

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## Division of Environmental Remediation, Region 9

270 Michigan Avenue, Buffalo, NY 14203-2915

P: (716) 851-7220 | F: (716) 851-7226

[www.dec.ny.gov](http://www.dec.ny.gov)

May 23, 2018

Mr. Gregory L. Simpson  
Senior Project Manager  
Textron  
40 Westminster Street  
Providence, Rhode Island 02903

Dear Mr. Simpson:

Textron, Inc.  
EPA ID No. **NYD002106276**  
Order on Consent, Index No. 932052-01-04  
Operation and Maintenance Inspection Report  
Site #932052

The New York State Department of Environmental Conservation (the "Department") conducted an Operation and Maintenance inspection on April 18, 2018 of the groundwater monitoring program at the Textron Inc. facility in Wheatfield, NY. Based upon the Department's inspection of sample collection and review of associated documents, the Department has determined that Textron Inc. is in compliance with the Ground Water Monitoring Plan and the Order on Consent, Index No. 932052-01-04. The inspection report is attached.

If you have any questions regarding this inspection, please contact me at (716)851-7220.

Sincerely,

Stanley Radon, P.G.  
Regional Remediation Geologist

## Attachments

ec. Cecelia Byers ([cecelia.byers@aptim.com](mailto:cecelia.byers@aptim.com))  
Kevin Cronin ([kevi.cronin@shawgrp.com](mailto:kevi.cronin@shawgrp.com))

**OPERATION AND MAINTENANCE INSPECTION  
TEXTRON Inc.  
WHEATFIELD, NEW YORK**

**Introduction:**

On April 18, 2018 Stanley Radon, P.G., conducted an Operation and Maintenance Inspection at the Textron Inc., Facility, EPA I.D. No. NYD002106276. The evaluation included review of documents related to the operating record and sampling plan and observation of groundwater sample collection.

**Background:**

The Order on Consent, Index No. 932052-01-04, requires Textron Inc. to operate a corrective action program in accordance with the Groundwater Monitoring Plan (GMP) and Site Management Plan (SMP). The groundwater corrective action system is comprised of two components.

1. Off-site System: The system consists of three (3) extraction wells which are piped to the Niagara County Sewer District No. 1 POTW. The goal of the off-site groundwater pumping system is to reduce the size of the dissolved phase plume boundary.
2. On-Site System: The main system consists of three (3) recovery wells designed to hydraulically contain the DNAPL plume and contain aqueous-phase contamination, and two (2) extraction wells to control off-site migration of aqueous-phase contamination. The groundwater extracted from the on-site extraction system is piped to the on-site groundwater treatment plant. Currently, the on-site system is in the middle of a year-long bioremediation pilot study to determine the effectiveness of the same. The on-site pumping wells have temporarily been shut off during this period. The Department will make a determination if the extraction system will be resumed at the end of the bioremediation study.

**Sampling:**

On April 18, 2018, Stanley Radon of the New York State Department of Environmental Conservation observed staff from APTIM Environmental, Inc. and ALS Environmental, sample several groundwater wells. Specifically, sampling of wells EW-3 and EW-4 were observed to

determine compliance with the GMP. All of the aforementioned wells are part of the off-site ground water extraction system and monitoring program.

All the wells were under a manhole cover and in good condition. Groundwater level measurements were made using an electronic water level indicator graduated to 0.01 ft. The water level indicator was decontaminated by triple rinsing with de-ionized water prior to measuring the elevations in each well. Well volumes were then calculated to determine purge volumes and each well was purged three well volumes prior to obtaining the groundwater sample.

Samples were collected for Volatile Organic Compounds (VOCs) and all 40 ml containers were checked for air bubbles. All sample equipment is dedicated to each monitoring well. Sample containers were stored in a cooler containing ice.

Pictures showing the various stages of sampling are in Attachment A. Attachment B includes the field sampling data sheets and the chain of custody forms for all samples collected during the inspection.

### **Summary:**

Based upon review of the Groundwater Monitoring Plan, oversight of groundwater sample collection, and review of company records, the Department has determined that Textron is in compliance with the GMP and Order on Consent. The Department will analyze the results of the sample data in the Annual Monitoring Report to determine the efficiency of the extraction systems in reducing the extent of the contaminant plume.

## ATTACHMENT A



Removing manhole cover from EW-4



Checking groundwater elevations





Checking field parameters  
for purge from monitoring  
well EW-4



Collecting VOA samples in 40m  
ml. container

## **ATTACHMENT B**

[illegible]

**TEXTRON, INC.**  
**FIELD SAMPLING DATA SHEET**  
**WELL PURGE – WATER QUALITY MEASUREMENTS**

Site Name: Former Textron Wheatfield Facility  
Project Number: 631236330  
Well Number: EW- 2  
Date: 04/18/2018  
Field Personnel: K. Cronin, Bob Urban (ALS tech.)  
Physical Condition of Well: Good  
Well Diameter: 8"  
Air Monitoring Results: 0.0 ppmv  
Depth to Water: ~ 5.38  
Depth to Bottom: \_\_\_\_\_  
Purge Volume: \_\_\_\_\_  
Volume Removed: ~ 3 GALS

\*Volume Factors: (circle one)  
1.25-inch well = 0.064 gal/ft  
2-inch well = 0.163 gal/ft  
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer    Dedicated Poly Tubing from Sampling Port    Whale Pump with ET Tubing    Polyethylene Bailer    Grundfos Submersible Pump

Purge Water Disposal: Drummed for Offsite Treatment

| PARAMETERS<br>Units | pH<br>s.u.  | Spec. Cond.<br>ms/cm | Temp.<br>°C  | Sample<br>Description |
|---------------------|-------------|----------------------|--------------|-----------------------|
| Initial Purge       | <u>7.55</u> | <u>1.319</u>         | <u>10.92</u> | <u>clear</u>          |
| Final Purge         | <u>7.29</u> | <u>1.559</u>         | <u>10.70</u> | <u>clear</u>          |

Sampling Method: circle one

Stainless Steel Bailer    Dedicated Poly Tubing from Sampling Port    Whale Pump with ET Tubing    Polyethylene Bailer    Grundfos Submersible Pump

Sample Number: BAT- EW- 2 -180418  
Sample Collection Date/Time: 04/18/2018 1015  
Analysis Requested: EPA Method 8260

Notes: MS/MSD COLLECTED HERE  
VAULT FLOODED, LEFT WELL IN MANUAL AS PER CB 10/25

Sampler Signature: [Signature]



**TEXTRON, INC.**  
**FIELD SAMPLING DATA SHEET**  
**WELL PURGE - WATER QUALITY MEASUREMENTS**

Site Name: Former Textron Wheatfield Facility

Project Number: 631236330

Well Number: EW- 3

Date: 04/ 18 /2018

Field Personnel: K. Cronin, Bob Urban (ALS tech.)

Physical Condition of Well: Good

Well Diameter: 8"

Air Monitoring Results: 0.0 ppmv

Depth to Water: ~ 5.14'

Depth to Bottom: \_\_\_\_\_

Purge Volume: \_\_\_\_\_

Volume Removed: ~ 3 GALS

\*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft

2-inch well = 0.163 gal/ft

4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel  
Bailer

Dedicated Poly Tubing  
from Sampling Port

Whale Pump  
with ET Tubing

Polyethylene  
Bailer

Grundfos Submersible  
Pump

Purge Water Disposal: Drummed for Offsite Treatment

| PARAMETERS<br>Units | pH<br>s.u.  | Spec. Cond.<br>ms/cm | Temp.<br>°C  | Sample<br>Description |
|---------------------|-------------|----------------------|--------------|-----------------------|
| Initial Purge       | <u>7.31</u> | <u>2.017</u>         | <u>10.02</u> | <u>clear</u>          |
| Final Purge         | <u>7.23</u> | <u>1.602</u>         | <u>9.75</u>  | <u>clear</u>          |

Sampling Method: circle one

Stainless Steel  
Bailer

Dedicated Poly Tubing  
from Sampling Port

Whale Pump  
with ET Tubing

Polyethylene  
Bailer

Grundfos Submersible  
Pump

Sample Number: BAT-EW-3 -180418

Sample Collection Date/Time: 04/ 18 /2018 1035

Analysis Requested: EPA Method 8260

Notes: VAULT FLOODED

Sampler Signature: Kevin Cronin

**TEXTRON, INC.**  
**FIELD SAMPLING DATA SHEET**  
**WELL PURGE - WATER QUALITY MEASUREMENTS**

Site Name: Former Textron Wheatfield Facility

Project Number: 631236330

Well Number: EW- 4

Date: 04/18/2018

Field Personnel: K. Cronin, Bob Urban (ALS tech.)

Physical Condition of Well: Good

Well Diameter: 8"

Air Monitoring Results: 0.0 ppmv

Depth to Water: ~ 26.49'

Depth to Bottom: \_\_\_\_\_

Purge Volume: \_\_\_\_\_

Volume Removed: ~ 3.5

\*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft

2-inch well = 0.163 gal/ft

4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel  
Bailer

Dedicated Poly Tubing  
from Sampling Port

Whale Pump  
with ET Tubing

Polyethylene  
Bailer

Grundfos Submersible  
Pump

Purge Water Disposal: Drummed for Offsite Treatment

| PARAMETERS<br>Units | pH<br>s.u.  | Spec. Cond.<br>ms/cm | Temp.<br>°C  | Sample<br>Description |
|---------------------|-------------|----------------------|--------------|-----------------------|
| Initial Purge       | <u>7.40</u> | <u>1.870</u>         | <u>11.12</u> | <u>clear</u>          |
| Final Purge         | <u>7.16</u> | <u>1.161</u>         | <u>10.42</u> | <u>clear</u>          |

Sampling Method: circle one

Stainless Steel  
Bailer

Dedicated Poly Tubing  
from Sampling Port

Whale Pump  
with ET Tubing

Polyethylene  
Bailer

Grundfos Submersible  
Pump

Sample Number: BAT- EW- 4 -180418

Sample Collection Date/Time: 04/18/2018 1100

Analysis Requested: EPA Method 8260

Notes: BAT- DUP01-180418 COLLECTED HERE

Sampler Signature: Kron Cronin

**TEXTRON, INC.**  
**FIELD SAMPLING DATA SHEET**  
**WELL PURGE - WATER QUALITY MEASUREMENTS**

Site Name: Former Textron Wheatfield Facility

Project Number: 631236330

Well Number: EW- 5

Date: 04/18/2018

Field Personnel: K. Cronin, Bob Urban (ALS tech.)

Physical Condition of Well: Good

Well Diameter: 8"

Air Monitoring Results: 0.0 ppmv

Depth to Water: ~ 4.87

Depth to Bottom:

Purge Volume:

Volume Removed: ~ 3 GALS

\*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft

2-inch well = 0.163 gal/ft

4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel  
Bailer

Dedicated Poly Tubing  
from Sampling Port

Whale Pump  
with ET Tubing

Polyethylene  
Bailer

Grundfos Submersible  
Pump

Purge Water Disposal: Drummed for Offsite Treatment

| PARAMETERS<br>Units | pH<br>s.u. | Spec. Cond.<br>ms/cm | Temp.<br>°C | Sample<br>Description |
|---------------------|------------|----------------------|-------------|-----------------------|
| Initial Purge       | 7.57       | 1.672                | 8.79        | clear                 |
| Final Purge         | 7.44       | 1.221                | 8.41        | clear                 |

Sampling Method: circle one

Stainless Steel  
Bailer

Dedicated Poly Tubing  
from Sampling Port

Whale Pump  
with ET Tubing

Polyethylene  
Bailer

Grundfos Submersible  
Pump

Sample Number: BAT- EW-5 -180418

Sample Collection Date/Time: 04/18/2018 1200

Analysis Requested: EPA Method 8260

Notes: VAULT FLOODED, PUT WELL IN HAND FOR SAMPLING.

Sampler Signature: Kevin Glo

**TEXTRON, INC.**  
**FIELD SAMPLING DATA SHEET**  
**WELL PURGE – WATER QUALITY MEASUREMENTS**

Site Name: Former Textron Wheatfield Facility  
Project Number: 631236330  
Well Number: EW-6  
Date: 04/18/2018  
Field Personnel: K. Cronin, Bob Urban (ALS tech.)  
Physical Condition of Well: Good  
Well Diameter: 8"  
Air Monitoring Results: 0.0 ppmv  
Depth to Water: ~ 5.31'  
Depth to Bottom: NM  
Purge Volume: \_\_\_\_\_  
Volume Removed: ~ 2

\*Volume Factors: (circle one)  
1.25-inch well = 0.064 gal/ft  
2-inch well = 0.163 gal/ft  
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer    Dedicated Poly Tubing from Sampling Port    Whale Pump with ET Tubing    DEDICATED Polyethylene Bailer    Grundfos Submersible Pump

Purge Water Disposal: Drummed for Offsite Treatment

| PARAMETERS<br>Units | pH<br>s.u.  | Spec. Cond.<br>ms/cm | Temp.<br>°C | Sample<br>Description |
|---------------------|-------------|----------------------|-------------|-----------------------|
| Initial Purge       | <u>7.54</u> | <u>2.013</u>         | <u>9.06</u> | <u>clear</u>          |
| Final Purge         | <u>7.70</u> | <u>1.047</u>         | <u>8.63</u> | <u>clear</u>          |

Sampling Method: circle one

Stainless Steel Bailer    Dedicated Poly Tubing from Sampling Port    Whale Pump with ET Tubing    DEDICATED Polyethylene Bailer    Grundfos Submersible Pump

Sample Number: BAT- EW-6 -180418  
Sample Collection Date/Time: 04/18/2018 1215  
Analysis Requested: EPA Method 8260

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler Signature: [Signature]

**TEXTRON, INC.**  
**FIELD SAMPLING DATA SHEET**  
**WELL PURGE - WATER QUALITY MEASUREMENTS**

Site Name: Textron, Wheatfield, NY  
Project Number: 631236330  
Well Number: MW- 93-03(1)  
Date: 04/ 18 /2018  
Field Personnel: K. Cronin, R. Urban (ALS)  
Physical Condition of Well: Good  
Well Diameter: 2"  
Air Monitoring Results: 0.0 ppmv  
Depth to Product: -  
Depth to Water: ~ 6.41  
Depth to Bottom: ~ 46.43  
Purge Volume: 6.6 GAL  
Volume Removed: ~ 6.6 GAL

\*Volume Factors: (circle one)  
1.25-inch well = 0.064 gal/ft  
2-inch well = 0.163 gal/ft  
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer    Dedicated Poly Tubing from Sampling Port    Whale Pump with ET Tubing    Dedicated Polyethylene Bailer    Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

| PARAMETERS<br>Units | pH<br>s.u. | Spec. Cond.<br>ms/cm | Temp.<br>°C | Sample<br>Description |
|---------------------|------------|----------------------|-------------|-----------------------|
| Initial Purge       | 7.44       | 1.774                | 8.55        | clear                 |
| Final Purge         | 7.18       | 1.849                | 10.05       | clear                 |

Sampling Method: circle one

Stainless Steel Bailer    Dedicated Poly Tubing from Sampling Port    Whale Pump with ET Tubing    Dedicated Polyethylene Bailer    Grundfos Submersible Pump

Sample Number: BAT- 93-03(1)-180418  
Sample Collection Date/Time: 04/ 18 /2018 1245  
Analysis Requested: EPA Method 8260

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler Signature: [Signature]



**Textron, Wheatfield  
Hydraulic Monitoring Event**

DATE: 04/18/2008

| Well ID   | Depth to Water          | Comments  |
|-----------|-------------------------|---|
| 87-01(0)  | ~ 11.59'                | To the left of the overhead doors of Felton Machine   |
| 87-01(1)  | ~ 12.95'                | To the left of the overhead doors of Felton Machine   |
| 87-02(1)  | ~ 11.05'                | Inside the Felton gate  |
| 87-02(3)  | ~ 10.43'                | Inside the Felton gate  |
| 87-04(0)  | ~ 6.30                  | Inside ARC next to DW10, adjacent to Walmore Avenue   |
| 87-04(1)  | ~ 9.42                  | Inside ARC next to DW10, adjacent to Walmore Avenue <i>PRODUCT</i> <i>BECKMANITE CEMENT</i> |
| 87-04(3)  | ~ 10.04                 | Inside ARC next to DW10, adjacent to Walmore Avenue <i>AND TO SS. RISE</i>                  |
| 87-05(1)  | ~ 9.44'                 | Across entrance to ARC, next to DW-11   |
| 87-05(3)  | ~ 9.41'                 | Across entrance to ARC, next to DW-11   |
| 87-08(1)  | ~ 9.17                  | North area of ARC, east of DW-9   |
| 87-10(0)  | ~ 8.35'                 | North of DW-12, in Textron parking lot, north of WWTP along Walmore                         |
| 87-10(1)  | ~ 11.81'                | North of DW-12, in Textron parking lot, north of WWTP along Walmore                         |
| 87-12(1)  | ~ 11.79                 | Corner of Niagara Falls Blvd. Next to EW-8  |
| 87-13(0)  | ~ <del>9.70</del> 5.61  | West of DW-10 on ARC property   |
| 87-13(1)  | ~ 10.25                 | West of DW-10 on ARC property   |
| 87-13(3)  | ~ 9.77                  | West of DW-10 on ARC property   |
| 87-14(0)  | ~ 5.14                  | On ARC property north of 87-13  |
| 87-14(1)  | ~ 9.16                  | On ARC property north of 87-13  |
| 87-14(3)  | ~ 9.53                  | On ARC property north of 87-13  |
| 87-15(0)  | ~ <del>5.61</del> 9.70  | On ARC property west of DW-9  |
| 87-15(1)  | ~ <del>10.25</del> 9.13 | On ARC property west of DW-9 <i>WHITE FOAM PRODUCT</i>                                      |
| 87-15(3)  | ~ <del>9.77</del> 8.88  | On ARC property west of DW-9 " " "  |
| 87-16(3B) | ~ 9.92                  | On ARC property in triangular area SW of capped pond  |
| 87-17(0)  | ~ 9.79                  | ARC property southwest of DW-9  |
| 87-17(1)  | ~ 8.93                  | ARC property southwest of DW-9  |
| 87-18(0)  | ~ 11.30'                | Next to EW-7 on NFB   |
| 87-18(1)  | ~ 14.15'                | Next to EW-7 on NFB   |

87-09(1) ~ 8.12'

**Textron, Wheatfield**  
**Hydraulic Monitoring Event**  
**DATE: 04/10 / 2018**

| Well ID  | Depth to Water <sup>#</sup><br>Pie | Comments  |
|----------|------------------------------------|---|
| 87-19(1) | ~ 11.53'                           | Old Textron Parking Lot along Cayuga Drive, closer to intersection of Walmore |
| 87-20(0) | ~ 3.65                             | Behind the bar on the corner of NFB and Walmore                               |
| 87-20(1) | ~ 6.94                             | Behind the bar on the corner of NFB and Walmore                               |
| 87-21(1) | ~ 5.83                             | On Cuyga Drive near the power lines   |
| 87-22(1) | ~ 12.23                            | Off Niagara Road  |
| 89-04(1) | ~ 2.35                             | Farm Property over Bridge off Niagara Road on right                           |
| 89-12(1) | ~ 11.30'                           | Next to DW-12 north of WWTP   |
| 89-14(0) | ~ 5.38                             | East side of Walmore Ave, north of ARC - NEED GPS COORDINATES                 |
| 89-14(1) | ~ 9.20                             | East side of Walmore Ave, north of ARC  |
| 89-15(1) | ~ 9.91                             | On ARC property, south of DW-10   |
| 93-03(1) | ~ 6.41'                            | South of EW-6, string hanging from power lines                                |
| 96-01(1) | ~ 12.40'                           | Next to EW-13   |
| B-8(0)   | ~ 6.19                             | Rear of ARC property, wrong cap   |
| B-14(1)  | ~ 10.51'                           | Near Felton building, south of ARC entrance                                   |
| EW-2     | ~ 5.38' (1)                        | VAULT FLOODED, ONLY ~ 1" FROM BOTTOM OF ELECTRICAL BOX                        |
| EW-3     | ~ 5.14 (2)                         | " "   |
| EW-4     | ~ 26.99'                           | NOT FLOODED   |
| EW-5     | ~ 4.87' (6)                        | VAULT FLOODED, SWITCH PUMP TO HAND  |
| EW-6     | ~ 5.31'                            | " "   |
| EW-7     | ~ 8.71' (3)                        | WATER FLOWING DOWN INTO WELL FROM VAULT                                       |
| EW-8     | ~ 4.86                             |   |
| DW-9     | ~ 0.61 (7)                         | FLOODED   |
| DW-10    | ~ 4.12                             |   |
| DW-11    | ~ 2.45' (1)                        | VAULT FLOODED, WATER ENTERING IN @ SIDE                                       |
| DW-12    | ~ 0.47' (2)                        | " "   |
| EW-13    | ~ 10.59'                           |   |

Extraction Wells water level elevation measured from top of vault grate.