

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls

704 Enterprise Drive

Cedar Falls, IA 50613

Tel: 800-750-2401

TestAmerica Job ID: CVK0169

Client Project/Site: UST

Client Project Description: AGRILAND FS - KNOXVILLE, IA

For:

CARBERRY ENVIRONMENTAL

943 Cottonwood Avenue

Iowa City, IA 52240

Attn: Bill Carberry



Authorized for release by:

11/13/2012 11:09:10 AM

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

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Sample Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
CVK0169-01	MW-16	Ground Water	11/01/12 13:15	11/02/12 09:22
CVK0169-02	MW-18	Ground Water	11/01/12 13:30	11/02/12 09:22
CVK0169-03	MW-22	Ground Water	11/01/12 12:05	11/02/12 09:22
CVK0169-04	MW-23	Ground Water	11/01/12 12:30	11/02/12 09:22

Detection Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Client Sample ID: MW-16

Lab Sample ID: CVK0169-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	465		2.00		ug/L	1.00		OA-1 - 8021B	Total
Toluene	19.2		2.00		ug/L	1.00		OA-1 - 8021B	Total
Ethylbenzene	201		2.00		ug/L	1.00		OA-1 - 8021B	Total
Xylenes, total	653		3.00		ug/L	1.00		OA-1 - 8021B	Total
Total Extractable Hydrocarbons	23400		333		ug/L	1.00		OA-2 - 8015B	Total
Diesel	14500		333		ug/L	1.00		OA-2 - 8015B	Total
Gasoline	7470		333		ug/L	1.00		OA-2 - 8015B	Total
Motor Oil	1400	Q	333		ug/L	1.00		OA-2 - 8015B	Total

Client Sample ID: MW-18

Lab Sample ID: CVK0169-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2380		20.0		ug/L	10.0		OA-1 - 8021B	Total
Toluene	91.0		20.0		ug/L	10.0		OA-1 - 8021B	Total
Ethylbenzene	824		20.0		ug/L	10.0		OA-1 - 8021B	Total
Xylenes, total	2140		30.0		ug/L	10.0		OA-1 - 8021B	Total
Total Extractable Hydrocarbons	20200		341		ug/L	1.00		OA-2 - 8015B	Total
Diesel	7800		341		ug/L	1.00		OA-2 - 8015B	Total
Gasoline	11300		341		ug/L	1.00		OA-2 - 8015B	Total
Motor Oil	1130	Q	341		ug/L	1.00		OA-2 - 8015B	Total

Client Sample ID: MW-22

Lab Sample ID: CVK0169-03

No Detections

Client Sample ID: MW-23

Lab Sample ID: CVK0169-04

No Detections

Client Sample Results

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Client Sample ID: MW-16

Date Collected: 11/01/12 13:15

Date Received: 11/02/12 09:22

Sampler Name: Bill Carberry

Lab Sample ID: CVK0169-01

Matrix: Ground Water

Sampler Phone Number: (319) 338-6768

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<2.00		2.00		units		11/09/12 15:10	11/09/12 15:12	1.00

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	465		2.00		ug/L		11/08/12 00:08	11/09/12 07:03	1.00
Toluene	19.2		2.00		ug/L		11/08/12 00:08	11/09/12 07:03	1.00
Ethylbenzene	201		2.00		ug/L		11/08/12 00:08	11/09/12 07:03	1.00
Xylenes, total	653		3.00		ug/L		11/08/12 00:08	11/09/12 07:03	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	198	ZX	55 - 130	11/08/12 00:08	11/09/12 07:03	1.00

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Extractable Hydrocarbons	23400		333		ug/L		11/02/12 13:31	11/05/12 20:47	1.00
Diesel	14500		333		ug/L		11/02/12 13:31	11/05/12 20:47	1.00
Gasoline	7470		333		ug/L		11/02/12 13:31	11/05/12 20:47	1.00
Motor Oil	1400	Q	333		ug/L		11/02/12 13:31	11/05/12 20:47	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Octacosane	124		45 - 140	11/02/12 13:31	11/05/12 20:47	1.00

Client Sample Results

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Client Sample ID: MW-18

Lab Sample ID: CVK0169-02

Date Collected: 11/01/12 13:30

Matrix: Ground Water

Date Received: 11/02/12 09:22

Sampler Name: Bill Carberry

Sampler Phone Number: (319) 338-6768

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<2.00		2.00		units		11/09/12 15:10	11/09/12 15:12	1.00

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2380		20.0		ug/L		11/08/12 00:08	11/09/12 08:04	10.0
Toluene	91.0		20.0		ug/L		11/08/12 00:08	11/09/12 08:04	10.0
Ethylbenzene	824		20.0		ug/L		11/08/12 00:08	11/09/12 08:04	10.0
Xylenes, total	2140		30.0		ug/L		11/08/12 00:08	11/09/12 08:04	10.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	35	ZX	55 - 130	11/08/12 00:08	11/09/12 08:04	10.0

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Extractable Hydrocarbons	20200		341		ug/L		11/02/12 13:31	11/05/12 21:29	1.00
Diesel	7800		341		ug/L		11/02/12 13:31	11/05/12 21:29	1.00
Gasoline	11300		341		ug/L		11/02/12 13:31	11/05/12 21:29	1.00
Motor Oil	1130	Q	341		ug/L		11/02/12 13:31	11/05/12 21:29	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Octacosane	112		45 - 140	11/02/12 13:31	11/05/12 21:29	1.00

Client Sample Results

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Client Sample ID: MW-22

Date Collected: 11/01/12 12:05

Date Received: 11/02/12 09:22

Sampler Name: Bill Carberry

Lab Sample ID: CVK0169-03

Matrix: Ground Water

Sampler Phone Number: (319) 338-6768

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<2.00		2.00		units		11/09/12 15:10	11/09/12 15:12	1.00

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00		2.00		ug/L		11/08/12 00:08	11/09/12 01:26	1.00
Toluene	<2.00		2.00		ug/L		11/08/12 00:08	11/09/12 01:26	1.00
Ethylbenzene	<2.00		2.00		ug/L		11/08/12 00:08	11/09/12 01:26	1.00
Xylenes, total	<3.00		3.00		ug/L		11/08/12 00:08	11/09/12 01:26	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		55 - 130	11/08/12 00:08	11/09/12 01:26	1.00

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Extractable Hydrocarbons	<300		300		ug/L		11/02/12 13:31	11/05/12 22:11	1.00
Diesel	<300		300		ug/L		11/02/12 13:31	11/05/12 22:11	1.00
Gasoline	<300		300		ug/L		11/02/12 13:31	11/05/12 22:11	1.00
Motor Oil	<300		300		ug/L		11/02/12 13:31	11/05/12 22:11	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Octacosane	130		45 - 140	11/02/12 13:31	11/05/12 22:11	1.00

Client Sample Results

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Client Sample ID: MW-23

Date Collected: 11/01/12 12:30

Date Received: 11/02/12 09:22

Sampler Name: Bill Carberry

Lab Sample ID: CVK0169-04

Matrix: Ground Water

Sampler Phone Number: (319) 338-6768

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<2.00		2.00		units		11/09/12 15:10	11/09/12 15:12	1.00

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00		2.00		ug/L		11/08/12 00:08	11/09/12 01:57	1.00
Toluene	<2.00		2.00		ug/L		11/08/12 00:08	11/09/12 01:57	1.00
Ethylbenzene	<2.00		2.00		ug/L		11/08/12 00:08	11/09/12 01:57	1.00
Xylenes, total	<3.00		3.00		ug/L		11/08/12 00:08	11/09/12 01:57	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		55 - 130	11/08/12 00:08	11/09/12 01:57	1.00

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Extractable Hydrocarbons	<300		300		ug/L		11/02/12 13:31	11/05/12 22:54	1.00
Diesel	<300		300		ug/L		11/02/12 13:31	11/05/12 22:54	1.00
Gasoline	<300		300		ug/L		11/02/12 13:31	11/05/12 22:54	1.00
Motor Oil	<300		300		ug/L		11/02/12 13:31	11/05/12 22:54	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Octacosane	128		45 - 140	11/02/12 13:31	11/05/12 22:54	1.00

Surrogate Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Matrix: Ground Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB (55-130)					
CVK0169-01	MW-16	198 ZX					
CVK0169-02	MW-18	35 ZX					
CVK0169-03	MW-22	87					
CVK0169-04	MW-23	87					
Surrogate Legend							
BFB = 4-Bromofluorobenzene							

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Matrix: Water - NonPotable

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB (55-130)					
12K0558-BLK1	Method Blank	88					
Surrogate Legend							
BFB = 4-Bromofluorobenzene							

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Matrix: Water - NonPotable

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB (85-125)					
12K0558-BS1	Lab Control Sample	97					
12K0558-MS1	Matrix Spike	95					
12K0558-MSD1	Matrix Spike Duplicate	96					
Surrogate Legend							
BFB = 4-Bromofluorobenzene							

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Matrix: Ground Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Octacosane (45-140)					
CVK0169-01	MW-16	124					
CVK0169-02	MW-18	112					
CVK0169-03	MW-22	130					
CVK0169-04	MW-23	128					
Surrogate Legend							
Octacosane = Octacosane							

Surrogate Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Matrix: Water - NonPotable

Prep Type: Total

			Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Octacosane (45-140)						
12K0118-BLK1	Method Blank	103						
Surrogate Legend								
Octacosane = Octacosane								

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Matrix: Water - NonPotable

Prep Type: Total

			Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Octacosane (55-145)						
12K0118-BS1	Lab Control Sample	89						
12K0118-BSD1	Lab Control Sample Dup	95						
Surrogate Legend								
Octacosane = Octacosane								

QC Sample Results

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Method: OA-1 - 8021B - UST Volatile Compounds by GC

Lab Sample ID: 12K0558-BLK1

Matrix: Water - NonPotable

Analysis Batch: 12K0558

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 12K0558_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00		2.00		ug/L		11/08/12 00:08	11/08/12 20:59	1.00
Toluene	<2.00		2.00		ug/L		11/08/12 00:08	11/08/12 20:59	1.00
Ethylbenzene	<2.00		2.00		ug/L		11/08/12 00:08	11/08/12 20:59	1.00
Xylenes, total	<3.00		3.00		ug/L		11/08/12 00:08	11/08/12 20:59	1.00
Surrogate	Blank %Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		55 - 130				11/08/12 00:08	11/08/12 20:59	1.00

Lab Sample ID: 12K0558-BS1

Matrix: Water - NonPotable

Analysis Batch: 12K0558

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 12K0558_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	100		ug/L		100	45 - 120
Toluene	100	102		ug/L		102	65 - 115
Ethylbenzene	100	103		ug/L		103	65 - 130
Xylenes, total	300	310		ug/L		103	65 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	97		85 - 125				

Lab Sample ID: 12K0558-MS1

Matrix: Water - NonPotable

Analysis Batch: 12K0558

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 12K0558_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0807		100	92.1		ug/L		92	40 - 120
Toluene	0.238		100	92.6		ug/L		92	65 - 120
Ethylbenzene	0.182		100	92.2		ug/L		92	65 - 125
Xylenes, total	0.681		300	274		ug/L		91	65 - 130
Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits						
4-Bromofluorobenzene	95		85 - 125						

Lab Sample ID: 12K0558-MSD1

Matrix: Water - NonPotable

Analysis Batch: 12K0558

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 12K0558_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.0807		100	92.5		ug/L		92	40 - 120	0.4	15
Toluene	0.238		100	93.0		ug/L		93	65 - 120	0.5	10
Ethylbenzene	0.182		100	92.6		ug/L		92	65 - 125	0.4	10
Xylenes, total	0.681		300	275		ug/L		92	65 - 130	0.5	10
Surrogate	Matrix Spike Dup %Recovery	Matrix Spike Dup Qualifier	Limits								
4-Bromofluorobenzene	96		85 - 125								

QC Sample Results

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Method: OA-2 - 8015B - UST ANALYSIS PARAMETERS

Lab Sample ID: 12K0118-BLK1

Matrix: Water - NonPotable

Analysis Batch: V002023

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 12K0118_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<300		300		ug/L		11/02/12 13:31	11/05/12 13:47	1.00
Gasoline	<300		300		ug/L		11/02/12 13:31	11/05/12 13:47	1.00
Motor Oil	<300		300		ug/L		11/02/12 13:31	11/05/12 13:47	1.00
Surrogate	Blank %Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
Octacosane	103		45 - 140				11/02/12 13:31	11/05/12 13:47	1.00

Lab Sample ID: 12K0118-BS1

Matrix: Water - NonPotable

Analysis Batch: V002023

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 12K0118_P

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline		2000	683		ug/L		34	10 - 90	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Octacosane	89		55 - 145						

Lab Sample ID: 12K0118-BSD1

Matrix: Water - NonPotable

Analysis Batch: V002023

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 12K0118_P

Analyte		Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline		2000	660		ug/L		33	10 - 90	3	35
Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits							
Octacosane	95		55 - 145							

QC Association Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

GCMS Volatiles

Analysis Batch: 12K0480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CVK0169-01	MW-16	Total	Ground Water	SW 9041A	12K0480_P
CVK0169-02	MW-18	Total	Ground Water	SW 9041A	12K0480_P
CVK0169-03	MW-22	Total	Ground Water	SW 9041A	12K0480_P
CVK0169-04	MW-23	Total	Ground Water	SW 9041A	12K0480_P

Prep Batch: 12K0480_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CVK0169-01	MW-16	Total	Ground Water	Default Prep VOC	
CVK0169-02	MW-18	Total	Ground Water	Default Prep VOC	
CVK0169-03	MW-22	Total	Ground Water	Default Prep VOC	
CVK0169-04	MW-23	Total	Ground Water	Default Prep VOC	

GC Volatiles

Analysis Batch: 12K0558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12K0558-BLK1	Method Blank	Total	Water - NonPotable	OA-1 - 8021B	12K0558_P
12K0558-BS1	Lab Control Sample	Total	Water - NonPotable	OA-1 - 8021B	12K0558_P
12K0558-MS1	Matrix Spike	Total	Water - NonPotable	OA-1 - 8021B	12K0558_P
12K0558-MSD1	Matrix Spike Duplicate	Total	Water - NonPotable	OA-1 - 8021B	12K0558_P
CVK0169-01	MW-16	Total	Ground Water	OA-1 - 8021B	12K0558_P
CVK0169-02	MW-18	Total	Ground Water	OA-1 - 8021B	12K0558_P
CVK0169-03	MW-22	Total	Ground Water	OA-1 - 8021B	12K0558_P
CVK0169-04	MW-23	Total	Ground Water	OA-1 - 8021B	12K0558_P

Prep Batch: 12K0558_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12K0558-BLK1	Method Blank	Total	Water - NonPotable	SW 5030B GC	
12K0558-BS1	Lab Control Sample	Total	Water - NonPotable	SW 5030B GC	
12K0558-MS1	Matrix Spike	Total	Water - NonPotable	SW 5030B GC	
12K0558-MSD1	Matrix Spike Duplicate	Total	Water - NonPotable	SW 5030B GC	
CVK0169-01	MW-16	Total	Ground Water	SW 5030B GC	
CVK0169-02	MW-18	Total	Ground Water	SW 5030B GC	
CVK0169-03	MW-22	Total	Ground Water	SW 5030B GC	
CVK0169-04	MW-23	Total	Ground Water	SW 5030B GC	

GC Semivolatiles

Analysis Batch: V002023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12K0118-BLK1	Method Blank	Total	Water - NonPotable	OA-2 - 8015B	12K0118_P

QC Association Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

GC Semivolatiles (Continued)

Analysis Batch: V002023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12K0118-BS1	Lab Control Sample	Total	Water -	OA-2 - 8015B	12K0118_P
			NonPotable		
12K0118-BSD1	Lab Control Sample Dup	Total	Water -	OA-2 - 8015B	12K0118_P
			NonPotable		
CVK0169-01	MW-16	Total	Ground Water	OA-2 - 8015B	12K0118_P
CVK0169-02	MW-18	Total	Ground Water	OA-2 - 8015B	12K0118_P
CVK0169-03	MW-22	Total	Ground Water	OA-2 - 8015B	12K0118_P
CVK0169-04	MW-23	Total	Ground Water	OA-2 - 8015B	12K0118_P

Prep Batch: 12K0118_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12K0118-BLK1	Method Blank	Total	Water -	SW 3510C GC	
			NonPotable		
12K0118-BS1	Lab Control Sample	Total	Water -	SW 3510C GC	
			NonPotable		
12K0118-BSD1	Lab Control Sample Dup	Total	Water -	SW 3510C GC	
			NonPotable		
CVK0169-01	MW-16	Total	Ground Water	SW 3510C GC	
CVK0169-02	MW-18	Total	Ground Water	SW 3510C GC	
CVK0169-03	MW-22	Total	Ground Water	SW 3510C GC	
CVK0169-04	MW-23	Total	Ground Water	SW 3510C GC	

Lab Chronicle

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Client Sample ID: MW-16

Date Collected: 11/01/12 13:15

Date Received: 11/02/12 09:22

Lab Sample ID: CVK0169-01

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.00	12K0480_P	11/09/12 15:10	FMK	TAL CF
Total	Analysis	SW 9041A		1.00	12K0480	11/09/12 15:12	FMK	TAL CF
Total	Prep	SW 5030B GC		1.00	12K0558_P	11/08/12 00:08	CMM	TAL CF
Total	Analysis	OA-1 - 8021B		1.00	12K0558	11/09/12 07:03	CMM	TAL CF
Total	Prep	SW 3510C GC		1.11	12K0118_P	11/02/12 13:31	EEE	TAL CF
Total	Analysis	OA-2 - 8015B		1.00	V002023	11/05/12 20:47	KKD	TAL CF

Client Sample ID: MW-18

Date Collected: 11/01/12 13:30

Date Received: 11/02/12 09:22

Lab Sample ID: CVK0169-02

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.00	12K0480_P	11/09/12 15:10	FMK	TAL CF
Total	Analysis	SW 9041A		1.00	12K0480	11/09/12 15:12	FMK	TAL CF
Total	Prep	SW 5030B GC		1.00	12K0558_P	11/08/12 00:08	CMM	TAL CF
Total	Analysis	OA-1 - 8021B		10.0	12K0558	11/09/12 08:04	CMM	TAL CF
Total	Prep	SW 3510C GC		1.14	12K0118_P	11/02/12 13:31	EEE	TAL CF
Total	Analysis	OA-2 - 8015B		1.00	V002023	11/05/12 21:29	KKD	TAL CF

Client Sample ID: MW-22

Date Collected: 11/01/12 12:05

Date Received: 11/02/12 09:22

Lab Sample ID: CVK0169-03

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.00	12K0480_P	11/09/12 15:10	FMK	TAL CF
Total	Analysis	SW 9041A		1.00	12K0480	11/09/12 15:12	FMK	TAL CF
Total	Prep	SW 5030B GC		1.00	12K0558_P	11/08/12 00:08	CMM	TAL CF
Total	Analysis	OA-1 - 8021B		1.00	12K0558	11/09/12 01:26	CMM	TAL CF
Total	Prep	SW 3510C GC		1.10	12K0118_P	11/02/12 13:31	EEE	TAL CF
Total	Analysis	OA-2 - 8015B		1.00	V002023	11/05/12 22:11	KKD	TAL CF

Client Sample ID: MW-23

Date Collected: 11/01/12 12:30

Date Received: 11/02/12 09:22

Lab Sample ID: CVK0169-04

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.00	12K0480_P	11/09/12 15:10	FMK	TAL CF
Total	Analysis	SW 9041A		1.00	12K0480	11/09/12 15:12	FMK	TAL CF
Total	Prep	SW 5030B GC		1.00	12K0558_P	11/08/12 00:08	CMM	TAL CF
Total	Analysis	OA-1 - 8021B		1.00	12K0558	11/09/12 01:57	CMM	TAL CF
Total	Prep	SW 3510C GC		1.10	12K0118_P	11/02/12 13:31	EEE	TAL CF
Total	Analysis	OA-2 - 8015B		1.00	V002023	11/05/12 22:54	KKD	TAL CF

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL 800-750-2401

Definitions/Glossary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Qualifiers

GC Volatiles

Qualifier	Qualifier Description
ZX	Due to sample matrix effects, the surrogate recovery was outside the control limits.

GC Semivolatiles

Qualifier	Qualifier Description
Q	Poor chromatographic match to standard.

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Certification Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Laboratory: TestAmerica Cedar Falls

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

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA - LAP	IHLAP		101044	11-01-14
Illinois	NELAC	5	200024	11-29-12
Iowa	State Program	7	7	12-01-13
Kansas	NELAC	7	E-10341	01-31-13
Minnesota	NELAC	5	019-999-319	12-31-12
North Dakota	State Program	8	R-186	09-29-13
Oregon	NELAC	10	IA100001	09-29-13
Wisconsin	State Program	5	999917270	08-31-13

Method Summary

Client: CARBERRY ENVIRONMENTAL
Project/Site: UST

TestAmerica Job ID: CVK0169

Method	Method Description	Protocol	Laboratory
SW 9041A	VOC Preservation Check		TAL CF
OA-1 - 8021B	UST Volatile Compounds by GC		TAL CF
OA-2 - 8015B	UST ANALYSIS PARAMETERS		TAL CF

Protocol References:

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL 800-750-2401

**Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613**

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

**To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?**
Compliance Monitoring

Client Name:

Client #: _____

Address:

943 Cottonwood Ave

City/State/Zip Code:

CITY IA 52240

Project Manager:

Bill Cappelletti

Email Address:

billcarberry@mchsi.com

Telephone Number:

319 338 6768 / Fax:

Sampler Name: (Print Name)

Bill Carberg

Sampler Signature:

TAT Standard		Date Needed:	Fax Results:	Email Results:	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	SL - Sludge GW - Groundwater S - Soil/Solid	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	REMARKS
☒	Rush (surcharges may apply)		Y N	(Y) N	mW-16	11/01/12	1315 G	-	-	GW		3				-		✓
☒					mW-18	"	1330 G	-	-	GW		3				-		✓
☒					mW-22	"	1205 G	-	-	GW		3				-		✓
☒					mW-23	"	1130 G	-	-	GW		3				-		✓
C																		

Level 1 ☒ None ☒
 Level 2 ☐ (Batch QC)
 Level 3 ☐
 Level 4 ☐
 Other: _____

CA-1 No mTB
CA-2

Special Instructions:
DO NOT RETURN COVER TO ~~CAROL~~ RECYCLE OF DISEASE
DENSE COVER

Relinquished By:	Date: 11/01/12	Received By:	Date: 11/01/12
Relinquished By:	Date:	Received By:	Date:
Relinquished By:	Date:	Received By:	Date:

TAL-0033 (0708)

Sample Receipt and Temperature Log Form

Client: Carberry ENV. Project: _____

City: _____

Date: 11-2-12 Receiver's Initials: CH Time (Delivered): 9:22

Temperature Record:

Cooler ID# (If Applicable)
Styro

3.8 °C / On Ice

Thermometer:

- ☒ IR - 111531565 'D'
- ☐ IR - 111531506 'E'
- ☐ IR - 61854108 'Front'
- ☐ 101681126

Courier:

☐ UPS	☐ TA Courier
☒ FedEx	☐ TA Field Services
☐ FedEx Ground	☐ Client
☐ US Postal Service	☐ Other
☐ Spee-Dee	

☐ Temp Blank → NW-16 amber

☐ Temperature out of compliance

Custody seals present?

☒ Yes

Custody seals intact?

☒ Yes ☐ No

☐ Non-Conformance report started

Exceptions Noted

- ☐ Sample(s) not received in a cooler.
- ☐ Samples(s) received same day of sampling.
- ☐ Evidence of a chilling process
- ☐ No Temp. Blank. Inside temperature of cooler recorded.
- ☐ Temperature not taken:

*Refer to SOP CF-SS-01 for Temperature Criteria