



Post Office Box 8043
Madison, WI 53708-8043

**Madison-Kipp
Corporation**

201 Waubesa Street
Madison, WI 53704-5728

March 10, 2017

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

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

Dear Ms. James,

The Groundwater Extraction and Treatment System (GETS) ran for the month of February, with the exception of maintenance activities. This letter summarizes the activities completed in February 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 February 8, 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 February 2nd and the 8th and the 11th to the 13th, 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 GETS was adjusted back to 45 gpm on the 8th but reduced back to 40 gpm on the 11th due to complications with the SVE system. The SVE system was repaired and restarted on the 13th and the GETS flow rate was increased back to 45 gpm for the remainder of the month. 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. Despite issues with the SVE system and flow reduction for the GETS, the influent and effluent samples were collected when the system was operating at 45 gpm during this month.



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201 Waubesa Street
Madison, WI 53704 5728

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 BTEX is the sum of the benzene, ethylbenzene, toluene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.
- (2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.
- (3) Madison Kupp/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 02/02/17 and 02/08/17 and 02/11/17 to 02/13/17, 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 DMIRs 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.

Andrew M. Steh 03/07/2017
Signature of Person Completing Form Date

Mark S. [Signature] 3-9-17
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: 500-123652-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

2/13/2017 1:04:43 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: 500-123652-1

Job ID: 500-123652-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-123652-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS VOA

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: 500-123652-1

Client Sample ID: Effluent

Lab Sample ID: 500-123652-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	29		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	7.9		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	2.3	J B	5.3	1.4	mg/L	1		1664B	Total/NA
Chloride	110		5.0	1.9	mg/L	25		300.0	Total/NA

Client Sample ID: Influent

Lab Sample ID: 500-123652-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1500		50	19	ug/L	50		624	Total/NA
HEM (Oil & Grease)	3.0	J B	5.3	1.4	mg/L	1		1664B	Total/NA
Chloride	120		5.0	1.9	mg/L	25		300.0	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-123652-3

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: 500-123652-1

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: 500-123652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-123652-1	Effluent	Water	02/08/17 12:20	02/09/17 10:30
500-123652-2	Influent	Water	02/08/17 12:30	02/09/17 10:30
500-123652-3	Trip Blank	Water	02/08/17 00:00	02/09/17 10:30

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Client Sample Results

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

TestAmerica Job ID: 500-123652-1

Client Sample ID: Effluent

Date Collected: 02/08/17 12:20

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-1

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			02/13/17 00:51	1
Bromoform	<0.45		1.0	0.45	ug/L			02/13/17 00:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/13/17 00:51	1
Chloroform	<0.37		2.0	0.37	ug/L			02/13/17 00:51	1
cis-1,2-Dichloroethene	18		1.0	0.41	ug/L			02/13/17 00:51	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/13/17 00:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/13/17 00:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/13/17 00:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/13/17 00:51	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/13/17 00:51	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/13/17 00:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/13/17 00:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/13/17 00:51	1
Tetrachloroethene	29		1.0	0.37	ug/L			02/13/17 00:51	1
Toluene	<0.15		0.50	0.15	ug/L			02/13/17 00:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/13/17 00:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/13/17 00:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/13/17 00:51	1
Trichloroethene	7.9		0.50	0.16	ug/L			02/13/17 00:51	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/13/17 00:51	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/13/17 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		71 - 120		02/13/17 00:51	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		02/13/17 00:51	1
Toluene-d8 (Surr)	97		75 - 120		02/13/17 00:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.3	J B	5.3	1.4	mg/L		02/09/17 16:54	02/09/17 19:25	1
Chloride	110		5.0	1.9	mg/L			02/11/17 00:21	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			02/09/17 12:05	1

Client Sample Results

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

TestAmerica Job ID: 500-123652-1

Client Sample ID: Influent

Lab Sample ID: 500-123652-2

Date Collected: 02/08/17 12:30

Matrix: Water

Date Received: 02/09/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			02/13/17 01:16	5
Bromoform	<2.2		5.0	2.2	ug/L			02/13/17 01:16	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			02/13/17 01:16	5
Chloroform	<1.9		10	1.9	ug/L			02/13/17 01:16	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			02/13/17 01:16	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			02/13/17 01:16	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			02/13/17 01:16	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			02/13/17 01:16	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			02/13/17 01:16	5
Methyl bromide	<3.2		10	3.2	ug/L			02/13/17 01:16	5
Methyl chloride	<1.6		5.0	1.6	ug/L			02/13/17 01:16	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			02/13/17 01:16	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			02/13/17 01:16	5
Toluene	<0.76		2.5	0.76	ug/L			02/13/17 01:16	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			02/13/17 01:16	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			02/13/17 01:16	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			02/13/17 01:16	5
Trichloroethene	<0.82		2.5	0.82	ug/L			02/13/17 01:16	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			02/13/17 01:16	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			02/13/17 01:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		71 - 120		02/13/17 01:16	5
1,2-Dichloroethane-d4 (Surr)	108		71 - 127		02/13/17 01:16	5
Toluene-d8 (Surr)	97		75 - 120		02/13/17 01:16	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1500		50	19	ug/L			02/13/17 01:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120		02/13/17 01:41	50
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		02/13/17 01:41	50
Toluene-d8 (Surr)	97		75 - 120		02/13/17 01:41	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	3.0	J B	5.3	1.4	mg/L		02/09/17 17:04	02/09/17 19:34	1
Chloride	120		5.0	1.9	mg/L			02/11/17 00:33	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			02/09/17 12:07	1

Client Sample Results

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

TestAmerica Job ID: 500-123652-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-123652-3

Date Collected: 02/08/17 00:00

Matrix: Water

Date Received: 02/09/17 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/12/17 22:46	1
Bromoform	<0.45		1.0	0.45	ug/L			02/12/17 22:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/12/17 22:46	1
Chloroform	<0.37		2.0	0.37	ug/L			02/12/17 22:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/12/17 22:46	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/12/17 22:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/12/17 22:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/12/17 22:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/12/17 22:46	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/12/17 22:46	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/12/17 22:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/12/17 22:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/12/17 22:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/12/17 22:46	1
Toluene	<0.15		0.50	0.15	ug/L			02/12/17 22:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/12/17 22:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/12/17 22:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/12/17 22:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/12/17 22:46	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/12/17 22:46	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/12/17 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		02/12/17 22:46	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		02/12/17 22:46	1
Toluene-d8 (Surr)	98		75 - 120		02/12/17 22:46	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123652-1

Qualifiers

General Chemistry

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

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: 500-123652-1

GC/MS VOA

Analysis Batch: 371706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	624	
500-123652-2	Influent	Total/NA	Water	624	
500-123652-2 - DL	Influent	Total/NA	Water	624	
500-123652-3	Trip Blank	Total/NA	Water	624	
MB 500-371706/7	Method Blank	Total/NA	Water	624	
LCS 500-371706/5	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Analysis Batch: 371438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	SM 2540D	
500-123652-2	Influent	Total/NA	Water	SM 2540D	
MB 500-371438/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-371438/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 371461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	1664B	
500-123652-2	Influent	Total/NA	Water	1664B	
MB 500-371461/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-371461/2-A	Lab Control Sample	Total/NA	Water	1664B	
500-123652-1 MS	Effluent	Total/NA	Water	1664B	

Analysis Batch: 371463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	1664B	371461
500-123652-2	Influent	Total/NA	Water	1664B	371461
MB 500-371461/1-A	Method Blank	Total/NA	Water	1664B	371461
LCS 500-371461/2-A	Lab Control Sample	Total/NA	Water	1664B	371461
500-123652-1 MS	Effluent	Total/NA	Water	1664B	371461

Analysis Batch: 371658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	300.0	
500-123652-2	Influent	Total/NA	Water	300.0	
MB 500-371658/23	Method Blank	Total/NA	Water	300.0	
LCS 500-371658/30	Lab Control Sample	Total/NA	Water	300.0	

Surrogate Summary

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

TestAmerica Job ID: 500-123652-1

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)
500-123652-1	Effluent	101	109	97
500-123652-2	Influent	101	108	97
500-123652-2 - DL	Influent	99	105	97
500-123652-3	Trip Blank	102	109	98
LCS 500-371706/5	Lab Control Sample	96	107	99
MB 500-371706/7	Method Blank	104	108	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: 500-123652-1

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

Lab Sample ID: MB 500-371706/7
Matrix: Water
Analysis Batch: 371706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/12/17 21:06	1
Bromoform	<0.45		1.0	0.45	ug/L			02/12/17 21:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/12/17 21:06	1
Chloroform	<0.37		2.0	0.37	ug/L			02/12/17 21:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/12/17 21:06	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/12/17 21:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/12/17 21:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/12/17 21:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/12/17 21:06	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/12/17 21:06	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/12/17 21:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/12/17 21:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/12/17 21:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/12/17 21:06	1
Toluene	<0.15		0.50	0.15	ug/L			02/12/17 21:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/12/17 21:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/12/17 21:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/12/17 21:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/12/17 21:06	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/12/17 21:06	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/12/17 21:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		71 - 120		02/12/17 21:06	1
1,2-Dichloroethane-d4 (Surr)	108		71 - 127		02/12/17 21:06	1
Toluene-d8 (Surr)	98		75 - 120		02/12/17 21:06	1

Lab Sample ID: LCS 500-371706/5
Matrix: Water
Analysis Batch: 371706

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	48.0		ug/L		96	37 - 151
Bromoform	50.0	51.1		ug/L		102	45 - 169
Carbon tetrachloride	50.0	53.2		ug/L		106	70 - 140
Chloroform	50.0	50.4		ug/L		101	51 - 138
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 130
Dichlorobromomethane	50.0	49.0		ug/L		98	35 - 155
1,2-Dichloroethane	50.0	53.7		ug/L		107	49 - 155
1,1-Dichloroethene	50.0	46.5		ug/L		93	10 - 234
Ethylbenzene	50.0	49.9		ug/L		100	37 - 162
Methyl bromide	50.0	35.7		ug/L		71	10 - 242
Methyl chloride	50.0	36.2		ug/L		72	10 - 273
m&p-Xylene	50.0	49.7		ug/L		99	
o-Xylene	50.0	50.3		ug/L		101	
1,1,2,2-Tetrachloroethane	50.0	46.0		ug/L		92	46 - 157
Tetrachloroethene	50.0	51.6		ug/L		103	64 - 148
Toluene	50.0	50.5		ug/L		101	47 - 150

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-123652-1

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

Lab Sample ID: LCS 500-371706/5
Matrix: Water
Analysis Batch: 371706

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	47.0		ug/L		94	54 - 156
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	52 - 162
1,1,2-Trichloroethane	50.0	48.5		ug/L		97	52 - 150
Trichloroethene	50.0	51.8		ug/L		104	71 - 157
Vinyl chloride	50.0	40.0		ug/L		80	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		71 - 120
1,2-Dichloroethane-d4 (Surr)	107		71 - 127
Toluene-d8 (Surr)	99		75 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-371461/1-A
Matrix: Water
Analysis Batch: 371463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371461

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		02/09/17 16:14	02/09/17 18:50	1

Lab Sample ID: LCS 500-371461/2-A
Matrix: Water
Analysis Batch: 371463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371461

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

Lab Sample ID: 500-123652-1 MS
Matrix: Water
Analysis Batch: 371463

Client Sample ID: Effluent
Prep Type: Total/NA
Prep Batch: 371461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	2.3	J B	42.2	39.03		mg/L		87	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-371658/23
Matrix: Water
Analysis Batch: 371658

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.076		0.20	0.076	mg/L			02/10/17 19:04	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-123652-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-371658/30
 Matrix: Water
 Analysis Batch: 371658

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	3.13		mg/L		104	90 - 110

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

Lab Sample ID: MB 500-371438/1
 Matrix: Water
 Analysis Batch: 371438

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			02/09/17 11:35	1

Lab Sample ID: LCS 500-371438/2
 Matrix: Water
 Analysis Batch: 371438

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	175		mg/L		88	80 - 120

Lab Chronicle

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

TestAmerica Job ID: 500-123652-1

Client Sample ID: Effluent

Date Collected: 02/08/17 12:20

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	371706	02/13/17 00:51	PMF	TAL CHI
Total/NA	Prep	1664B			371461	02/09/17 16:54	VIP	TAL CHI
Total/NA	Analysis	1664B		1	371463	02/09/17 19:25	ADK	TAL CHI
Total/NA	Analysis	300.0		25	371658	02/11/17 00:21	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	371438		SMO	TAL CHI
						(Start) 02/09/17 12:05		
						(End) 02/09/17 12:07		

Client Sample ID: Influent

Date Collected: 02/08/17 12:30

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	371706	02/13/17 01:16	PMF	TAL CHI
Total/NA	Analysis	624	DL	50	371706	02/13/17 01:41	PMF	TAL CHI
Total/NA	Prep	1664B			371461	02/09/17 17:04	VIP	TAL CHI
Total/NA	Analysis	1664B		1	371463	02/09/17 19:34	ADK	TAL CHI
Total/NA	Analysis	300.0		25	371658	02/11/17 00:33	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	371438		SMO	TAL CHI
						(Start) 02/09/17 12:07		
						(End) 02/09/17 12:08		

Client Sample ID: Trip Blank

Date Collected: 02/08/17 00:00

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	371706	02/12/17 22:46	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: 500-123652-1

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)
Contact: Alina Satkoski +
Company: Andy Stehn
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: Accountg Payable
Company: mke
Address: 201 Waukesa St.
Address: Madison, WI
Phone: _____
Fax: _____
PO#/Reference# 106985

Chain of Custody Record

Lab Job #: 500-123652
Chain of Custody Number: 73750
Page 1 of 1
Temperature °C of Cooler: 44

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key  500-123652 COC	Comments
<u>mke</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>28</u>				
Project Name <u>GETS/SVE</u>		Lab Project #									
Project Location/State <u>Madison, WI</u>		Lab PM <u>Sandi Fredrick</u>									
Sampler <u>John Roetke</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	PAH	BOD/TSS/Chloride	Oil + Grease	
<u>1</u>		<u>Effluent</u>	<u>2/8/17</u>	<u>1220</u>	<u>9</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>	<u>AS</u>	<u>Influent</u>	<u>2/8/17</u>	<u>1230</u>	<u>9</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>		<u>Trip Blank</u>	<u>1/23/17</u>	<u>-</u>	<u>2</u>	<u>W</u>	<u>X</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>2/8/17</u>	Time <u>1430</u>	Received By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>02/09/17</u>	Time <u>1030</u>	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

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

Client Comments: _____
 Lab Comments: _____

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

PAHs (Group of 10)

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

PAHs

Benzo(a)pyrene	625 SIM
Naphthalene	

Oil and Grease

Oil and Grease	1664
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BOD₅

BOD ₅	5210B
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Anions

Chloride	300
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ORIGIN ID: JOTA (708) 534-5200
ALINA SATKOSKI
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WI 53704
UNITED STATES US

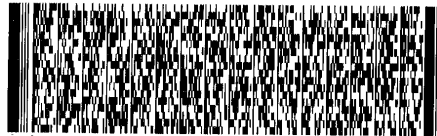
SHIP DATE: 24 JAN 17
ACTWGT: 50.00 LB 14AN
CAD: 332B4/CAFE3010

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

UNIVERSITY PARK IL 60466

(708) 534-5200
REF: S500-43459

RNA: ||| ||| |||



FedEx
Express



540CL/1897/727F
J161016072601111

FedEx
TRK# 6514 8430 9794
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THU - 09 FEB 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
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*366300 02/08 546J1/33BB/53C1



Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-123652-1

Login Number: 123652

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	4.6
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

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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: 500-123652-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

2/14/2017 3:53:13 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

TotalAccess

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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: 500-123652-2

Job ID: 500-123652-2

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-123652-2**

Comments

No additional comments.

Receipt

The samples were received on 2/9/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° 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 490-407156 and analytical batch 490-407390.

Method(s) 625 SIM: The continuing calibration verification (CCV) associated with batch 490-407390 recovered above the upper control limit for Nitrobenzene-d5(Surr). All associated sample surrogate recoveries were within control limits; therefore, the data has been reported. The following sample is impacted: (CCVIS 490-407390/2).

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 the control limit of <0.2 mgO2/L. However, the laboratory control standard (LCS) was in control; therefore, the data was reported.

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: 500-123652-2

Client Sample ID: Effluent

Lab Sample ID: 500-123652-1

No Detections.

Client Sample ID: Influent

Lab Sample ID: 500-123652-2

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: 500-123652-2

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: 500-123652-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-123652-1	Effluent	Water	02/08/17 12:20	02/09/17 10:30
500-123652-2	Influent	Water	02/08/17 12:30	02/09/17 10:30

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Client Sample Results

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

TestAmerica Job ID: 500-123652-2

Client Sample ID: Effluent

Date Collected: 02/08/17 12:20

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 11:55	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 11:55	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 11:55	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1
Chrysene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 11:55	1
Fluoranthene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 11:55	1
Naphthalene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1
Phenanthrene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1
Pyrene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		27 - 120	02/10/17 12:58	02/13/17 11:55	1
Terphenyl-d14	68		13 - 120	02/10/17 12:58	02/13/17 11:55	1
2-Fluorobiphenyl (Surr)	71		10 - 120	02/10/17 12:58	02/13/17 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			02/09/17 20:48	1

Client Sample Results

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

TestAmerica Job ID: 500-123652-2

Client Sample ID: Influent

Date Collected: 02/08/17 12:30

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-2

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		02/10/17 12:58	02/13/17 12:17	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 12:17	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 12:17	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1
Chrysene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 12:17	1
Fluoranthene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		02/10/17 12:58	02/13/17 12:17	1
Naphthalene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1
Phenanthrene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1
Pyrene	<0.048		0.096	0.048	ug/L		02/10/17 12:58	02/13/17 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		27 - 120	02/10/17 12:58	02/13/17 12:17	1
Terphenyl-d14	72		13 - 120	02/10/17 12:58	02/13/17 12:17	1
2-Fluorobiphenyl (Surr)	76		10 - 120	02/10/17 12:58	02/13/17 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			02/09/17 20:45	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123652-2

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: 500-123652-2

GC/MS Semi VOA

Prep Batch: 407156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	625	
500-123652-2	Influent	Total/NA	Water	625	
MB 490-407156/1-A	Method Blank	Total/NA	Water	625	
LCS 490-407156/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-407156/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 407390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	625 SIM	407156
500-123652-2	Influent	Total/NA	Water	625 SIM	407156
MB 490-407156/1-A	Method Blank	Total/NA	Water	625 SIM	407156
LCS 490-407156/2-A	Lab Control Sample	Total/NA	Water	625 SIM	407156
LCSD 490-407156/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	407156

General Chemistry

Analysis Batch: 371470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-123652-1	Effluent	Total/NA	Water	SM 5210B	
500-123652-2	Influent	Total/NA	Water	SM 5210B	
USB 500-371470/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-371470/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Surrogate Summary

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

TestAmerica Job ID: 500-123652-2

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)
500-123652-1	Effluent	91	68	71
500-123652-2	Influent	85	72	76
LCS 490-407156/2-A	Lab Control Sample	84	78	78
LCSD 490-407156/3-A	Lab Control Sample Dup	93	82	83
MB 490-407156/1-A	Method Blank	88	77	78

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: 500-123652-2

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

Lab Sample ID: MB 490-407156/1-A
Matrix: Water
Analysis Batch: 407390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		02/10/17 12:58	02/13/17 10:49	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		02/10/17 12:58	02/13/17 10:49	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		02/10/17 12:58	02/13/17 10:49	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1
Chrysene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		02/10/17 12:58	02/13/17 10:49	1
Fluoranthene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		02/10/17 12:58	02/13/17 10:49	1
Naphthalene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1
Phenanthrene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1
Pyrene	<0.050		0.10	0.050	ug/L		02/10/17 12:58	02/13/17 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	88		27 - 120	02/10/17 12:58	02/13/17 10:49	1
Terphenyl-d14	77		13 - 120	02/10/17 12:58	02/13/17 10:49	1
2-Fluorobiphenyl (Surr)	78		10 - 120	02/10/17 12:58	02/13/17 10:49	1

Lab Sample ID: LCS 490-407156/2-A
Matrix: Water
Analysis Batch: 407390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	4.00	3.11		ug/L		78	33 - 143
Benzo[a]pyrene	4.00	2.92		ug/L		73	17 - 163
Benzo[b]fluoranthene	4.00	2.95		ug/L		74	24 - 159
Benzo[g,h,i]perylene	4.00	2.68		ug/L		67	10 - 219
Benzo[k]fluoranthene	4.00	3.22		ug/L		80	11 - 162
Chrysene	4.00	3.20		ug/L		80	17 - 168
Dibenz(a,h)anthracene	4.00	2.42		ug/L		61	10 - 227
Fluoranthene	4.00	3.11		ug/L		78	26 - 137
Indeno[1,2,3-cd]pyrene	4.00	2.42		ug/L		61	10 - 171
Naphthalene	4.00	3.18		ug/L		79	21 - 133
Phenanthrene	4.00	3.07		ug/L		77	54 - 120
Pyrene	4.00	2.95		ug/L		74	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	84		27 - 120
Terphenyl-d14	78		13 - 120
2-Fluorobiphenyl (Surr)	78		10 - 120

Lab Sample ID: LCSD 490-407156/3-A
Matrix: Water
Analysis Batch: 407390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407156

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzo[a]anthracene	4.00	3.24		ug/L		81	33 - 143	4	30

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-123652-2

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

Lab Sample ID: LCSD 490-407156/3-A
Matrix: Water
Analysis Batch: 407390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407156

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	4.00	3.05		ug/L		76	17 - 163	4	30
Benzo[b]fluoranthene	4.00	3.02		ug/L		76	24 - 159	2	30
Benzo[g,h,i]perylene	4.00	2.88		ug/L		72	10 - 219	7	30
Benzo[k]fluoranthene	4.00	3.50		ug/L		87	11 - 162	8	30
Chrysene	4.00	3.28		ug/L		82	17 - 168	2	30
Dibenz(a,h)anthracene	4.00	2.57		ug/L		64	10 - 227	6	30
Fluoranthene	4.00	3.47		ug/L		87	26 - 137	11	30
Indeno[1,2,3-cd]pyrene	4.00	2.59		ug/L		65	10 - 171	6	30
Naphthalene	4.00	3.22		ug/L		80	21 - 133	1	30
Phenanthrene	4.00	3.17		ug/L		79	54 - 120	3	30
Pyrene	4.00	3.17		ug/L		79	52 - 115	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Nitrobenzene-d5	93		27 - 120
Terphenyl-d14	82		13 - 120
2-Fluorobiphenyl (Surr)	83		10 - 120

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-371470/1
Matrix: Water
Analysis Batch: 371470

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			02/09/17 20:23	1

Lab Sample ID: LCS 500-371470/2
Matrix: Water
Analysis Batch: 371470

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	188		mg/L		95	85 - 115

Lab Chronicle

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

TestAmerica Job ID: 500-123652-2

Client Sample ID: Effluent

Date Collected: 02/08/17 12:20

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			407156	02/10/17 12:58	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	407390	02/13/17 11:55	ZLN	TAL NSH
Total/NA	Analysis	SM 5210B		1	371470		MAN	TAL CHI
					(Start)	02/09/17 20:48		
					(End)	02/09/17 20:51		

Client Sample ID: Influent

Date Collected: 02/08/17 12:30

Date Received: 02/09/17 10:30

Lab Sample ID: 500-123652-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			407156	02/10/17 12:58	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	407390	02/13/17 12:17	ZLN	TAL NSH
Total/NA	Analysis	SM 5210B		1	371470		MAN	TAL CHI
					(Start)	02/09/17 20:45		
					(End)	02/09/17 20:48		

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: 500-123652-2

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	10-31-18
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	12-31-17
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	12-30-17
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	02-28-18
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)
 Contact: Alina Satkoski +
 Company: Andy Stehn
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: Accountg Payable
 Company: mke
 Address: 201 Waukesa St.
 Address: Madison, WI
 Phone: _____
 Fax: _____
 PO#/Reference# 106985

Chain of Custody Record

Lab Job #: 500-123652
 Chain of Custody Number: 73750
 Page 1 of 1
 Temperature °C of Cooler: 44

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key  500-123652 COC	Comments
<u>mke</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>28</u>				
Project Name <u>GETS/SVE</u>		Lab Project #									
Project Location/State <u>Madison, WI</u>		Lab PM <u>Sandi Fredrick</u>									
Sampler <u>John Roetke</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	PAH	BOD/TSS/Chloride	Oil + Grease	
<u>1</u>		<u>Effluent</u>	<u>2/8/17</u>	<u>1220</u>	<u>9</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>	<u>AS</u>	<u>Influent</u>	<u>2/8/17</u>	<u>1230</u>	<u>9</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>		<u>Trip Blank</u>	<u>1/23/17</u>	<u>-</u>	<u>2</u>	<u>W</u>	<u>X</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>2/8/17</u>	Time <u>1430</u>	Received By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>02/09/17</u>	Time <u>1030</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 WJ - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

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

PAHs (Group of 10)

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

PAHs

Benzo(a)pyrene	625 SIM
Naphthalene	

Oil and Grease

Oil and Grease	1664
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BOD₅

BOD ₅	5210B
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Anions

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

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

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

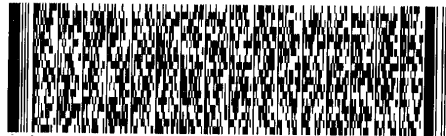
SHIP DATE: 24 JAN 17
ACTWGT: 50.00 LB 14AN
CAD: 332B4/CAFE3010

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

UNIVERSITY PARK IL 60466

(708) 534-5200
REF: S500-43459

RMA: ||| ||| |||



FedEx
TRK# 6514 8430 9794
0221

THU - 09 FEB 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US ORD



*366300 02/08 546J1/33BB/53C1



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COOLER RECEIPT FORM



500-123652 Chain of Custody

Cooler Received/Opened On 2-10-17 @ 0935

Time Samples Removed From Cooler 1200 Time Samples Placed In Storage 1237 (2 Hour Window)

1. Tracking # 4657 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot HC693124 Chlorine Strip Lot 081116K

2. Temperature of rep. sample or temp blank when opened: 2.1 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: one 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) DA

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) _____

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) _____

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) _____

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

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

TestAmerica Chicago

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

Chain of Custody Record

Loc: 500

123652



Client Information (Sub Contract Lab)		Sampler: Fredrick, Sandie J		Lab PM: Fredrick, Sandie J		Ca		COC No: 500-83594.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: sandie.fredrick@testamericainc.com		State of Origin: Wisconsin		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc				Accreditations Required (See note): State Program - Wisconsin				Job #: 500-123652-2	
Address: 2960 Foster Creighton Drive, Nashville, TN, 37204		Due Date Requested: 2/14/2017		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
City: Nashville		TAT Requested (days):							
State, Zip: TN, 37204		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
Phone: 615-726-0177(Tel) 615-726-3404(Fax)		WO #:		625_SIM/625_Prep_LVI (MOD) Single compound					
Email:		Project #: 50009145		Preservation Code:				Special Instructions/Note:	
Project Name: MadisonKipp - GETS/SVE		Site: S50W#:							
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)	
Effluent (500-123652-1)		2/8/17		12:20 Central		Water		X	
Influent (500-123652-2)		2/8/17		12:30 Central		Water		X	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.		Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 02/09/16 @ 1600		Company: TA		Received by: <i>[Signature]</i>		Date/Time: 2/9	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 2-16-17 0935	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-123652-2

Login Number: 123652

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	4.6
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").	N/A	
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: 500-123652-2

Login Number: 123652
List Number: 2
Creator: West, Derrick D

List Source: TestAmerica Nashville
List Creation: 02/10/17 12:34 PM

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.	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

