DuPont Corporate Remediation Group
Buffalo Avenue & 26th Street
Building 35 3rd Floor
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May 26, 2011

Ms. Gloria Sosa
Western New York Remediation Section
New York Remediation Branch
Emergency and Remediation Response Division
U.S. Environmental Protection Agency – Region 2
290 Broadway, 20th Floor
New York, NY 10007-1866

Dear Ms. Sosa:

NECCO PARK FIRST QUARTER 2011 DATA PACKAGE

Enclosed are three copies of the *First Quarter 2011 (1Q11) Data Package* for the E. I. du Pont de Nemours and Company (DuPont) 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, and figures showing potentiometric surface contours, vertical gradients, and drawdown contours. The data package also includes a 1Q11 monitoring summary for dense non-aqueous phase liquid (DNAPL).

Pumping system uptime for 1Q11 was 94.6 percent. The total volume of groundwater treated was 3,679,957 gallons. DNAPL was observed at Recovery Well-5 (RW-5) in March of 1Q11. A total of 70 gallons of DNAPL was removed during 1Q11.

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

PFM/ddt
Enc.

cc: M. Hinton/NYSDEC
D. Taylor/Parsons
Carol Luttrell/DuPont

SOURCE AREA HYDRAULIC CONTROL
FIRST QUARTER 2011
GROUNDWATER MONITORING DATA PACKAGE
DUPONT NECCO PARK
NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

EPA ID No. NYD980532162

Prepared For:

DuPont Corporate Remediation Group

Buffalo Avenue & 26th Street
Niagara Falls, NY 14302

Prepared By:

PARSONS

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May 2011

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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 2011 (1Q11) for groundwater remediation measures at the E. I. du Pont de Nemours and Company (DuPont) 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) and the Sampling, Analysis, and Monitoring Plan (SAMP; CRG, 2005).

This data package is the 23rd submitted since the 2005 startup of the Necco Park Hydraulic Control System (HCS) and includes a summary of operations for the pumping wells and the Groundwater Treatment Facility (GWTF). Included are figures depicting groundwater elevation contours for seven groundwater flow zones (Figures 1, 4, and 7 through 11) and groundwater elevation data (Appendix A). An electronic copy of the groundwater elevation data is provided as Attachment 1. Figures illustrating drawdown for the AT and A-Zone and vertical gradients between the AT and A-Zone and A- and B-Zone are also included (Figures 2, 3, 5, and 6).

Figures 2 and 5 present the vertical gradient (in feet per foot [ft/ft]) for selected well pairs between the AT-Zone and A-Zone and the A-Zone and B-Zones, respectively. Vertical gradients are calculated by subtracting the elevation of the upper zone from the elevation of the lower zone and dividing the result by the difference in the elevation of the center of the well screen (for the AT-Zone and A-Zones wells) or the center of the open rock zone (for B-Zone wells).

Figures 3 and 6 present potentiometric contours of net drawdown in selected wells between April 5, 2005 (immediately prior to HCS startup) and the groundwater elevation in each well on February 16, 2011.

1.2 OPERATIONAL SUMMARY

A summary of average HCS uptime, total gallons of groundwater treated, and gallons of dense non-aqueous phase liquid (DNAPL) removed for 1Q11 is as follows:

	HCS Uptime (%)	Groundwater Treated (gallons)	DNAPL Removed (gallons)
January	89.8%	1,148,422	0
February	97.5%	1,187,681	0
March	96.9%	1,343,854	70
1Q11 Total	**94.6%**	**3,679,957**	**70**

DNAPL – dense non-aqueous phase liquid

System downtime is categorized into two groups: individual recovery well downtime and complete HCS system downtime. Table 1 summarizes individual recovery well downtimes that exceeded a 24-hour period during 1Q11.

The following three unscheduled recovery well downtime events occurred during the first quarter:

1. Unscheduled downtime of the GWTF in January due to freezing of emissions stack leading to two days of downtime for wells RW-4, RW-5, RW-11, RW-8 and RW-9
2. Unscheduled maintenance and repair of pump at RW-5 in February, with a 2-day downtime
3. Unscheduled maintenance and repair of pump at RW-5 in March, with a 3-day downtime

There were no scheduled well downtime events for 1Q11.

Table 2 provides an historical operational summary by quarter since HCS operations began. There were approximately 52 hours of unscheduled HCS downtime in January due to freezing of the emissions stack. No other unscheduled HCS downtime occurred during 1Q11. There were no scheduled HCS downtime events during the first quarter.

Monthly DNAPL monitoring was completed on January 27, February 16, and March 24. DNAPL was not observed in any wells in January or February, but was noted in RW-5 in March. Seventy gallons of DNAPL were recovered during 1Q11.

1.3 GWTF PROCESS SAMPLING

In accordance with the SAMP, GWTF influent samples (B/C- and D/E/F-Zone) and a combined effluent sample were collected in 1Q11. Samples were collected by TestAmerica Laboratories of Amherst, New York, on February 8, 2011, 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) discharge permit for the site, the Necco GWTF discharge is sampled and reported quarterly to the Niagara Falls Water Board. The Necco Park 1Q11 wastewater samples were collected on January 12, 2011. There were no permit limit exceedances in 1Q11. The Necco POTW discharge permit was renewed in May 2009 and remains valid through May 1, 2014.

SECTION 2

REFERENCES

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

TABLES

Table 1
Individual Well Shutdown Summary 1Q11
DuPont Necco Park

	Well ID	Date(s)	Length of Shutdown (hours)	Reason for Shutdown	Remarks
January	RW-4, RW-5, RW-8, RW-9, and RW-11	January 24	52	Shutdown of GWRF and wells due to stack freezing.	Unscheduled
February	RW-5	February 19	50	Maintenance, pump repairs	Unscheduled
March	RW-5	March 28	68	Maintenance, pump repairs	Unscheduled

Table 2
Historical HCS Operational Summary - 1Q11
DuPont 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
TOTALS	**---**	**---**	**79,744,603**	**1,080**
AVERAGE	**91.6**	**93.7**	**---**	**---**

FIGURES

DUPONT NECCO PARK

119AT
572.91

129AT
572.45

180AT
572.09

184AT
570.67

185AT
570.69

186AT
570.79

187AT
571.12

188AT
571.76

189AT
571.77

190AT
571.70

191AT
571.62

192AT
570.09

193AT
573.43

194AT
573.54

571

572

CECOS SECURE CELLS

Scale: Feet

0 50 100 150 200

Contour Interval = 0.5 feet

Elevation datum feet AMSL

PARSONS

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Created by	RBP/JWS
Checked by	EAF/LJM
Project Manager	DDT
Job number: 445357.02022	

LEGEND

3B Well ID

Monitoring Well

Pumping Well

Potentiometric Contour

Structure

Road

Figure 1
Potentiometric Surface Map
DuPont Necco Park: AT-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - AT PZ - F1.srf

DUPONT NECCO PARK

119AT/A
-0.12

129AT/A
0.01

184AT/A
0.01

185AT/A
0.16

187AT/A
-0.48

186AT/A
-0.45

188AT/A
-0.64

189AT/A
-0.60

190AT/A
-0.35

193AT/A
-0.15

191AT/A
-0.10

194AT/A
-0.24

192AT/A
0.03

CECOS SECURE CELLS

Scale: Feet

0 50 100 150 200

Negative value indicates downward vertical gradient

Elevation datum feet AMSL

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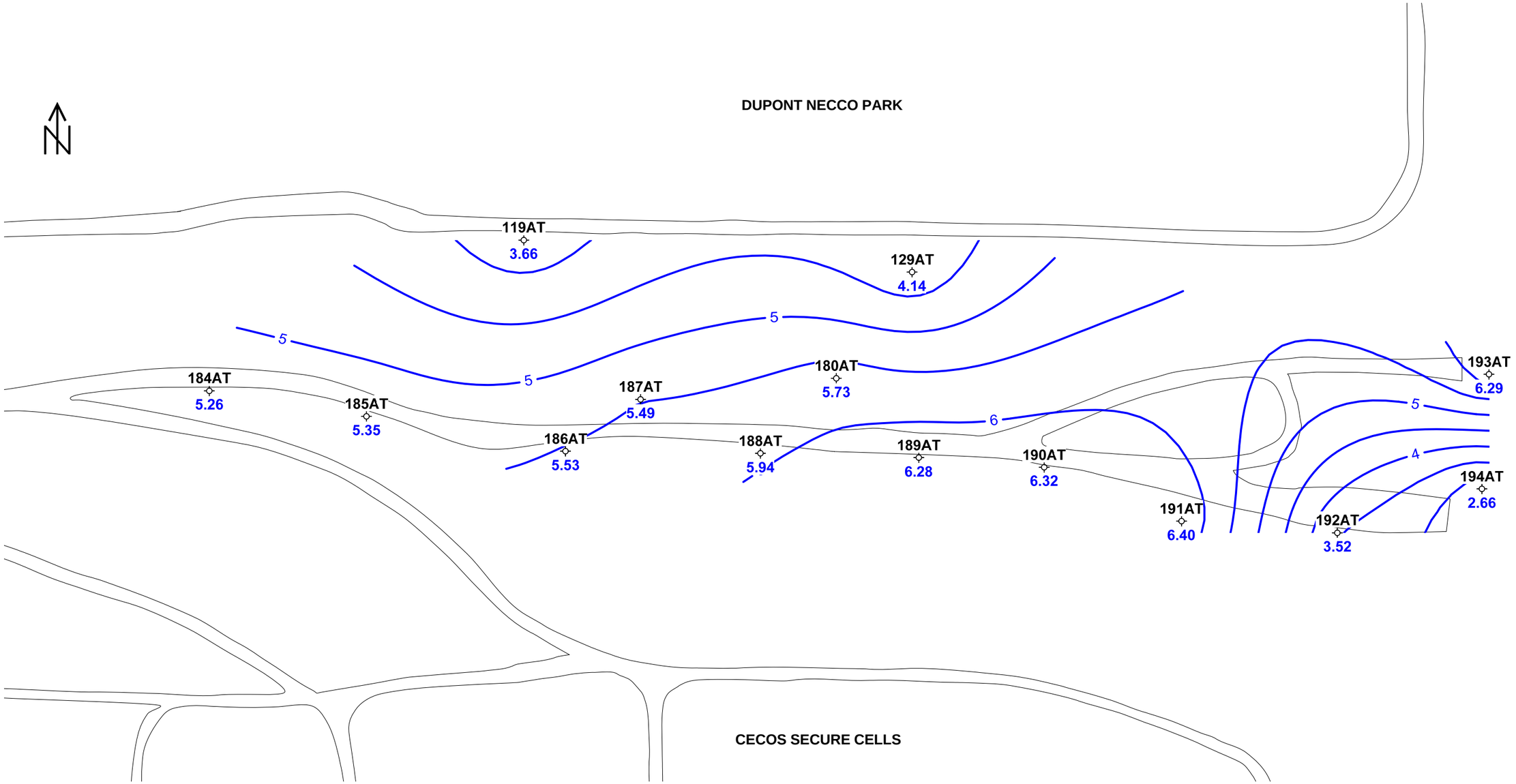
Project Manager:	DDT
Job number: 445357.02022	

LEGEND

- 3B — Well ID
- Monitoring Well
- Pumping Well
- Structure
- Road

Figure 2
Vertical Gradient: AT-Zone to A-Zone
DuPont Necco Park
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - ATAvgrad - F2.srf



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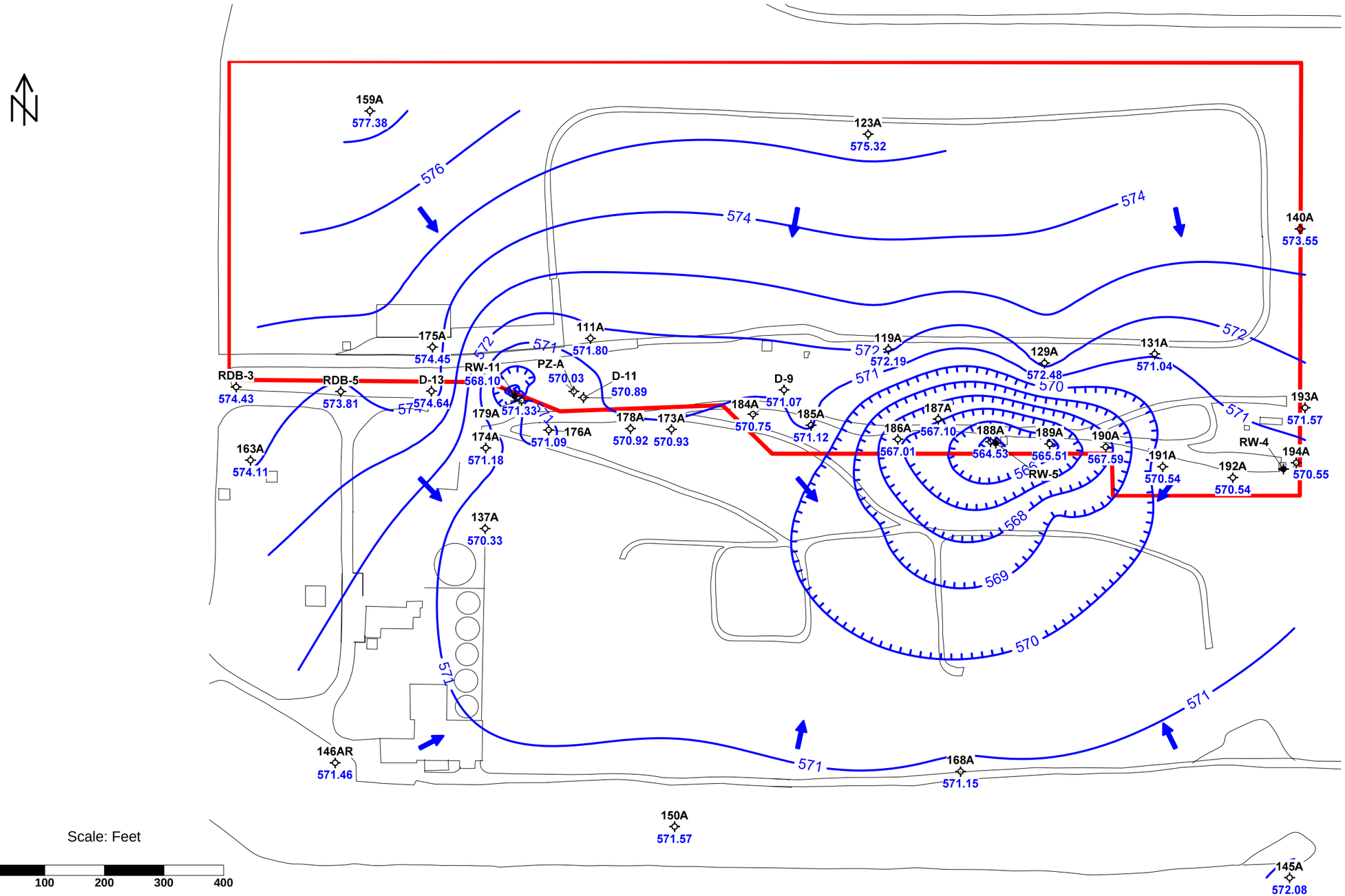
Project Manager:	DDT
Job number: 445357.02022	

LEGEND

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

Figure 3
Drawdown Contour Map
DuPont Necco Park: AT-Zone
April 5, 2005 (Static) to February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - AT DD F3.srf



Contour Interval = 1 foot **Elevation datum feet AMSL**

Note: Wells 117A and 139A were not used in the contouring.

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Created by: RBP/JWS	Date: 05-10-11
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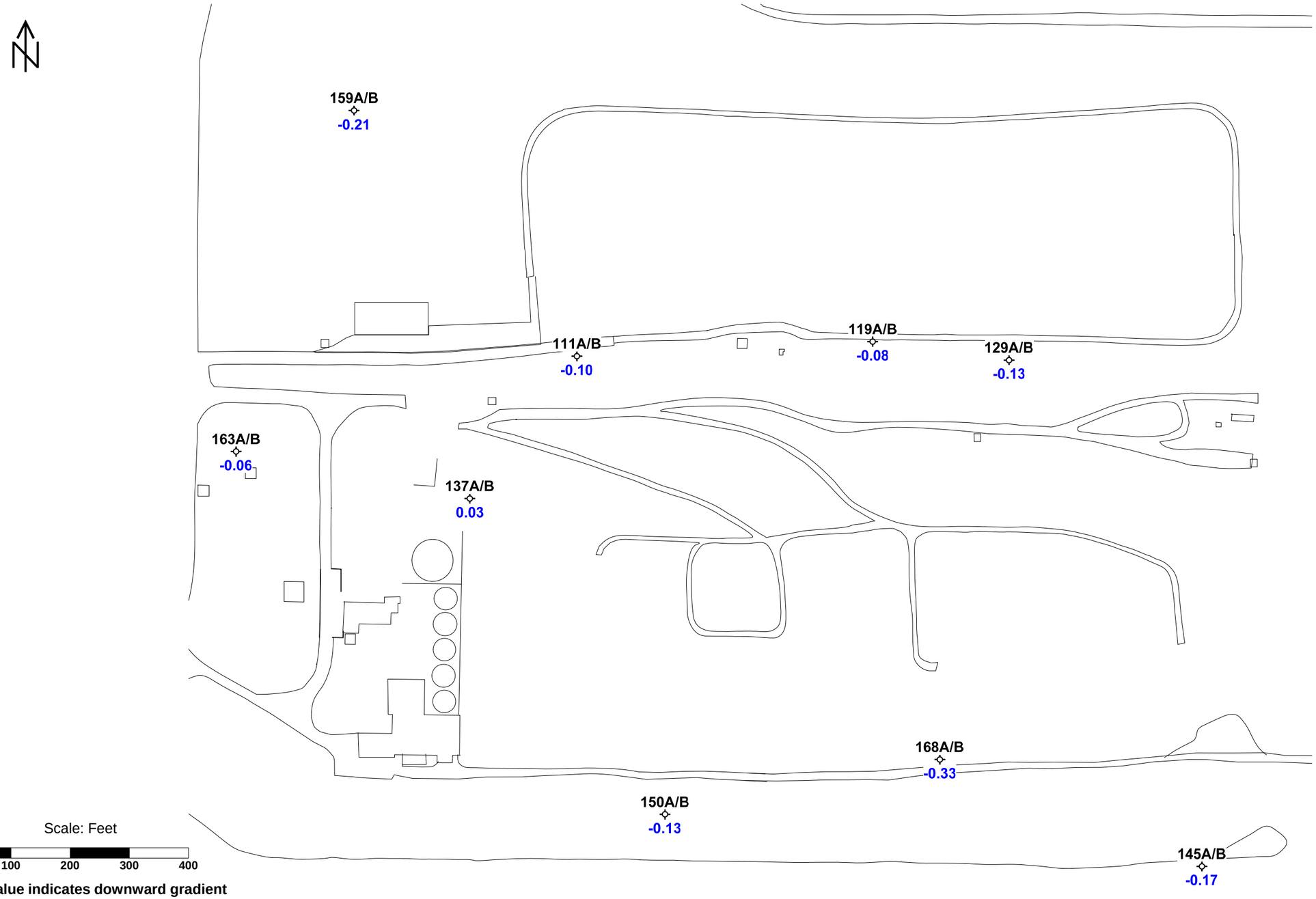
Project Manager:DDT	Date: 05-26-11
Job number: 445237.02022	

LEGEND

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

Figure 4
Potentiometric Surface Map
DuPont Necco Park: A-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - A PZ - F4.srf



Scale: Feet

0 100 200 300 400

Negative value indicates downward gradient

Elevation datum feet AMSL

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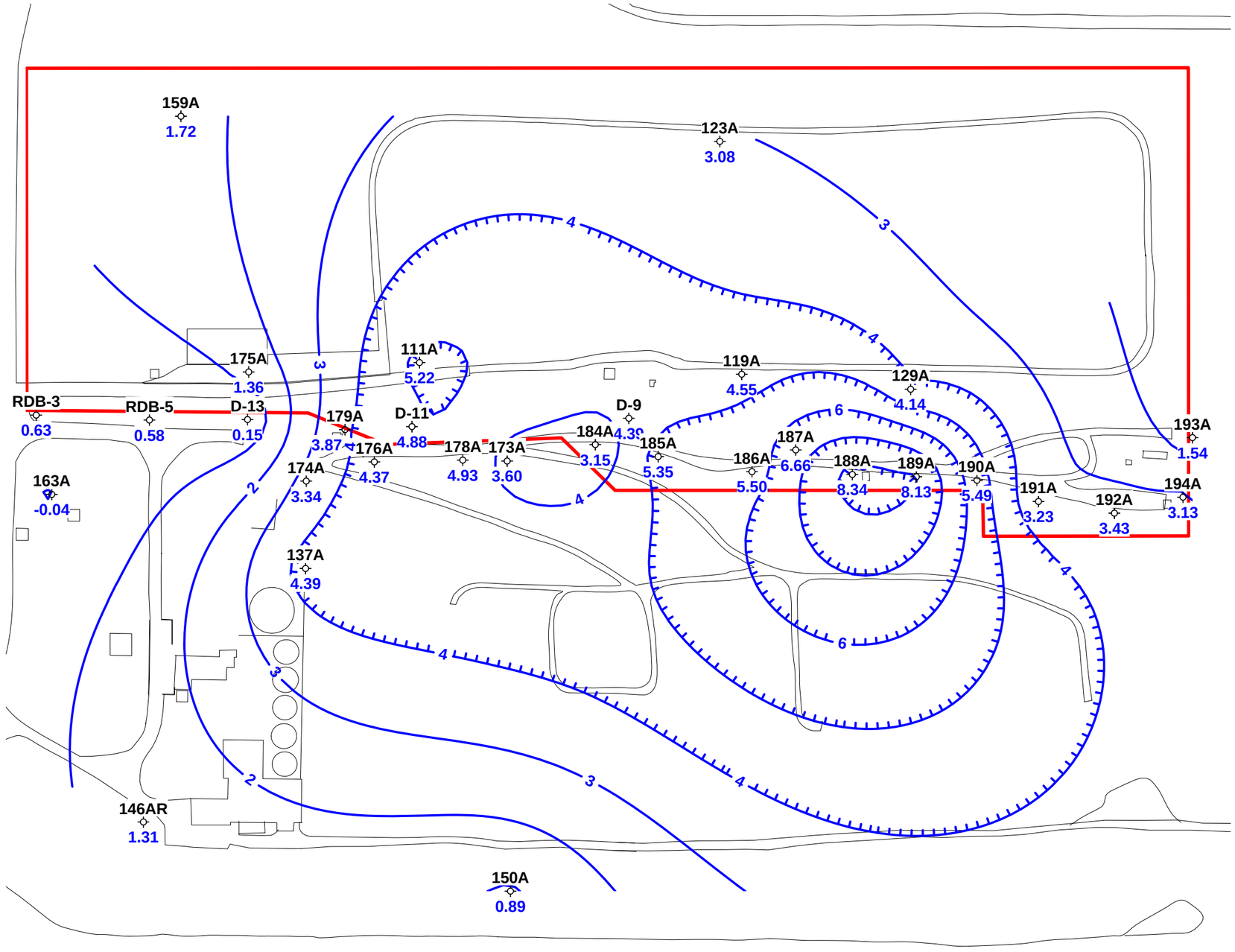
Project Manager: DDT	Date: 05-26-11
Job number: 445237.02022	

LEGEND

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

Figure 5
Vertical Gradient: A-Zone to B-Zone
DuPont Necco Park
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - ABvgrad - F5.srf



Contour interval = 1.0 feet

Elevation datum feet AMSL

Note:140A was not used in the contour method.

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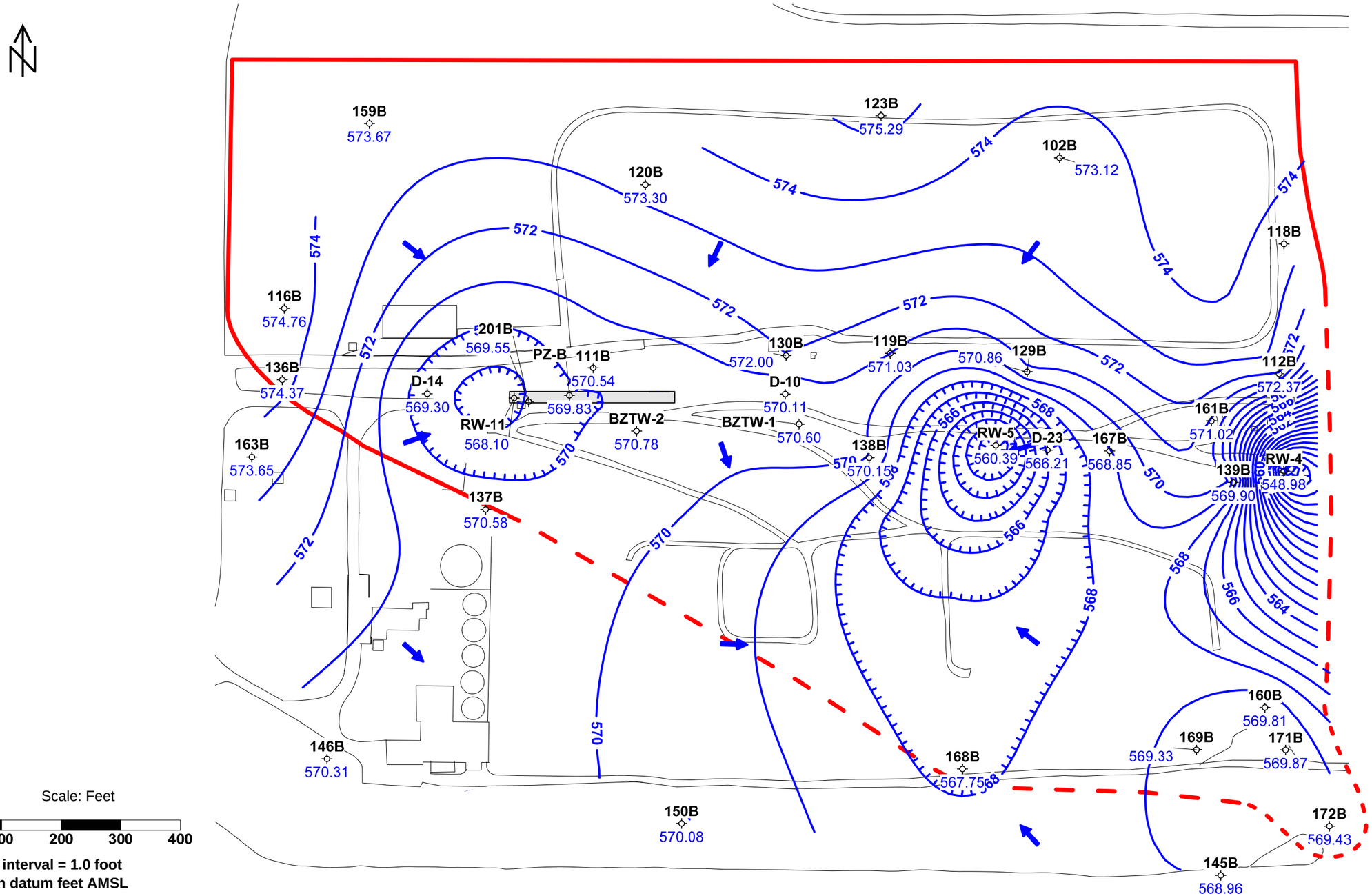
Job number: 445237.02022	

LEGEND

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

Figure 6
Drawdown Contour Map
DuPont Necco Park: A-Zone
April 5, 2005 (Static) to February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - A DD F6.srf



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 118B, 170B, TRW-6 and TRW-7 were not used in the contouring.

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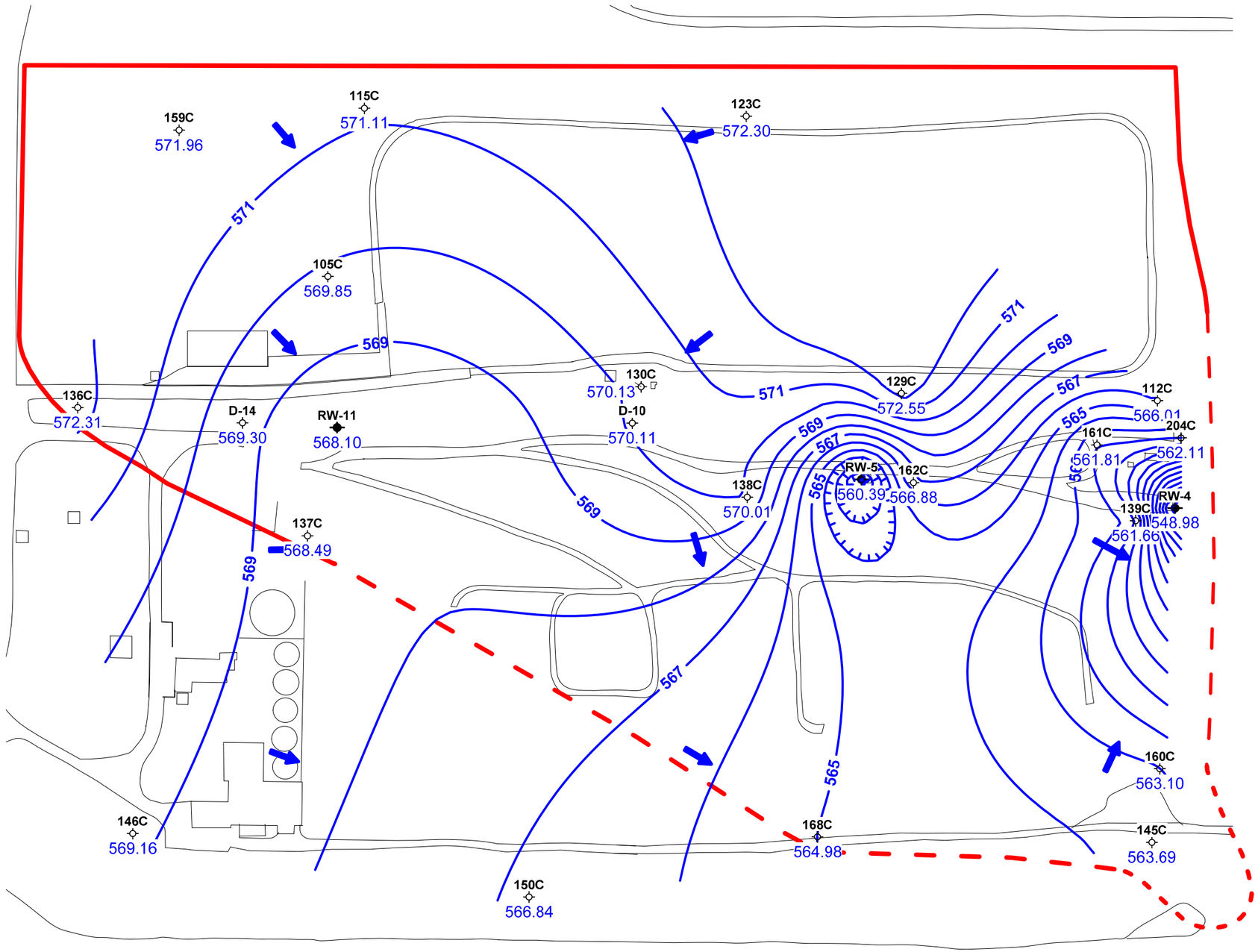
Project Manager: DDT	Date: 05-26-11
Job number: 445237.02022	

LEGEND

- Potentiometric Contour
- Structure
- Road
- Source Area Extent
- Bedrock Fractured Blast Trench

Figure 7
Potentiometric Surface Map
DuPont Necco Park: B-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - PZ B - F7.srf



Scale: Feet

0 100 200 300 400

Contour interval = 1.0 foot

Elevation datum feet AMSL

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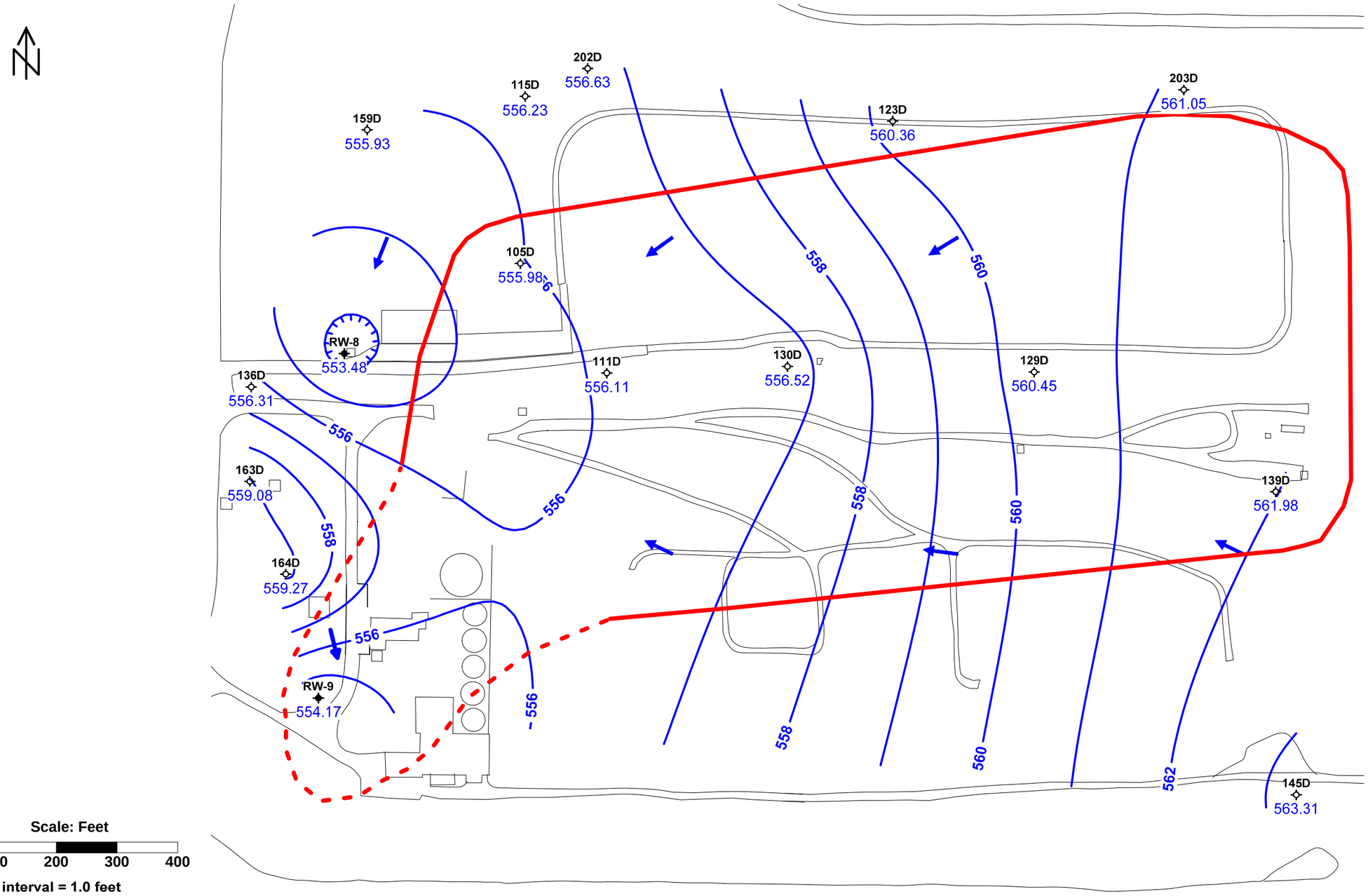
Project Manager:DDT	Date: 05-26-11
Job number: 445237.02022	

LEGEND

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

Figure 8
Potentiometric Surface Map
DuPont Necco Park: C-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - PZ C - F8.srf



Scale: Feet

0 100 200 300 400

Contour interval = 1.0 feet

Elevation datum feet AMSL

Well 149, located outside the map area, was used in the contour interpolation.

Well 137D, 148D, 158D, and 165D, were not used in the interpolation.

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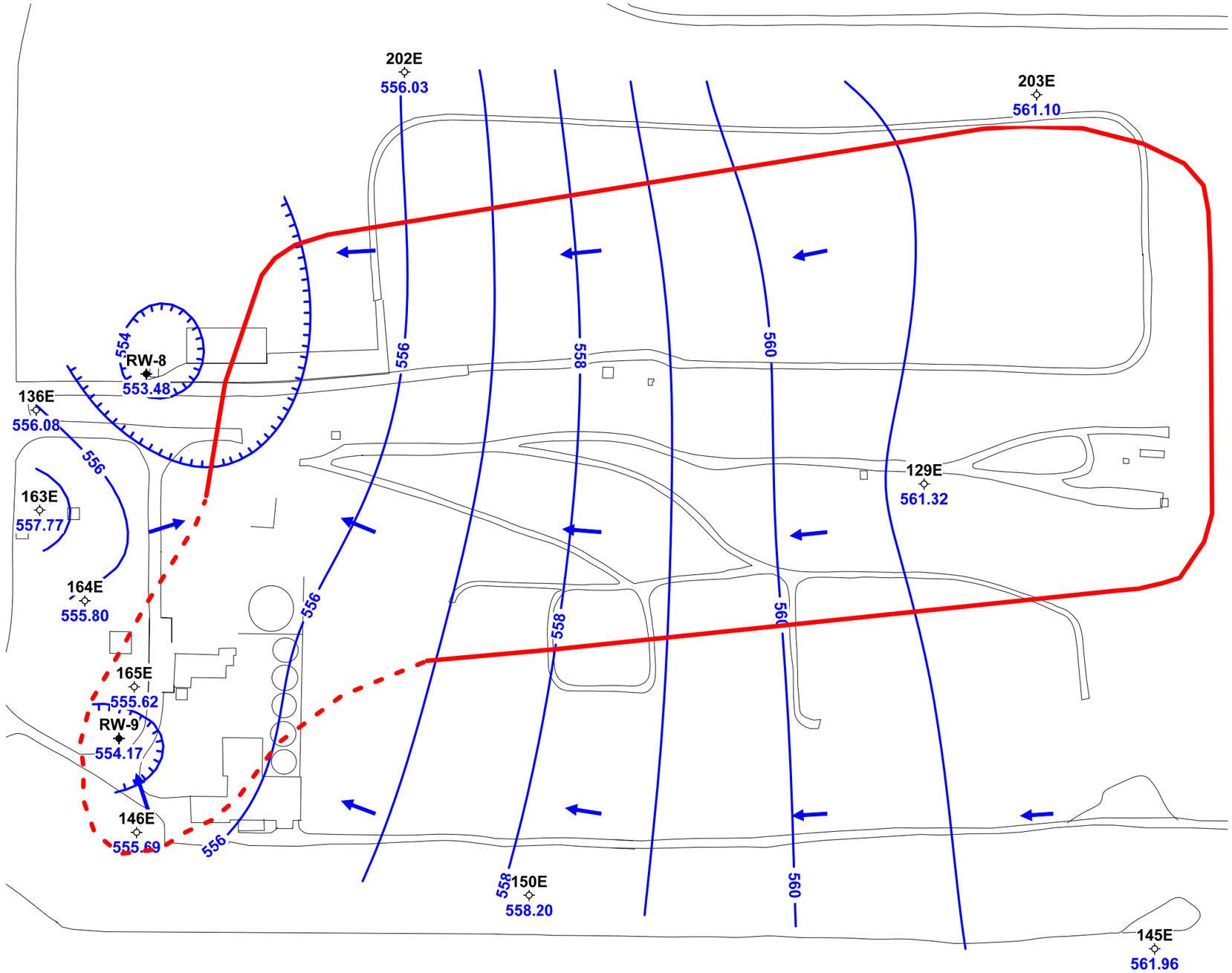
Project Manager: DDT	Date: 05-26-11
Job number: 445237.02022	

LEGEND

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

Figure 9
Potentiometric Surface Map
DuPont Necco Park: D-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool2011-02-16 - PZ D - F9.srf



Scale: Feet

0 100 200 300 400

Contour interval = 0.5 foot

Elevation datum feet AMSL

Well 142E was not used in the contouring due to anomalous measurement

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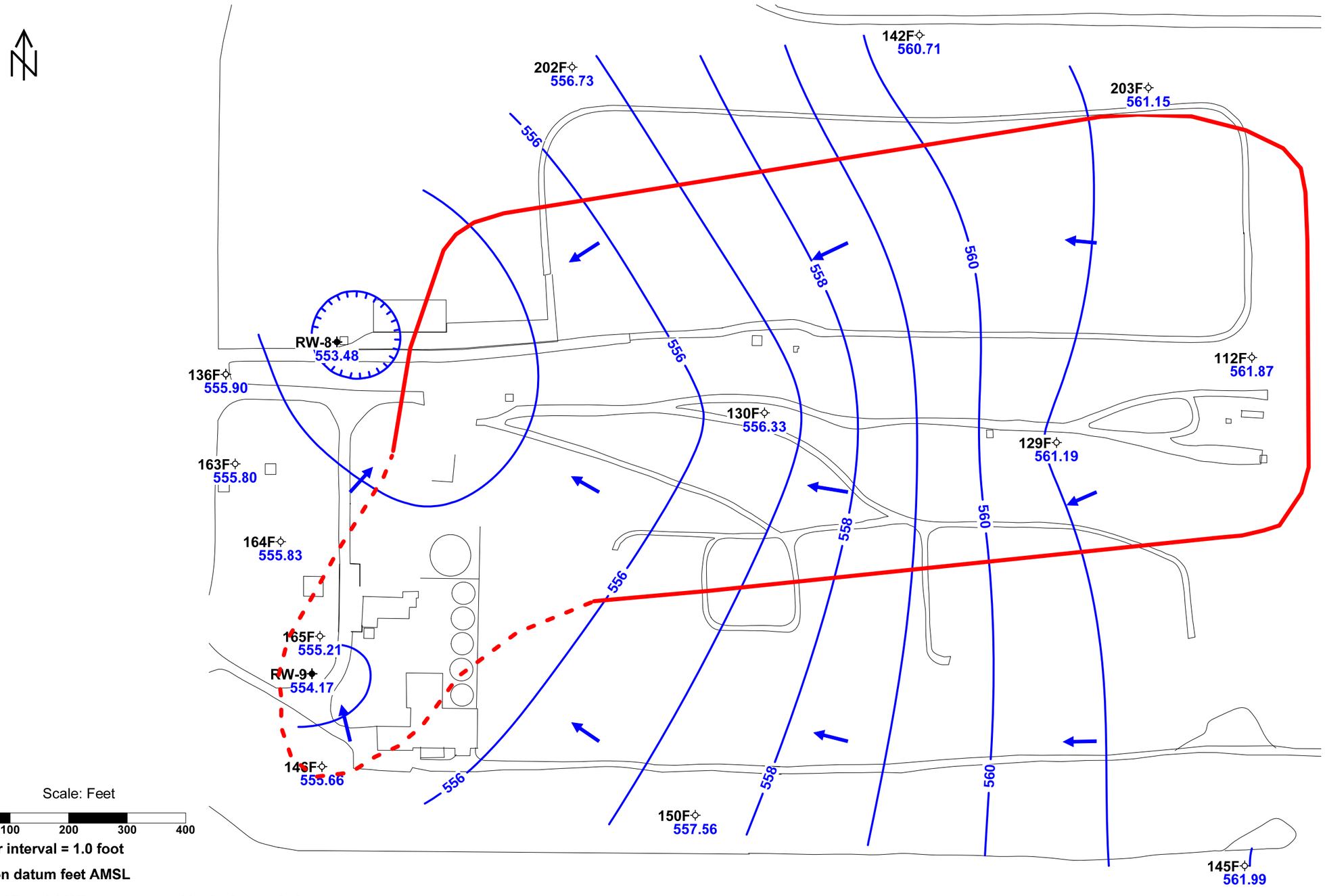
Project Manager:DDT	Date: 05-26-11
Job number: 445237.02022	

LEGEND

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

Figure 10
Potentiometric Surface Map
DuPont Necco Park: E-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 - PZ E - F10.srf



Scale: Feet

0 100 200 300 400

Contour interval = 1.0 foot

Elevation datum feet AMSL

Wells 123F and 148F were not used in the interpolation

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Created by: RBP	Date:	04-01-11
Checked by:EAF/LJM	Date:	05-11-11
Project Manager:DDT	Date:	05-26-11
Job number: 445237.02022		

LEGEND

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

Figure 11
Potentiometric Surface Map
DuPont Necco Park: F-Zone
February 16, 2011

U:/Necco/HydroGeo/Hydro/GW_contours/2011-02-16 NEC Contour Tool/2011-02-16 WLs for DD & Gradient Maps_v1.xls

APPENDIX A

GROUNDWATER ELEVATION DATA
FIRST QUARTER 2011

APPENDIX A
NECCO PARK WATER LEVELS
FIRST QUARTER 2011

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
53	02/16/11	2.02	578.20	576.18	1201
102B	02/16/11	25.89	599.01	573.12	1237
105C	02/16/11	25.43	595.28	569.85	1241
105D	02/16/11	38.79	594.77	555.98	1240
111A	02/16/11	15.09	586.89	571.80	1144
111B	02/16/11	14.40	584.94	570.54	1140
111D	02/16/11	28.19	584.30	556.11	1141
112B	02/16/11	9.53	581.90	572.37	1211
112C	02/16/11	16.92	582.93	566.01	1210
112F	02/16/11	21.42	583.29	561.87	1212
115C	02/16/11	24.82	595.93	571.11	1254
115D	02/16/11	40.39	596.62	556.23	1253
116B	02/16/11	15.29	590.05	574.76	1136
117A	02/16/11	7.65	580.52	572.87	1230
118B	02/16/11	14.62	583.90	569.28	1225
119A	02/16/11	14.15	586.34	572.19	1153
119AT	02/16/11	13.71	586.62	572.91	1154
119B	02/16/11	15.74	586.77	571.03	1155
120B	02/16/11	25.88	599.18	573.30	1250
123A	02/16/11	22.61	597.93	575.32	1243
123B	02/16/11	20.69	595.98	575.29	1244
123C	02/16/11	23.12	595.42	572.30	1245
123D	02/16/11	36.15	596.51	560.36	1246
123F	02/16/11	38.07	598.57	560.50	1247
129A	02/16/11	12.32	584.80	572.48	1203
129AT	02/16/11	12.49	584.94	572.45	1202
129B	02/16/11	14.38	585.24	570.86	1201
129C	02/16/11	13.13	585.68	572.55	1200
129D	02/16/11	25.58	586.03	560.45	1159
129E	02/16/11	19.56	580.88	561.32	1206
129F	02/16/11	20.17	581.36	561.19	1207
130B	02/16/11	13.63	585.63	572.00	1147
130C	02/16/11	15.38	585.51	570.13	1148
130D	02/16/11	28.44	584.96	556.52	1149
130F	02/16/11	25.16	581.49	556.33	1143
130G	02/16/11	23.62	580.79	557.17	1142
131A	02/16/11	14.39	585.43	571.04	1205
136B	02/16/11	7.32	581.69	574.37	1112
136C	02/16/11	9.31	581.62	572.31	1111

APPENDIX A
NECCO PARK WATER LEVELS
FIRST QUARTER 2011

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
136D	02/16/11	23.37	579.68	556.31	1110
136E	02/16/11	23.51	579.59	556.08	1109
136F	02/16/11	24.43	580.33	555.90	1107
136F	02/16/11	24.40	580.33	555.93	1308
136G	02/16/11	18.48	579.76	561.28	1108
136G	02/16/11	18.46	579.76	561.30	1309
137A	02/16/11	8.14	578.47	570.33	1124
137B	02/16/11	7.73	578.31	570.58	1122
137C	02/16/11	9.90	578.39	568.49	1121
137D	02/16/11	12.95	579.09	566.14	1123
138B	02/16/11	13.83	583.98	570.15	1150
138C	02/16/11	17.05	587.06	570.01	1151
139A	02/16/11	14.07	585.14	571.07	1213
139B	02/16/11	15.49	585.39	569.90	1216
139C	02/16/11	23.61	585.27	561.66	1217
139D	02/16/11	23.51	585.49	561.98	1218
140A	02/16/11	7.88	581.43	573.55	1222
141C	02/16/11	15.96	580.05	564.09	1236
141G	02/16/11	25.44	582.53	557.09	1234
142E	02/16/11	25.00	586.00	561.00	1256
142F	02/16/11	24.98	585.69	560.71	1257
143G	02/16/11	34.35	591.34	556.99	1250
145A	02/16/11	3.76	575.84	572.08	1157
145B	02/16/11	6.52	575.48	568.96	1205
145C	02/16/11	12.21	575.90	563.69	1238
145D	02/16/11	12.74	576.05	563.31	1240
145E	02/16/11	14.02	575.98	561.96	1159
145F	02/16/11	14.06	576.05	561.99	1201
146AR	02/16/11	5.46	576.92	571.46	1212
146B	02/16/11	6.59	576.90	570.31	1213
146C	02/16/11	7.19	576.35	569.16	1214
146E	02/16/11	20.39	576.08	555.69	1215
146F	02/16/11	20.38	576.04	555.66	1216
148D	02/16/11	8.45	579.38	570.93	1109
148F	02/16/11	20.74	576.21	555.47	1112
149B	02/16/11	3.69	572.87	569.18	1137

APPENDIX A
NECCO PARK WATER LEVELS
FIRST QUARTER 2011

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
149C	02/16/11	5.48	573.26	567.78	1133
149D	02/16/11	15.83	572.86	557.03	1130
150A	02/16/11	4.29	575.86	571.57	1145
150B	02/16/11	5.91	575.99	570.08	1146
150C	02/16/11	9.29	576.13	566.84	1147
150E	02/16/11	17.95	576.15	558.20	1148
150F	02/16/11	18.42	575.98	557.56	1149
151B	02/16/11	3.43	573.36	569.93	1044
151C	02/16/11	7.27	573.18	565.91	1046
158D	02/16/11	37.21	598.20	560.99	1239
159A	02/16/11	18.78	596.16	577.38	1247
159B	02/16/11	22.70	596.37	573.67	1246
159C	02/16/11	25.40	597.36	571.96	1245
159D	02/16/11	41.74	597.67	555.93	1244
160B	02/16/11	12.94	582.75	569.81	1233
160C	02/16/11	19.62	582.72	563.10	1234
161B	02/16/11	11.82	582.84	571.02	1220
161C	02/16/11	20.83	582.64	561.81	1221
162C	02/16/11	14.12	581.00	566.88	1202
163A	02/16/11	4.03	578.14	574.11	1130
163B	02/16/11	4.29	577.94	573.65	1129
163D	02/16/11	19.74	578.82	559.08	1128
163E	02/16/11	21.29	579.06	557.77	1127
163F	02/16/11	22.96	578.76	555.80	1126
164D	02/16/11	18.15	577.42	559.27	1123
164E	02/16/11	21.52	577.32	555.80	1122
164F	02/16/11	21.44	577.27	555.83	1121
165D	02/16/11	11.86	577.52	565.66	1253
165E	02/16/11	21.94	577.56	555.62	1251
165F	02/16/11	22.51	577.72	555.21	1249
167B	02/16/11	12.08	580.93	568.85	1210
168A	02/16/11	7.57	578.72	571.15	1220
168B	02/16/11	11.15	578.90	567.75	1221
168C	02/16/11	14.23	579.21	564.98	1223
169B	02/16/11	11.10	580.43	569.33	1229
170B	02/16/11	12.37	579.10	566.73	1231
171B	02/16/11	9.67	579.54	569.87	1236
172B	02/16/11	7.52	576.95	569.43	1154
173A	02/16/11	9.78	580.71	570.93	1137

APPENDIX A
NECCO PARK WATER LEVELS
FIRST QUARTER 2011

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
174A	02/16/11	6.44	577.62	571.18	1120
175A	02/16/11	12.36	586.81	574.45	1138
176A	02/16/11	8.94	580.03	571.09	1129
178A	02/16/11	9.00	579.92	570.92	1136
179A	02/16/11	7.68	579.01	571.33	1130
180AT	02/16/11	7.38	579.47	572.09	1200
184A	02/16/11	9.13	579.88	570.75	1141
184AT	02/16/11	9.02	579.69	570.67	1140
185A	02/16/11	9.72	580.84	571.12	1147
185AT	02/16/11	10.00	580.69	570.69	1148
186A	02/16/11	12.75	579.76	567.01	1152
186AT	02/16/11	9.31	580.10	570.79	1153
187A	02/16/11	12.84	579.94	567.10	1156
187AT	02/16/11	8.18	579.30	571.12	1155
188A	02/16/11	16.38	580.91	564.53	1159
188AT	02/16/11	8.83	580.59	571.76	1158
189A	02/16/11	14.31	579.82	565.51	1203
189AT	02/16/11	8.63	580.40	571.77	1204
190A	02/16/11	12.99	580.58	567.59	1209
190AT	02/16/11	9.22	580.92	571.70	1208
191A	02/16/11	10.08	580.62	570.54	1211
191AT	02/16/11	9.44	581.06	571.62	1212
192A	02/16/11	13.54	584.08	570.54	1214
192AT	02/16/11	14.37	584.46	570.09	1215
193A	02/16/11	12.56	584.13	571.57	1224
193AT	02/16/11	9.66	583.09	573.43	1223
194A	02/16/11	13.80	584.35	570.55	1227
194AT	02/16/11	11.39	584.93	573.54	1226
201B	02/16/11	9.70	579.25	569.55	1127
202D	02/16/11	36.10	592.73	556.63	1255
202E	02/16/11	36.7	592.73	556.03	1256
202F	02/16/11	36.00	592.73	556.73	1257
203D	02/16/11	32.80	593.85	561.05	1302
203E	02/16/11	32.75	593.85	561.10	1303
203F	02/16/11	32.70	593.85	561.15	1304
204C	02/16/11	19.66	581.77	562.11	1222
BZTW-1	02/16/11	9.07	579.67	570.60	1146
BZTW-2	02/16/11	8.60	579.38	570.78	1135
BZTW-4	02/16/11	4.29	578.18	573.89	1117

APPENDIX A
NECCO PARK WATER LEVELS
FIRST QUARTER 2011

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
D-10	02/16/11	9.91	580.02	570.11	1144
D-11	02/16/11	7.18	578.07	570.89	1133
D-13	02/16/11	4.43	579.07	574.64	1116
D-14	02/16/11	9.71	579.01	569.30	1117
D-23	02/16/11	14.34	580.55	566.21	1205
D-9	02/16/11	9.08	580.15	571.07	1145
PZ 195-AT	02/16/11	7.97	584.80	576.83	15255
PZ 196-AT	02/16/11	8.89	585.71	576.82	1259
PZ 197-AT	02/16/11	7.74	584.57	576.83	1301
PZ 198-AT	02/16/11	7.09	583.93	576.84	1304
PZ 199-AT	02/16/11	8.11	584.92	576.81	1307
PZ 200-AT	02/16/11	8.63	586.46	577.83	1309
PZ-A	02/16/11	9.03	579.06	570.03	1132
PZ-B	02/16/11	9.64	579.47	569.83	1131
RDB-3	02/16/11	4.88	579.31	574.43	1113
RDB-5	02/16/11	4.76	578.57	573.81	1116
RW-11	02/16/11	10.68	578.78	568.10	1128
RW-4	02/16/11	32.54	581.52	548.98	1228
RW-5	02/16/11	18.49	578.88	560.39	1157
RW-8	02/16/11	32.04	585.52	553.48	1138
RW-9	02/16/11	20.96	575.13	554.17	1245
TRW-6	02/16/11	9.76	580.21	570.45	1138
TRW-7	02/16/11	7.11	577.89	570.78	1119

APPENDIX B

GWTF PROCESS SAMPLING RESULTS
FIRST QUARTER 2011

APPENDIX B
GWTF PROCESS SAMPLING RESULTS
1Q11 NECCO PARK

CAS No.	LabAnalyte	Location Date Units	BC-INFLUENT 2/8/11 FS	DEF-INFLUENT 2/8/11 FS	COMB-EFFLUENT 2/8/11 FS	FILTER-BLK 2/8/11 FS	TBLK 2/8/11 TB
	Field Parameters						
EVS0118	COLOR QUALITATIVE (FIELD)	NS	grey/blue	grey	grey/blue	NS	NS
EVS0125	ODOR (FIELD)	NS	moderate	moderate	slight	NS	NS
EVS0127	PH (FIELD)	STD UNITS	5.55	7.12	8.02	NS	NS
EVS0128	REDOX (FIELD)	MV	-201	-298	3	NS	NS
EVS0044	SPECIFIC CONDUCTANCE (FIELD)	MS/CM	14030	4479	6343	NS	NS
EVS0113	TEMPERATURE (FIELD)	DEGREES C	10	10.6	10.6	NS	NS
EVS0130	TURBIDITY QUANTITATIVE (FIELD)	NTU	76.7	55.8	116	NS	NS
	Volatile Organics						
79345	1,1,2,2-TETRACHLOROETHANE	UG/L	3000	1200	700 J	NS	<0.18
79005	1,1,2-TRICHLOROETHANE	UG/L	2800	2200	530 J	NS	<0.27
75354	1,1-DICHLOROETHENE	UG/L	350 J	310 J	<4.8	NS	<0.19
107062	1,2-DICHLOROETHANE	UG/L	530 J	220 J	34	NS	<0.22
56235	CARBON TETRACHLORIDE	UG/L	1400	1000	<3.2	NS	<0.13
67663	CHLOROFORM	UG/L	15000	3500	97	NS	<0.16
156592	CIS-1,2-DICHLOROETHENE	UG/L	5800	11000	210	NS	<0.17
75092	METHYLENE CHLORIDE	UG/L	2600	5200	200	NS	<0.33
127184	TETRACHLOROETHENE	UG/L	4200	1300	8.4 J	NS	<0.29
156605	TRANS-1,2-DICHLOROETHENE	UG/L	370 J	670	<4.8	NS	<0.19
79016	TRICHLOROETHENE	UG/L	14000	6200	44	NS	<0.17
75014	VINYL CHLORIDE	UG/L	1900	2500	<5.5	NS	<0.22
	Other Organics						
95954	2,4,5-TRICHLOROPHENOL	UG/L	28 J	370	270	NS	NS
88062	2,4,6-TRICHLOROPHENOL	UG/L	<16	170	120 J	NS	NS
EVS0197	3-METHYLPHENOL & 4-METHYLPHENOL	UG/L	150 J	17 J	49 J	NS	NS
118741	HEXACHLOROBENZENE	UG/L	<2	<1.2	<1	NS	NS
87683	HEXACHLOROBUTADIENE	UG/L	410	31 J	20 J	NS	NS
67721	HEXACHLOROETHANE	UG/L	160 J	10 J	<8	NS	NS
87865	PENTACHLOROPHENOL	UG/L	110 J	760	560	NS	NS
108952	PHENOL	UG/L	190 J	41 J	79 J	NS	NS
TIC01	TENTATIVELY IDENTIFIED COMPOUND 01	UG/L	1700 J	770 J	900 J	NS	NS
	Inorganics						
7440393	BARIUM, DISSOLVED	UG/L	146000	77 J	470	NS	NS
7440393	BARIUM, TOTAL	UG/L	218000	63 J	34400	0.78 J	NS
14808798	SULFATE	UG/L	3900	885000	519000 J	NS	NS
57125	CYANIDE, TOTAL	UG/L	2600	30	360	NS	NS
Total Volatiles		UG/L	51950	35300	1823.4		

< and ND = Non detect at stated reporting limit
NS = Not sampled for test parameter
J= Estimated Result

ATTACHMENT 1

NECCO PARK
1Q11 WATER LEVELS

(ELECTRONIC FORMAT ONLY)