

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

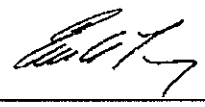
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-128233-1
Client Project/Site: Waukegan Station Permit

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 2B
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
5/30/2017 7:44:06 PM

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

MWG13-15_62744

Comp. Ex. 220I

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	9
QC Association	10
QC Sample Results	13
Chain of Custody	18
Receipt Checklists	23
Certification Summary	24

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Job ID: 500-128233-1

3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-128233-1

Comments

No additional comments.

Receipt

The samples were received on 5/17/2017 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.9° C, 2.5° C, 3.1° C and 3.2° C.

Metals

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

General Chemistry

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

Detection Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Client Sample ID: MW-09

Lab Sample ID: 500-128233-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0099		0.0025		mg/L	1			6020A	Total Recoverable
Boron	25		5.0		mg/L	100			6020A	Total Recoverable
Manganese	0.024		0.0025		mg/L	1			6020A	Total Recoverable
Selenium	0.0083		0.0025		mg/L	1			6020A	Total Recoverable
Sulfate	390		100		mg/L	20			9038	Total/NA
Chloride	68		2.0		mg/L	1			9251	Total/NA
Total Dissolved Solids	970		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.11		0.10		mg/L	1			SM 4500 F C	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 500-128233-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.0057		0.0010		mg/L	1			6020A	Total Recoverable
Barium	0.091		0.0025		mg/L	1			6020A	Total Recoverable
Boron	21		5.0		mg/L	100			6020A	Total Recoverable
Iron	6.6		0.10		mg/L	1			6020A	Total Recoverable
Manganese	0.24		0.0025		mg/L	1			6020A	Total Recoverable
Selenium	0.0043		0.0025		mg/L	1			6020A	Total Recoverable
Sulfate	390		100		mg/L	20			9038	Total/NA
Chloride	57		2.0		mg/L	1			9251	Total/NA
Total Dissolved Solids	1200		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.17		0.10		mg/L	1			SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

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4

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

5

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-128233-1	MW-09	Water	05/16/17 16:10	05/17/17 09:55
500-128233-2	MW-08	Water	05/17/17 10:49	05/18/17 09:45

6

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Client Sample ID: MW-09

Lab Sample ID: 500-128233-1

Date Collected: 05/16/17 16:10

Matrix: Water

Date Received: 05/17/17 09:55

7

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:13	1
Arsenic	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 22:13	1
Barium	0.0099		0.0025		mg/L		05/20/17 10:03	05/22/17 22:13	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 11:53	1
Boron	25		5.0		mg/L		05/20/17 10:03	05/24/17 14:35	100
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:13	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 22:13	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 22:13	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:13	1
Iron	<0.10		0.10		mg/L		05/20/17 10:03	05/22/17 22:13	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:13	1
Manganese	0.024		0.0025		mg/L		05/20/17 10:03	05/22/17 22:13	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:13	1
Selenium	0.0083		0.0025		mg/L		05/20/17 10:03	05/23/17 11:53	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:13	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:13	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 11:53	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 22:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:09	1
Sulfate	390		100		mg/L			05/26/17 09:31	20
Chloride	68		2.0		mg/L			05/24/17 20:36	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	970		10		mg/L			05/23/17 06:24	1
Fluoride	0.11		0.10		mg/L			05/20/17 18:08	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/17/17 17:31	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/23/17 03:36	1

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MWG13-15_62750

5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Client Sample ID: MW-08

Lab Sample ID: 500-128233-2

Date Collected: 05/17/17 10:49

Matrix: Water

Date Received: 05/18/17 09:45

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:16	1
Arsenic	0.0057		0.0010		mg/L		05/20/17 10:03	05/22/17 22:16	1
Barium	0.091		0.0025		mg/L		05/20/17 10:03	05/22/17 22:16	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 11:57	1
Boron	21		5.0		mg/L		05/20/17 10:03	05/24/17 14:39	100
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:16	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 22:16	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 22:16	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:16	1
Iron	6.6		0.10		mg/L		05/20/17 10:03	05/22/17 22:16	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:16	1
Manganese	0.24		0.0025		mg/L		05/20/17 10:03	05/22/17 22:16	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:16	1
Selenium	0.0043		0.0025		mg/L		05/20/17 10:03	05/23/17 11:57	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:16	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:16	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 11:57	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 22:16	1

7

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 10:33	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:10	1
Sulfate	390		100		mg/L			05/26/17 09:32	20
Chloride	57		2.0		mg/L			05/24/17 19:59	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	1200		10		mg/L			05/23/17 06:31	1
Fluoride	0.17		0.10		mg/L			05/20/17 18:19	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/18/17 12:38	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/23/17 03:37	1

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Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☐	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

8

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Metals

Prep Batch: 386098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total Recoverable	Water	3005A	
500-128233-2	MW-08	Total Recoverable	Water	3005A	
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 386300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	7470A	
500-128233-2	MW-08	Total/NA	Water	7470A	
MB 500-386300/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-386300/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 386443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total Recoverable	Water	6020A	386098
500-128233-2	MW-08	Total Recoverable	Water	6020A	386098
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	6020A	386098
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	6020A	386098

Analysis Batch: 386478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	7470A	386300
500-128233-2	MW-08	Total/NA	Water	7470A	386300
MB 500-386300/12-A	Method Blank	Total/NA	Water	7470A	386300
LCS 500-386300/13-A	Lab Control Sample	Total/NA	Water	7470A	386300

Analysis Batch: 386526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total Recoverable	Water	6020A	386098
500-128233-2	MW-08	Total Recoverable	Water	6020A	386098
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	6020A	386098
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	6020A	386098

Analysis Batch: 386731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total Recoverable	Water	6020A	386098
500-128233-2	MW-08	Total Recoverable	Water	6020A	386098
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	6020A	386098
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	6020A	386098

General Chemistry

Analysis Batch: 385625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	SM 4500 NO2 B	
MB 500-385625/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-385625/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

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9

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

General Chemistry (Continued)

Analysis Batch: 385809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-2	MW-08	Total/NA	Water	SM 4500 NO2 B	
MB 500-385809/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-385809/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Prep Batch: 386110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	9010C	
500-128233-2	MW-08	Total/NA	Water	9010C	
MB 500-386110/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-386110/2-A	Lab Control Sample	Total/NA	Water	9010C	

9

Analysis Batch: 386238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	SM 4500 F C	
500-128233-2	MW-08	Total/NA	Water	SM 4500 F C	
MB 500-386238/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-386238/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 386254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	9014	386110
500-128233-2	MW-08	Total/NA	Water	9014	386110
MB 500-386110/1-A	Method Blank	Total/NA	Water	9014	386110
LCS 500-386110/2-A	Lab Control Sample	Total/NA	Water	9014	386110

Analysis Batch: 386384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	SM 2540C	
500-128233-2	MW-08	Total/NA	Water	SM 2540C	
MB 500-386384/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-386384/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-128233-1 MS	MW-09	Total/NA	Water	SM 2540C	
500-128233-1 DU	MW-09	Total/NA	Water	SM 2540C	

Analysis Batch: 386518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	SM 4500 NO3 F	
500-128233-2	MW-08	Total/NA	Water	SM 4500 NO3 F	
MB 500-386518/4	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-386518/5	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 386749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	9251	
500-128233-2	MW-08	Total/NA	Water	9251	
MB 500-386749/12	Method Blank	Total/NA	Water	9251	
LCS 500-386749/13	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 387044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	9038	

TestAmerica Chicago

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

General Chemistry (Continued)

Analysis Batch: 387044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-2	MW-08	Total/NA	Water	9038	
MB 500-387044/3	Method Blank	Total/NA	Water	9038	
LCS 500-387044/4	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 387424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128233-1	MW-09	Total/NA	Water	Nitrate by calc	
500-128233-2	MW-08	Total/NA	Water	Nitrate by calc	

9

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-386098/1-A
Matrix: Water
Analysis Batch: 386443

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 386098

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 21:42	1
Arsenic	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 21:42	1
Barium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/22/17 21:42	1
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 21:42	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 21:42	1
Iron	<0.10		0.10		mg/L		05/20/17 10:03	05/22/17 21:42	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Manganese	<0.0025		0.0025		mg/L		05/20/17 10:03	05/22/17 21:42	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 21:42	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 21:42	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 21:42	1

10

Lab Sample ID: MB 500-386098/1-A
Matrix: Water
Analysis Batch: 386526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 386098

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 11:45	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 11:45	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 11:45	1

Lab Sample ID: MB 500-386098/1-A
Matrix: Water
Analysis Batch: 386731

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 386098

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/20/17 10:03	05/24/17 14:25	1

Lab Sample ID: LCS 500-386098/2-A
Matrix: Water
Analysis Batch: 386443

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 386098

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.548		mg/L		110	80 - 120
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.564		mg/L		113	80 - 120
Cadmium	0.0500	0.0562		mg/L		112	80 - 120
Chromium	0.200	0.217		mg/L		109	80 - 120
Cobalt	0.500	0.539		mg/L		108	80 - 120
Copper	0.250	0.285		mg/L		114	80 - 120
Iron	1.00	1.10		mg/L		110	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Manganese	0.500	0.541		mg/L		108	80 - 120
Nickel	0.500	0.548		mg/L		110	80 - 120
Silver	0.0500	0.0569		mg/L		114	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-386098/2-A				Client Sample ID: Lab Control Sample				
Matrix: Water				Prep Type: Total Recoverable				
Analysis Batch: 386443				Prep Batch: 386098				
				%Rec.				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Zinc	0.500	0.576		mg/L		115	80 - 120	

Lab Sample ID: LCS 500-386098/2-A				Client Sample ID: Lab Control Sample				
Matrix: Water				Prep Type: Total Recoverable				
Analysis Batch: 386526				Prep Batch: 386098				
				%Rec.				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Beryllium	0.0500	0.0539		mg/L		108	80 - 120	
Selenium	0.100	0.111		mg/L		111	80 - 120	
Vanadium	0.500	0.529		mg/L		106	80 - 120	

Lab Sample ID: LCS 500-386098/2-A				Client Sample ID: Lab Control Sample				
Matrix: Water				Prep Type: Total Recoverable				
Analysis Batch: 386731				Prep Batch: 386098				
				%Rec.				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Boron	1.00	1.07		mg/L		107	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-386300/12-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 386478				Prep Batch: 386300					
				%Rec.					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 10:03	1

Lab Sample ID: LCS 500-386300/13-A				Client Sample ID: Lab Control Sample				
Matrix: Water				Prep Type: Total/NA				
Analysis Batch: 386478				Prep Batch: 386300				
				%Rec.				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Mercury	0.00200	0.00227		mg/L		113	80 - 120	

Method: 9014 - Cyanide

Lab Sample ID: MB 500-386110/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 386254				Prep Batch: 386110					
				%Rec.					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:05	1

Lab Sample ID: LCS 500-386110/2-A				Client Sample ID: Lab Control Sample				
Matrix: Water				Prep Type: Total/NA				
Analysis Batch: 386254				Prep Batch: 386110				
				%Rec.				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total	0.100	0.0983		mg/L		98	80 - 120	

TestAmerica Chicago

10

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-387044/3
Matrix: Water
Analysis Batch: 387044

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	<5.0		5.0		mg/L			05/26/17 09:16	1

Lab Sample ID: LCS 500-387044/4
Matrix: Water
Analysis Batch: 387044

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Sulfate	20.0	20.7		mg/L		103	80 - 120

Method: 9251 - Chloride

Lab Sample ID: MB 500-386749/12
Matrix: Water
Analysis Batch: 386749

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<2.0		2.0		mg/L			05/24/17 19:45	1

Lab Sample ID: LCS 500-386749/13
Matrix: Water
Analysis Batch: 386749

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	50.0	51.6		mg/L		103	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-386384/1
Matrix: Water
Analysis Batch: 386384

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10		mg/L			05/23/17 06:19	1

Lab Sample ID: LCS 500-386384/2
Matrix: Water
Analysis Batch: 386384

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Total Dissolved Solids	250	290		mg/L		116	80 - 120

Lab Sample ID: 500-128233-1 MS
Matrix: Water
Analysis Batch: 386384

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Total Dissolved Solids	970		250	1250		mg/L		110	75 - 125

TestAmerica Chicago

10

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 500-128233-1 DU						Client Sample ID: MW-09			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 386384									
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	
Total Dissolved Solids	970		936		mg/L		4	5	

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-386238/31						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 386238									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/20/17 17:16	1

Lab Sample ID: LCS 500-386238/32						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 386238									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	10.0	9.76		mg/L		98	80 - 120		

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-385625/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 385625									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/17/17 17:20	1

Lab Sample ID: LCS 500-385625/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 385625									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Nitrite	0.100	0.105		mg/L		105	80 - 120		

Lab Sample ID: MB 500-385809/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 385809									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/18/17 12:35	1

Lab Sample ID: LCS 500-385809/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 385809									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Nitrite	0.100	0.106		mg/L		106	80 - 120		

TestAmerica Chicago

10

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-386518/4
 Matrix: Water
 Analysis Batch: 386518

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/23/17 02:55	1

Lab Sample ID: LCS 500-386518/5
 Matrix: Water
 Analysis Batch: 386518

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Nitrogen, Nitrate Nitrite	1.00	1.09		mg/L		109	80 - 120

10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 60484
708-534-5200
Fax: 708-534-5211

Report To:	Bill To:	Lab Lot # 500-128233
Contact: Rich Gnat	Contact:	Package Sealed Yes No
Company: KPRG & Associates Inc.	Company: Nrg	Samples Sealed Yes No
Address: 14866 W. Lilabon Rd. Suite 2B	Address:	Received on Ice Yes No
Brookfield, WI, 53005		Samples Intact Yes No N/A
Phone: 282-781-0475	Phone:	Temperature °C of Cooler 0.4 → 1.9
Fax:	Fax:	
Email:	PO #: 4501754865	

Sampler Name: Ian John Howieson	Client Project # 12313.2	Refr #										Within Hold Time Yes No	Preserv. Indicated Yes No N/A
Project Name: Waukegan Station Permit	TestAmerica Project Number: 50004763	Volume										pH Check OK Yes No	Check OK Res CL, CI Yes No N/A
Project Location: Waukegan, IL	Date Required	Preserv.	7									Sample Labels and COC Agree Yes No COC not present	
Lab PM: Eric Lang	Hard Copy:	Matrix										Additional Analyses / Remarks	
Lab PM: Eric Lang	Fax:	# of Containers											
MS-100	Client Sample ID	Sampling Date Time	Matrix	# of Containers	Total NO2								
	MW-09	5-16-17 16:10	W	1	X								
			W										
			W										
			W										
NB N			W										
			W										
			W										
			W										
			W										
			W										
			W										



500-128233 COC

RELINQUISHED BY: ISA	COMPANY: KPRG	DATE: 5-16-17	TIME: 18:40	RECEIVED BY: FOX	COMPANY:	DATE:	TIME:
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY: Jenny	COMPANY: TAKE	DATE: 05/17/17	TIME: PASS

- | | | |
|--|---|---|
| Matrix Key | Container Key | Preservative Key |
| WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air | SE = Sediment
SO = Solid
DL = Drum Liquid
DS = Drum Solid
L = Leachate
W = Wipe
O = | 1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other
7. None |
| | | 1. HCl, Cool to 4°
2. H ₂ SO ₄ , Cool to 4°
3. HNO ₃ , Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None |

COMMENTS:	Date Received 05/17/17
	Courier: FX STD
	Hand Delivered <input type="checkbox"/>
	Bill of Lading:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Chicago
 2417 Bond St.
 University Park, IL 60484
 708-534-5200
 Fax: 708-534-5211

Report To:		Bill To:	
Contact: Rich Gnat	Company: KPRG & Associates Inc.		Contact:
Address: 14685 W. Lilsbon Rd. Suite 2B	Address: Brookfield, WI, 53005		Company: Nrg
Phone: 262-781-0475	Phone:		Address:
Fax:	Fax:		Temperature °C of Cooler
Email:	PO #: 4501754865		2.4-725

Lab Lot # **500-128233**

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
With Hold Time	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Preserv. Indicated	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
pH Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Check OK Res CL, Cr	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC present	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Sampler Name: Jan John Howieson		Client Project # 12313.2		Refrg # # / Cont.													
Project Name: Waukegan Station Permit		TestAmerica Project Number: 50004763		Volume													
Project Location: Waukegan, IL		Date Required		Preserv.													
Lab PM: Eric Lang		Hard Copy: / /		Fax: / /													
Laboratory ID	WE-HRD	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	Total NO2										
Z		MW-08	5-17-17	10:49	W	1	X										
					W												
					W												
NB N					W												
					W												
					W												
					W												
					W												
					W												
					W												
					W												
					W												



500-128233 COC

RELINQUISHED BY: IJH	COMPANY: KPRG	DATE: 5-17-17	TIME: 16:00	RECEIVED BY: FedEx	COMPANY:	DATE:	TIME:
RELINQUISHED BY: IJH	COMPANY:	DATE:	TIME:	RECEIVED BY: Devi Sanku	COMPANY: TAAME	DATE: 05/18/17	TIME: 09:45

- | | | |
|--|---|--|
| Matrix Key | Container Key | Preservative Key |
| WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air | SE = Sediment
SO = Solid
DL = Drum Liquid
DS = Drum Solid
L = Leachate
W = Wipe
O = | 1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other
7. None |

COMMENTS:

Date Received **05/18/17**

Courier:

Hand Delivered

Bill of Lading: **EX STD**

PAGE **1** of **2**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Chicago
 2417 Bond St.
 University Park, IL 60484
 708-534-5200
 Fax: 708-534-5211

Report To: Contact: Rich Gnat Company: KPRG & Associates Inc. Address: 14665 W. Lisbon Rd. Suite 2B Brookfield, WI, 53005 Phone: 262-781-0475 Fax: Email:	Bill To: Contact: Company: Nrg Address: Phone: Fax: PO #: 4501754865	Lab Lot # 500-128233 Package Sealed Yes No Samples Sealed Yes No Received on Ice Yes No Samples Intact Yes No N/A Temperature °C of Cooler 3.0731, 32.733
---	---	---

Sampler Name: Ian John Howleson		Client Project # 12313.2		Refrg #		# / Cont.		Within Hold Time Yes No		Preserv. Indicated Yes No N/A			
Project Name: Waukegan Station Permit		TestAmerica Project Number: 50004763		Volume		Preserv.		pH Check OK Yes No		Check OK Res CL₂ Check Yes No N/A			
Project Location: Waukegan, IL		Date Required Hard Copy: / /		Matrix		# of Containers		Metals Total		Sample Labels and COC Agree Yes No COC not present			
Lab PM: Eric Lang		Fax: / /		Cl, TDS, SO₄, FI Total		NO₂ Total		NO₃ - NO₂ Total		Cyanide Total			
Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	Metals Total	Cl, TDS, SO₄, FI Total	NO₂ Total	NO₃ - NO₂ Total	Cyanide Total	Radium 226/228	Additional Analyses / Remarks
2		MW-08	5-17-17	10:49	W	7	X	X	X	X	X	X	
1		MW-09	5-16-17	16:10	W	7	X	X	X	X	X	X	
NB N													



RELINQUISHED BY: I-JH	COMPANY: KPRG	DATE: 5-18-17	TIME: 16:15	RECEIVED BY: Shawn Smith	COMPANY: TA-CHT	DATE: 5/18/17	TIME: 16:15
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

- | | | |
|--|---|--|
| Matrix Key | Container Key | Preservative Key |
| WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air | SE = Sediment
SO = Solid
DL = Drum Liquid
DS = Drum Solid
L = Leachate
W = Wipe
O = | 1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other
7. None |
| | | 1. HCl, Cool to 4°
2. H ₂ SO ₄ , Cool to 4°
3. HNO ₃ , Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4° |

COMMENTS:	Date Received: / /
	Courier:
	Hand Delivered <input type="checkbox"/>
	Bill of Lading:

ORIGIN ID: FEPA (830) 325-1300
IAY JOHN HOWLSON
414 PLAZA DR STE 106
WESTMONT IL 60558
UNITED STATES US

SHIP DATE: 16MAY17
ACTWT: 28.40 LB
CAD: 006884083/86FE1801
DIMS: 18x11x14 IN
BILL THIRD PARTY

Part # 166207-205 FIVE STAR EXP CO 10 200

TO **ERIC LANG**
TESTAMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

DEPT:



FedEx
Express



WED. - 17 MAY 3:00P
STANDARD OVERNIGHT

IRK 7865 9333 0452
0201

79 JOTA

60484

IL-US ORD



500-128233 Waybill

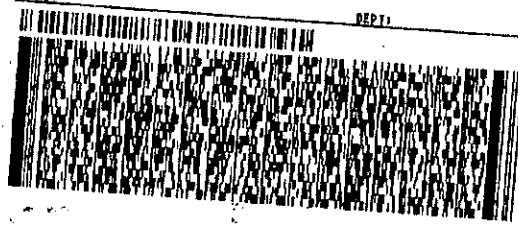
ORIGIN ID: FEPA (630) 325-1300
IAN JOHN HORTGSON
414 PLAZA DR STE 108
WESTMONT, IL 60558
UNITED STATES US

SHIP DATE: 17MAY17
ACTWGT: 26.10 LB
CAD: 008894083/68FE1801
DIM: 15x12x13 IN
BILL THIRD PARTY

TO ERIC LANG
TESTAMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200
REF:



TRK# 7866 0394 4633
0201

THU - 18 MAY 3:00P
STANDARD OVERNIGHT

79 JOTA

60484
IL-US ORD



Printed on 12/28/17 12:58:13 PM EST



500-128233 Waybill

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-128233-1

Login Number: 128233
 List Number: 1
 Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9, 2.5, 3.1, 3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

12

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station Permit

TestAmerica Job ID: 500-128233-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18