		01/16/17 14:15	20
1,2-Dichloroethane-d4 (Surr)	110		71 - 127		01/16/17 14:15	20
Toluene-d8 (Surr)	98		75 - 120		01/16/17 14:15	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.6	J B	5.4	1.4	mg/L		01/13/17 20:35	01/13/17 22:16	1
Chloride	110	B	5.0	1.9	mg/L			01/17/17 12:34	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			01/13/17 13:12	1

Client Sample Results

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

TestAmerica Job ID: 500-122563-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-122563-3

Date Collected: 01/12/17 00:00

Matrix: Water

Date Received: 01/13/17 10:20

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			01/16/17 11:28	1
Bromoform	<0.45		1.0	0.45	ug/L			01/16/17 11:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/17 11:28	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/17 11:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/17 11:28	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			01/16/17 11:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/17 11:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/17 11:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/17 11:28	1
Methyl bromide	<0.65		2.0	0.65	ug/L			01/16/17 11:28	1
Methyl chloride	<0.32		1.0	0.32	ug/L			01/16/17 11:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/17 11:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/17 11:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/17 11:28	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/17 11:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/17 11:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/17 11:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/17 11:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/17 11:28	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			01/16/17 11:28	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			01/16/17 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		71 - 120		01/16/17 11:28	1
1,2-Dichloroethane-d4 (Surr)	106		71 - 127		01/16/17 11:28	1
Toluene-d8 (Surr)	99		75 - 120		01/16/17 11:28	1

Definitions/Glossary

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

TestAmerica Job ID: 500-122563-1

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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 500-122563-1

GC/MS VOA

Analysis Batch: 368657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	624	
500-122563-2	Influent	Total/NA	Water	624	
500-122563-2 - DL	Influent	Total/NA	Water	624	
500-122563-3	Trip Blank	Total/NA	Water	624	
MB 500-368657/8	Method Blank	Total/NA	Water	624	
LCS 500-368657/5	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Analysis Batch: 368509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	SM 2540D	
500-122563-2	Influent	Total/NA	Water	SM 2540D	
MB 500-368509/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-368509/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-122563-2 MS	Influent	Total/NA	Water	SM 2540D	
500-122563-2 DU	Influent	Total/NA	Water	SM 2540D	

Prep Batch: 368560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	1664B	
500-122563-2	Influent	Total/NA	Water	1664B	
MB 500-368560/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-368560/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 368564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	1664B	368560
500-122563-2	Influent	Total/NA	Water	1664B	368560
MB 500-368560/1-A	Method Blank	Total/NA	Water	1664B	368560
LCS 500-368560/2-A	Lab Control Sample	Total/NA	Water	1664B	368560

Analysis Batch: 368873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	300.0	
500-122563-2	Influent	Total/NA	Water	300.0	
MB 500-368873/3	Method Blank	Total/NA	Water	300.0	
LCS 500-368873/4	Lab Control Sample	Total/NA	Water	300.0	

Surrogate Summary

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

TestAmerica Job ID: 500-122563-1

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)
500-122563-1	Effluent	113	109	98
500-122563-2	Influent	114	111	97
500-122563-2 - DL	Influent	113	110	98
500-122563-3	Trip Blank	112	106	99
LCS 500-368657/5	Lab Control Sample	110	106	97
MB 500-368657/8	Method Blank	113	109	98

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: 500-122563-1

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

Lab Sample ID: MB 500-368657/8

Matrix: Water

Analysis Batch: 368657

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			01/16/17 10:35	1
Bromoform	<0.45		1.0	0.45	ug/L			01/16/17 10:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/17 10:35	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/17 10:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/17 10:35	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			01/16/17 10:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/17 10:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/17 10:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/17 10:35	1
Methyl bromide	<0.65		2.0	0.65	ug/L			01/16/17 10:35	1
Methyl chloride	<0.32		1.0	0.32	ug/L			01/16/17 10:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/17 10:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/17 10:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/17 10:35	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/17 10:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/17 10:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/17 10:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/17 10:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/17 10:35	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			01/16/17 10:35	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			01/16/17 10:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		71 - 120		01/16/17 10:35	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		01/16/17 10:35	1
Toluene-d8 (Surr)	98		75 - 120		01/16/17 10:35	1

Lab Sample ID: LCS 500-368657/5

Matrix: Water

Analysis Batch: 368657

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	54.2		ug/L		108	37 - 151
Bromoform	50.0	55.2		ug/L		110	45 - 169
Carbon tetrachloride	50.0	50.8		ug/L		102	70 - 140
Chloroform	50.0	52.5		ug/L		105	51 - 138
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	70 - 130
Dichlorobromomethane	50.0	53.6		ug/L		107	35 - 155
1,2-Dichloroethane	50.0	55.3		ug/L		111	49 - 155
1,1-Dichloroethene	50.0	50.5		ug/L		101	10 - 234
Ethylbenzene	50.0	52.4		ug/L		105	37 - 162
Methyl bromide	50.0	30.6		ug/L		61	10 - 242
Methyl chloride	50.0	52.6		ug/L		105	10 - 273
m&p-Xylene	50.0	54.8		ug/L		110	
o-Xylene	50.0	52.1		ug/L		104	
1,1,2,2-Tetrachloroethane	50.0	56.0		ug/L		112	46 - 157
Tetrachloroethene	50.0	56.3		ug/L		113	64 - 148
Toluene	50.0	53.8		ug/L		108	47 - 150

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-122563-1

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

Lab Sample ID: LCS 500-368657/5
Matrix: Water
Analysis Batch: 368657

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	48.7		ug/L		97	54 - 156
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	52 - 162
1,1,2-Trichloroethane	50.0	54.9		ug/L		110	52 - 150
Trichloroethene	50.0	51.9		ug/L		104	71 - 157
Vinyl chloride	50.0	49.1		ug/L		98	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		71 - 120
1,2-Dichloroethane-d4 (Surr)	106		71 - 127
Toluene-d8 (Surr)	97		75 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-368560/1-A
Matrix: Water
Analysis Batch: 368564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.70	J	5.0	1.3	mg/L		01/13/17 19:52	01/13/17 21:30	1

Lab Sample ID: LCS 500-368560/2-A
Matrix: Water
Analysis Batch: 368564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	40.00		mg/L		100	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-368873/3
Matrix: Water
Analysis Batch: 368873

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.134	J	0.20	0.076	mg/L			01/17/17 11:45	1

Lab Sample ID: LCS 500-368873/4
Matrix: Water
Analysis Batch: 368873

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	2.80		mg/L		93	90 - 110

QC Sample Results

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

TestAmerica Job ID: 500-122563-1

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

Lab Sample ID: MB 500-368509/1
 Matrix: Water
 Analysis Batch: 368509

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			01/13/17 12:50	1

Lab Sample ID: LCS 500-368509/2
 Matrix: Water
 Analysis Batch: 368509

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	211	225		mg/L		107	80 - 120

Lab Sample ID: 500-122563-2 MS
 Matrix: Water
 Analysis Batch: 368509

Client Sample ID: Influent
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	<2.5		100	90.0		mg/L		90	75 - 125

Lab Sample ID: 500-122563-2 DU
 Matrix: Water
 Analysis Batch: 368509

Client Sample ID: Influent
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<2.5		<2.5		mg/L		NC	5

Lab Chronicle

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

TestAmerica Job ID: 500-122563-1

Client Sample ID: Effluent

Date Collected: 01/12/17 06:15

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	368657	01/16/17 13:21	PMF	TAL CHI
Total/NA	Prep	1664B			368560	01/13/17 20:30	ADK	TAL CHI
Total/NA	Analysis	1664B		1	368564	01/13/17 22:11	ADK	TAL CHI
Total/NA	Analysis	300.0		25	368873	01/17/17 12:22	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	368509	(Start) 01/13/17 13:11 (End) 01/13/17 13:12	SMO	TAL CHI

Client Sample ID: Influent

Date Collected: 01/12/17 06:35

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	368657	01/16/17 13:48	PMF	TAL CHI
Total/NA	Analysis	624	DL	20	368657	01/16/17 14:15	PMF	TAL CHI
Total/NA	Prep	1664B			368560	01/13/17 20:35	ADK	TAL CHI
Total/NA	Analysis	1664B		1	368564	01/13/17 22:16	ADK	TAL CHI
Total/NA	Analysis	300.0		25	368873	01/17/17 12:34	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	368509	(Start) 01/13/17 13:12 (End) 01/13/17 13:14	SMO	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 01/12/17 00:00

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	368657	01/16/17 11:28	PMF	TAL CHI

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: 500-122563-1

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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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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


Report To (optional) Alina Satkoski
 Contact: Alina Satkoski
 Company: Andy Steh
 Address: 201 Waubesa St
 Address: Madison WI
 Phone: -
 Fax: Email: asteh@testamericainc.com
 E-Mail: asteh@testamericainc.com

Bill To (optional) Accounts Payable
 Contact: Mike
 Company: Mike
 Address: 201 Waubesa St.
 Address: Madison, WI
 Phone: -
 Fax: -

PO#/Reference# 106985

Chain of Custody Record

Lab Job #: 500-122563
 Chain of Custody Number: 067688
 Page 1 of 1
 Temperature °C of Cooler: 3.9

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>MIKC</u>				<u>1 8 8 2</u>		<u>VOC PAH BOD/TSS/ Chloride Oil & Grease</u>				Preservative Key  500-122563 COC 4° to 4°	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>1</u>		<u>ES Pluent</u>	<u>11/12/17</u>	<u>6:15</u>	<u>9</u>	<u>W</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>for VOC + PAH see attached</u>
<u>2</u>		<u>InFluent</u>	<u>11/12/17</u>	<u>6:35</u>	<u>9</u>	<u>W</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	
<u>3</u>		<u>Trip Blank</u>	<u>12/21/18</u>	<u>-</u>	<u>1</u>	<u>W</u>	<u>1</u>				

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>[Signature]</u>	Company <u>TRC</u>	Date <u>11/12/17</u>	Time <u>8:35 am</u>	Received By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>01/13/17</u>	Time <u>10:20</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier _____
 Shipped _____
 Hand Delivered _____

Matrix Key

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

Client Comments: Report to Andy Steh + Alina Satkoski

Lab Comments:

500-122563

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

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PAHs (Group of 10)	
Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	
PAHs	
Benzo(a)pyrene	625 SIM
Naphthalene	
Oil and Grease	
Oil and Grease	1664
BOD₅	
BOD ₅	5210B
Anions	
Chloride	300

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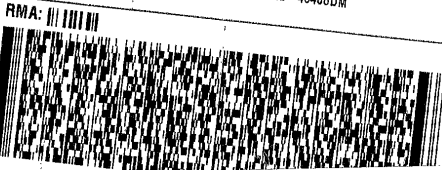
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ORIGIN ID: JOTA (708) 534-5200
 ALINA SATKOSKI
 MADISON-KIPP CORPORATION
 201 WAUBESA STREET
 MADISON, WI 53704
 UNITED STATES US

SHIP DATE: 22DEC16
 ACTWGT: 50.00 LB MAN
 CAD: 33264/CAFE3010

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

UNIVERSITY PARK IL 60466
 (708) 534-6200 REF: 5500-43458DM
 DEP: PM



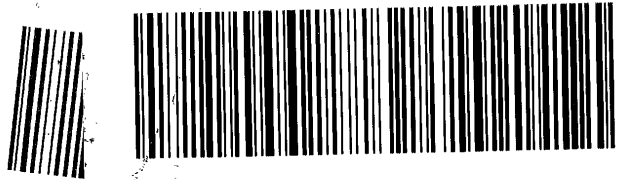
500-122563 Waybill

FedEx
 TRK# 65
 TRK# 0221 6514 8430 2815

FRI - 13 JAN 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
 IL-US ORD



Part # 1551481-434 RITZ APV EXP 1/17

01/12 544J1/1997/14EB

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-122563-1

Login Number: 122563

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.	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	



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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-122563-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

1/18/2017 4:22:22 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

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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: 500-122563-2

Job ID: 500-122563-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-122563-2

Comments

No additional comments.

Receipt

The samples were received on 1/13/2017 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.

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 490-401156 and analytical batch 490-401238.

Method(s) 625 SIM: The laboratory control sample (LCS) was outside the lower control limits for Phenanthrene and Pyrene. The laboratory control sample duplicate (LCSD) fell within control limits for these compounds. All surrogate recoveries for the MB, LCS, LCSD and samples were within control limits. The data has been qualified and reported.

Method(s) 625 SIM: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 490-401156 recovered outside control limits for the following analytes: Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene and Pyrene

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 of control limit of <0.2mg/L. However, the laboratory control standard (LCS) was in control; therefore, the data was reported. (USB 500-368498/1)

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: 500-122563-2

Client Sample ID: Effluent

Lab Sample ID: 500-122563-1

No Detections.

Client Sample ID: Influent

Lab Sample ID: 500-122563-2

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: 500-122563-2

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: 500-122563-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-122563-1	Effluent	Water	01/12/17 06:15	01/13/17 10:20
500-122563-2	Influent	Water	01/12/17 06:35	01/13/17 10:20

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15

Client Sample Results

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

TestAmerica Job ID: 500-122563-2

Client Sample ID: Effluent

Date Collected: 01/12/17 06:15

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-1

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		01/15/17 15:02	01/16/17 12:09	1
Benzo[a]pyrene	<0.025	*	0.050	0.025	ug/L		01/15/17 15:02	01/16/17 12:09	1
Benzo[b]fluoranthene	<0.025	*	0.050	0.025	ug/L		01/15/17 15:02	01/16/17 12:09	1
Benzo[g,h,i]perylene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1
Benzo[k]fluoranthene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1
Chrysene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1
Dibenz(a,h)anthracene	<0.025	*	0.050	0.025	ug/L		01/15/17 15:02	01/16/17 12:09	1
Fluoranthene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1
Indeno[1,2,3-cd]pyrene	<0.025	*	0.050	0.025	ug/L		01/15/17 15:02	01/16/17 12:09	1
Naphthalene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1
Phenanthrene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1
Pyrene	<0.050	*	0.10	0.050	ug/L		01/15/17 15:02	01/16/17 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		27 - 120	01/15/17 15:02	01/16/17 12:09	1
Terphenyl-d14	55		13 - 120	01/15/17 15:02	01/16/17 12:09	1
2-Fluorobiphenyl (Surr)	65		10 - 120	01/15/17 15:02	01/16/17 12:09	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			01/13/17 16:46	1

Client Sample Results

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

TestAmerica Job ID: 500-122563-2

Client Sample ID: Influent

Date Collected: 01/12/17 06:35

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-2

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	<0.024	*	0.048	0.024	ug/L		01/15/17 15:02	01/16/17 12:30	1
Benzo[a]pyrene	<0.024	*	0.048	0.024	ug/L		01/15/17 15:02	01/16/17 12:30	1
Benzo[b]fluoranthene	<0.024	*	0.048	0.024	ug/L		01/15/17 15:02	01/16/17 12:30	1
Benzo[g,h,i]perylene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1
Benzo[k]fluoranthene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1
Chrysene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1
Dibenz(a,h)anthracene	<0.024	*	0.048	0.024	ug/L		01/15/17 15:02	01/16/17 12:30	1
Fluoranthene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1
Indeno[1,2,3-cd]pyrene	<0.024	*	0.048	0.024	ug/L		01/15/17 15:02	01/16/17 12:30	1
Naphthalene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1
Phenanthrene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1
Pyrene	<0.048	*	0.096	0.048	ug/L		01/15/17 15:02	01/16/17 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	37		27 - 120	01/15/17 15:02	01/16/17 12:30	1
Terphenyl-d14	36		13 - 120	01/15/17 15:02	01/16/17 12:30	1
2-Fluorobiphenyl (Surr)	43		10 - 120	01/15/17 15:02	01/16/17 12:30	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			01/13/17 16:53	1

Definitions/Glossary

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

TestAmerica Job ID: 500-122563-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance 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: 500-122563-2

GC/MS Semi VOA

Prep Batch: 401156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	625	
500-122563-2	Influent	Total/NA	Water	625	
MB 490-401156/1-A	Method Blank	Total/NA	Water	625	
LCS 490-401156/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-401156/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 401238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	625 SIM	401156
500-122563-2	Influent	Total/NA	Water	625 SIM	401156
MB 490-401156/1-A	Method Blank	Total/NA	Water	625 SIM	401156
LCS 490-401156/2-A	Lab Control Sample	Total/NA	Water	625 SIM	401156
LCSD 490-401156/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	401156

General Chemistry

Analysis Batch: 368498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-122563-1	Effluent	Total/NA	Water	SM 5210B	
500-122563-2	Influent	Total/NA	Water	SM 5210B	
USB 500-368498/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-368498/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Surrogate Summary

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

TestAmerica Job ID: 500-122563-2

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)
500-122563-1	Effluent	51	55	65
500-122563-2	Influent	37	36	43
LCS 490-401156/2-A	Lab Control Sample	40	40	46
LCSD 490-401156/3-A	Lab Control Sample Dup	61	64	78
MB 490-401156/1-A	Method Blank	68	60	73

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: 500-122563-2

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

Lab Sample ID: MB 490-401156/1-A
Matrix: Water
Analysis Batch: 401238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		01/15/17 15:02	01/16/17 11:03	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		01/15/17 15:02	01/16/17 11:03	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		01/15/17 15:02	01/16/17 11:03	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1
Chrysene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		01/15/17 15:02	01/16/17 11:03	1
Fluoranthene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		01/15/17 15:02	01/16/17 11:03	1
Naphthalene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1
Phenanthrene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1
Pyrene	<0.050		0.10	0.050	ug/L		01/15/17 15:02	01/16/17 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		27 - 120	01/15/17 15:02	01/16/17 11:03	1
Terphenyl-d14	60		13 - 120	01/15/17 15:02	01/16/17 11:03	1
2-Fluorobiphenyl (Surr)	73		10 - 120	01/15/17 15:02	01/16/17 11:03	1

Lab Sample ID: LCS 490-401156/2-A
Matrix: Water
Analysis Batch: 401238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	4.00	1.61		ug/L		40	33 - 143
Benzo[a]pyrene	4.00	1.58		ug/L		40	17 - 163
Benzo[b]fluoranthene	4.00	1.50		ug/L		38	24 - 159
Benzo[g,h,i]perylene	4.00	1.62		ug/L		40	10 - 219
Benzo[k]fluoranthene	4.00	1.58		ug/L		40	11 - 162
Chrysene	4.00	1.49		ug/L		37	17 - 168
Dibenz(a,h)anthracene	4.00	1.54		ug/L		39	10 - 227
Fluoranthene	4.00	1.52		ug/L		38	26 - 137
Indeno[1,2,3-cd]pyrene	4.00	1.54		ug/L		39	10 - 171
Naphthalene	4.00	1.42		ug/L		36	21 - 133
Phenanthrene	4.00	1.36	*	ug/L		34	54 - 120
Pyrene	4.00	1.46	*	ug/L		36	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	40		27 - 120
Terphenyl-d14	40		13 - 120
2-Fluorobiphenyl (Surr)	46		10 - 120

Lab Sample ID: LCSD 490-401156/3-A
Matrix: Water
Analysis Batch: 401238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 401156

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzo[a]anthracene	4.00	2.52	*	ug/L		63	33 - 143	44	30

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-122563-2

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

Lab Sample ID: LCSD 490-401156/3-A
Matrix: Water
Analysis Batch: 401238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 401156

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	4.00	2.54	*	ug/L		64	17 - 163	47	30
Benzo[b]fluoranthene	4.00	2.41	*	ug/L		60	24 - 159	46	30
Benzo[g,h,i]perylene	4.00	2.60	*	ug/L		65	10 - 219	47	30
Benzo[k]fluoranthene	4.00	2.54	*	ug/L		63	11 - 162	46	30
Chrysene	4.00	2.38	*	ug/L		59	17 - 168	46	30
Dibenz(a,h)anthracene	4.00	2.46	*	ug/L		62	10 - 227	46	30
Fluoranthene	4.00	2.45	*	ug/L		61	26 - 137	47	30
Indeno[1,2,3-cd]pyrene	4.00	2.49	*	ug/L		62	10 - 171	47	30
Naphthalene	4.00	2.37	*	ug/L		59	21 - 133	50	30
Phenanthrene	4.00	2.21	*	ug/L		55	54 - 120	48	30
Pyrene	4.00	2.34	*	ug/L		58	52 - 115	46	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Nitrobenzene-d5	61		27 - 120
Terphenyl-d14	64		13 - 120
2-Fluorobiphenyl (Surr)	78		10 - 120

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-368498/1
Matrix: Water
Analysis Batch: 368498

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			01/13/17 15:00	1

Lab Sample ID: LCS 500-368498/2
Matrix: Water
Analysis Batch: 368498

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	190		mg/L		96	85 - 115

Lab Chronicle

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

TestAmerica Job ID: 500-122563-2

Client Sample ID: Effluent

Date Collected: 01/12/17 06:15

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			401156	01/15/17 15:02	DHC	TAL NSH
Total/NA	Analysis	625 SIM		1	401238	01/16/17 12:09	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	368498	01/13/17 16:46 01/13/17 16:53	MAN	TAL CHI

Client Sample ID: Influent

Date Collected: 01/12/17 06:35

Date Received: 01/13/17 10:20

Lab Sample ID: 500-122563-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			401156	01/15/17 15:02	DHC	TAL NSH
Total/NA	Analysis	625 SIM		1	401238	01/16/17 12:30	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	368498	01/13/17 16:53 01/13/17 16:59	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: 500-122563-2

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

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-16 *
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-16 *
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-16 *
South Carolina	State Program	4	84009 (001)	02-18-17 *
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17 *
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-17 *
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Chicago

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional) Alina Satkoski
 Contact: Alina Satkoski
 Company: Andy Steh
 Address: 201 Waubesa St
 Address: Madison WI
 Phone: -
 Fax: Email: asteh@trtest.com
 E-Mail: asteh@trtest.com

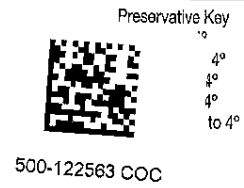
Bill To (optional) Accounts Payable
 Contact: Mike
 Company: Mike
 Address: 201 Waubesa St.
 Address: Madison, WI
 Phone: -
 Fax: -

PO#/Reference# 106985

Chain of Custody Record

Lab Job #: 500-122563
 Chain of Custody Number: 067608
 Page 1 of 1
 Temperature °C of Cooler: 3.0

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>MIKC</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>2</u>	<u>VOC</u>	<u>PAH</u>	<u>BOD/TSS/Chloride</u>	<u>Oil/Grease</u>
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>GETS/KVE</u>				<u>11/12/17</u>		<u>6:15</u>		<u>9</u>		<u>W</u>	
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Madison WI</u>				<u>11/12/17</u>		<u>6:35</u>		<u>9</u>		<u>W</u>	
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>John Koelke</u>		<u>Sandie Fredrick</u>		<u>12/21/16</u>		<u>-</u>		<u>1</u>		<u>W</u>	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Matrix	Matrix	Comments
<u>1</u>		<u>ES Plent</u>	<u>11/12/17</u>	<u>6:15</u>	<u>9</u>	<u>W</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>for VOC + PAH see attached</u>
<u>2</u>		<u>InFluent</u>	<u>11/12/17</u>	<u>6:35</u>	<u>9</u>	<u>W</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	
<u>3</u>		<u>Trip Blank</u>	<u>12/21/16</u>	<u>-</u>	<u>1</u>	<u>W</u>	<u>1</u>				



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>[Signature]</u>	Company: <u>TRC</u>	Date: <u>11/12/17</u>	Time: <u>8:35 am</u>	Received By: <u>[Signature]</u>	Company: <u>TRC</u>	Date: <u>01/13/17</u>	Time: <u>10:20</u>
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

Lab Courier: _____
 Shipped: _____
 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:
Report to Andy Steh + Alina Satkoski

Lab Comments:

500-122563

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

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

PAHs (Group of 10)	
Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	
PAHs	
Benzo(a)pyrene	625 SIM
Naphthalene	
Oil and Grease	
Oil and Grease	1664
BOD₅	
BOD ₅	5210B
Anions	
Chloride	300



COOLER RECEIPT FORM



500-122563 Chain of Custody

Cooler Received/Opened On 01-14-2017 @ 0930

Time Samples Removed From Cooler 12:19 Time Samples Placed In Storage 12:33 (2 Hour Window)

1. Tracking # 7379 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656838 pH Strip Lot HC574756 Chlorine Strip Lot 012576A

2. Temperature of rep. sample or temp blank when opened: 1.6 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) KA

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 # 10

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

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) KA

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) KA

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

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



1/18/2017

Client Information (Sub Contract Lab)	Sampler: Fredrick, Sandie J	Lab PM: Fredrick, Sandie J	COC No: 500-82456.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc	Accreditations Required (See note): State Program - Wisconsin		Job #: 500-122563-2

Address: 2960 Foster Creighton Drive, City: Nashville State, Zip: TN, 37204 Phone: 615-726-0177(Tel) 615-726-3404(Fax) Email:	Due Date Requested: 1/18/2017	Analysis Requested		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 - EDA 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)
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City: Nashville	TAT Requested (days):	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625_SIMI625_Prep_L1VI (MOD) Single compound	Total Number of Containers	Special Instructions/Note:
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State, Zip: TN, 37204	PO #:	Project Name: MadisonKipp - GETS/SVE	Project #: 50009145	SSOW#:
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Phone: 615-726-0177(Tel) 615-726-3404(Fax)	WO #:
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Project Name: MadisonKipp - GETS/SVE	Project #: 50009145
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Site:	SSOW#:
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625_SIMI625_Prep_L1VI (MOD) Single compound	Total Number of Containers	Special Instructions/Note:
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			Preservation Code:		X				
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Effluent (500-122563-1)	1/12/17	06:15 Central		Water		X			
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Influent (500-122563-2)	1/12/17	06:35 Central		Water		X			
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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
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Unconfirmed	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months
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Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
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Relinquished by:	Date/Time: 01/13/17 @ 1600	Company: TA	Received by:	Date/Time: 01-14-2017 09:30	Company: TAN
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Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
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Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6
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Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-122563-2

Login Number: 122563

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	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.	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: 500-122563-2

Login Number: 122563

List Number: 2

Creator: Dawson, Keith M

List Source: TestAmerica Nashville

List Creation: 01/14/17 12:32 PM

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

