



The Complete Solution

ENVIRONMENTAL SITE CHECK

**W&H COOP
NORTH 16TH AVE. AND NORTH 11TH ST.
HUMBOLDT, IA**

by
Seneca Companies

A handwritten signature in black ink, appearing to read "Andrew Carver", is written over a horizontal line.

Andrew Carver, CGP #2106
Project Manager

November 18, 2021

Seneca Project No. 6363077

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**Site Check Report
W&H Coop
Humboldt, IA**

Introduction:

This report summarizes the data, observations, and conclusions of the atmospheric monitoring and sampling conducted at the above-referenced site through November 2021. Per IDNR request, the site is being monitored on a semi-annual basis at this time. In June 2019, Seneca was retained by W&H Coop to complete required monthly Site Monitoring Events at the site required by the Iowa Department of Natural Resources (IDNR) in a letter dated June 3, 2019. The September site visit consisted of collecting one water sample and one vapor sample from the impacted 16th Ave North storm sewer located directly south of the site. Additionally, a groundwater sample was collected from monitoring well MW12 for comparison to historic groundwater concentrations. The intention of the work is to monitor contamination which has migrated to the storm sewer.

MODULE I. Site History:

The subject property is a bulk fuel storage and sales facility and owned and operated by W&H Cooperative. Contamination at the site stems from a 1994 release from the former UST piping system located at the site. Contamination was confirmed through soil and groundwater testing completed in 1994. During this time, gasoline product and vapors were documented in the existing storm sewer line south of the site. The storm sewer was subsequently replaced with an 18" High Density Poly-Ethylene (HDPE) pipe. Groundwater sampling was completed at the site until 2004 when the IDNR approved cessation of monitoring. No UST systems remain at the site and all fuel storage is handled by aboveground storage tank (AST) systems.

Vapors from the storm line were again noted in September 2010. The storm line was scoped and video footage from the event showed the HDPE line was found to have numerous cracks allowing contaminated groundwater and petroleum vapors to enter. In May 2011, between 310'-320' of the HDPE pipe was lined by SAK Construction south of the W&H Coop site. In a letter dated August 17, 2012 the IDNR again allowed for cessation of monitoring at the site noting stable and declining contaminant concentrations at site monitoring wells and vapor screening data in the storm sewer.

On May 10, 2019 vapors were again noted by the City of Humboldt originating from the 16th Ave North storm sewer. The IDNR field office collected samples from the sewer which confirmed gasoline contamination. W&H Coop was instructed to complete monthly sampling at the site, now semi-annual sampling, which includes groundwater, storm water, and vapor sampling. A semi-annual summary report is to be submitted detailing findings after sampling events.

MODULE II. Site Visit and Sampling:

Seneca arrived onsite on November 10, 2021 to complete the required water and vapor monitoring. The storm sewer manway was cracked open for a vapor check and no petroleum odor was noted. Both the May and November 2021 sampling events had no odor present, while a petroleum odor had been noted in the previous four (4) site visits. A photo-ionization detector (PID) was then inserted into the opening and no elevated PID reading was recorded.

The manway was fully removed, and the depth of the sewer was measured to be approximately 12' bgs. After a vapor sample blank was collected away from the storm sewer location, tubing for the soil gas pump was lowered into the manway opening until the tube was located within the 18" HDPE pipe. The pump was turned on and a vapor sample was collected. Once the soil gas sample was collected, the PID was attached to a string and lowered into the conduit until it was directly above the flowing storm water. No alarm ringing was noted to indicate PID readings over alarm limits (50 ppm) at that time. Seneca quickly retrieved the PID meter to the surface and measured a PID reading of 0.0 ppm.

A small amount of running water was noted in the storm sewer, in line with previous site visits. No sheen was noticed on the storm water, although lighting conditions made visual observations difficult. Seneca lowered a sampling bailer down the manway and collected a storm water sample (Storm Sewer) to be analyzed via Iowa Method OA1 (BTEX). Samples were collected, iced, and shipped to a certified laboratory, Test America located in Cedar Falls, IA within 72 hours of collection.

A sample was collected from monitoring well MW12 after proper purging and recharge procedures and sent in for OA1 (BTEX) analysis. The static water elevation (SWL) was noted at 9.58' bgs, which was

slightly higher than the May event but lower in comparison to previous site visits. This is in line with lower statewide water tables in 2021 as much of the state experienced drought conditions.

MODULE III. Sampling Results and Recommendations:

The vapor sample yielded vapor concentrations below laboratory detection levels. The storm sewer has never had concentrations over laboratory detection levels for vapor. No PID readings or petroleum odor was noted when the manway was removed for sampling. Water collected from the storm sewer yielded no measurable BTEX concentrations during this sampling event. Water sampling results for May and November 2021 indicated the two lowest BTEX concentrations since sampling began in May 2019 and are down from a high during the September 2020 sampling event.

Results from the November groundwater sampling at monitoring well MW12 also resulted in the lowest concentrations since sampling began in 2019, with benzene, toluene, and xylene concentrations below laboratory detection levels and all concentrations less than HAL target levels. The May and November 2021 MW12 samples are significantly lower in BTEX concentrations than previous sampling events and lends credibility to the theory that contaminant levels may be fluctuating with changes to the static water table in the area. The May and November 2021 sampling events recorded the two lowest water levels at the site since the fall of 2000.

Results from the 2019-2021 storm sewer sampling events remain less than HAL target levels outlined in Chapter 133, however, it is clear some groundwater contamination is infiltrating the lined sewer section, indicating the lining may be compromised. This may be exacerbated during periods of moderate to high water table elevations in the area. Based off historic groundwater elevation data at MW12, typical SWL values ranged from 8'-11' bgs, whereas the recent SWLs at MW12 have ranged from 6.82' to 9.68' bgs. Sampling events from 2021 were nearly 1.5' below the typical level from 2019-2020 and are the lowest measured elevation since October 2000. This water table elevation fluctuation is likely contributing to the variability seen in contaminant concentrations at the storm sewer and monitoring well MW12.

Vapor, wastewater, and groundwater sampling are ongoing at the site and are being completed on a semiannual basis at this point. Groundwater and sewer water concentrations have fluctuated slightly

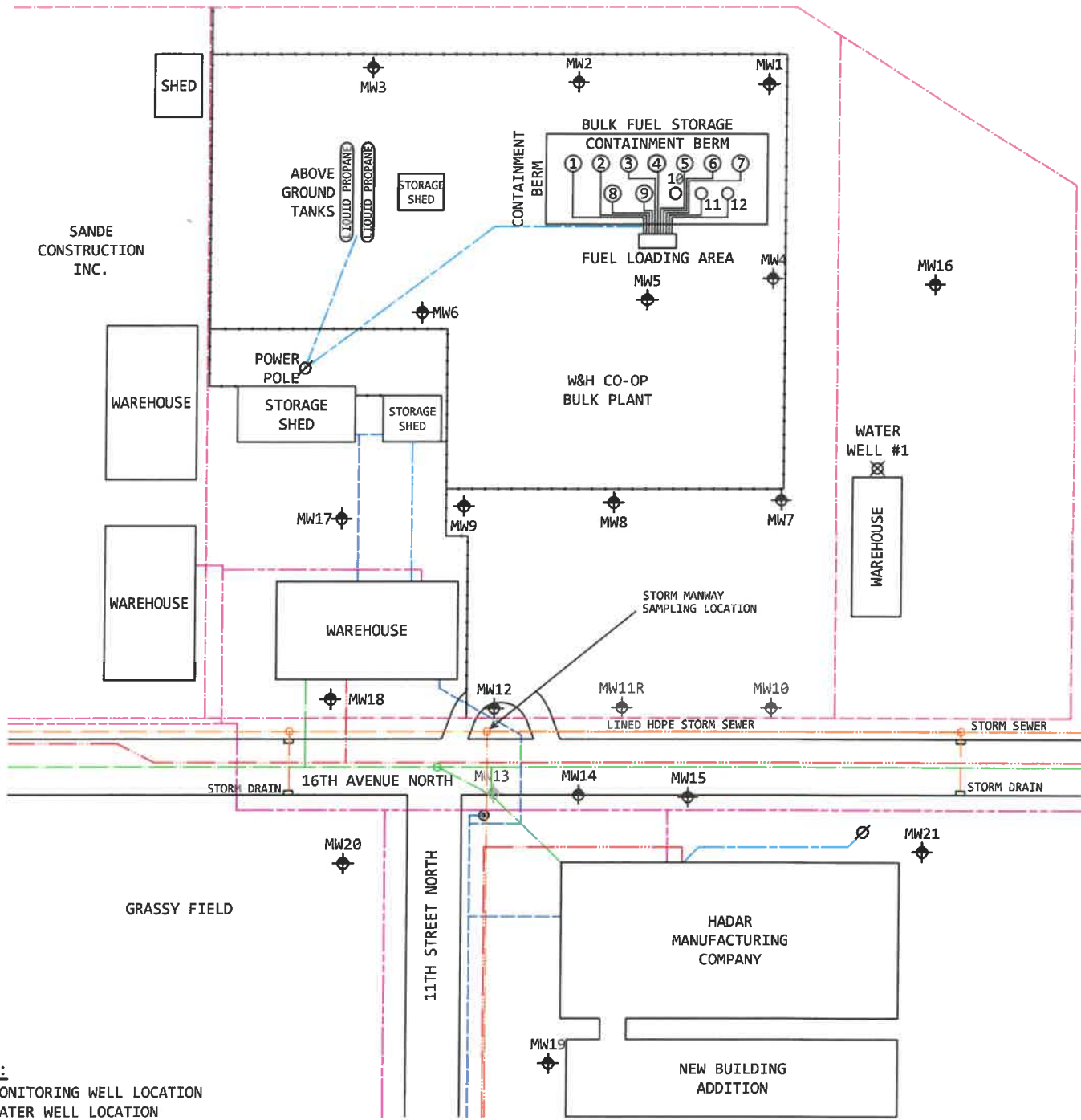
during recent sampling events but remain relatively stable with no large fluctuation swings. Minor fluctuations in concentrations are occurring and is likely the result of groundwater table changes at the site. For much of 2021, the area was experiencing levels of drought and likely caused lower contaminant infiltration into the storm sewer. Vapor concentrations remain below laboratory detection levels and no petroleum odor was noted during the most recent site visit.

At this time, Seneca recommends continued groundwater and vapor sampling at the storm sewer with groundwater collection at monitoring well MW12 per IDNR requirements. Seneca has reached out to local contractors about the feasibility and for a cost estimate to have sections of the storm sewer relined with a sealant to help protect against infiltration. The estimates will be given to W&H for review.

APPENDIX A

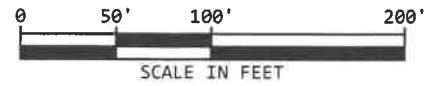
SITE MAP

GRASSY FIELD



LEGEND:

- MONITORING WELL LOCATION
- WATER WELL LOCATION
- STORM DRAIN INTAKE
- ELECTRIC LINE
- GAS LINE
- PROPERTY LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- TELEPHONE LINE
- WATER LINE
- CHAIN LINK FENCE LINE



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REV. NO.	DATE:



JOB DESCRIPTION:
W&H CO-OP OIL COMPANY BULK PLANT
1021 16TH AVENUE NORTH
HUMBOLT, IOWA 50548

SHEET TITLE:
SCALED SITE PLAN

PROJECT NO: 6363077	FILENAME: 6363077A	DATE: 07/23/2019	DRAWN BY: DARRICK WORRALL	CHECKED BY: ANDREW CARVER	SCALE: 1" = 100'	SHEET NO. 01
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APPENDIX B

SAMPLING DATA SPREADSHEET

STORM SEWER WATER SAMPLING						
DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYLBENZENE (µg/L)	XYLENES (µg/L)	TOTAL BTEX (µg/L)*	MTBE (µg/L)
5/10/2019	<2	4	6	29	41.0	<2
7/3/2019	<2.00	<2.00	7.52	32.6	44.12	-
8/13/2019	<2.00	4.81	15.4	69.6	91.81	-
9/5/2019	<2.00	2.77	11.7	56.2	72.67	-
11/26/2019	<2.00	<2.00	8.49	39.8	56.29	-
3/18/2020	<2.00	<2.00	9.66	53.0	66.66	-
6/10/2020	<2.00	2.43	16.1	72.1	92.63	-
9/24/2020	<2.00	4.08	23.8	105	134.88	-
5/24/2021	<2.00	<2.00	<2.00	<6.00	12.0	
11/10/2021	<2.00	<2.00	<2.00	<6.00	12.0	-

*Less than values (<) set to absolute value for Total BTEX calculation

MW12 SAMPLING					
DATE	Static Water Level (ASL)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYLBENZENE (µg/L)	XYLENES (µg/L)
8/13/2019	1,104.71'	8.39	704	1,110	5,130
9/5/2019	1,104.54'	15.1	605	1,680	7,610
11/26/2019	1,104.34'	7.09	157	824	4,060
3/18/2020	1,104.12'	28.9	67.6	554	2,190
6/10/2020	1,104.60'	<2.00	93.4	754	2,680
9/24/2020	1,104.17'	<2.00	97.4	506	1,890
5/24/2021	1,102.47'	<2.00	<2.00	13.7	16.6
11/10/2021	1102.57'	<2.00	<2.00	4.44	<6.00

Please see Appendix D for historic MW12 Groundwater Sampling Data

GRD: 1112.60', TOC: 1112.15'

STORM SEWER VAPOR SAMPLING

DATE	BENZENE (µg/m3)	TOLUENE (µg/m3)	PID READING (TOP)*	PID READING (AT DEPTH)*
7/3/2019	<50,000	<4,900	0.0	0.0
8/13/2019	<50,000	<4,900	0.0	0.0
9/5/2019	<47,000	<4,600	0.0	0.0
11/26/2019	<53,000	<5,200	5.0 #	0.0
3/18/2020	<52,000	<5,100	0.0 #	0.0
6/10/2020	<49,000	<4,800	0.0 #	1.9
9/24/2020	<51,000	<50,000	0.0 #	0.0
5/24/2021	<51,000	<49,000	0.0	0.0
11/10/2021	<52,000	<50,000	0.0	0.0

*PID readings utilized MiniRAE LITE photoionization detector

Odor present

APPENDIX C

**LABORATORY ANALYSIS OF SAMPLES/
CHAIN OF CUSTODY FORM**

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-219699-1
Laboratory Sample Delivery Group: 6363077
Client Project/Site: W&H COOP

For:
Seneca Companies
PO BOX 3360
Des Moines, Iowa 50316

Attn: Andrew Carver



Authorized for release by:
11/16/2021 8:20:14 AM

Angela Muehling, Project Manager II
(319)277-2401
Angela.Muehling@Eurofinset.com

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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: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Job ID: 310-219699-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-219699-1**

Comments

No additional comments.

Receipt

The samples were received on 11/11/2021 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3° C.

GC VOA

Method OA-1 (GC): The following sample was collected in properly preserved vials; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW12 (310-219699-1).

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

VOA Prep

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

Sample Summary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-219699-1	MW12	Water	11/10/21 15:00	11/11/21 17:15
310-219699-2	Storm Sewer	Water	11/11/21 15:15	11/11/21 17:15

Detection Summary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Client Sample ID: MW12

Lab Sample ID: 310-219699-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4.44		2.00		ug/L	1		OA-1 (GC)	Total/NA

Client Sample ID: Storm Sewer

Lab Sample ID: 310-219699-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Client Sample ID: MW12

Lab Sample ID: 310-219699-1

Date Collected: 11/10/21 15:00

Matrix: Water

Date Received: 11/11/21 17:15

Sampler Name: David Phipps

Sampler Phone Number: 515-262-3500

Method: OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00		2.00		ug/L			11/13/21 04:02	1
Toluene	<2.00		2.00		ug/L			11/13/21 04:02	1
Ethylbenzene	4.44		2.00		ug/L			11/13/21 04:02	1
Xylenes, Total	<6.00		6.00		ug/L			11/13/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		35 - 150					11/13/21 04:02	1

Client Sample Results

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Client Sample ID: Storm Sewer

Lab Sample ID: 310-219699-2

Date Collected: 11/11/21 15:15

Matrix: Water

Date Received: 11/11/21 17:15

Sampler Name: David Phipps

Sampler Phone Number: 515-262-3500

Method: OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00		2.00		ug/L			11/13/21 04:29	1
Toluene	<2.00		2.00		ug/L			11/13/21 04:29	1
Ethylbenzene	<2.00		2.00		ug/L			11/13/21 04:29	1
Xylenes, Total	<6.00		6.00		ug/L			11/13/21 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 150					11/13/21 04:29	1

Definitions/Glossary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Method: OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (35-150)
310-219699-1	MW12	113
310-219699-2	Storm Sewer	98
LCS 310-335342/3	Lab Control Sample	123
MB 310-335342/4	Method Blank	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Method: OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-335342/4
Matrix: Water
Analysis Batch: 335342

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<2.00		2.00		ug/L			11/12/21 22:18	1
Toluene	<2.00		2.00		ug/L			11/12/21 22:18	1
Ethylbenzene	<2.00		2.00		ug/L			11/12/21 22:18	1
Xylenes, Total	<6.00		6.00		ug/L			11/12/21 22:18	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	99		35 - 150					11/12/21 22:18	1

Lab Sample ID: LCS 310-335342/3
Matrix: Water
Analysis Batch: 335342

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	80.0	77.43		ug/L		97	76 - 120
Ethylbenzene	80.0	77.21		ug/L		97	77 - 120
Xylenes, Total	240	217.6		ug/L		91	76 - 121
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	123		35 - 150				

QC Association Summary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

GC VOA

Analysis Batch: 335342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-219699-1	MW12	Total/NA	Water	OA-1 (GC)	
310-219699-2	Storm Sewer	Total/NA	Water	OA-1 (GC)	
MB 310-335342/4	Method Blank	Total/NA	Water	OA-1 (GC)	
LCS 310-335342/3	Lab Control Sample	Total/NA	Water	OA-1 (GC)	

Lab Chronicle

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Client Sample ID: MW12

Lab Sample ID: 310-219699-1

Date Collected: 11/10/21 15:00

Matrix: Water

Date Received: 11/11/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	OA-1 (GC)		1	335342	11/13/21 04:02	CMM	TAL CF

Client Sample ID: Storm Sewer

Lab Sample ID: 310-219699-2

Date Collected: 11/11/21 15:15

Matrix: Water

Date Received: 11/11/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	OA-1 (GC)		1	335342	11/13/21 04:29	CMM	TAL CF

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Laboratory: Eurofins TestAmerica, Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21

Method Summary

Client: Seneca Companies
Project/Site: W&H COOP

Job ID: 310-219699-1
SDG: 6363077

Method	Method Description	Protocol	Laboratory
OA-1 (GC)	Volatile Petroleum Hydrocarbons (GC)	Iowa DNR	TAL CF
5030B	Purge and Trap	SW846	TAL CF

Protocol References:

Iowa DNR = Iowa Department of Natural Resources

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

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
TestAmerica



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Seneca</u>			
City/State:	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project: <u>WHP Corp</u>
Receipt Information			
Date/Time Received:	DATE <u>11/11/11</u>	TIME <u>7:15</u>	Received By: <u>MRH</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Container(s)			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID:	<u>R</u>	Correction Factor (°C): <u>0.0</u>	
Temp Blank Temperature and Temp Blank or Temp Blank Temperature above 10°C or below 0°C or Sample Container Temperature			
Uncorrected Temp (°C):	<u>0.3</u>	Corrected Temp (°C): <u>0.3</u>	
Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Login Sample Receipt Checklist

Client: Seneca Companies

Job Number: 310-219699-1

SDG Number: 6363077

Login Number: 219699

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Kizer, Preston V

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 310-219699-1

SDG Number: 6363077

Job Description: W&H COOP

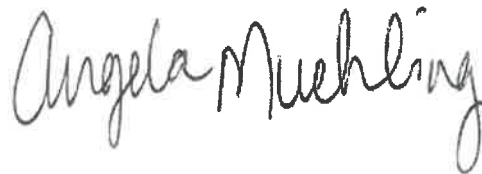
For:

Seneca Companies

PO BOX 3360

Des Moines, IA 50316

Attention: Andrew Carver



Approved for release.
Angela C Muehling
Project Manager II
11/18/2021 8:20 AM

Angela C Muehling, Project Manager II
3019 Venture Way, Cedar Falls, IA, 50613
(319)277-2401
Angela.Muehling@Eurofinset.com
11/16/2021

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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.

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Method OA1

**Volatile Petroleum Hydrocarbons (GC)
by Method OA1**

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Saffron\20211112-69183.b\S0278329.D
 Lims ID: 310-219699-A-1
 Client ID: MW12
 Sample Type: Client
 Inject. Date: 13-Nov-2021 04:02:58 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 310-0069183-017
 Misc. Info.: 111221 H2O
 Operator ID: cmm Instrument ID: Saffron
 Method: \\chromfs\CedarFalls\ChromData\Saffron\20211112-69183.b\SaffronWater.m
 Limit Group: GCV OA1 ICAL
 Last Update: 15-Nov-2021 14:48:17 Calib Date: 12-Nov-2021 08:36:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\CedarFalls\ChromData\Saffron\20211111-69158.b\S0278285.D
 Column 1 : Det: GC ELC2B
 Column 2 : Det: GC FID1A
 Process Host: CTX1603

First Level Reviewer: meyerch Date: 15-Nov-2021 14:32:58

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
3 Benzene						M
1	10.301	10.244	0.057	76259	0.4346	M
6 Toluene						M
1	13.151	13.150	0.001	31427	0.2134	M
12 Ethylbenzene						M
1	14.801	14.800	0.001	482647	4.44	M
2 m-Xylene & p-Xylene						M
1	14.981	14.980	0.001	41644	0.3330	M
4 o-Xylene						M
1	15.331	15.330	0.001	47936	0.4464	M
\$ 14 4-Bromofluorobenzene (Surr)						M
1	15.668	15.670	-0.002	2883330	22.5	M
S 15 Xylenes, Total						
1					0.7794	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GV_I_BFB11_00090

Amount Added: 1.00

Units: uL

Report Date: 15-Nov-2021 14:48:30

Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Saffron\2021112-69183.b\S0278329.D

Injection Date: 13-Nov-2021 04:02:58

Instrument ID: Saffron

Operator ID: cmm

Lims ID: 310-219699-A-1

Lab Sample ID: 310-219699-1

Worklist Smp#: 17

Client ID: MW12

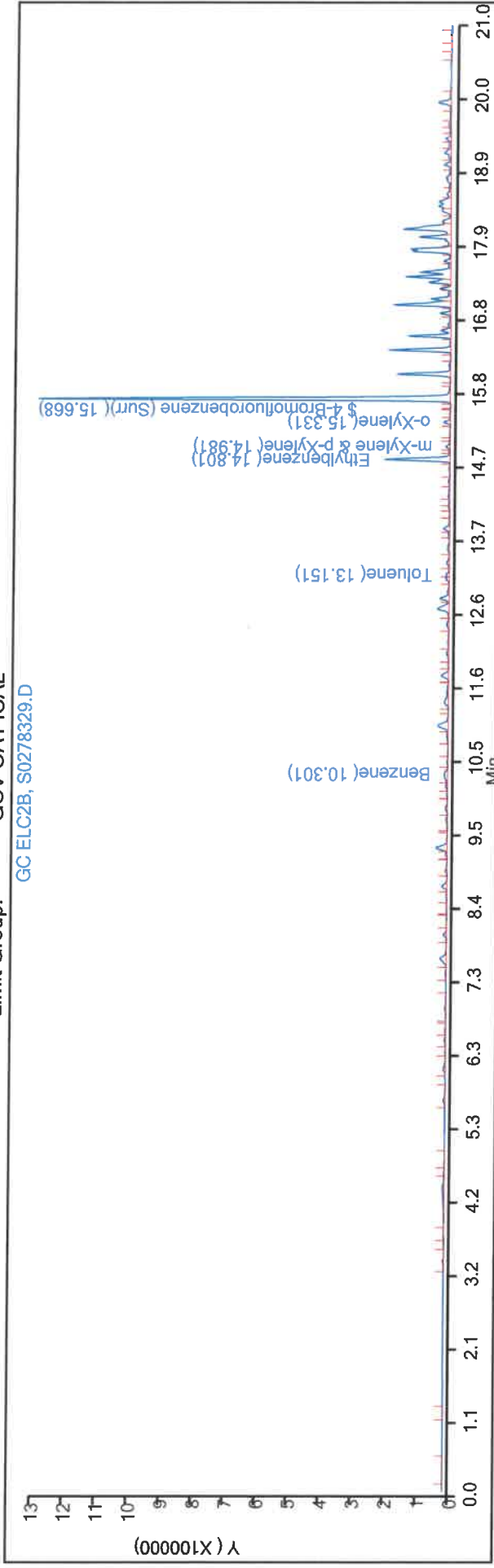
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

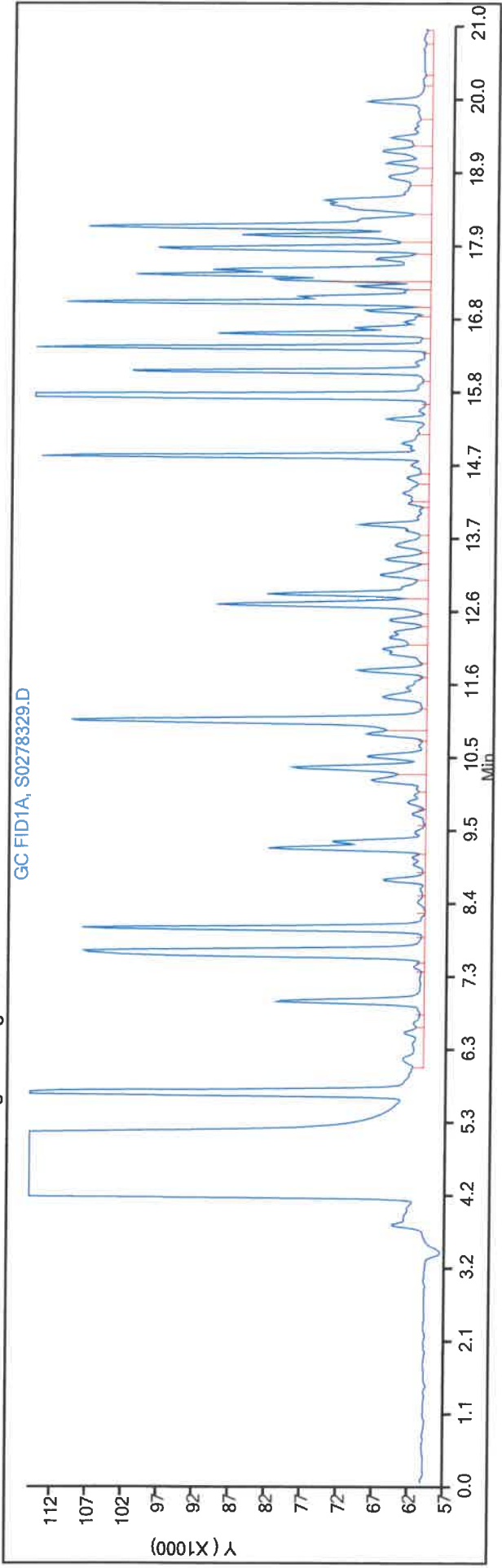
ALS Bottle#: 0

Method: SaffronWater

Limit Group: GCV OA1 ICAL



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Saffron\20211112-69183.b\S0278343.D
 Lims ID: ccv btex/sur
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Nov-2021 10:14:08 ALS Bottle#: 0 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 310-0069183-031
 Misc. Info.: 111221 H2O
 Operator ID: cmm Instrument ID: Saffron
 Sublist: chrom-SaffronWater*sub1
 Method: \\chromfs\CedarFalls\ChromData\Saffron\20211112-69183.b\SaffronWater.m
 Limit Group: GCV OA1 ICAL
 Last Update: 15-Nov-2021 14:48:40 Calib Date: 12-Nov-2021 08:36:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\CedarFalls\ChromData\Saffron\20211111-69158.b\S0278285.D
 Column 1 : Det: GC ELC2B
 Column 2 : Det: GC FID1A
 Process Host: CTX1603

First Level Reviewer: meyerch Date: 15-Nov-2021 14:48:09

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
11 Methyl tert-butyl ether							
1	7.725	7.730	-0.005	5762719	80.0	82.1	M
2	7.755	7.730	0.025	2068180			
3 Benzene							
1	10.238	10.244	-0.006	13616662	80.0	77.6	M
A 1 C6-C10 WI							
2	13.145	(7.630-18.660)		28618549	NC	NC	
6 Toluene							
1	13.148	13.150	-0.002	11159886	80.0	75.8	M
12 Ethylbenzene							
1	14.795	14.800	-0.005	8183670	80.0	75.3	M
2 m-Xylene & p-Xylene							
1	14.978	14.980	-0.002	17795320	160.0	142.3	M
4 o-Xylene							
1	15.328	15.330	-0.002	7618547	80.0	70.9	M
\$ 14 4-Bromofluorobenzene (Surr)							
1	15.665	15.670	-0.005	2968116	20.0	23.2	M
9 1,3,5-Trimethylbenzene							
1	16.255	16.257	-0.002	7258174	NC	NC	M
5 1,2,4-Trimethylbenzene							
1	16.561	16.564	-0.003	5157437	NC	NC	M
8 Naphthalene							
1	18.558	18.560	-0.002	3263082	NC	NC	M
2	18.588	18.560	0.028	1027425			
S 15 Xylenes, Total							
1					240.0	213.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

GV_I_BFB11_00090

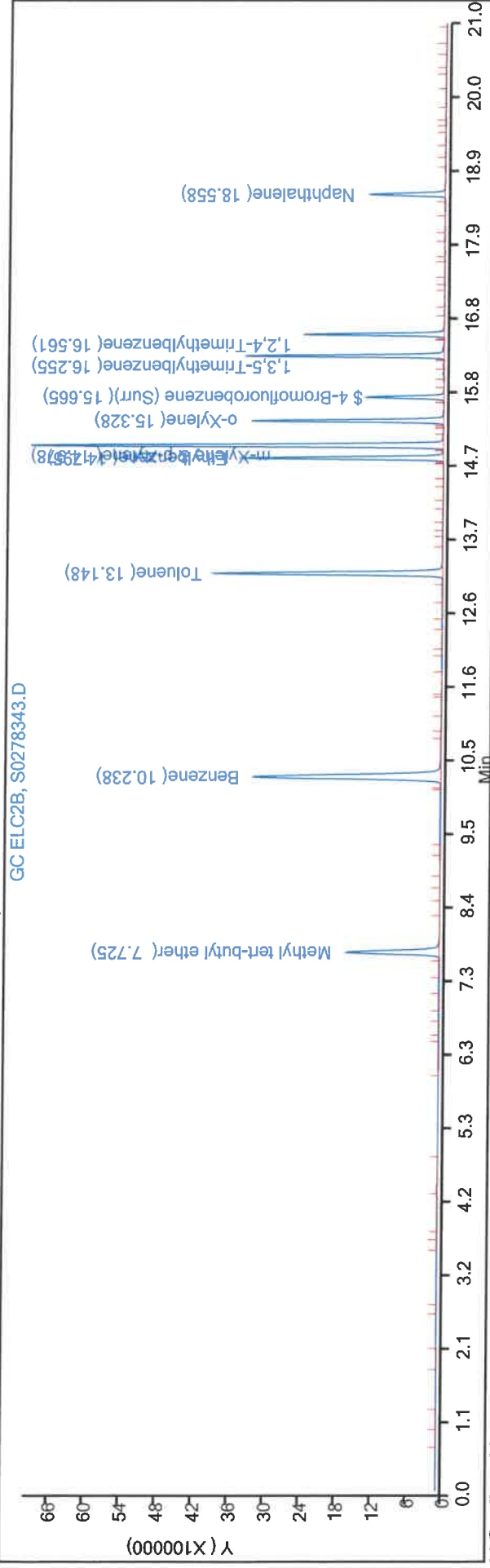
Amount Added: 1.00

Units: uL

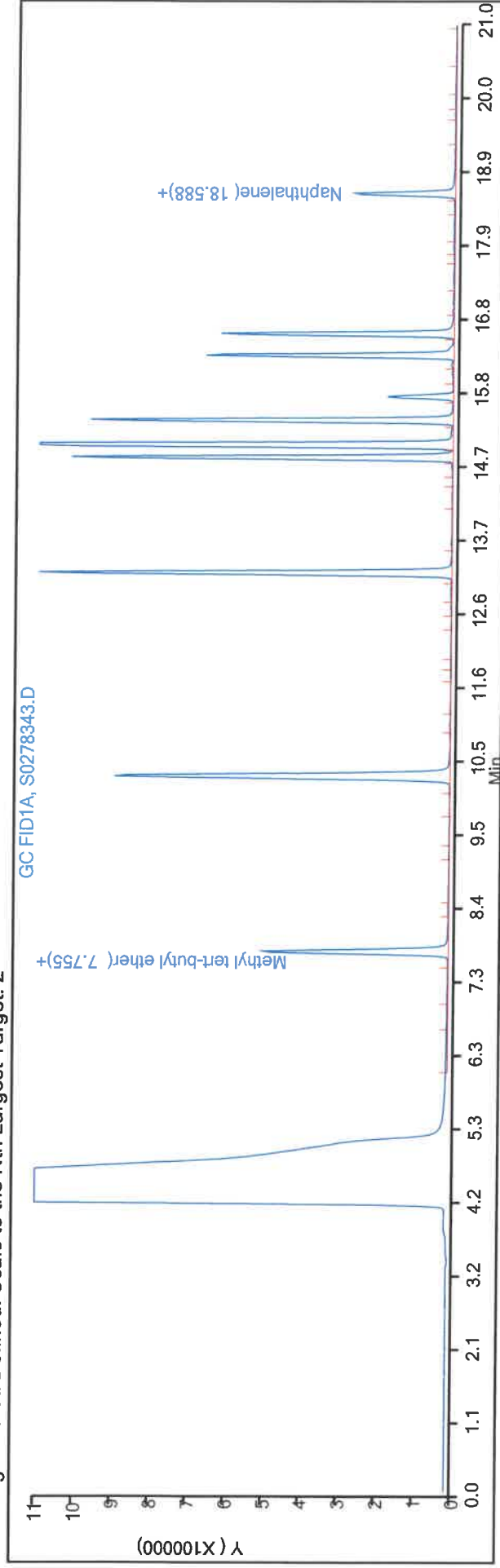
GV_I_ICVn81_00109

Amount Added: 50.00

Units: uL



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-219739-1
Client Project/Site: W & H Coop, #6363077

For:
Seneca Companies
PO BOX 3360
Des Moines, Iowa 50316

Attn: Andrew Carver



Authorized for release by:
11/17/2021 2:37:31 PM

Brian Graettinger, Lab Director
(319)595-2012
Brian.Graettinger@Eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?

 **Ask
The
Expert**

Visit us at:

www.eurofinsus.com/Env

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.

Case Narrative

Client: Seneca Companies
Project/Site: W & H Coop, #6363077

Job ID: 310-219739-1

Job ID: 310-219739-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative
310-219739-1

Comments

No additional comments.

Receipt

The samples were received on 11/11/2021 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Industrial Hygiene

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

Sample Summary

Client: Seneca Companies
Project/Site: W & H Coop, #6363077

Job ID: 310-219739-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-219739-1	Storm Sewer	Air	11/10/21 00:00	11/11/21 17:15
310-219739-2	Blank	Air	11/10/21 00:00	11/11/21 17:15

Client Sample Results

Client: Seneca Companies
Project/Site: W & H Coop, #6363077

Job ID: 310-219739-1

Client Sample ID: Storm Sewer

Lab Sample ID: 310-219739-1

Date Collected: 11/10/21 00:00

Matrix: Air

Date Received: 11/11/21 17:15

Sample Air Volume: 0.2052 L

Sample Container: IH - Coconut Shell Charcoal Tube, 150 mg

Method: 1501 - NIOSH Method 1501 (Modified)

Analyte	Result ug/Sample	Result ug/m3	Result Qualifier	RL ug/Sample	Analyzed	Dil Fac	Analyst
Benzene	<11	<52000		11	11/17/21 13:26	1	DLK
Toluene	<10	<50000		10	11/17/21 13:26	1	DLK

Client Sample ID: Blank

Lab Sample ID: 310-219739-2

Date Collected: 11/10/21 00:00

Matrix: Air

Date Received: 11/11/21 17:15

Sample Air Volume: 0 L

Sample Container: IH - Coconut Shell Charcoal Tube, 150 mg

Method: 1501 - NIOSH Method 1501 (Modified)

Analyte	Result ug/Sample	Result	Result Qualifier	RL ug/Sample	Analyzed	Dil Fac	Analyst
Benzene	<11			11	11/17/21 13:26	1	DLK
Toluene	<10			10	11/17/21 13:26	1	DLK

Accreditation/Certification and Definitions Summary

Client: Seneca Companies
Project/Site: W & H Coop, #6363077

Job ID: 310-219739-1

Laboratory: Eurofins TestAmerica, Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21

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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Method Summary

Client: Seneca Companies
Project/Site: W & H Coop, #6363077

Job ID: 310-219739-1

Method	Method Description	Protocol	Laboratory
1501	NIOSH Method 1501 (Modified)	NIOSH	TAL CF
1501 Back	NIOSH Method 1501 (Modified)	NIOSH	TAL CF
1501 Front	NIOSH Method 1501 (Modified)	NIOSH	TAL CF
Tube prep/Back	Preparation, Air Sampling Tube	NIOSH	TAL CF
Tube prep/Front	Preparation, Air Sampling Tube	NIOSH	TAL CF

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
TestAmerica

Laboratory Chain of Custody Form

Page ___ of ___



310-219739 Chain of Custody

Company Name/Contact: SPINEL

Address: 4140 E 19TH ST

City, State, Zip: OKS MANS, ZA 50913

Phone: _____ Fax: _____ Email: _____

Send Report To: ANDREW CAMERON

Quote No: _____

Send Invoice To: ''

Sampler: D. P. KEMP Project Name: WILH COOP Project No.: 6363077 P.O. Number: 400061

Lab Number (Internal Use Only)	Sample Identification	Date Sampled	Media Type (Filter, Tube Diffusive Badge, etc.)	Analysis Method(s)/Analytes	Sampling Type (Minutes)	Air Volume (Liters)	Pump ID
	<u>STORM SEWER</u>	<u>11/10/21</u>		<u>BENZENE & TOLUENE</u>	<u>4</u>	<u>0.05130 Lpm 0.2052 Lpm</u>	<u>505708</u>
	<u>BLANK</u>	<u>11</u>		<u>''</u>	<u>4</u>	<u>8 Liters</u>	<u>''</u>

Sample Receipt	Reporting/Deliverables	Turn Around Time Requested
Temperature _____ °C Sample Seals: Yes _____ No _____ Sample Seals Intact: Yes _____ No _____ Total # of Samples: _____	Fax Results: Yes _____ No _____ Email Results: Yes _____ No _____ EDD: Yes _____ No _____ Data Package Standard Level II: _____ Level III: _____ Level IV: _____	_____ 24 Hours _____ 48 Hours _____ 72 Hours _____ 96Hours _____ Standard 7 Business Days RUSH Charges Authorized: _____ Yes _____ No Subject to scheduling and availability (RUSH surcharges apply)

Instructions / Special Requirements:

Date:	Time:	As Relinquished by:	Received by:
<u>11/11/21</u>	<u>1:30</u>	<u>Emma K Keenfeld</u>	
<u>11/11/21</u>	<u>1715</u>		<u>Phil K.</u>

CALIBRATION RECORD

Medium Flow Calibration with BIOS Dry Cal (Serial No. 126516)

Pump Mfr: SKC Serial No: 505708 Orifice No: P-6

Pre-calibration

Date: 11/2/21 Time: 722 Initials: SLD Temp: 19.5 C Baro Pres: 742.0

Calibration Location: Cedar Falls Industrial Hygiene Laboratory
 Other: _____

Line Resistance	Ports (A, B, C, D)	Trials (Flow Rate: mL/min)					Average Flow Rate (mL/min)
		1	2	3	4	5	
<u>C.T. 226-01</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>RBCA</u>	<u>—</u>	<u>—</u>	<u>52.674</u> <u>mL/min</u>

Post-calibration

Date: 11/12/21 Time: 904 Initials: SLD Temp: 24.5 C Baro Pres: 725.0

Calibration Location: Cedar Falls Industrial Hygiene Laboratory
 Other: _____

Line Resistance	Ports (A, B, C, D)	Trials (Flow Rate: mL/min)					Average Flow Rate (mL/min)
		1	2	3	4	5	
<u>C.T. 226-01</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>RBCA</u>	<u>—</u>	<u>—</u>	<u>49.931</u> <u>mL/min</u>

Pre & Post Average Flow Rate (mL/min): A: 51.30 B: _____ C: _____ D: _____

Comments: mL/min

Product DEFENDER 530

Serial Num 126516

Calibration Pre

Sample	DryCal smL	DryCal Avg	Temp. Deg	Pressure m	Time
1	52.711	52.711	19.5	742	7:22:11 AM
2	52.657	52.684	20	743	7:22:35 AM
3	52.688	52.685	20	743	7:23:00 AM
4	52.606	52.665	20	742	7:23:24 AM
5	52.712	52.674	20	742	7:23:49 AM

Date 11/2/2021

Pump 505708 P-6

Cal. sid

Product DEFENDER 530

Serial Num 126516

Calibration Post

Sample	DryCal	sml/r	DryCal	Avg	Temp. Deg	Pressure	m	Time
1	49.865		49.865		24.5	725		9:04:20 AM
2	49.921		49.893		24.5	725		9:04:45 AM
3	49.909		49.898		24.5	725		9:05:10 AM
4	49.951		49.911		24.5	725		9:05:35 AM
5	50.013		49.931		24.5	725		9:06:00 AM

Date 11/12/2021

Pump 505708 P-6

Cal. sld



IH Sample Receipt Form

Client: Seneca Project: W+H Cap

City: Dos Mores State: IA

Date: 11/11/21 Time (Delivered): 1715 Receiver's Initials: MKH

COC completed correctly? Yes No
(Cite inconsistencies below)

Sample Checklist (Mark non-conformance or acceptance)

<input type="checkbox"/> Received Broken	<input type="checkbox"/> Information Missing
<input type="checkbox"/> Improper Media	<input type="checkbox"/> Missing Sample
<input type="checkbox"/> Missing Label	<input type="checkbox"/> Sample Past Hold Date
<input type="checkbox"/> Preservation	<input type="checkbox"/> Extra Sample
<input type="checkbox"/> COC Discrepancy	<input type="checkbox"/> Insufficient Sample Volume
<input type="checkbox"/> Other:	

Couriers

<input type="checkbox"/> UPS	<input checked="" type="checkbox"/> Lab Courier
<input type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> FedEx Ground	<input type="checkbox"/> Spee-Dee
<input type="checkbox"/> US Mail	
<input type="checkbox"/> Other:	

Samples received on cooling media (circle all that apply)
 Ice Blue Ice Dry Ice Ice Other: _____

Samples not received in a cooler
 Temperature not taken

The samples, as received, are acceptable for analysis

Reviewed by: _____ Date: _____

Comments

IR Gun R 0.3 → 0.3 °C 00 correction factor

APPENDIX D

HISTORICAL MW12 GROUNDWATER DATA

SMR Groundwater Analytical Data (ug/L), V-2.51,

Boring / Well #	Date Sampled	Elevations (ASL)										Group 1				Group 2			FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO	Group 1		Group 2						
												SWL	TEH-D	TEH-WO	TEH-D	TEH-WO				
MW11	09/08/1994	1,111.20	1,111.87	1,109.40	1,104.20	13,000.	26,000.	1,900.	14,000.	N	N	N	N	N	N	N				
MW11R	07/12/1999	1,112.40	1,111.85	1,110.40	1,105.82	5,800.	26,300.	4,940.	24,400.	N	N	N	N	N	N	N				
MW11R	10/08/1999	1,112.40	1,111.85	1,110.40	1,104.25	3,070.	19,900.	3,810.	19,600.	N	N	N	N	N	N	N				
MW11R	04/17/2000	1,112.40	1,111.85	1,110.40	1,102.20	3,130.	21,400.	4,500.	21,500.	N	N	N	N	N	N	N				
MW11R	10/24/2000	1,112.40	1,111.85	1,110.40	1,102.75	2,630.	17,000.	6,670.	33,800.	N	N	N	N	N	N	N				
MW11R	10/11/2001	1,112.40	1,111.85	1,110.40	1,103.26	677.	10,400.	2,980.	16,600.	N	N	N	N	N	N	N				
MW11R	10/15/2002	1,112.40	1,111.85	1,110.40	1,103.27	467.	6,270.	3,980.	19,000.	N	N	N	N	N	N	N				
MW11R	10/29/2003	1,112.40	1,111.85	1,110.40	1,103.80	426.	3,150.	2,120.	9,740.	N	N	N	N	N	N	N				
MW11R	10/26/2004	1,112.40	1,111.85	1,110.40	1,103.28	247.	2,180.	2,100.	10,300.	N	N	N	N	N	N	N				
MW11R	10/04/2010	1,112.40	1,111.85	1,110.40	1,105.27	22.1	222.	863.	3,660.	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW11R	04/05/2011	1,112.40	1,111.85	1,110.40	1,103.84	29.4	851.	831.	3,120.	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW11R	07/16/2012	1,112.40	1,111.85	1,110.40	1,103.34	3.6	115.	281.	1,110.	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW12	09/08/1994	1,112.60	1,112.15	1,109.70	1,103.84	4,300.	4,500.	180.	3,400.	N	N	N	N	N	N	N				
MW12	04/16/1997	1,112.60	1,112.15	1,109.70	1,103.26	26.	2.	1.	4.	N	N	N	N	N	N	N				
MW12	10/02/1997	1,112.60	1,112.15	1,109.70	1,103.19	1,300.	1,940.	958.	2,670.	N	N	N	N	N	N	N				
MW12	10/01/1998	1,112.60	1,112.15	1,109.70	1,103.89	24,400.	47,600.	6,040.	27,200.	N	N	N	N	N	N	N				
MW12	04/13/1999	1,112.60	1,112.15	1,109.70	1,103.33	750.	1,310.	525.	1,100.	N	N	N	N	N	N	N				
MW12	10/08/1999	1,112.60	1,112.15	1,109.70	1,103.47	7,070.	21,600.	3,425.	16,400.	N	N	N	N	N	N	N				
MW12	04/17/2000	1,112.60	1,112.15	1,109.70	1,102.03	164.	71.	182.	478.	N	N	N	N	N	N	N				
MW12	10/24/2000	1,112.60	1,112.15	1,109.70	1,101.99	12.	7.	5.	16.	N	N	N	N	N	N	N				
MW12	10/11/2001	1,112.60	1,112.15	1,109.70	1,103.22	401.	135.	540.	630.	N	N	N	N	N	N	N				
MW12	10/15/2002	1,112.60	1,112.15	1,109.70	1,102.89	<2.	3.	2.	4.	N	N	N	N	N	N	N				
MW12	10/29/2003	1,112.60	1,112.15	1,109.70	1,103.87	469.	73.	119.	83.	N	N	N	N	N	N	N				
MW12	10/26/2004	1,112.60	1,112.15	1,109.70	1,102.60	4.	<1.	<1.	<2.	N	N	N	N	N	N	N				
MW12	10/04/2010	1,112.60	1,112.15	1,109.70	1,104.53	17.8	42.7	72.6	353.	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW12	01/26/2011	1,112.60	1,112.15	1,109.70	1,103.77	<1.	<1.	<1.	<2.	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW12	04/05/2011	1,112.60	1,112.15	1,109.70	1,103.00	<1.	<1.	<1.	<2.	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW12	07/16/2012	1,112.60	1,112.15	1,109.70	1,102.70	<1.	1.5	12.2	6.9	<100.	<100.	<100.	<100.	<100.	<100.	<100.				
MW14	09/08/1994	1,111.70	1,111.54	1,109.00	1,103.73	5,000.	2,000.	32.	2,600.	N	N	N	N	N	N	N				
MW14	05/30/1995	1,111.70	1,111.54	1,109.00	1,103.62	5,250.	4,690.	640.	2,920.	N	N	N	N	N	N	N				
MW14	11/09/1995	1,111.70	1,111.54	1,109.00	1,102.88	189.	3.	<1.	173.	N	N	N	N	N	N	N				
MW14	04/23/1996	1,111.70	1,111.54	1,109.00	1,102.33	5,180.	7,180.	749.	2,730.	N	N	N	N	N	N	N				
MW14	04/16/1997	1,111.70	1,111.54	1,109.00	1,103.04	314.	307.	55.	418.	N	N	N	N	N	N	N				
MW14	10/02/1997	1,111.70	1,111.54	1,109.00	1,103.06	183.	12.	9.	12.	N	N	N	N	N	N	N				
MW14	10/01/1998	1,111.70	1,111.54	1,109.00	1,103.66	329.	348.	124.	462.	N	N	N	N	N	N	N				
MW14	04/13/1999	1,111.70	1,111.54	1,109.00	1,103.17	2,190.	2,470.	1,490.	5,130.	N	N	N	N	N	N	N				