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May 30, 2017

Ms. Gloria Sosa
Western New York Remediation Section
New York Remediation Branch
Emergency and Remediation Response Division
U.S. EPA – Region II
290 Broadway, 20th Floor
New York, NY 10007-1866

Dear Ms. Sosa:

**NECCO PARK FIRST QUARTER 2017 DATA PACKAGE**

Enclosed are two copies of the *First Quarter 2017 (1Q17) Data Package* for The Chemours Necco Park Hydraulic Control System (HCS) in accordance with the approved Long Term Groundwater Monitoring Plan. The data package includes an operational summary, process sample analytical data, figures showing hydrographs, potentiometric surface contours map, and vertical gradient maps. The data package also includes a 1Q17 monitoring summary for dense non-aqueous phase liquid (DNAPL).

Pumping system uptime for 1Q17 was 95.2 percent. The total volume of groundwater treated during 1Q17 was 3,234,923 gallons. DNAPL was monitored monthly and no DNAPL was observed during the quarter.

Please contact me at (716) 278-5496 if you have any questions or comments regarding this submittal.

Sincerely,

CORPORATE REMEDIATION GROUP

Paul F. Mazierski
Project Director

Enc. 1Q2017 Data Package

cc: M. Hinton/NYSDEC
E. Felter/Parsons

# SOURCE AREA HYDRAULIC CONTROL SYSTEM
# FIRST QUARTER 2017
## GROUNDWATER MONITORING DATA PACKAGE
## CHEMOURS NECCO PARK
## NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

**EPA ID No. NYD980532162**

***Prepared For:***

## THE CHEMOURS COMPANY FC LLC
## CORPORATE REMEDIATION GROUP

Buffalo Avenue and 26th Street
Niagara Falls, New York 14302

*Prepared By:*

PARSONS

40 La Riviere Drive, Suite 350
Buffalo, New York 14202
Phone: (716) 541-0730

**May 2017**

# TABLE OF CONTENTS

# SECTION 1

# DATA PACKAGE SUMMARY

## 1.1 INTRODUCTION

This data package presents a summary of operating and monitoring data collected during the first quarter of 2017 (1Q17) for groundwater remediation measures at the Chemours NECCO Park Site (Necco Park) in Niagara Falls, New York. Submission of this data package meets the reporting requirements defined in the agency-approved Long-Term Groundwater Monitoring Plan LTGMP (DuPont Corporate Remediation Group 2005) as well as agency-approved scope revisions (USEPA, 2010, 2012, 2015, and 2016).

This is the 47th data package submitted since the 2005 startup of the Necco Park Hydraulic Control System (HCS). It provides a summary of operations for the pumping wells and the Groundwater Treatment Facility (GWTF). Figures 1 through 13 are hydrographs depicting groundwater elevation since startup of the HCS, contours for six groundwater flow zones, and a map of vertical gradients between the A-Zone and the B-Zone. Groundwater elevation data are provided as a hard copy in Appendix A and as an electronic copy in Attachment 1.

## 1.2 OPERATIONAL SUMMARY

The following table provides a summary of average HCS uptime, total gallons of groundwater treated, and gallons of dense non-aqueous phase liquid (DNAPL) removed for 1Q17:

| | HCS Uptime (%) | Groundwater Treated (gallons) | DNAPL Removed (gallons) |
|---|---|---|---|
| January | 96.9% | 1,194,566 | 0 |
| February | 97.0% | 973,407 | 0 |
| March | 91.7% | 1,066,590 | 0 |
| **1Q17 Total** | **95.2%** | **3,234,923** | **0** |

System downtime is categorized into two groups: HCS downtime and individual recovery well downtime. Both categories are further grouped into unscheduled and scheduled downtime. There was no scheduled or unscheduled HCS downtime greater than 48 hours in 1Q17. However, the system was shut down as a precaution, due to high winds during the afternoon of March 8 and was restarted the morning of March 9. System downtime was less than 48 hours. There was one unscheduled well downtime during the quarter that was greater than 48 hours. RW-5 was down for 59 hours from February 17 through 20 due to a restricted pump intake and impeller failure. Total downtime was approximately 59 hours.

Table 1 provides a summary of well downtime for the quarter. Table 2 provides a historical operations summary by quarter since HCS operations began.

Monthly DNAPL monitoring was completed January 30, February 28, and March 29 during 1Q17. No DNAPL was observed in any of the wells during the monitoring for this quarter, as such, no DNAPL was removed during the quarter.

## 1.3 GWTF PROCESS SAMPLING

GWTF influent samples (from B/C-Zone and D/E/F-Zone) and a combined effluent sample were collected in 1Q17 in accordance with the SAMP and the approved reduction to VOCs only (USEPA, January 2012). Samples were collected by TestAmerica Laboratories of Amherst, New York on January 26, 2017 and shipped to the TestAmerica Laboratories in North Canton, Ohio for analysis. Sample results for the process sampling are included in Appendix B.

## 1.4 POTW COMPLIANCE

As required by the publicly-owned treatment works (POTW) Significant Industrial User (SIU) Permit #76 for Necco Park, the GWTF discharge is sampled and reported quarterly to the Niagara Falls Water Board (NFWB). The most recent Necco Park 1Q17 sewer discharge samples were collected on December 15, 2016 (following NFWB quarterly calendar). There were no permit limit exceedances in 1Q17. The results indicate that the GWTF continued operating within normal parameters during 1Q17.

# SECTION 2

# REFERENCES

DuPont Corporate Remediation Group, 2005. DuPont Necco Park Operations and Maintenance Plan. November 11, 2005.

DuPont Corporate Remediation Group, 2011. Letter regarding revisions to DuPont NECCO Park Groundwater Monitoring Program, December 8, 2011.

USEPA, 2012. Letter approving changes to the monitoring program, July 16, 2010

USEPA, 2012. Letter approving changes to the monitoring program, January 27, 2012

USEPA, 2015. Letter approving changes to DNAPL monitoring program, June 11, 2015

USEPA, 2016. Letter approving changes to the monitoring program, October 19, 2016

# TABLES

# Table 1

## Individual Well Shutdown Summary for 1Q17
## Chemours Necco Park

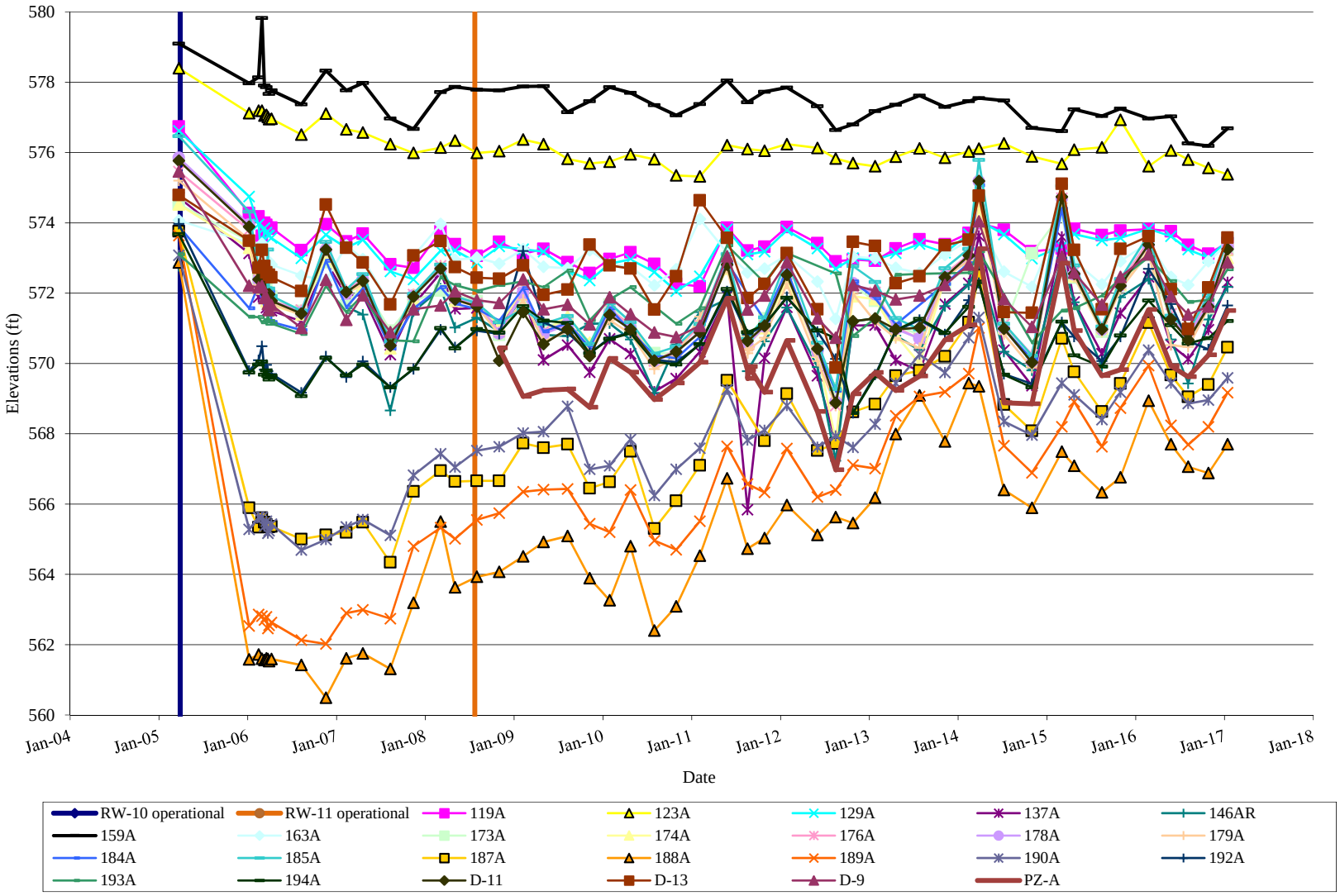
| | Well ID | Date(s) | Length of Shutdown (hours) | Reason for Shutdown | Remarks |
|---|---|---|---|---|---|
| January | | | | | No wells were down for greater than 48 hours in January 2017. |
| February | RW-5 | February 17 through 20 | 59 | Unscheduled: Restricted pump intake and impeller failure. | |
| March | | | | | No wells were down for greater than 48 hours in March 2017. |

**Table 2**
**Historical HCS Operational Summary - 1Q17**
**Chemours Necco Park**

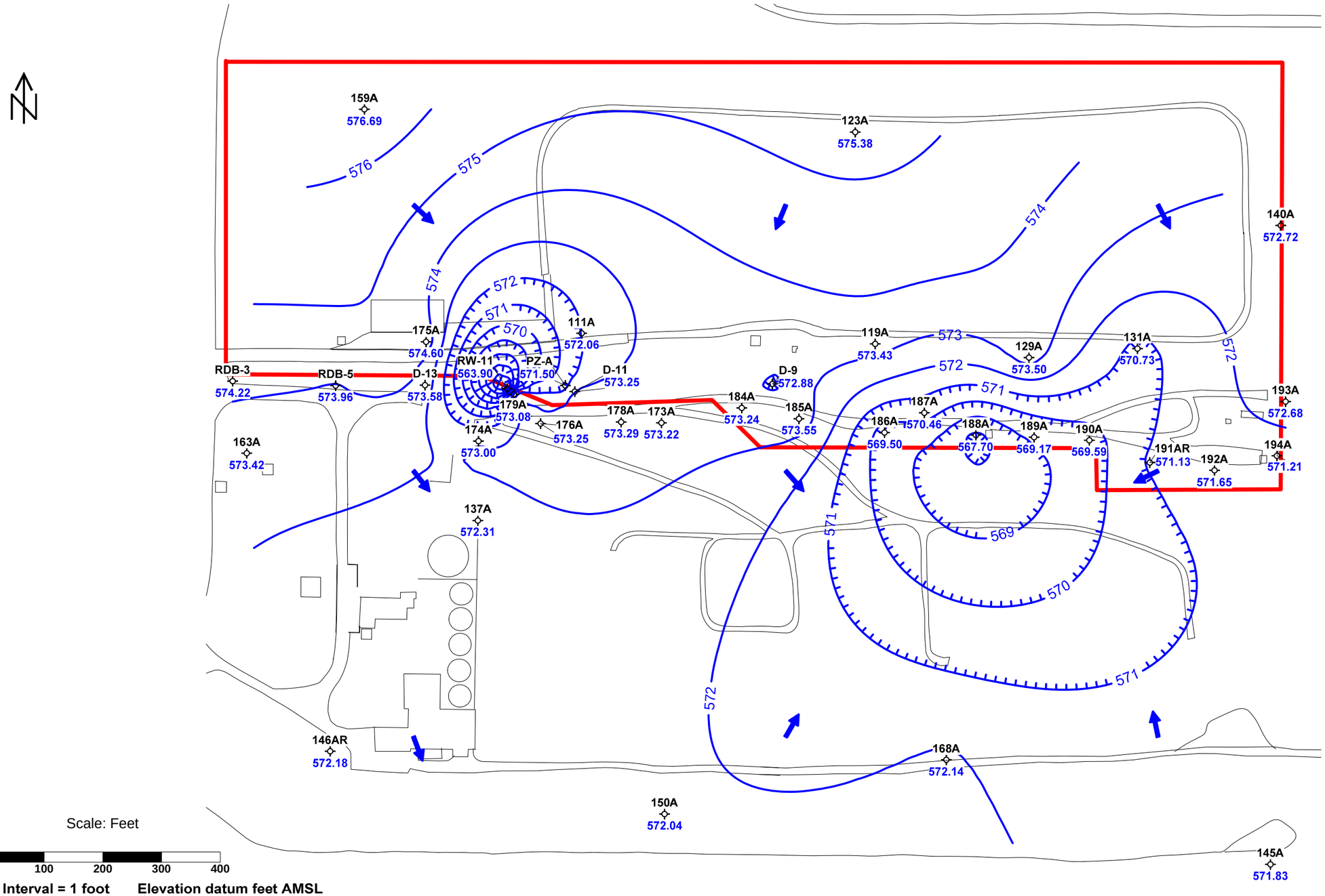
| Reporting Period | HCS Uptime (%) | HCS Uptime Excluding Scheduled Maintenance Downtime (%) | Groundwater Treated (Gallons) | DNAPL Removed (Gallons) |
|---|---|---|---|---|
| 2Q05 | 97.3 | 97.6 | 3,349,590 | 73.5 |
| 3Q05 | 89.3 | 91.4 | 3,117,280 | 30 |
| 4Q05 | 93.6 | 96.5 | 3,225,819 | 0 |
| 1Q06 | 99.4 | 99.4 | 2,889,134 | 24 |
| 2Q06 | 97.5 | 98.1 | 3,486,835 | 74 |
| 3Q06 | 88.7 | 90.9 | 3,181,365 | 28 |
| 4Q06 | 91.0 | 93.8 | 2,787,745 | 25 |
| 1Q07 | 91.2 | 91.2 | 2,638,005 | 15 |
| 2Q07 | 93.8 | 94.2 | 2,882,064 | 52 |
| 3Q07 | 92.0 | 92.5 | 3,497,149 | 51 |
| 4Q07 | 91.2 | 92.0 | 2,697,915 | 35 |
| 1Q08 | 92.6 | 93.5 | 2,761,674 | 65 |
| 2Q08 | 95.9 | 95.9 | 2,902,261 | 279 |
| 3Q08 | 77.2 | 80.0 | 3,112,202 | 124 |
| 4Q08 | 70.3 | 72.2 | 3,468,710 | 44 |
| 1Q09 | 88.7 | 89.6 | 4,442,026 | 0 |
| 2Q09 | 95.0 | 95.0 | 4,117,084 | 0 |
| 3Q09 | 95.3 | 95.3 | 4,069,280 | 0 |
| 4Q09 | 95.8 | 95.8 | 3,663,740 | 0 |
| 1Q10 | 98.3 | 98.3 | 3,921,478 | 90 |
| 2Q10 | 77.0 | 100.0 | 3,259,485 | 0 |
| 3Q10 | 100.0 | 100.0 | 3,398,078 | 0 |
| 4Q10 | 93.8 | 99.1 | 3,195,727 | 0 |
| 1Q11 | 94.6 | 97.6 | 3,679,957 | 70 |
| 2Q11 | 89.6 | 89.6 | 3,370,066 | 48 |
| 3Q11 | 91.7 | 96.2 | 2,947,721 | 0 |
| 4Q11 | 86.5 | 91.4 | 3,167,844 | 12 |
| 1Q12 | 93.6 | 93.6 | 3,138,892 | 0 |
| 2Q12 | 94.3 | 94.3 | 3,926,572 | 72 |
| 3Q12 | 89.1 | 89.8 | 3,913,978 | 0 |
| 4Q12 | 94.6 | 94.6 | 4,248,337 | 0 |
| 1Q13 | 93.4 | 93.4 | 4,200,081 | 40 |
| 2Q13 | 88.6 | 88.6 | 4,115,050 | 57 |
| 3Q13 | 90.3 | 90.3 | 3,758,479 | 25 |
| 4Q13 | 91.2 | 91.2 | 3,559,683 | 0 |
| 1Q14 | 96.0 | 96.0 | 3,683,342 | 0 |
| 2Q14 | 95.3 | 95.3 | 3,789,669 | 0 |
| 3Q14 | 89.3 | 89.3 | 3,660,343 | 0 |
| 4Q14 | 96.8 | 96.8 | 3,291,496 | 0 |
| 1Q15 | 92.0 | 92.0 | 3,297,700 | 28 |
| 2Q15 | 77.7 | 98.9 | 3,262,714 | 0 |
| 3Q15 | 56.4 | 97.8 | 1,993,440 | 0 |
| 4Q15 | 90.1 | 95.6 | 3,453,781 | 40 |
| 1Q16 | 97.5 | 97.5 | 3,440,875 | 0 |
| 2Q16 | 74.4 | 97.1 | 3,723,706 | 0 |
| 3Q16 | 71.2 | 90.4 | 2,471,085 | 0 |
| 4Q16 | 90.5 | 100.0 | 3,086,585 | 0 |
| 1Q17 | 95.2 | 95.2 | 3,234,923 | 0 |
| **TOTALS** | **---** | **---** | **162,480,965** | **1,402** |
| **AVERAGE** | **90.1** | **93.8** | **---** | **---** |

# FIGURES

**Figure 1**
**Select A-Zone Monitoring Wells**
**Groundwater Elevations 2005 Through 1st Quarter 2017**
**Chemours Necco Park**




Necco 2017 A Zone Water Elev Trends.xlsx




Scale: Feet

0 100 200 300 400

**Contour Interval = 1 foot** **Elevation datum feet AMSL**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| | |
|---|---|
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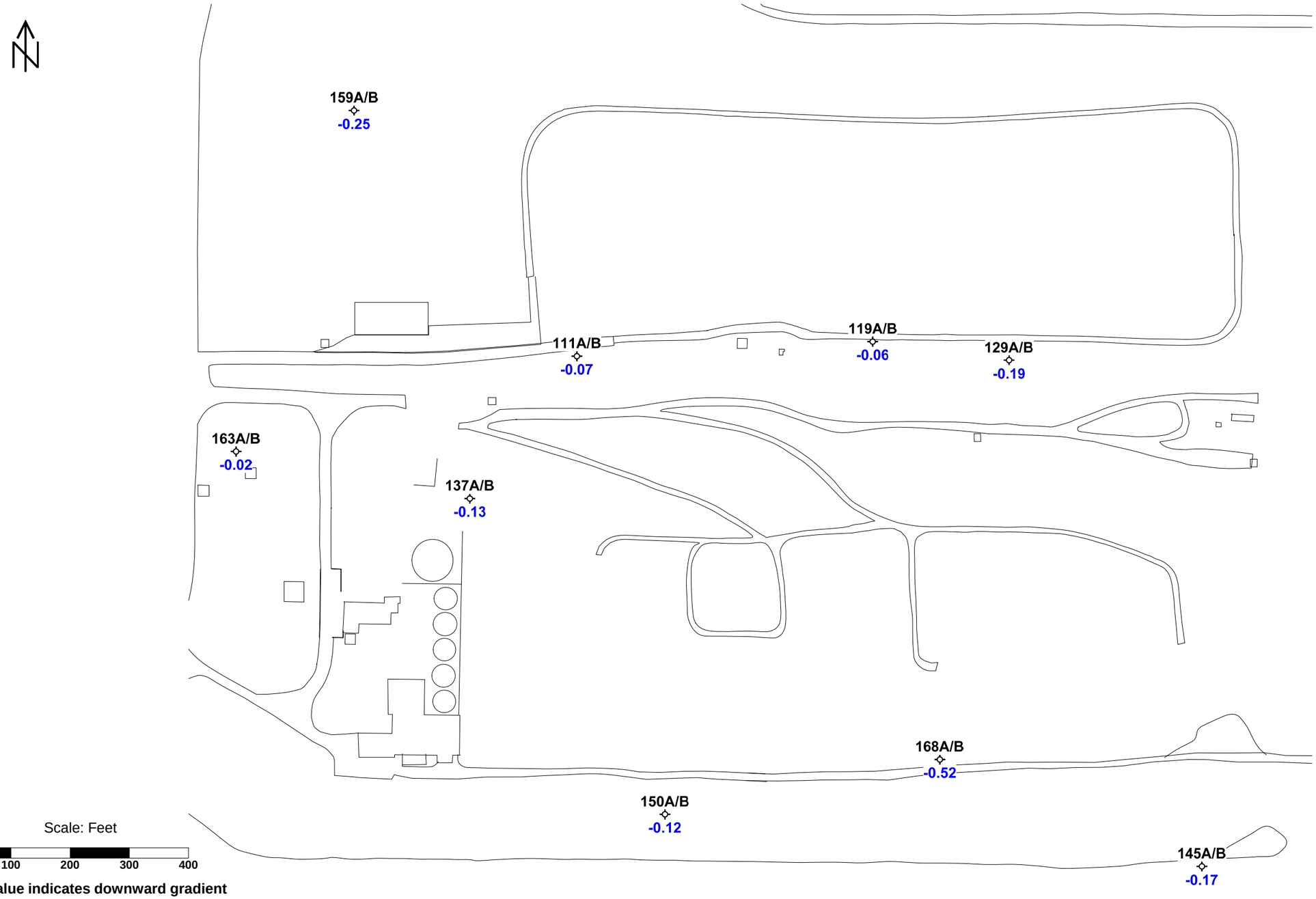
| Project Manager: EAF | Date: 4-06-2016 |
| | |
| Job number: 450326.02020 | |

**LEGEND**

| | | | |
|---|---|---|---|
| 3B | Well ID | Potentiometric Contour | Source Area Extent |
| | Monitoring Well | Structure | |
| | Pumping Well | Road | |

**Figure 2**
**Potentiometric Surface Map**
**Chemours Necco Park: A-Zone**
**January 26, 2017**

//nybuf03fs01/Dupont$/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - A PZ - F2.srf




Scale: Feet

0 100 200 300 400

**Negative value indicates downward gradient**

**Elevation datum feet AMSL**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| | |
| Job number: 450326.02020 | |

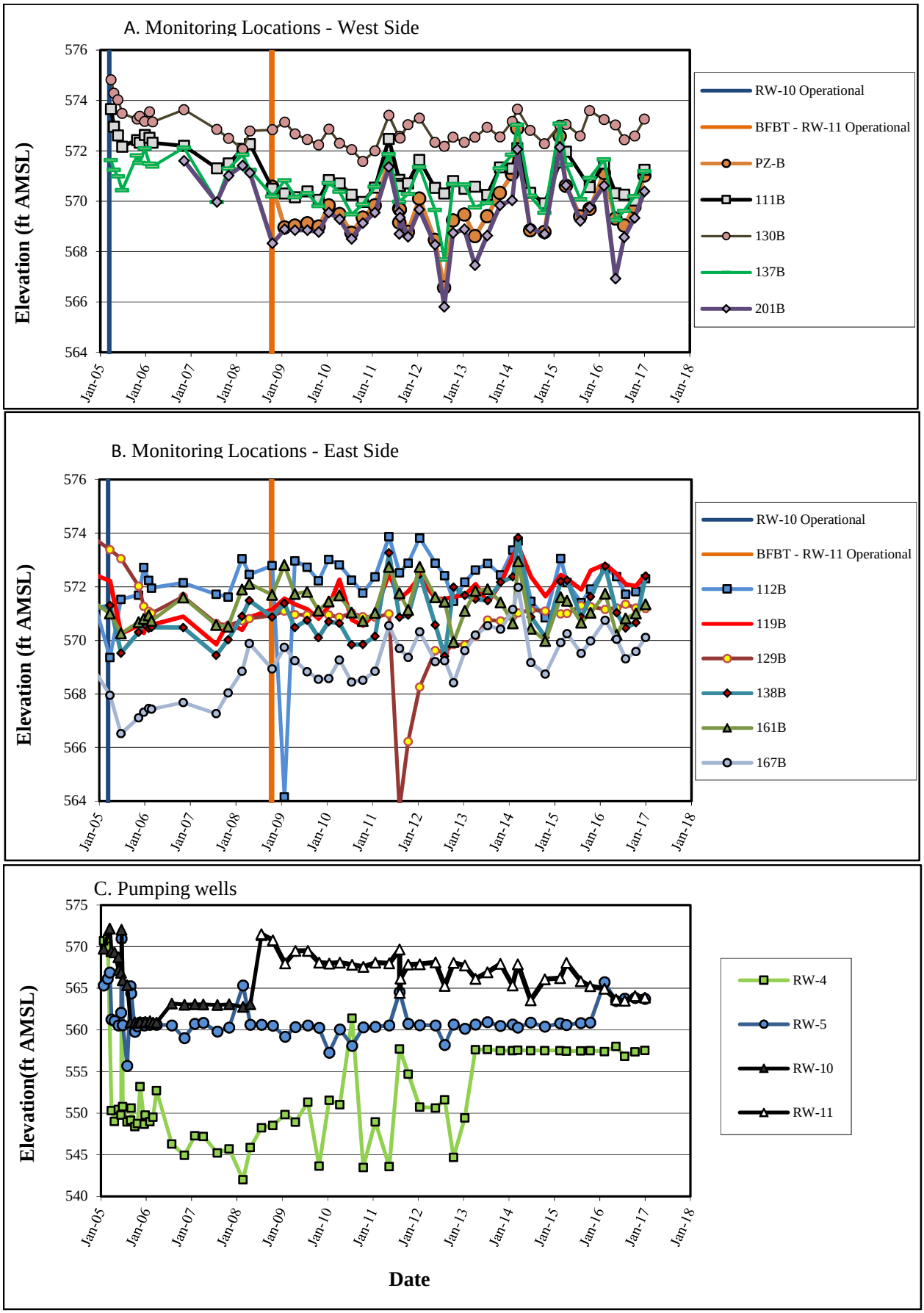
**LEGEND**

| | | | |
|---|---|---|---|
| 150A/B | Well ID | Structure | -0.15 Vertical Hydraulic Gradient |
| | Monitoring Well | | |
| | Pumping Well | Road | |

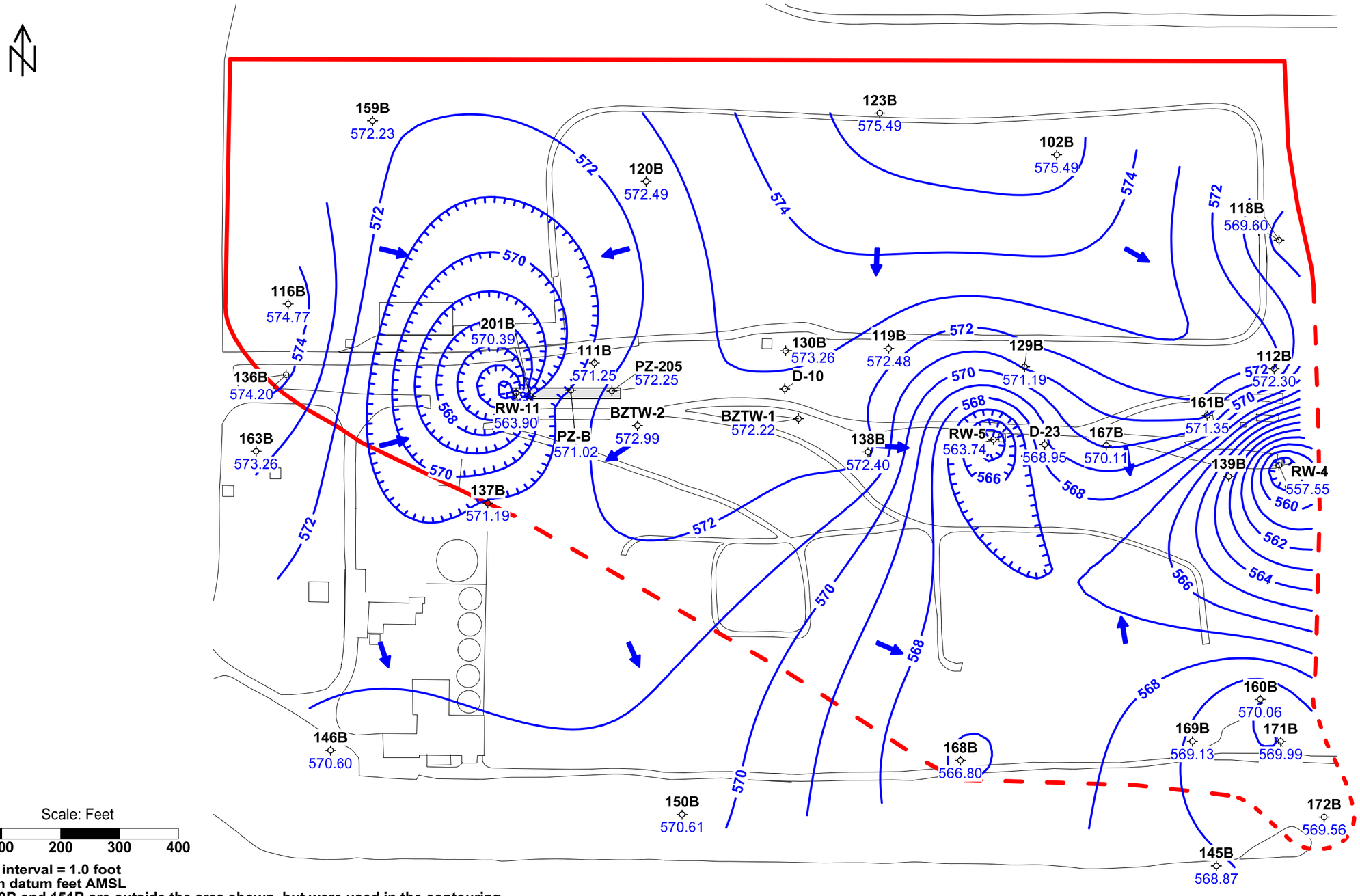
**Figure 3**
**Vertical Gradient: A-Zone to B-Zone**
**Chemours Necco Park**
**January 26, 2017**

//nybuf03fs01/DuPontS/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - ABvgrad - F3.srf

**Figure 4**
**Select B-Zone Monitoring Wells**
**Groundwater Elevations 2005 through 1st Quarter 2017**
**Chemours Necco Park**




Necco 2017 B Zone Water Elev Trends.xlsx




Scale: Feet

0 100 200 300 400

**Contour interval = 1.0 foot**
**Elevation datum feet AMSL**
**Wells 149B and 151B are outside the area shown, but were used in the contouring.**
**Wells 170B, D-10, 139B, TRW-6, and TRW-7 were not used in the contouring.**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| Project Manager: EAF | Date: 4-06-2016 |
| | |
| Job number: 450326.02020 | |

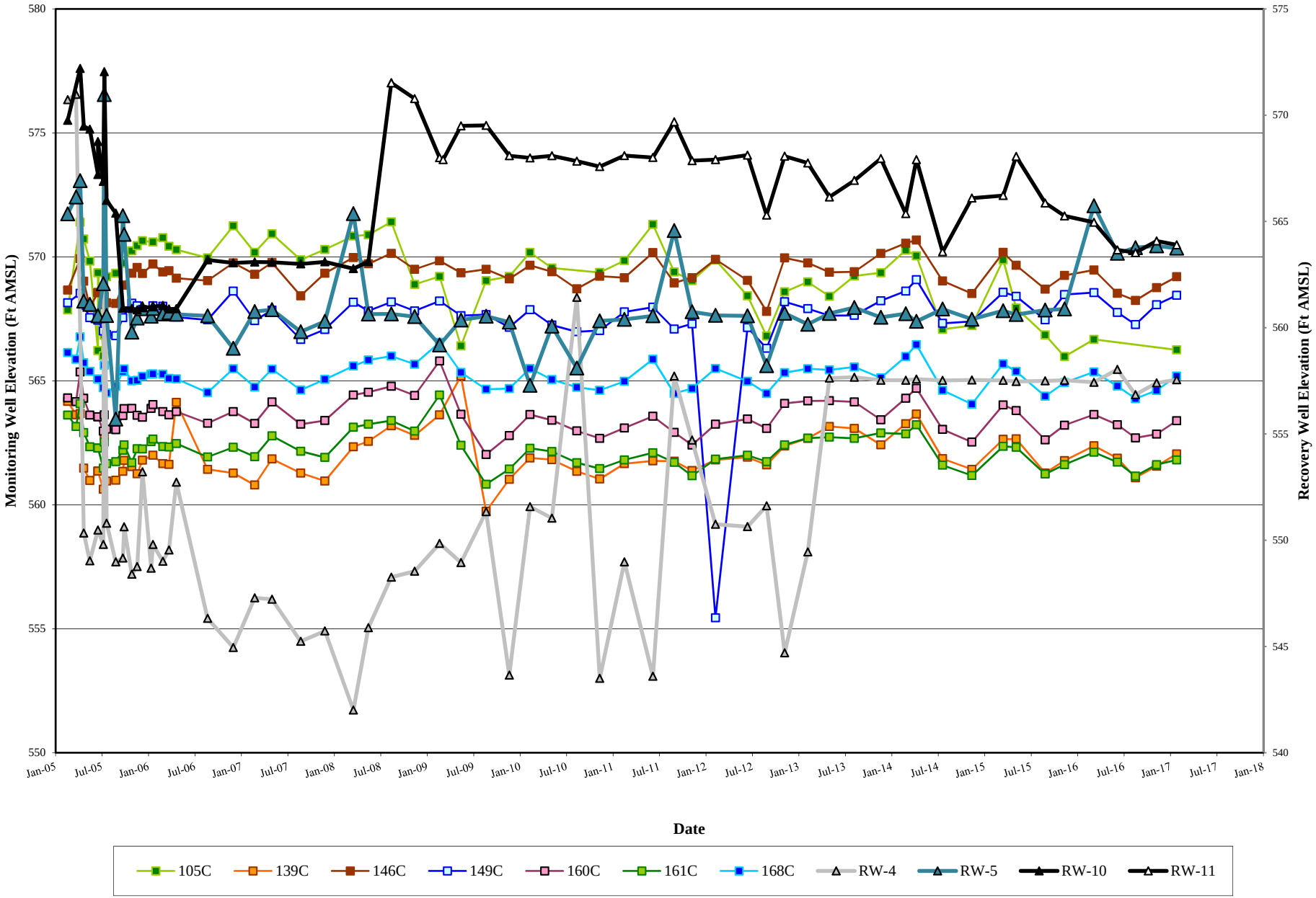
**LEGEND**

| | | | |
|---|---|---|---|
| 3B | Well ID | Potentiometric Contour | Source Area Extent |
| | Monitoring Well | Structure | Approximate Location of Bedrock Fractured Blast Trench |
| | Pumping Well | Road | |

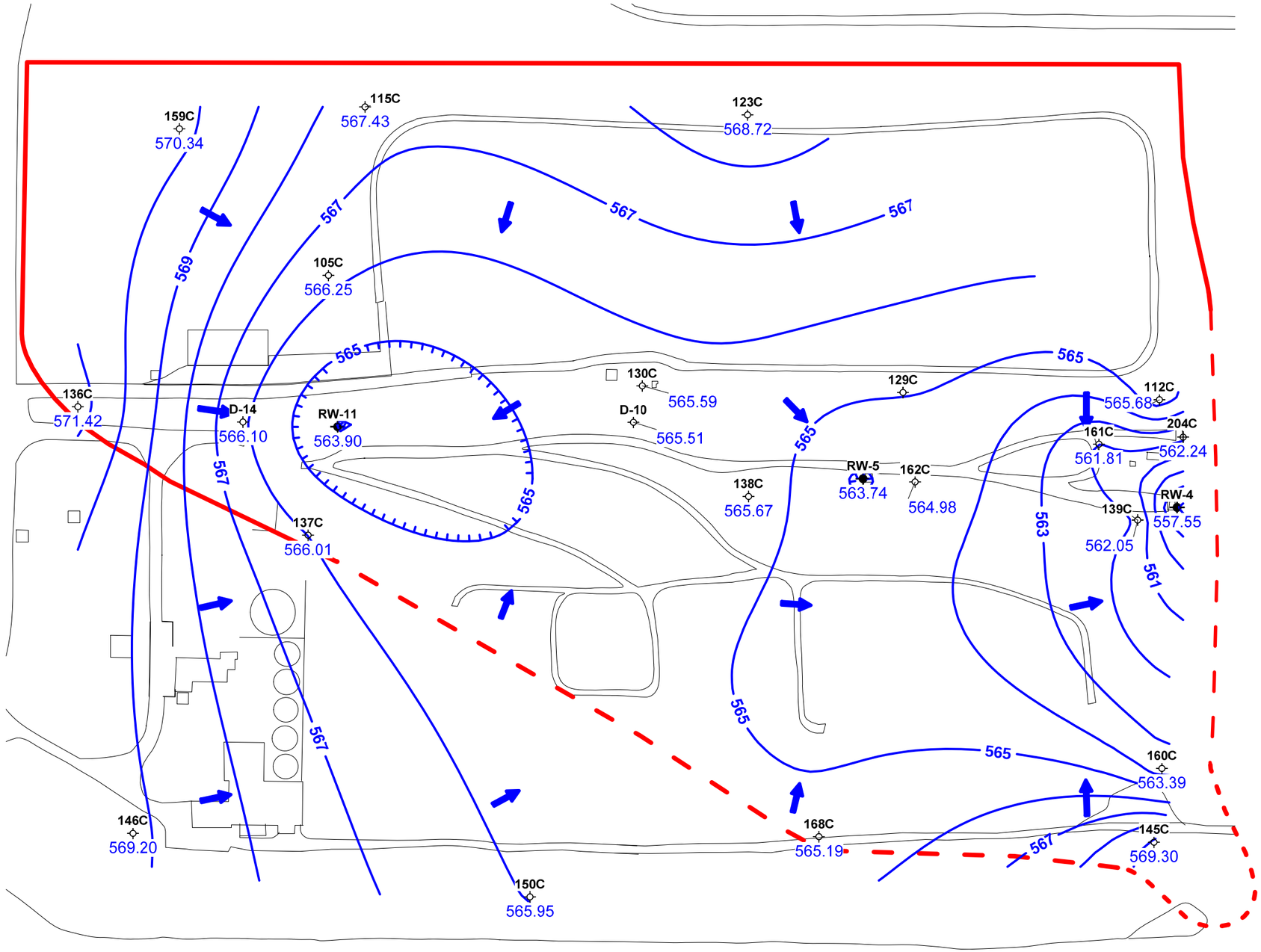
# Figure 5
# Potentiometric Surface Map
# Chemours Necco Park: B-Zone
# January 26, 2017

//nybuf03fs01/Dupont$/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - PZ B - F5.srf

**Figure 6**
**Select C-Zone Monitoring Wells**
**Groundwater Elevations 2005 Through 1st Quarter 2017**
**Chemours Necco Park**




Necco 2017 C Zone Water Elev Trends.xlsx




Scale: Feet

0 100 200 300 400

Contour interval = 1.0 foot
Elevation datum feet AMSL

**Wells 149C and 151C are outside the area shown, but were used in the contouring.**
**The water level for 129C in January 2017 was erroneously high and was not used in the contouring.**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| Project Manager: EAF | Date: 4-06-2016 |
| | |
| Job number: 450326.02020 | |

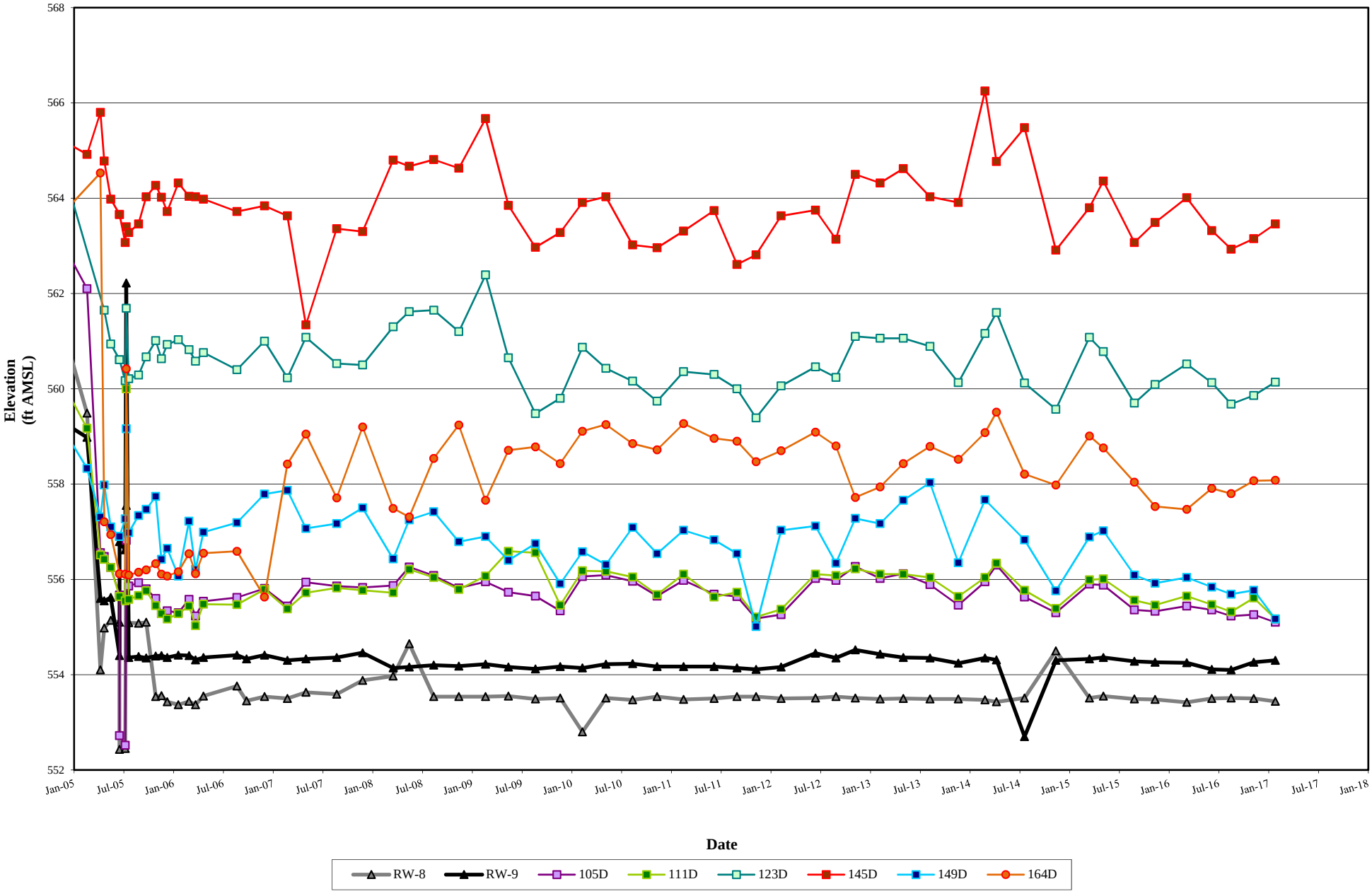
**LEGEND**

- 3B — Well ID
- Monitoring Well
- Pumping Well
- Potentiometric Contour
- Structure
- Road
- Source Area Extent

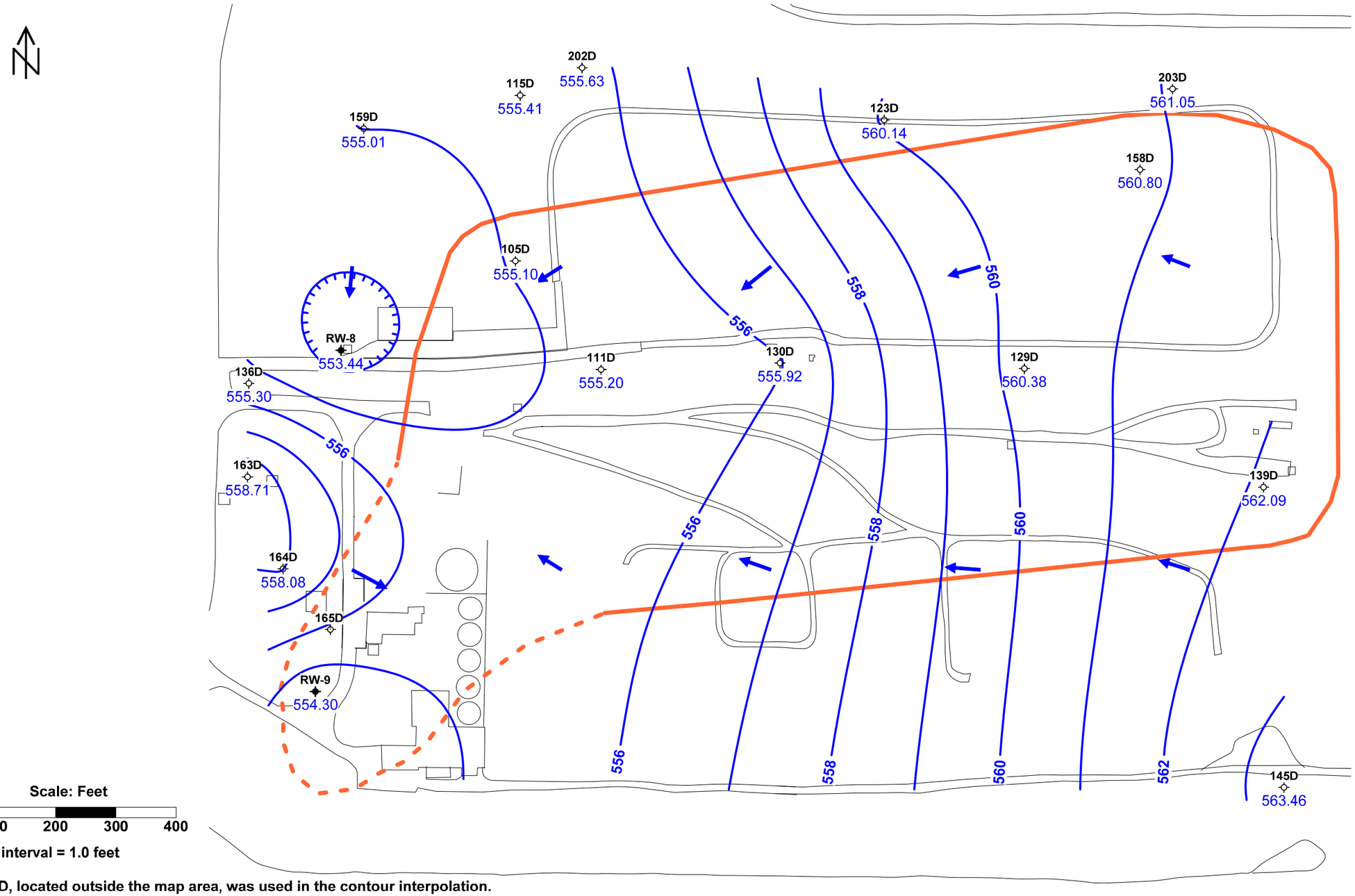
# Figure 7
# Potentiometric Surface Map
# Chemours Necco Park: C-Zone
# January 26, 2017

//nybuf03fs01/DupontS/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - PZ C - F7.srf

**Figure 8**
**Select D-Zone Monitoring Wells**
**Groundwater Elevations 2005 through 1st Quarter 2017**
**Chemours Necco Park**




Necco 2017 D Zone Water Elev Trends.xlsx




Scale: Feet

0 100 200 300 400

Contour interval = 1.0 feet

**Well 149D, located outside the map area, was used in the contour interpolation.**
**Well 148D located downgradient was not used in the interpolation.**
**Well 165D was not used in the contour interpolation.**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| | |
|---|---|
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| Project Manager: EAF | Date: 4-06-2016 |
| | |
| Job number: 450326.02020 | |

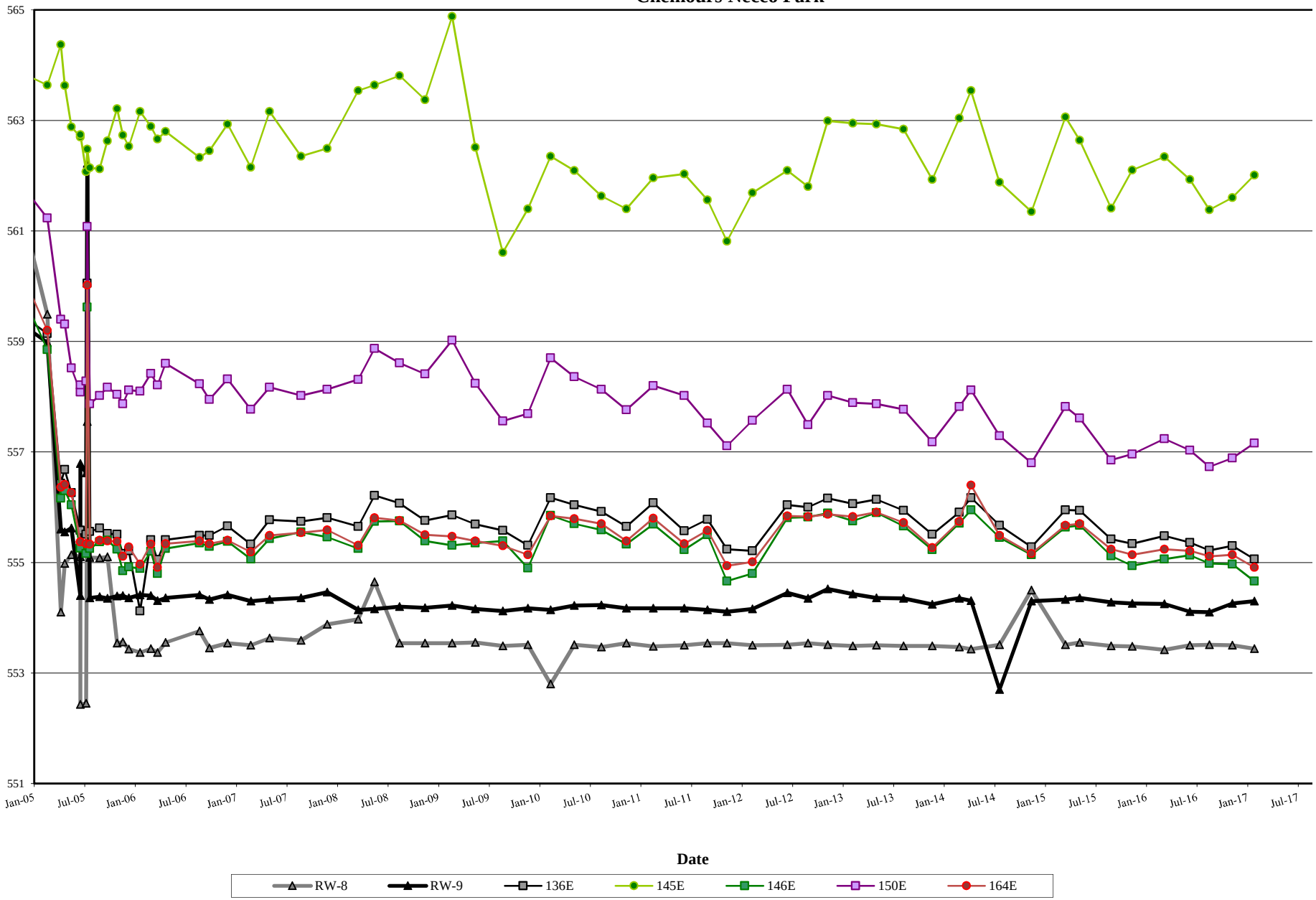
**LEGEND**

| | | | |
|---|---|---|---|
| 3B | Well ID | Potentiometric Contour | Source Area Extent |
| | Monitoring Well | Structure | |
| | Pumping Well | Road | |

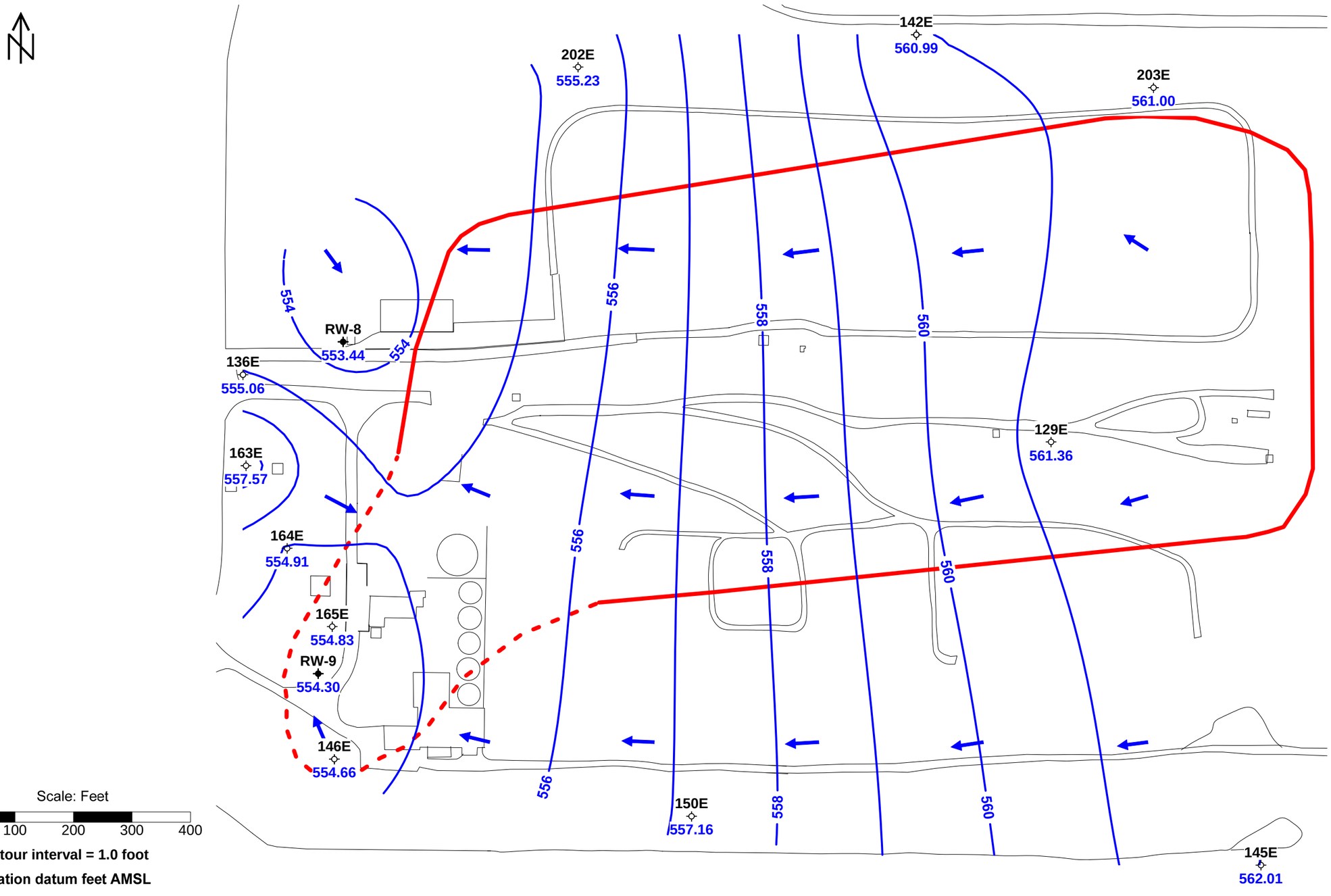
**Figure 9**
**Potentiometric Surface Map**
**Chemours Necco Park: D-Zone**
**January 26, 2017**

//nybuf03fs01/Dupont$/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - PZ D - F9.srf

**Figure 10**
**Select E-Zone Monitoring Wells**
**Groundwater Elevations 2005 Through 1st Quarter 2017**
**Chemours Necco Park**




Necco 2017 E Zone Water Elev Trends.xlsx





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| Project Manager: EAF | Date: 4-06-2016 |
| | |
| Job number: 450326.02020 | |

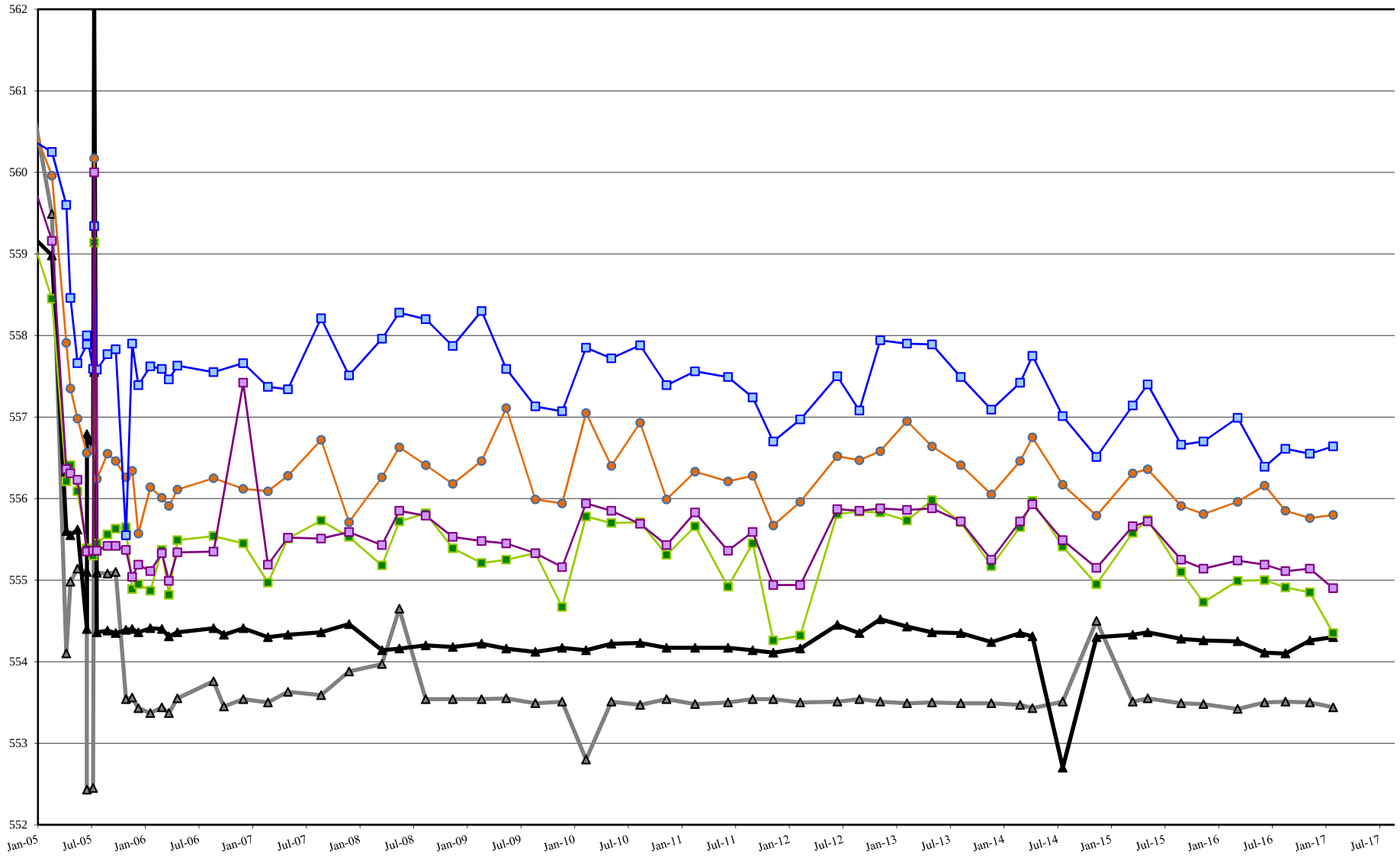
**LEGEND**

| | | | |
|---|---|---|---|
| 3B | Well ID | Potentiometric Contour | Source Area Extent |
| | Monitoring Well | Structure | |
| | Pumping Well | Road | |

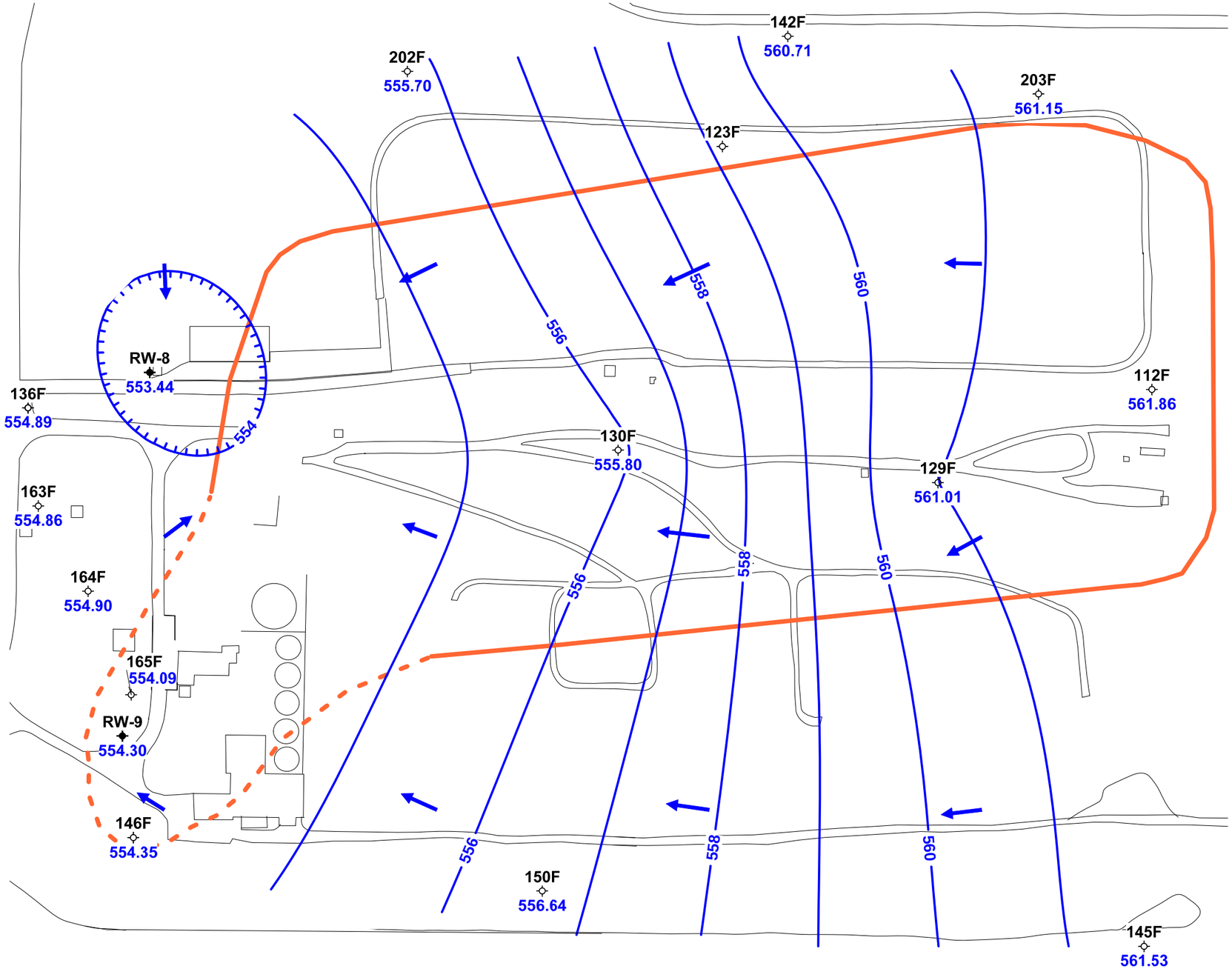
**Figure 11**
**Potentiometric Surface Map**
**Chemours Necco Park: E-Zone**
**January 26, 2017**

//nybuf03fs01/Dupont$/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - PZ E - F11.srf

**Figure 12**
**Select F-Zone Monitoring Wells**
**Groundwater Elevations 2005 Through 1st Quarter 2017**
**Chemours Necco Park**




Necco 2017 F Zone Water Elev Trends.xlsx




Scale: Feet

0 100 200 300 400

**Contour interval = 0.5 foot**

**Elevation datum feet AMSL**

**148F located downgradient was not used in the interpolation.**

**The water level for 123F was erroneously high and was not used in the contouring.**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| Project Manager: EAF | Date: 4-06-2016 |
| | |
| Job number: 450326.02020 | |

**LEGEND**

| | | | |
|---|---|---|---|
| 3B | Well ID | Potentiometric Contour | Source Area Extent |
| | Monitoring Well | Structure | |
| | Pumping Well | Road | |

**Figure 13**
**Potentiometric Surface Map**
**Chemours Necco Park: F-Zone**
**January 26, 2017**

//nybuf03fs01/Dupont$/Necco/HydroGeo/Hydro/GW_contours/2017-01-26 NEC Contour Tool/2017-01-26 - PZ F - F13.srf

# APPENDIX A

# CHEMOURS NECCO PARK
# GROUNDWATER ELEVATION DATA
# FIRST QUARTER 2017

**APPENDIX A**
**GROUNDWATER ELEVATION DATA - 1Q17**
**Chemours Necco Park**

| Location ID | Date Measured | Depth to Water | Reference Elevation | GW Elevation | Time Measured |
|---|---|---|---|---|---|
| 102B | 01/26/2017 | 23.52 | 599.01 | 575.49 | 12:25 |
| 105C | 01/26/2017 | 29.03 | 595.28 | 566.25 | 13:09 |
| 105D | 01/26/2017 | 39.67 | 594.77 | 555.1 | 13:07 |
| 111A | 01/26/2017 | 14.83 | 586.89 | 572.06 | 11:50 |
| 111B | 01/26/2017 | 13.69 | 584.94 | 571.25 | 11:52 |
| 111D | 01/26/2017 | 29.13 | 584.3 | 555.2 | 11:53 |
| 112B | 01/26/2017 | 9.56 | 581.9 | 572.3 | 12:14 |
| 112C | 01/26/2017 | 17.25 | 582.93 | 565.68 | 12:13 |
| 112F | 01/26/2017 | 21.43 | 583.29 | 561.86 | 12:15 |
| 115C | 01/26/2017 | 28.5 | 595.93 | 567.43 | 13:17 |
| 115D | 01/26/2017 | 41.21 | 596.62 | 555.41 | 13:16 |
| 116B | 01/26/2017 | 15.28 | 590.05 | 574.77 | 11:44 |
| 118B | 01/26/2017 | 14.35 | 583.9 | 569.6 | 12:19 |
| 119A | 01/26/2017 | 12.91 | 586.34 | 573.43 | 12:02 |
| 119B | 01/26/2017 | 14.29 | 586.77 | 572.48 | 12:03 |
| 120B | 01/26/2017 | 26.69 | 599.18 | 572.49 | 12:36 |
| 123A | 01/26/2017 | 22.55 | 597.93 | 575.38 | 12:28 |
| 123B | 01/26/2017 | 20.49 | 595.98 | 575.49 | 12:33 |
| 123C | 01/26/2017 | 26.7 | 595.42 | 568.72 | 12:32 |
| 123D | 01/26/2017 | 36.37 | 596.51 | 560.14 | 12:31 |
| 123F | 01/26/2017 | 31.42 | 598.57 | 567.15 | 12:27 |
| 129A | 01/26/2017 | 11.34 | 584.8 | 573.5 | 12:08 |
| 129B | 01/26/2017 | 14.05 | 585.24 | 571.19 | 12:07 |
| 129C | 01/26/2017 | 12.17 | 585.68 | 573.51 | 12:07 |
| 129D | 01/26/2017 | 25.65 | 586.03 | 560.38 | 12:06 |
| 129E | 01/26/2017 | 19.52 | 580.88 | 561.36 | 12:41 |
| 129F | 01/26/2017 | 20.35 | 581.36 | 561.01 | 12:43 |
| 130B | 01/26/2017 | 12.37 | 585.63 | 573.26 | 11:57 |
| 130C | 01/26/2017 | 19.92 | 585.51 | 565.59 | 11:58 |
| 130D | 01/26/2017 | 29.04 | 584.96 | 555.92 | 11:59 |
| 130F | 01/26/2017 | 25.69 | 581.49 | 555.8 | 12:17 |
| 131A | 01/26/2017 | 14.7 | 585.43 | 570.73 | 12:11 |
| 136B | 01/26/2017 | 7.49 | 581.69 | 574.2 | 11:25 |
| 136C | 01/26/2017 | 10.2 | 581.62 | 571.42 | 11:24 |
| 136D | 01/26/2017 | 24.38 | 579.68 | 555.3 | 11:23 |
| 136E | 01/26/2017 | 24.53 | 579.59 | 555.06 | 11:23 |
| 136F | 01/26/2017 | 25.44 | 580.33 | 554.89 | 12:46 |
| 136F | 01/26/2017 | 25.48 | 580.33 | 554.85 | 11:21 |
| 136G | 01/26/2017 | 21.38 | 579.76 | 558.38 | 12:47 |
| 136G | 01/26/2017 | 21.73 | 579.76 | 558.03 | 11:22 |
| 137A | 01/26/2017 | 6.16 | 578.47 | 572.31 | 11:49 |
| 137B | 01/26/2017 | 7.12 | 578.31 | 571.19 | 11:51 |
| 137C | 01/26/2017 | 12.38 | 578.39 | 566.01 | 11:52 |

**APPENDIX A**
**GROUNDWATER ELEVATION DATA - 1Q17**
**Chemours Necco Park**

| Location ID | Date Measured | Depth to Water | Reference Elevation | GW Elevation | Time Measured |
|---|---|---|---|---|---|
| 137D | 01/26/2017 | 14.71 | 579.09 | 564.38 | 11:48 |
| 138B | 01/26/2017 | 11.58 | 583.98 | 572.4 | 12:26 |
| 138C | 01/26/2017 | 21.39 | 587.06 | 565.67 | 12:25 |
| 139B | 01/26/2017 | 5.25 | 585.39 | 580.14 | 12:53 |
| 139C | 01/26/2017 | 23.22 | 585.27 | 562.05 | 12:54 |
| 139D | 01/26/2017 | 23.4 | 585.49 | 562.09 | 12:56 |
| 140A | 01/26/2017 | 8.83 | 581.55 | 572.72 | 12:20 |
| 142E | 01/26/2017 | 25.01 | 586 | 560.99 | 12:41 |
| 142F | 01/26/2017 | 24.98 | 585.69 | 560.71 | 12:42 |
| 145A | 01/26/2017 | 4.01 | 575.84 | 571.83 | 12:08 |
| 145B | 01/26/2017 | 6.61 | 575.48 | 568.87 | 12:10 |
| 145C | 01/26/2017 | 6.64 | 575.9 | 569.3 | 11:38 |
| 145D | 01/26/2017 | 12.59 | 576.05 | 563.46 | 11:38 |
| 145E | 01/26/2017 | 13.97 | 575.98 | 562.01 | 12:09 |
| 145F | 01/26/2017 | 14.52 | 576.05 | 561.53 | 12:09 |
| 146AR | 01/26/2017 | 4.74 | 576.92 | 572.18 | 11:20 |
| 146B | 01/26/2017 | 6.32 | 576.9 | 570.6 | 11:25 |
| 146C | 01/26/2017 | 7.15 | 576.35 | 569.2 | 11:28 |
| 146E | 01/26/2017 | 21.42 | 576.08 | 554.66 | 11:22 |
| 146F | 01/26/2017 | 21.69 | 576.04 | 554.35 | 11:24 |
| 148D | 01/26/2017 | 8.87 | 579.38 | 570.51 | 13:21 |
| 148F | 01/26/2017 | 23.38 | 576.21 | 552.83 | 13:21 |
| 149B | 01/26/2017 | 3.25 | 572.87 | 569.62 | 12:27 |
| 149C | 01/26/2017 | 4.81 | 573.26 | 568.45 | 12:24 |
| 149D | 01/26/2017 | 17.69 | 572.86 | 555.17 | 12:25 |
| 150A | 01/26/2017 | 3.82 | 575.86 | 572.04 | 11:58 |
| 150B | 01/26/2017 | 5.38 | 575.99 | 570.61 | 11:57 |
| 150C | 01/26/2017 | 10.18 | 576.13 | 565.95 | 11:57 |
| 150E | 01/26/2017 | 18.99 | 576.15 | 557.16 | 11:56 |
| 150F | 01/26/2017 | 19.34 | 575.98 | 556.64 | 11:56 |
| 151B | 01/26/2017 | 6.29 | 573.36 | 567.07 | 12:49 |
| 151C | 01/26/2017 | 4.85 | 573.18 | 568.33 | 12:48 |
| 158D | 01/26/2017 | 37.44 | 598.2 | 560.8 | 12:23 |
| 159A | 01/26/2017 | 19.47 | 596.16 | 576.69 | 13:14 |
| 159B | 01/26/2017 | 24.14 | 596.37 | 572.23 | 13:13 |
| 159C | 01/26/2017 | 27.02 | 597.36 | 570.34 | 13:13 |
| 159D | 01/26/2017 | 42.66 | 597.67 | 555.01 | 13:12 |
| 160B | 01/26/2017 | 12.69 | 582.75 | 570.06 | 11:38 |
| 160C | 01/26/2017 | 19.33 | 582.72 | 563.39 | 11:37 |
| 161B | 01/26/2017 | 11.49 | 582.84 | 571.35 | 13:04 |
| 161C | 01/26/2017 | 20.83 | 582.64 | 561.81 | 13:03 |
| 162C | 01/26/2017 | 16.02 | 581 | 564.98 | 12:35 |
| 163A | 01/26/2017 | 4.72 | 578.14 | 573.42 | 11:38 |

**APPENDIX A**
**GROUNDWATER ELEVATION DATA - 1Q17**
**Chemours Necco Park**

| Location ID | Date Measured | Depth to Water | Reference Elevation | GW Elevation | Time Measured |
|---|---|---|---|---|---|
| 163B | 01/26/2017 | 4.68 | 577.94 | 573.26 | 11:39 |
| 163D | 01/26/2017 | 20.11 | 578.82 | 558.71 | 11:36 |
| 163E | 01/26/2017 | 21.49 | 579.06 | 557.57 | 11:37 |
| 163F | 01/26/2017 | 23.9 | 578.76 | 554.86 | 11:38 |
| 164D | 01/26/2017 | 19.34 | 577.42 | 558.08 | 11:33 |
| 164E | 01/26/2017 | 22.41 | 577.32 | 554.91 | 11:32 |
| 164F | 01/26/2017 | 22.37 | 577.27 | 554.9 | 11:31 |
| 165D | 01/26/2017 | 13.29 | 577.52 | 564.23 | 13:02 |
| 165E | 01/26/2017 | 22.73 | 577.56 | 554.83 | 13:02 |
| 165F | 01/26/2017 | 23.63 | 577.72 | 554.09 | 13:03 |
| 167B | 01/26/2017 | 10.82 | 580.93 | 570.11 | 12:45 |
| 168A | 01/26/2017 | 6.58 | 578.72 | 572.14 | 11:32 |
| 168B | 01/26/2017 | 12.13 | 578.9 | 566.8 | 11:31 |
| 168C | 01/26/2017 | 14.02 | 579.21 | 565.19 | 11:33 |
| 169B | 01/26/2017 | 11.3 | 580.43 | 569.13 | 11:34 |
| 170B | 01/26/2017 | 11.34 | 579.1 | 567.8 | 11:36 |
| 171B | 01/26/2017 | 9.55 | 579.54 | 569.99 | 11:37 |
| 172B | 01/26/2017 | 7.39 | 576.95 | 569.56 | 12:02 |
| 173A | 01/26/2017 | 7.49 | 580.71 | 573.22 | 12:07 |
| 174A | 01/26/2017 | 4.62 | 577.62 | 573.0 | 11:46 |
| 175A | 01/26/2017 | 12.21 | 586.81 | 574.6 | 11:48 |
| 176A | 01/26/2017 | 6.78 | 580.03 | 573.25 | 11:58 |
| 178A | 01/26/2017 | 6.63 | 579.92 | 573.29 | 12:04 |
| 179A | 01/26/2017 | 5.93 | 579.01 | 573.08 | 11:55 |
| 184A | 01/26/2017 | 6.64 | 579.88 | 573.24 | 12:16 |
| 185A | 01/26/2017 | 7.29 | 580.84 | 573.55 | 12:20 |
| 186A | 01/26/2017 | 10.26 | 579.76 | 569.5 | 12:23 |
| 187A | 01/26/2017 | 9.48 | 579.94 | 570.46 | 12:28 |
| 188A | 01/26/2017 | 13.21 | 580.91 | 567.7 | 12:30 |
| 189A | 01/26/2017 | 10.65 | 579.82 | 569.17 | 12:39 |
| 190A | 01/26/2017 | 10.99 | 580.58 | 569.59 | 12:44 |
| 191AR | 01/26/2017 | 9.49 | 580.62 | 571.13 | 12:48 |
| 192A | 01/26/2017 | 12.43 | 584.08 | 571.65 | 12:53 |
| 193A | 01/26/2017 | 11.45 | 584.13 | 572.68 | 13:00 |
| 194A | 01/26/2017 | 13.14 | 584.35 | 571.21 | 12:57 |
| 201B | 01/26/2017 | 8.86 | 579.25 | 570.39 | 11:57 |
| 202D | 01/26/2017 | 37.1 | 592.73 | 555.63 | 13:18 |
| 202E | 01/26/2017 | 37.5 | 592.73 | 555.23 | 13:19 |
| 202F | 01/26/2017 | 37.0 | 592.73 | 555.7 | 13:20 |
| 203D | 01/26/2017 | 32.8 | 593.85 | 561.05 | 13:13 |
| 203E | 01/26/2017 | 32.85 | 593.85 | 561.0 | 13:14 |
| 203F | 01/26/2017 | 32.7 | 593.85 | 561.15 | 13:15 |
| 204C | 01/26/2017 | 19.53 | 581.77 | 562.24 | 13:01 |

**APPENDIX A**
**GROUNDWATER ELEVATION DATA - 1Q17**
**Chemours Necco Park**

| Location ID | Date Measured | Depth to Water | Reference Elevation | GW Elevation | Time Measured |
|---|---|---|---|---|---|
| BZTW-1 | 01/26/2017 | 7.45 | 579.67 | 572.22 | 12:19 |
| BZTW-2 | 01/26/2017 | 6.39 | 579.38 | 572.99 | 12:05 |
| BZTW-4 | 01/26/2017 | 4.29 | 578.18 | 573.89 | 11:29 |
| D-10 | 01/26/2017 | 14.51 | 580.02 | 565.51 | 12:13 |
| D-11 | 01/26/2017 | 4.82 | 578.07 | 573.25 | 12:02 |
| D-13 | 01/26/2017 | 5.49 | 579.07 | 573.58 | 11:24 |
| D-14 | 01/26/2017 | 12.91 | 579.01 | 566.1 | 11:25 |
| D-23 | 01/26/2017 | 11.66 | 580.61 | 568.95 | 12:37 |
| D-9 | 01/26/2017 | 7.27 | 580.15 | 572.88 | 12:11 |
| PZ-205B | 01/26/2017 | 7.13 | 579.38 | 572.25 | 12:03 |
| PZ-A | 01/26/2017 | 7.56 | 579.06 | 571.5 | 12:00 |
| PZ-B | 01/26/2017 | 8.45 | 579.47 | 571.02 | 12:00 |
| RDB-3 | 01/26/2017 | 5.09 | 579.31 | 574.22 | 11:26 |
| RDB-5 | 01/26/2017 | 4.61 | 578.57 | 573.96 | 11:28 |
| RW-11 | 01/26/2017 | 14.88 | 578.78 | 563.9 | 11:56 |
| RW-4 | 01/26/2017 | 23.97 | 581.52 | 557.55 | 12:58 |
| RW-5 | 01/26/2017 | 15.14 | 578.88 | 563.74 | 12:31 |
| RW-8 | 01/26/2017 | 32.08 | 585.52 | 553.44 | 11:46 |
| RW-9 | 01/26/2017 | 20.83 | 575.13 | 554.3 | 13:01 |
| TRW-6 | 01/26/2017 | 7.76 | 580.21 | 572.45 | 12:07 |
| TRW-7 | 01/26/2017 | 5.9 | 577.89 | 571.99 | 11:46 |

# APPENDIX B

# CHEMOURS NECCO PARK
# GWTF PROCESS SAMPLING RESULTS
# FIRST QUARTER 2017

# Appendix B
# Summary of Analytical Results
# Chemours Necco Park
# First Quarter 2017

| Method | CAS # | Parameter | Location<br>Date<br>Units | BC-INFLUENT<br>1/26/2017<br>FS | DEF-INFLUENT<br>1/26/2017<br>FS | COMB-EFFLUENT<br>1/26/2017<br>FS | TRIP BLANK<br>1/26/2017<br>TB |
|---|---|---|---|---|---|---|---|
| | | **Field Parameters** | | | | | |
| N/A | EVS0118 | COLOR | NONE | None | None | None | N/A |
| N/A | EVS0125 | ODOR | NONE | Slight | Slight | None | N/A |
| N/A | EVS0128 | OXIDATION REDUCTION POTENTIAL | MV | -102 | -233 | -65 | N/A |
| N/A | EVS0127 | PH | STD UNITS | 5.65 | 6.74 | 7.79 | N/A |
| N/A | EVS0044 | SPECIFIC CONDUCTANCE | UMHOS/CM | 6407 | 4248 | 667 | N/A |
| N/A | EVS0113 | TEMPERATURE | DEGREES C | 10.6 | 11.4 | 7.5 | N/A |
| N/A | EVS0130 | TURBIDITY QUANTITATIVE | NTU | 31.65 | 15.78 | 4.55 | N/A |
| | | **Volatile Organics** | | | | | |
| 8260C | 79-34-5 | 1,1,2,2-Tetrachloroethane | UG/L | 2700 | 1100 | 54 | <0.32 |
| 8260C | 79-00-5 | 1,1,2-Trichloroethane | UG/L | 2000 | 1900 | 33 | <0.34 |
| 8260C | 75-35-4 | 1,1-Dichloroethene | UG/L | 440 J | 270 J | <0.54 | <0.27 |
| 8260C | 107-06-2 | 1,2-Dichloroethane | UG/L | 400 J | 160 J | 2.1 | <0.3 |
| 8260C | 56-23-5 | Carbon Tetrachloride | UG/L | 6200 | 1000 | <0.7 | <0.35 |
| 8260C | 67-66-3 | Chloroform | UG/L | 11000 | 2900 | 14 | <0.31 |
| 8260C | 156-59-2 | cis-1,2 Dichloroethene | UG/L | 9300 | 9000 | 13 | <0.3 |
| 8260C | 75-09-2 | Methylene Chloride | UG/L | 4200 B | 4900 B | 12 B | 2.5 |
| 8260C | 127-18-4 | Tetrachloroethene | UG/L | 7900 | 910 | 1.4 J | <0.3 |
| 8260C | 156-60-5 | trans-1,2-Dichloroethene | UG/L | 420 J | 600 | <0.58 | <0.29 |
| 8260C | 79-01-6 | Trichloroethene | UG/L | 12000 | 4700 | 4.5 | <0.33 |
| 8260C | 75-01-4 | Vinyl Chloride | UG/L | 2300 | 1600 | <0.9 | <0.45 |
| | | Total VOCs | UG/L | 58860 | 29040 | 134 | 2.5 |

< Not detected at stated reporting limit

J Estimated concentration

B Compound found in blank

N/A Not sampled for parameter

# ATTACHMENT 1

# CHEMOURS NECCO PARK
# NECCO PARK
# 1Q17 WATER LEVELS

# (ELECTRONIC FORMAT ONLY)