Cecia Bicknell, G.I.T.
RCRA Permitting Section
Bureau of Hazardous Waste and Radiation Management
Division of Materials Management
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233

Re: Responsible Party Certification
Corrective Measure Study Report / Revision 3
November 7, 2024

The following is the Responsible Party Certification for the above referenced report as required by Title 6 of the New York Codes, Rules and Regulations (NYCRR), Part 373 – Hazardous Waste Management Facilities, Subpart 371-1 – Hazardous Waste Treatment, Storage and Disposal Facilities Permitting.

I have reviewed the above referenced report and provide the following statement, as allowed by the authority delegated to me (see attached):

I certify under penalty of law that this document [referenced above] and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Eric Gaulin, PhD, CHMM
Senior Manager, Remediation Projects

attachment

Wyeth

Wyeth Pharmaceuticals, LLC
66 Hudson Boulevard East
New York, NY 10001

DATE: **August 31, 2023**

TO: **Eric Gaulin**
Senior Manager, Remediation Projects
Pfizer Inc.

FROM: **Christopher J. Clark**

RE: **Delegation of Signature Authority**
RCRA Permit 5-0928000017/00175
Former Wyeth Pharmaceuticals Inc Site
64 Maple Street, Rouses Point, NY

As a corporate officer of Wyeth Pharmaceuticals, LLC (Wyeth), I am authorized to execute documents on behalf of Wyeth, including federal, state, and local environmental permits, authorizations, applications, or related certifications pertaining to present or former Wyeth facilities.

As allowed for in 6 CRR-NY 373-1.4(a)(5)(ii), I hereby delegate the authority to make necessary certifications associated with the submission of permit required reports to you, the most senior manager with responsibility for the overall operation of the regulated activity at the above referenced site.

This delegation shall remain operative for as long as you occupy the position of the most senior manager responsible for overall day-to-day operation of the regulated activity.

By:_____

Christopher J. Clark
Title: Vice President, Wyeth Pharmaceuticals, LLC

CORRECTIVE MEASURES STUDY REPORT

REV 3

Former Wyeth Pharmaceuticals Site
64 Maple Street
Rouses Point, NY

800 Westchester Avenue | Suite N507
Rye Brook, New York 10573
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206910
Wyeth Pharmaceuticals LLC
November 7, 2024

Woodard & Curran

TABLE OF CONTENTS

SECTION **PAGE NO.**

1. INTRODUCTION 1-1

1.1 CMS Revision History 1-1
1.2 Report Purpose 1-2
1.3 Report Organization 1-2

2. FACILITY DESCRIPTION AND SITE CONDITIONS 2-1

2.1 Site Description 2-1
2.2 Historical Operations 2-1
2.3 Solid Waste Management Units and Areas of Concern 2-2
2.4 Regional Geology 2-2
2.5 Site Geology 2-3
2.6 Site Hydrogeology 2-4

3. PREVIOUS INVESTIGATIONS AND INTERIM CORRECTIVE MEASURES 3-1

3.1 Sampling and Analysis Reports Summary 3-1
3.1.1 SAR Summary 3-1
3.1.2 Engineering Evaluation Summary 3-2
3.1.3 Supplemental SAR Summary 3-2
3.1.4 CMS Summary 3-3
3.1.5 ChemD SWMU SAR Summary 3-3
3.1.6 Main Plant SWMU/AOC SAR Summary 3-5
3.1.7 Supplemental Main Plant SAR Summary 3-6
3.2 Interim Corrective Measures (ICMs) 3-6
3.2.1 SWMU-10: North Field Fire Fighting Training Area 2 3-7
3.2.2 AOC-4: Petroleum AST without Base Containment - Bldg 6 3-7
3.2.3 SWMU-7A: Process Sewer (North and West Sides-ChemD Plant) 3-7
3.2.4 SWMU-14: Waste Toluene Management East of Tank Farm 3-8
3.2.5 SWMU-6: Tank Farm 3-8
3.2.6 AOC 11: Offsite Groundwater 3-9
3.3 Soil Vapor Intrusion Investigation and Mitigation Program 3-11
3.3.1 Onsite Activities 3-11
3.3.2 Offsite Activities 3-12

4. DESCRIPTION OF CURRENT CONDITIONS 4-1

4.1 Groundwater Flow Model 4-1
4.2 Screening Level Ecological Risk Assessment 4-1
4.3 Constituents of Concern 4-2
4.3.1 Groundwater and Surface Water COCs 4-2
4.3.2 Soil COCs 4-2
4.4 Nature and Extent of Constituents of Concern 4-3
4.4.1 Summary of Soil Conditions 4-3
4.4.2 Summary of Groundwater Conditions 4-4

4.4.3 Summary of Soil Vapor Conditions 4-5
4.5 Emerging Contaminants 4-6
4.5.1 1,4-Dioxane 4-6
4.5.2 PFAS 4-6
4.6 Migration Pathways and Potential Receptors 4-7

5. CORRECTIVE ACTION OBJECTIVES AND MEDIA CLEANUP CRITERIA 5-1

5.1 Corrective Action Objectives 5-1
5.2 Media Cleanup Standards 5-1
5.2.1 Groundwater and Surface Water Cleanup Standards 5-1
5.2.2 Soil Cleanup Standards 5-2
5.2.3 Soil Vapor, Sub-Slab Vapor, and Indoor Air 5-4
5.3 Points of Compliance 5-5

6. IDENTIFICATION, SCREENING, AND DEVELOPMENT OF CORRECTIVE MEASURE ALTERNATIVES 6-1

6.1 Identification and Screening of Remedial Technologies 6-1
6.2 Development of Alternatives 6-2
6.2.1 Soil Corrective Measure Alternatives 6-2
6.2.2 Groundwater Corrective Measure Alternatives 6-3

7. EVALUATION OF CORRECTIVE MEASURE ALTERNATIVES 7-1

8. RECOMMENDED CORRECTIVE MEASURE 8-1

8.1 Soil 8-1
8.2 Groundwater 8-1
8.3 Soil Vapor 8-1
8.4 Recommended Corrective Measure Cost 8-1
8.5 Recommended Corrective Measure Remedial Timeframe 8-2
8.6 Corrective Measure Implementation Schedule 8-2
8.7 Data Gaps 8-2

9. CERTIFICATION STATEMENT 9-1

10. REFERENCES 10-1

TABLES

Table 3-1: Summary of Injections
Table 4-1: Constituents of Concern for Groundwater and Surface Water
Table 4-2: Constituents of Concern for Soil
Table 4-4: Detections of Soil COCs Above Unrestricted SCOs
Table 4-7: NYSDEC Guidance Values for Emerging Contaminants
Table 5-1: Groundwater Cleanup Standards for Constituents of Concern
Table 5-2: Cost Comparison for Unrestricted and Restricted Soil Cleanup Objectives
Table 5-3: Soil Cleanup Standards for Constituents of Concern
Table 2-1: SWMUs and AOCs
Table 2-2: Reference List
Table 3-1: Summary of Injections
Table 3-2: Summary of Offsite Soil Vapor Monitoring and Mitigation
Table 4-1: Constituents of Concern for Groundwater and Surface Water
Table 4-2: Constituents of Concern for Soil
Table 4-3: SWMU-7D Soil Analytical Results
Table 4-4: Detections above Unrestricted SCO
Table 4-5: Groundwater Monitoring Results (2006-2019)
Table 4-6: 2020-2021 Groundwater Analytical Results
Table 5-1: Groundwater Cleanup Standards for Constituents of Concern
Table 5-2: Cost Comparison for Unrestricted and Restricted Soil Cleanup Objectives
Table 5-3: Soil Cleanup Standards for Constituents of Concern
Table 6-1: Screening of Remedial Technologies - Soil
Table 6-2: Screening of Remedial Technologies - Groundwater
Table 7-1: Comparative Evaluation of Alternatives - Soil
Table 7-2: Comparative Evaluation of Alternatives - Groundwater
Table 8-1: Recommended Corrective Action Cost

FIGURES

Figure 1-1: Site Location Map
Figure 1-2: Site Plan
Figure 2-1: SWMU and AOC Locations and Status
Figure 2-2: Geologic Cross-Section A-A'
Figure 2-3: Geologic Cross-Section B-B'
Figure 2-4: Geologic Cross-Section C-C'
Figure 2-5: Geologic Cross-Section D-D'
Figure 2-6: Site Plan and Monitoring Well Network
Figure 2-7: Groundwater Contours – Lower Till
Figure 4-1: SWMU-7D TCE Concentrations
Figure 4-2: 2022 Deep Till Aquifer 1,2-Dichloroethane Concentration Isopleths
Figure 4-3: 2022 Deep Till Aquifer Carbon Tetrachloride Concentration Isopleths
Figure 4-4: 2022 Deep Till Aquifer Cis-1,2-Dichloroethene Concentration Isopleths
Figure 4-5: 2022 Deep Till Aquifer Trichloroethene Concentration Isopleths
Figure 5-1: Approximate Treatment Areas for Unrestricted and Restricted Use Soil Cleanup Objectives

Figure 6-1: Conceptual Plan for Alternative S1 Excavation and Disposal
Figure 6-2: Conceptual Plan for Alternative S2 - In Situ Chemical Reduction
Figure 8-1: Conceptual Plan for Soil Recommended Corrective Measure

APPENDICES

Appendix A: Groundwater Flow Model Report
Appendix B: Monitoring Well Completion Logs
Appendix C: Hydraulic Conductivity Testing Results
Appendix D: Screening Level Ecological Risk Assessment
Appendix E: Discussion of Total Chromium Results
Appendix F: Soil Conditions Figures
Appendix G: Corrective Measure Cost Estimates

1. INTRODUCTION

This Resource Conservation and Recovery Act (RCRA) Corrective Measures Study (CMS) Report has been prepared on behalf of Wyeth Pharmaceuticals LLC (Wyeth; which is part of Pfizer Inc.) for the Former Wyeth Pharmaceutical Site (the "Site"). The Site is comprised of former facilities located at 100 Academy Street (known as the Chemical Development [ChemD] Plant) and 64 Maple Street (known as the Main Plant) in Rouses Point, New York. A Site Location Map is provided as **Figure 1-1**. The ChemD Plant and the Main Plant portions of the Site are depicted on **Figure 1-2**.

This CMS Report was prepared in general accordance with the NYSDEC 6 NYCRR Part 373 Hazardous Waste Management Permit (NYSDEC Permit # 5-0928-00017/00175) Module II, Appendix II-C entitled "Scope of Work for a Corrective Measure Study" for the facility (most recently renewed on March 4, 2009[1]) and the NYSDEC-approved CMS Work Plan dated October 15, 2010 (revised December 9, 2010). In addition, this CMS Report was prepared in accordance with USEPA guidelines and site-specific documents and reports referenced in **Section 10**.

1.1 CMS Revision History

The CMS was completed as requested by the New York State Department of Environmental Conservation (NYSDEC) following review of the June 25, 2010 Supplemental Sampling and Analysis Report (Supplemental SAR) for the Site, also reviewed in conjunction with the United States Environmental Protection Agency (USEPA) Region 2 and New York State Department of Health (NYSDOH). A draft CMS Report was submitted to NYSDEC and NYSDOH on May 9, 2012. NYSDEC and NYSDOH provided comments on October 24, 2012. These comments were incorporated into a revised draft CMS Report dated March 29, 2013. Subsequent to the March 29, 2013 draft CMS, as discussed in Section 3, additional investigations and interim corrective actions were completed by Wyeth following facility decommissioning and demolition activities that made additional areas of the Site accessible for investigation and remediation. These activities are incorporated into the CMS.

After meetings with NYSDEC and NYSDOH, a draft Focused Feasibility Study and Corrective Measures Study Addendum (CMS Addendum) was drafted and submitted documenting justification and rational for target clean-up criteria and remedial actions on November 5, 2021. Based on NYSDEC comments on the draft CMS Addendum dated June 01, 2022, the content from the report has been incorporated into the draft CMS Rev 1 submitted September 2022. The February 2024 draft (Rev 2) incorporated no further action approvals and comments from NSYDEC letters provided in 2023 and 2024 (see reference list in Section 10). This final version has been prepared based on comments provided by NYSDEC and NYSDOH on June 4, 2024.

1.2 Report Purpose

The purpose of this CMS Report is to detail the strategies, procedures, and results of implementation of the CMS program for the Site to complete selection and documentation of corrective measures for the Site that will provide protection to human health and the environment. The CMS Report includes the following primary components:

[1] Part A Permit Application Package to renew NYSDEC Permit No. 5-0928-00017/00175 submitted to the NYSDEC on September 4, 2018. NYSDEC acknowledged receipt of the Application Package by email on September 4, 2018. Renewal of permit pending.

- Identification and development of corrective measure alternatives including a description of the Site, a summary of previous investigations and results, the known nature and extent of constituents of concern, establishment of corrective action objectives, and screening of corrective measures technologies;
- Evaluation of corrective measure alternatives, including technical, environmental, human health, and relative implementation costs; and
- Justification and recommendation of the final corrective measure alternatives based on technical, human health, and environmental factors.

1.3 Report Organization

This CMS Report has been organized to present the information to complete the NYSDEC approved scope of work for the CMS for the Site as summarized below:

- **Section 1** provides an introduction and overview of the CMS.
- **Section 2** provides a facility description and a summary of solid waste management units (SWMUs) and areas of concern (AOCs) identified at the Site.
- **Section 3** summarizes site conditions that have been gathered as part of previous investigations, Interim Corrective Measures (ICMs), and vapor intrusion investigation and mitigation.
- **Section 4** presents the description of the current site conditions including the development of the groundwater flow model, a screening level ecological risk assessment, the nature and extent of constituents of concern in soil, groundwater, and soil vapor.
- **Section 5** outlines the corrective action objectives and the media cleanup criteria/standards for the Site.
- **Section 6** outlines the remedial technology identification, development, and screening process for technologies that were evaluated as part of the CMS program.
- **Section 7** outlines the results of the evaluation of selected remedial alternatives during the CMS program as a result of the screening and selection process.
- **Section 8** provides the recommendations for the final corrective measures for the Site.
- **Section 9** provides the certification statement.
- **Section 10** provides the references cited in this Report.

2. FACILITY DESCRIPTION AND SITE CONDITIONS

This section provides a summary of a description of the Site including historical operations, SWMUs and AOCs, and the environmental setting including site geology and hydrogeology.

2.1 Site Description

The Site is located at the intersection of Maple Street (to the east) and Academy Street (to the south) in the Village of Rouses Point, Clinton County, New York approximately 800 feet west of the northern end of Lake Champlain and 3,300 feet south of the Canadian border. The property is zoned I-2, Industrial and is depicted on **Figure 1-1**. The property is bounded to the west by a rail line, and to the north, east, and south by residential neighborhoods of Rouses Point. The Site is generally flat, with a gentle drop to the east and southeast.

2.2 Historical Operations

The Site formally contained two operational facilities, the Main Plant and the ChemD Plant. The Main Plant and ChemD Plant operated as semi-autonomous units, although much of the Site infrastructure was shared between the two plants including steam, process wastewater treatment facilities, and hazardous waste storage.

The Main Plant (located primarily on the eastern portion of the Site) included approximately 1 million square feet of manufacturing and supporting infrastructure space. This portion of the Site was previously owned by Wyeth and sold to Akrimax Manufacturing, LLC in 2006, who then leased the plant back to Wyeth (later acquired by Pfizer) for pharmaceutical manufacturing operations. Wyeth re-acquired the Main Plant portion of the facility from Akrimax in 2011. Operations at the Main Plant formerly included the manufacturing, primary processing and packaging of over-the-counter and prescription pharmaceuticals. Production operations at the Main Plant ceased in December 2017. The Main Plant facility included the manufacturing buildings, boiler house, air treatment buildings, and general Site grounds including the undeveloped portions of the Site.

The ChemD Plant (located on the western portion of the Site) was owned and operated by Wyeth until 2018 and included approximately 120,000 square feet of pharmaceutical research and development and warehouse space. The ChemD Plant facility included the process wastewater treatment plant, steam stripper, tank farm, various storage buildings, the fire water system, and the greater than 90-day hazardous waste storage facility.

In November 2018, the Site was sold to ERS Rouses Point NY LLC. A portion of the Site buildings were demolished prior to the sale of the property. Most of the remaining Site buildings have since been demolished by the current owner. The former Main Plant portion of the facility maintains an address of 64 Maple Street. The former ChemDPlant portion of the facility maintains an address of 100 Academy Street.

The Site maintains a 6 NYCRR Part 373 Hazardous Waste Management Permit (NYSDEC Permit # 5-0928-00017/00175). A Part 373 Permit Application Package to renew NYSDEC Permit No. 5-0928-00017/00175 was submitted to the NYSDEC on September 4, 2018. NYSDEC acknowledged receipt of the Application Package by email on September 4, 2018. Renewal of the permit is pending.

2.3 Solid Waste Management Units and Areas of Concern

A total of 30 SWMUs[2] and 11 AOCs have been identified at the Site that meet the SWMU/AOC definitions in the NYSDEC 6 NYCRR Part 373 Hazardous Waste Management Permit for the Site. The NYSDEC was notified of the presence of the 36 SWMUs/AOCs per the requirements of the Part 373 permit in July 2006. As presented in the Minor Modification Request dated December 17, 2013, a new <90 day storage area was incorporated into the permit as SWMU-27 in 2013. Per discussions with NYSDEC, offsite groundwater has been identified as AOC-11 in 2023.

In addition, per discussions with NYSDEC, in 2023 SWMU-7 was divided into four sub-parts[3]:

- SWMU-7A: Exterior Process Sewers North and West of Building 23
- SWMU-7B: Exterior Process Sewers from Building 17C and 34, Exterior Process Sewers East Side of Building 23, and Interior Process Sewers (Buildings 16, 23, 24, 26, 31, 34, and 40)
- SWMU-7C: Process Sewers Buildings 19, 21, 13, 35, 14, and 37
- SWMU-7D: Process Sewers Buildings 18 and 27

All SWMUs are currently inactive. The locations of the majority of the SWMUs and AOCs (including those SWMUs and AOCs where no further action has been achieved) are depicted on **Figure 2-1**. The status of SWMUs/AOCs are provided to NYSDEC by March 4 of each calendar year per the requirements of the Part 373 permit. As of December 2023, no further action status has been approved for 27 SWMUs and 9 AOCs by NYSDEC (see **Sections 3.1.1** and **3.2**). A current status table is included as **Table 2-1** and associated references in **Table 2-2**.

2.4 Regional Geology

Rouses Point is situated in the northern Champlain valley. Generally, the valley exhibits little relief located on glacial lake and marine sediments (Fisher, 1968). Other materials of glacial origin are discussed below. These glacial deposits are located above bedrock materials generally Cambrian and Ordovician in Age (Fisher, 1968).

Lake Champlain drains to the north through the Richelieu River located eastward from the Site. The water in the lake is at an approximate mean elevation of 95 feet above mean sea level. The lake is relatively shallow in the vicinity of the Site.

The geology of the area consists of surficial geologic materials of glacial, glacial lake, and marine origin (see Figure 2-1 of the groundwater flow model report provided in **Appendix A**). The surficial geologic units in the area consist of till, marine and/or lacustrine silt and clay deposits, and swamp deposits. Deposition occurred because of the sequence of glaciation and deglaciation of the area (Denny, 1974). The most prevalent surficial unit in the area is the glacial till which is described as poorly sorted, sand rich, with variable content of boulders to silt sized particles generally deposited beneath the glacial ice. This is the unit predominantly found beneath the Site. The marine and/or silt and clay deposits are described as generally

[2] Including the four subparts of SWMU-7.

[3] This CMS refers to the specific subparts of SWMU-7 based on the 2023 definition; however, previous documents referenced do not make the distinction.

laminated to massive silt and clay which may include fossil shells are generally of low permeability. Earlier maps depict a lobe of the silt and clay extending southwestward toward the area of the Site (Denny, 1974). The palustrine deposits are generally located well south of the Site and are described as peat and muck with organic silt and sand in poorly drained areas.

The bedrock geology in the area (see Figure 2-2 of the groundwater flow model report provided in **Appendix A**) is part of the Middlebury Synclinorium. The geology within the Middlebury Synclinorium consists of metamorphosed sandstone, dolomite, limestone, and mudrocks. The oldest formation outcropping in the area is the Potsdam Sandstone of Cambrian age located to the west of the Site. The Beekmantown Group and Chazyan carbonates, generally limestones and dolomites, are the next oldest rocks also located to the west and southwest of the Site and are of Ordovician to Cambrian age. The Theresa Formation is part of the Beekmantown Group and is exposed to the west of the Site and is described as a sandy dolomite with interbedded weak sandstones and is of late Cambrian Age. The Site is underlain by the Stony Point Shale which is a black mudrock formation meaning it has a relatively high organic content and is locally sulfide rich. The Stony Point Shale is also of Ordovician age.

2.5 Site Geology

The Site soils are mapped by the United States Department of Agriculture (USDA) Soil Conservation Service as Malone gravelly loam with 0 to 3 percent slopes. Malone gravelly loam is described by the USDA as a very deep, somewhat poorly drained, loamy soil found in high lime glacial till. Permeability is moderate in the surface soil, and moderately slow to slow in the subsoil.

The surficial geology at the Site consists primarily of glacial till. Till commonly consists of poorly sorted, generally non-stratified mixtures of grain-sizes ranging from clay to boulders. Based on Site observations from the soil boring and test pit excavation logs, it appears that the generalized soil lithology for the shallow, unconsolidated overburden underlying the Site includes three primary stratigraphic units as follows:

- Upper till unit – consisting of a brown to gray, medium dense to dense, fine to coarse sand with little silt and varying amounts of clay, gravel, cobbles, and boulders.
- Lower till unit – consists of a dense to very dense sand and silt with lower amounts of clay and a higher percentage of cobbles and boulders.
- Undifferentiated silt and clay – consists of a stiff gray to brown clay and silt with trace to some fine to medium gravel.

The undifferentiated silt and clay layer is laterally discontinuous and fine sand is found in the vicinity of MW-7, MW-10, and MW-22. The undifferentiated silt and clay deposit may be related to the undifferentiated marine and glacial lake sediments depicted on the regional surficial geologic map of the area.

Other ancillary units encountered include topsoil and fill. The topsoil generally is of minimal thickness <1 foot located in areas that are typically undisturbed. The fill is generally sand and gravel and varies in thickness from 0 to 5 feet where present. The fill is found in areas where buildings and roads have been constructed. In addition, utility corridors contain various amounts of fill or excavated and replaced native materials. The utility corridors have been observed to generally contain less dense and more permeable materials. The utility corridors may serve as enhanced pathways for contaminant migration.

Along the southern portion of the Site, the upper till unit was generally first encountered near the ground surface and ranges in thickness from approximately 18 feet at the western end of the Site and thins to a thickness of approximately 15 feet at the eastern property boundary of the Site, and further thins offsite to a thickness of approximately 10 feet at MW-17 in Academy Street. Along the northern portion of the Site, the upper till unit was generally first encountered near the ground surface and ranges in thickness from approximately 18 feet at the western end of the Site and thins to a thickness of between 7 and 14 feet at the eastern property boundary, and is found at a thickness of 14 feet offsite at MW-16 in Pearl Street.

In general, the lower underlying till unit has thinning characteristics moving from west to east along the southern portion of the Site. At MW-17 in Academy Street, the lower till unit is approximately 2 feet thick and was confirmed to be underlain by bedrock. The lower till was approximately 4 feet thick at MW-22 which is the easternmost boring at the Site. At the western end of the Site, the lower till unit is approximately 17 feet thick at MW-14 and was confirmed to be underlain by bedrock. One or more 5-foot rock core runs were completed at monitoring well locations in the lower till unit, which indicated the presence of competent bedrock.

Site bedrock is mapped as the Stony Point Shale, a black, fissile, carbonaceous, calcareous mudrock. The depth to bedrock ranges from approximately 35 feet below grade on the southwest portion of the Site to between 18 and 20 feet below grade in the northeastern portion of the Site, and 24 feet below grade in the southeast corner of the Site. The bedrock elevation appears to rise moving offsite to the southeast, with bedrock occurring at 12 feet below grade at MW-17 in Academy Street. A map depicting the bedrock topography in terms of elevation relative to mean sea level is provided as Figure 2-3 in the groundwater flow model report provided in **Appendix A**. Bedrock geology was confirmed by collecting rock cores from the monitoring well locations. These rock cores were generally described as hard, slightly weathered, fractured black, calcareous shale. Geologic cross-sections are provided on **Figure 2-2** through **2-5**.

2.6 Site Hydrogeology

Site hydrogeologic conditions have been evaluated in detail through the installation and monitoring overburden groundwater monitoring wells and through the completion of a groundwater flow model with particle tracking (report provided in **Appendix A**). A figure showing monitoring well locations is included as **Figure 2-6**.

Within the upper till hydrostratigraphic unit, medium dense to dense soils with low permeability were encountered, which did not yield significant groundwater. The lower till hydrostratigraphic unit at the Site appears to be the more significant water bearing unit and the primary unit through which groundwater flows. During the drilling in the lower till unit, it was observed that the lower till was more transmissive than the upper till unit due to the loss of circulation water into the formation during drilling activities. This observation led to the determination that the upper till unit (i.e., dense glacial till with low permeability) was likely representative of vadose zone-type conditions (i.e., moist to semi-saturated soils with low permeability) and that the lower unit was more likely representative of the regional groundwater flow conditions (i.e., highly permeable, saturated conditions). Based on the observations made during drilling of the bedrock, the bedrock at the Site is competent and does not readily transmit water.

As summarized in the model report, water level measurements indicate that the groundwater in the upper till unit was highly variable and appeared to be influenced by precipitation events. Following precipitation events, water was observed to be ponding in open areas of the Site with a very slow rate of infiltration.

Groundwater was also observed in utility corridors and excavations containing non-native fill. Wells completed in the upper till on the eastern edge of the Site show variable vertical flow conditions and vertical gradients, the upper till appeared to represent perched water conditions in some areas with recharge occurring in open area of the Site. Given the ponding observations, some of the observed vertical gradients, the nature of the two till units, and the measured potentiometric surface, semi-confined or confined conditions may exist at the Site.

Recharge to the groundwater flow system is likely to originate primarily in unpaved portions of the area upgradient of the facility and in some of the drainage swales on and around the facility. Groundwater discharges to the Richelieu River/Lake Champlain. There are several closed contour drainage swales on the Site which likely serve as areas of enhanced recharge to the flow system during wet times of the year.

Groundwater at the Site was observed to exhibit the following groundwater flow patterns:

- Slow downward vertical movement in the shallow, dense, low permeability upper till unit (based on water level and geologic observations);
- Limited vertically upward gradients at the eastern edge of the Site; and
- Lateral horizontal movement in the deeper, highly permeable lower till unit with changing hydraulic gradients across the Site likely reflective of changes in the transmissivity of the lower till and/or the amount of permeable surface overlying the area.

A groundwater contour map indicating the general direction of groundwater flow in the lower more transmissive unit (i.e., lower till) during the October 2023 groundwater monitoring event is presented as **Figure 2-7**. The groundwater contour map provides insights into the groundwater flow system beneath the Site. Steep hydraulic gradients are observed on the western side of the Site between MW-14 and MW-13. This suggests that the transmissivity in the western portion of the Site is lower than in the materials beneath the majority of the area over the Site. In the central portion of the Site, the gradients are relatively flat possibly due to lack of recharge because of the impervious cover in this area. The gradients become steep again toward the east from about MW-7 and MW-23 and MW-20 and MW-21. This suggests that the transmissivity in this area drops significantly. This may be related to the observed thinning of the lower till as demonstrated on cross-section A-A' (**Figure 2-2**). The gradients become slightly less steep between MW-21 and MW-22 and MW-23 and MW-22 likely reflecting an increase in transmissivity resulting from thickening of the till unit or a transition to more conductive materials on the eastern limit of the Site.

The hydraulic conductivities in the majority of the wells varied from 1 ft/day to 120 ft/day, with several areas of the Site displaying higher conductivities at 133 ft/day and 155 ft/day in MW-6 and MW-7, respectively.

The horizontal gradients in the western portion of the Site from wells screened in the lower till ranged from approximately 0.0034 to 0.0418 ft/ft. The horizontal gradients in the eastern portion of the Site from wells screened in the lower till ranged from approximately 0.0087 to 0.0332 ft/ft. The central portion of the Site had the lowest calculated gradient of approximately 0.0012 ft/ft suggesting that this portion of the Site has some of the more transmissive materials beneath the Site or there is a lack of recharge in this area due to impervious cover (i.e., buildings and pavement).

The installation of several shallow wells (upper till) adjacent to existing deeper wells (lower till) combined with the installation of several shallow/deep well couplets allows for an interpretation of vertical gradients in the eastern portion of the Site, generally beginning east of MW-6 at the MW-20 couplet. Several of the

shallow wells were periodically dry during several monitoring events including MW-8S, MW-16S, MW-17S, MW-22S, MW-39, and MW-39S. Two well couplets MW-19/19S and MW-23/23S indicated vertically upward gradients. These two well couplets are near the downgradient edge of the Site property in close proximity to the area where the lower till thins and the upper till and fill along Maple and Pearl Streets begins to dominate the stratigraphy. These wells may also represent a regional tendency for upward groundwater discharge to Lake Champlain closer to the lake's edge.

The well couplets including MW-9/9S, MW-18/18S, MW-20/20S, and MW-21/21S showed vertically downward gradients. With one exception (MW-20/20S) these gradients are very strongly vertically downward. This suggests that the water in the upper till in the majority of the wells may be under perched conditions and not well connected to the groundwater flow in the lower till except near MW-20/20S.

Horizontal groundwater flow velocities across the Site were estimated between well pairs that are representative of conditions in the western, central, and the eastern portions of the Site. The results are presented below as described in the June 2010 Supplemental SAR:

- Groundwater velocities for the western portion of the Site for the lower till were approximately 2.0 ft/day as calculated between wells MW-14 and MW-1.
- Groundwater velocities for the central portion of the Site for the lower till were approximately 0.3 ft/day as calculated between MW-12 and MW-6.
- Groundwater velocities for the eastern portion of the Site for the lower till were approximately 0.4 ft/day as calculated between wells MW-20 and MW-17.

3. PREVIOUS INVESTIGATIONS AND INTERIM CORRECTIVE MEASURES

Detailed descriptions of the previous RCRA corrective action investigation activities and the subsequent findings conducted in support of the RCRA corrective action program at the Site are provided in the various reports as presented in **Table 2-2**. A summary of the reports and the previous site investigations beginning in 2007 are presented below.

3.1 Sampling and Analysis Reports Summary

3.1.1 SAR Summary

The investigation conducted in support of the April 2007 SAR was intended to identify the presence or absence of releases to soil and groundwater at select SWMUs and AOCs identified in July 2006 and to obtain site-specific geologic and hydrogeologic data. The investigation was implemented based on the SWMU/AOC Assessment Report dated September 1, 2006, previously submitted to, and approved by the NYSDEC, as well as other site-specific sources. The investigation included the advancement of 52 Geoprobe® soil borings, five test pits, collection and analysis of over 50 soil samples, installation and sampling of eight groundwater monitoring wells, and collection of 14 additional groundwater samples from select locations throughout the Site. The investigation assessed subsurface conditions at both the Main Plant and the ChemD Plant portions of the Site.

The results of the SAR indicated a limited number of constituents, including volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and select metals, were detected at concentrations above established NYSDEC standards or guidance values in both soil and groundwater. An engineering evaluation of select SWMUs (including visual inspections and a camera inspection of the process sewer system; see **Section 3.1.2**) was recommended and a work plan was included as an appendix to the SAR.

No further action was requested for AOCs where no evidence of a release to the soil or groundwater was identified resulting in constituent concentrations above applicable NYSDEC criteria or guidance. Specifically, no further action was requested for the following AOCs:

- AOC-2: Stained Soil Near Contractor AST
- AOC-5: Ethylene Dichloride Release Near Building 23 Loading Dock
- AOC-6: Petroleum and Dichloromethane Release from Building 25 Loading Dock
- AOC-7: No. 6 Fuel Oil Releases to Concrete Trench North of Building 6
- AOC-9: Building 34 Loading Dock Mixed Alcohol Waste Release

On May 8, 2007, the NYSDEC approved the no further action requests for the above-listed AOCs (except for AOC-2; see below), issued comments in conjunction with the NYSDOH on the April 2007 SAR, and requested that the following additional investigation activities be conducted (see **Section 3.1.3**):

- Surface soil sampling (i.e., 0 to 2 inches below vegetative cover) in areas free of buildings or concrete slab cover;
- Storm sewer evaluation including sediment and water quality sampling and analysis and storm/sanitary sewer mapping; and

- Soil vapor and offsite groundwater investigation.

A Supplemental Sampling and Analysis Plan (SAP) was prepared based on the NYSDEC/NYSDOH comments and the results of the April 2007 SAR and was submitted to the NYSDEC/NYSDOH on June 29, 2007. In a letter dated July 17, 2007 following the receipt of clarifying information for AOC-2, the NYSDEC approved no further action status for AOC-2 and in conjunction with the NYSDOH approved the implementation of the Supplemental SAP with comments.

3.1.2 Engineering Evaluation Summary

The Engineering Evaluation Report documented visual inspections of 16 SWMUs (including active and inactive SWMUs) and a camera inspection (using remote television surveillance technology) and schematic mapping of the process sewer at the Main Plant and ChemD Plant (SWMU-7). No evidence of historic or ongoing releases was observed at the 16 SWMUs visually inspected. Process sewer integrity issues were identified in the ChemD Plant process sewer system. An ICM involving exterior process sewer piping and soil removal and replacement was conducted for SWMU-7A as detailed in the May 14, 2010 ICM Completion Report (discussed further in **Section 3.2.3**).

3.1.3 Supplemental SAR Summary

The supplemental investigation activities conducted in support of the June 25, 2010 Supplemental SAR (revised September 10, 2010) were intended to further investigate the presence or absence of various constituents in media at selected areas of the Site and offsite locations from 2007 to 2010 in accordance with the NYSDEC/NYSDOH approved work plans. As part of the investigation, 15 additional groundwater monitoring wells were installed in the lower till at various onsite and offsite locations, and 10 groundwater monitoring wells were installed in the upper till at onsite and offsite locations. Targeted investigations of select SWMUs and AOCs were not conducted during the supplemental sampling and analytical program due to their ongoing use for Site operations and to focus on the onsite and offsite field investigation activities requested by the NYSDEC/NYSDOH.

As documented in the June 2010 Supplemental SAR, multiple VOCs were detected in onsite and offsite groundwater monitoring wells screened in the upper till and lower till units, with higher overall constituent concentrations found in the lower till. Several chlorinated VOCs; primarily carbon tetrachloride, chloroform, trichloroethene (TCE), and cis-1,2-dichloroethene were detected at concentrations above NYSDEC groundwater quality standards primarily around the Main Plant facility and extending offsite to the east-southeast of the Site, with the highest concentrations generally detected at the intersection of Maple Street/Academy Street in MW-21 in the lower till. In addition, 1,2-dichloroethane (1,2-DCA) was also detected at concentrations above the NYSDEC groundwater quality standard in multiple onsite and offsite locations in the lower till, with the highest concentration detected toward the central portion of the Site in MW-3 near the property boundary between the ChemD Plant and the Main Plant.

Further investigation of onsite and offsite groundwater quality and hydrogeologic conditions was recommended in the Supplemental SAR to the east-southeast of the Site to further investigate potential source areas and downgradient distribution of chlorinated VOCs. In addition, soil and/or groundwater investigation activities were recommended at select inactive SWMUs and AOCs. These additional investigation activities were summarized in the NYSDEC approved CMS Work Plan dated October 8, 2010 (revised December 9, 2010).

As part of the supplemental investigation activities, several investigation activities intended to evaluate potential vapor intrusion concerns were conducted at the Main Plant from 2007 through 2009. The results of these investigation activities were reported in the 2010 Supplemental SAR and are discussed in further detail in **Section 3.3**.

3.1.4 CMS Summary

Several inactive SWMUs and AOCs were investigated during the CMS program between 2010 and 2013 to aid in further assessing whether a release has occurred at each SWMU/AOC and to assist in the identification of the appropriate remedial strategy that may be implemented to address the SWMUs/AOCs, or provide enough rationale to pursue no further action status. This work was completed in accordance with the NYSDEC approved CMS Work Plan dated October 8, 2010 (revised December 9, 2010). These SWMU/AOC were further investigated as part of the ChemD and Main Plant sampling and analysis as described in **Sections 3.1.5** and **3.1.6** below.

This work included the installation of 27 additional groundwater monitoring wells (15 upper till wells, 12 lower till wells) to further delineate groundwater quality and hydrogeologic conditions at the Site (including locations at the ChemD Plant and the Main Plant) and offsite to the east-southeast. The locations were chosen to provide additional groundwater quality and hydrogeologic information to supplement the existing Conceptual Site Model (CSM), address data gaps, investigate inactive SWMUs/AOCs, and to further evaluate the distribution of VOCs of concern in groundwater. Boring logs and well completion details are provided in **Appendix B**. In addition, hydraulic conductivity testing was completed at newly installed groundwater monitoring wells (**Appendix C**). The calculated hydraulic conductivities for these newly installed wells are included in the groundwater model report provided in **Appendix A**.

Soil vapor intrusion investigation and mitigation activities completed in accordance with the CMS Work Plan are summarized in **Section 3.3**.

3.1.5 ChemD SWMU SAR Summary

The purpose of the Chemical Development Pilot Plant-specific SWMU SAR (the ChemD SWMU SAR), dated April 8, 2016 (revised September 7, 2023), was to document the results of field screening and soil sampling activities at select SWMUs that were implemented during and following demolition of the ChemD Pilot Plant. The field screening and soil sampling activities summarized in the ChemD SWMU SAR were originally proposed in the Chemical Development Pilot Plant-specific SWMU Sampling & Analysis Plan (SAP), dated September 18, 2014, (revised December 1, 2014) and approved by NYSDEC on December 10, 2014, and the Addendum to the ChemD SWMU SAP, dated September 22, 2015 and approved by NYSDEC on October 5, 2015.

A total of 14 SWMUs and four AOCs were identified at the ChemD Pilot Plant:

- SWMU-1: Interim Drum Storage Area
- SWMU-4: Former Container Storage Area
- SWMU-5: Container Storage Area
- SWMU-6: Tank Farm
- SWMU-7A: Exterior Process Sewers North and West of Building 23

- SWMU-7B: Exterior Process Sewers from Building 17C and 34, Exterior Process Sewers East Side of Building 23, and Interior Process Sewers (Buildings 16, 23, 24, 26, 31, 34, and 40)
- SWMU-12: Building 16 Former Drywell
- SWMU-13: Building 16 Former Sanitary Sewer Holding Tanks
- SWMU-14: Waste Toluene Management East of Tank Farm
- SWMU-15: Building 24 Wastewater Treatment Plant
- SWMU-17: Building 40 Wastewater Steam Stripper Building
- SWMU-23: Building 16 Former Waste Storage Area in Northwest Corner
- SWMU-24: Building 31 Solvent Condensate System
- SWMU-26: ChemD Reactor Bay Drumming Areas (Multiple Locations)
- AOC-5: Ethylene Dichloride Release Near Building 23 Loading Dock
- AOC-8: Release of Acetonitrile to the Concrete at Chemical Development
- AOC-9: Building 34 Loading Dock Mixed Alcohol Waste Release
- AOC-10: Building 23 Therminol Release to Soil

Prior to completion of the investigation activities summarized in the ChemD SWMU SAR, no further action status had been previously approved by NYSDEC for AOC-5, AOC-9, a portion of SWMU-6 (no further action status for the truck containment pad), SWMU-7A, and SWMU-14 (see **Table 2-1**).

Based on the decontamination activities and results, the Building 17C regulated unit (SWMU-5) consisting of the containment pad, containment sump, access ramp, and truck containment pad were closed in substantial accordance with the Closure Plan (Attachment VII of the Part 373 HWM Permit) and no further decontamination was required. The Building 17C (Container Storage Building) Final Closure Report dated June 3, 2014 was submitted to NYSDEC. NYSDEC approved the Closure Report in a letter dated July 23, 2014 and terminated authorization to operate Building 17C as a permitted hazardous waste management unit. The Part 373 Permit No. 5-0928-00017/00175 underwent Minor Modification to transition to a Corrective Action only permit as outlined in the correspondence from Pfizer of August 4, 2014 and as documented in the modified permit issued on October 3, 2014.

Between 2014 and 2015, investigation activities were conducted to evaluate soil quality at SWMUs at the former ChemD plant. Of the 110 soil samples collected and analyzed for VOCs during 2014 to 2015 investigation activities, the reported concentration of acetone and/or 1,1-dichloroethene were detected above established NYSDEC Unrestricted Use SCOs at only three soil sample locations. During all previous investigation activities, the only other detection above NYSDEC Unrestricted Use SCOs was a reported concentration of vinyl chloride at one soil sample location.

Based on the results of the 2014 to 2015 soil sampling activities, no further action was recommended with regard to soil investigation or remediation activities at all remaining SWMUs investigated at the ChemD

Plant. NYSDEC approved the no further action recommendations in letters dated May 9, 2023 and October 6, 2023[4].

3.1.6 Main Plant SWMU/AOC SAR Summary

The purpose of the Main Plant-specific SWMU and AOC SAR (Main Plant SWMU/AOC SAR), dated April 19, 2019 (revised October 30, 2023) was to document the results of field screening and soil sampling activities conducted at the Site related to corrective action requirements for the various SWMUs/AOCs identified at the Main Plant. The field screening and sampling activities summarized in the Main Plant SWMU/AOC SAR were originally proposed in the Main Plant-specific SWMU/AOC Sampling & Analysis Plan (Main Plant SWMU/AOC SAP), dated August 26, 2015 (revised March 7, 2018 and September 20, 2023). The proposed sampling approach was approved by NYSDEC on May 9, 2018.

A total of 16 SWMUs and seven AOCs were identified at the Main Plant:

- SWMU-2: Building 20A Accumulation Area
- SWMU-3: Building 20 Accumulation Area
- SWMU-7C: Process Sewers Buildings 19, 21, 13, 35, 14, and 37
- SWMU-7D: Process Sewers Buildings 18 and 27
- SWMU-8: Waste Neutralization Underground Storage Tanks (USTs) (2 Locations)
- SWMU-9: Lab Waste Management Area
- SWMU-10: North Field
- SWMU-11: Sumps and Catchments in Solvent Use Areas (8 Locations)
- SWMU-16: Former Fire Fighting Training Areas 3 & 4
- SWMU-18: Building 36 and Building 41 Process Wastewater ASTs
- SWMU-19: Process Equipment Solvent Recovery Units (6 Locations)
- SWMU-20: Process Dust Collection Drum-Outs (19 Locations)
- SWMU-21: Building 25 Active Pharmaceutical Ingredient Waste Storage Area
- SWMU-22: Building 20 Courtyard Waste Oil Storage Shed
- SWMU-25: Building 11 Inactive Spray Paint Booth
- SWMU-27: Building 13 Accumulation Area
- AOC-1: Former PCB-Containing Transformer
- AOC-2: Stained Soil Near Contractor AST
- AOC-3: Petroleum-Stained Soil - Building 6 – Former 30,000-gallon UST
- AOC-4: Petrol AST without Base Containment – Building 6
- AOC-6: Petroleum & Dichloromethane Release – Building 25 – Loading Dock

[4] Submittal information on SWMU-7B was provided on September 8, 2023 for a portion of SWMU-7B.

- AOC-7: Fuel Oil (No. 6) Release to Concrete Trench North of Building 6
- AOC-11: Offsite Groundwater

Prior to initiation of investigation activities, no further action status had previously been approved for four SWMUs and AOCs at the Main Plant including AOC-2, AOC-4, AOC-6, and AOC-7. An additional four SWMUs and AOCs (SWMU-2, SWMU-16, SWMU-25, and AOC-1) were recommended for no further action in the Main Plant SWMU/AOC SAP. In a letter dated November 16, 2023, NYSDEC approved the no further action recommendations presented in the Main Plant SWMU/AOC SAP for SWMU-2 and SWMU-25 and disapproved no further action recommendations for SWMU-16 and AOC-1.

Between July 2018 and February 2019, investigation activities were conducted to evaluate soil conditions or release risk at SWMUs at the former Main Plant. Based on the results of the investigation activities, no further action status was recommended for all investigated SWMUs and AOCs, with the exception of SWMU-7D. TCE concentrations were found in soil samples in SWMU-7D above SCOs and additional investigations were recommended for SWMU-7D (see **Section 3.1.7**). NYSDEC approved the no further action recommendations from the Maine Plant SAR in a letter dated November 28, 2023 with the exception of SWMU-10.

3.1.7 Supplemental Main Plant SAR Summary

The purpose of the Supplemental Main Plant SWMU/AOC SAR, dated December 29, 2020 (revised December 29, 2023), was to document the results of soil and groundwater sampling activities at SWMU-7D conducted between November 2019 and October 2020. These sampling activities were based on recommendations in the 2019 Main Plant SWMU/AOC SAR. The supplemental investigation was conducted in accordance with the procedures approved under the Main Plant-specific SWMU/AOC Sampling & Analysis Plan, revised March 2018.

Between November 2019 and October 2020, supplemental investigation activities were conducted to evaluate extents of previously identified VOC impacts at SWMU-7D. The supplemental investigation confirmed and delineated the presence of elevated VOCs (primarily TCE) in soil.

Groundwater results from the supplemental investigation indicated that TCE and its breakdown products, including cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride, were detected at concentrations above the NYSDEC Groundwater Standard/Guidance in several wells in a downgradient direction (southeast) from SWMU-7D. The results from soil investigation activities combined with the pattern of TCE impacts in groundwater indicate that the soil in SWMU-7D represents an isolated source of TCE impacts to groundwater.

3.2 Interim Corrective Measures (ICMs)

Remedial investigations and actions have been conducted at the Site on an as-needed basis to address elevated concentrations of VOCs and SVOCs identified through groundwater monitoring or soil investigations, in response to releases, or in response to facility-driven improvements. The purpose of these efforts was to investigate, and potentially remediate, areas where further risk reduction could be accomplished. The following sections summarize the ICMs completed to date at SWMUs/AOCs depicted on **Figure 2-1.**

3.2.1 SWMU-10: North Field Fire Fighting Training Area 2

The ICM consisted of excavation of the former firefighting training structure and surrounding soil in 2007. Approximately 190 tons of soil and concrete were excavated and transported offsite for disposal. The analytical results of the post-excavation confirmation soil sampling indicate that the elevated concentrations of VOCs and SVOCs previously detected in soil and groundwater in 2006 were mostly removed. Following ICM soil excavation activities, concentrations of benzene and methyl tert-butyl ether (MTBE) were detected in soil at the base and east and west sidewalls above NYSDEC Unrestricted Use Soil Cleanup Objectives (SCOs) (6 NYCRR Subpart 375-6.8 (a)) at between 10 and 11 feet below ground surface (bgs); however, the benzene and MTBE concentrations were below NYSDEC Restricted Use – Residential SCOs (6 NYCRR Subpart 375-6.8(b)). No concentrations of SVOCs remained in soil above established SCOs. The total chromium concentrations in confirmation soil samples appeared to be related to Site background conditions and did not appear to be related to the SWMU-10 release.

The surface soil sampling analytical results from around the perimeter of the ICM excavation indicated several SVOCs below established SCOs. Total PCBs in one surface soil sample was above the NYSDEC Unrestricted Use SCO only, while a second surface soil sample was slightly above the NYSDEC Restricted Use – Residential SCO. Similar to the post excavation soil sampling results, the total chromium concentrations in surface soil appeared to be within typical background ranges and did not appear to be related to the SWMU-10 release. No further action was recommended for SWMU-10 in the ICM Completion Report dated March 19, 2010 (revised April 29, 2010). In a letter dated May 12, 2010, the NYSDEC concurred with the no further action recommendation at the time, NYSDECs approval letter noted that further action may be required "pending final site disposition" (i.e., an Environmental Easement will be required to allow for Restricted Use SCOs to be utilized). Based on the review of the Main Plant SAR in 2023, NYSDEC has rejected the no further action request.

3.2.2 AOC-4: Petroleum AST without Base Containment - Bldg 6

An ICM involving soil excavation was conducted in 2008 following removal of the 60,000-gallon petroleum aboveground storage tank (AST) and prior to construction of a replacement AST. Approximately 130 tons of soil was excavated and transported offsite for disposal. The analytical results of the post-excavation confirmation soil sampling indicated that all VOC and SVOC concentrations were below established NYSDEC Unrestricted Use SCOs in 6 NYCRR Subpart 375-6.8(a). Based on the results of the ICM activities, no further action was recommended with regard to soil investigation or remedial excavation activities for AOC-4 in the ICM Completion Report dated June 4, 2010. The NYSDEC concurred with the no further action recommendation in a letter dated July 21, 2010.

3.2.3 SWMU-7A: Process Sewer (North and West Sides-ChemD Plant)

The ICM was conducted from June 2008 to December 2009 and consisted of the following primary activities: soil excavation, exterior process sewer piping and structures removal and abandonment, dewatering (including treatment and discharge), collection of post-excavation confirmatory soil samples for laboratory analysis, process sewer piping and structures decontamination, backfilling excavations, site restoration, excavated materials management and disposal, and community air monitoring. Approximately 5,200 tons of excavated soil (which included decontaminated Duriron and fiberglass piping) from SWMU-7A was transported offsite for disposal. Approximately 2,100 tons of soil was reused for backfill at SWMU-7A. Approximately 750 linear feet of process sewer piping, eight concrete process sewer manholes, the Tank

Farm Drain (TFD) in the concrete truck containment pad located on the west side of the Tank Farm (SWMU-6), approximately 110 linear feet of concrete encasing the process sewer piping, and various sections of concrete/asphalt driveways and walkways overlying the process sewer system were removed from 2008 to 2009. In addition, approximately 138 linear feet of the process sewer system and two manholes were grouted in-place. Relevant excavated materials were decontaminated (steam cleaned) and size-reduced, with approximately 280 tons of concrete and 27 tons of asphalt shipped to a local landfill to be used as beneficial use landfill material. In addition, approximately 0.5 tons of stainless-steel piping was shipped offsite for recycling. The new exterior process sewer system consists of approximately 900 linear feet of double-walled stainless-steel piping, 22 coated manholes, and electrical controls on the north and west sides of the ChemD Plant.

VOCs (including tentatively identified compounds) were detected in 31 of 43 soil samples analyzed. Of the 31 samples where VOCs were detected, six samples were above the established Subpart 375-6.8(a) Unrestricted Use SCOs. No VOC concentrations were above established Subpart 375-6.8(b) Restricted Use – Residential SCOs. Based on the results of the post-excavation confirmation soil sampling, no further action was recommended with regard to soil investigation or excavation activities for SWMU-7A in the ICM Completion Report dated May 14, 2010. The NYSDEC concurred with the no further action recommendation in a letter dated June 3, 2010.

3.2.4 SWMU-14: Waste Toluene Management East of Tank Farm

The ICM involving soil excavation was conducted concurrently with SWMU-7A process sewer excavation activities (see **Section 3.2.3**) in 2009 as the two SWMUs were co-located. Approximately 13 tons of soil was excavated and transported offsite for disposal. The analytical results of the post-excavation confirmation soil sampling indicate that the elevated concentrations of VOCs previously detected in soil in 2006 and 2007 at SWMU-14 were removed. The concentrations of acetone, MTBE, and toluene detected in post-excavation confirmation soil samples collected from the base of the excavation at 10 feet bgs were below all established NYSDEC Unrestricted Use SCOs in 6 NYCRR Subpart 375-6.8(a). Additional soil in the vicinity of the SWMU-14 release area was excavated from underneath and around the perimeter of the overhead solvent pipe rack as part of SWMU-7A ICM work. A 2006 excavation of approximately 12 tons of soil from the SWMU-14 release area had been previously conducted as part of a spill response.

Based on the results of the ICM activities, no further action was recommended with regard to soil investigation or remedial excavation activities for SWMU-14 in the ICM Completion Report dated May 21, 2010. The NYSDEC concurred with the no further action recommendation in a letter dated June 17, 2010.

3.2.5 SWMU-6: Tank Farm

An ICM involving soil and concrete excavation was conducted in 2008 concurrently with SWMU-7A process sewer removal and soil excavation activities at the truck containment pad for the tank farm. Approximately 300 tons of soil from the truck containment pad was excavated and transported offsite for disposal. The approximately 1,650-square foot concrete truck containment pad (approximately 100 tons of decontaminated concrete) was transported offsite and used as either cover material or in the construction of interior landfill access ramps and roadways within a lined landfill footprint as beneficial use landfill material. The new truck containment pad consists of approximately 10-inches of coated, reinforced concrete. Following decontamination of the truck containment pad, only a low concentration of acetone below the contract required quantitation limit (CRQL) was detected in the rinsate sample collected from the

concrete surface. During excavation activities, no elevated VOCs were detected in soil during field screening. Post-excavation confirmation soil sample analytical results indicated that the concentrations of VOCs (including acetone and methylene chloride) detected in nine of 18 soil samples were below established NYSDEC Unrestricted Use SCOs in 6 NYCRR Subpart 375-6.8(a). In addition, three of 18 soil samples contained low concentrations of alcohols (including methanol and ethanol). Based on the results of the ICM activities, no further action was recommended with regard to soil investigation or remedial excavation activities for the truck containment pad at SWMU-6 in the ICM Completion Report dated May 28, 2010. The NYSDEC concurred with the no further action recommendation in a letter dated August 26, 2010.

In 2011, operations at the ChemD Plant no longer necessitated operation of the hazardous waste storage tanks that comprised SWMU-6. Therefore, activities were conducted as documented in the Rinsate Sample Collection Report (dated September 23, 2011) submitted to NYSDEC RCRA Permitting Section in accordance with the Part 373 Permit requirements for the decontamination and decommissioning of hazardous waste storage tanks T-1005, T-1008, and ST-1, ancillary piping, the tank containment area (tank farm), and truck containment pad in accordance with the Rinsate Sample Collection Plan dated May 4, 2011 and the Rinsate Sample Locations dated June 13, 2011. All constituents in final rinsate samples for components that remain as part of the tank systems and containment areas were below applicable criteria (NYSDEC GA groundwater criteria plus background concentrations). Based on the results, the Tank Farm was placed in a non-regulated "caretaker" (inactive) status. The Part 373 Permit No. 5-0928-00017/00175 underwent Minor Modification relieving requirements associated with active status of these decommissioned components as outlined in the correspondence from Pfizer of August 1, 2011 and as documented in the modified permit issued on December 27, 2011.

The Tank Farm and the regulated units were never put back into service by Pfizer following decontamination and decommissioning activities in 2011. The containments were cleaned again with final rinsate samples collected as documented in the Tank Farm Final Closure Report (dated January 24, 2014). The closure report was approved by NYSDEC on March 19, 2014.

3.2.6 AOC 11: Offsite Groundwater

In 2013, the NYSDEC recommended that Wyeth implement one of the proposed selected corrective measures presented in the 2013 Draft CMS Report as an ICM prior to completion of its review of the report. In situ chemical oxidation (ISCO) of VOCs, primarily carbon tetrachloride, in groundwater at offsite locations in the intersection of Maple and Academy Streets (referred to as the 'ICM Area'), was approved by the NYSDEC, NYSDOH and the USEPA and initiated by Wyeth as an ICM. The ICM was performed by In-Situ Oxidative Technologies, Inc. (ISOTEC).

The objective of the ICM treatment program was to evaluate the ability of ISCO, using ISOTEC's proprietary Modified Fenton's Reagent and Activated Sodium Persulfate Process (MFR+XFR), to reduce the concentration of COCs in offsite groundwater in the ICM Area and to provide design and operations criteria, including treatment radius of influence (ROI) and dosage to optimize future remedial design.

The ISCO process performed at the ICM Area by ISOTEC used a combination of stabilized hydrogen peroxide, chelated iron catalyst, and sodium persulfate. Reagent was injected into or around the areas of known constituents of concern within the subsurface to promote oxidation of the constituents of concern in situ. Permitting for injection activities of the treatment program was governed by the NYSDEC and USEPA Region II guidelines.

A total of four injection events were completed for the ICM treatment program in 2013 and 2016, as summarized in the table below. The injection pathway system consisted of nine 2-inch PVC permanent injection wells installed at varying spacing across the ICM Area due to site constraints (e.g., numerous underground utilities). The vertical treatment interval was an approximately 1 to 4 foot thick interval ranging from approximately 13 to17 feet bgs, targeting the saturated zone and groundwater aquifer intervals. The amount of reagent added during each of the four injection events is summarized in the table below.

For reagent injection, a site-engineered injection apparatus was used to control flow of oxidizer and proprietary ISOTEC catalyst into the subsurface. An alternating cycle of catalyst/persulfate/peroxide was applied at each injection location. After the initial catalyst injections were completed, the sodium persulfate injections were performed at each location followed by injection of stabilized hydrogen peroxide.

Table 3-1: Summary of Injections

Injection Events	Date	Reagent Injected (gallons)	Reagent Injections
Event I	August 26 – 30, 2013	2,600	900 gallons of ISOTEC catalyst 900 gallons of 12% sodium persulfate 800 gallons of 10% hydrogen peroxide
Event II	October 28 – November 1, 2013	2,850	900 gallons of ISOTEC catalyst 900 gallons of 12% sodium persulfate 1,050 gallons of 10% hydrogen peroxide
Event III	July 11 – 14, 2016	2,850	900 gallons of ISOTEC catalyst 900 gallons of 12% sodium persulfate 1,050 gallons of 10% hydrogen peroxide
Event IV	August 22 – 25, 2016	2,850	900 gallons of ISOTEC catalyst 900 gallons of 12% sodium persulfate 1,050 gallons of 10% hydrogen peroxide

Field monitoring data was collected during the ISCO treatment program to verify the injection radial effects. Woodard & Curran collected groundwater samples prior to implementation of the ICM treatment program, during, and following the completion of each injection event to evaluate the treatment effectiveness. All samples were submitted to a New York certified analytical laboratory for VOC and chloride analysis. Groundwater monitoring results were provided to NYSDEC in ISOTEC's ISCO ICM 2013 and 2016 Treatment Program Reports (ISOTEC, 2014; ISOTEC, 2017).

3.3 Soil Vapor Intrusion Investigation and Mitigation Program

3.3.1 Onsite Activities

A vapor intrusion investigation at the Main Plant was conducted in August 2007 in accordance with the Supplemental SAP dated June 29, 2007 to determine the presence/absence of VOCs in soil vapor. Based on the results of the initial sampling, the following addendums to the Supplemental SAP were prepared and submitted to the NYSDEC/NYSDOH as follows:

- Supplemental SAP Addendum No. 1 (dated September 27, 2007) for additional onsite and offsite soil vapor sampling and analysis to confirm and expand upon the initial soil vapor sampling event, work for which was completed in October 2007; and
- Supplemental SAP Addendum No. 2 (dated September 2, 2008) for initial onsite sub-slab soil vapor sampling at the Main Plant, additional onsite and offsite groundwater monitoring well installations, groundwater and storm sewer sampling, and additional potentiometric monitoring and hydraulic conductivity testing.

Following the October 2007 initial soil vapor sampling, initial sub-slab vapor sampling at the Main Plant was completed in December 2008 and a second sub-slab soil vapor sampling event was conducted at the Main Plant in August 2009 in accordance with the Supplemental SAP Addenda.

Following the Supplemental SAP work, a Vapor Intrusion Investigation Work Plan (November 3, 2009) for the Main Plant was subsequently submitted to NYSDEC and NYSDOH to evaluate the potential for vapor intrusion into onsite indoor air. This investigation work was completed in November 2009 and the results were presented in the June 2010 SAR. A summary of the Main Plant vapor intrusion investigations is summarized below:

- Several VOCs (primarily TCE and carbon tetrachloride) were detected at concentrations above one or more NYSDOH screening levels for sub-slab soil vapor, primarily located in the eastern portion of the facility.
- In general, low to non-detect concentrations of VOCs were found in indoor air samples. Carbon tetrachloride was detected above the most stringent NYSDOH indoor air screening levels; however, outdoor air samples contained similar concentrations of carbon tetrachloride indicating a potential background (i.e., ambient air) contribution.
- Methylene chloride was also detected at concentrations above the NYSDOH air guideline value at two locations where active use of methylene chloride was observed.
- No concentrations of VOCs detected in indoor air in the Main Plant were above OSHA Permissible Exposure Limits (PELs) for site workers.

A vapor intrusion investigation of the ChemD Plant was not conducted at the time of the Main Plant investigation due to the unknown operational status of the facility; however, a vapor intrusion investigation work plan was subsequently developed as requested by the NYSDEC/NYSDOH and submitted to NYSDEC/NYSDOH on October 15, 2010. Investigation activities were conducted from January through March 2011 and included the collection of concurrent sub-slab vapor and indoor air samples, in addition to a background outdoor air sample. A Vapor Intrusion Investigation Report for the ChemD Plant dated September 23, 2011 documented the results of these investigation activities which are summarized below:

- TCE and carbon tetrachloride were detected at concentrations above the most stringent NYSDOH screening levels for sub-slab soil vapor, primarily located in the southern and eastern portions of the ChemD Plant.
- In general, low to non-detect concentrations of VOCs were found in indoor air samples. Only carbon tetrachloride was detected above the most stringent NYSDOH indoor air screening level; however,

outdoor air samples contained similar concentrations of carbon tetrachloride indicating a potential background contribution.

- No concentrations of VOCs detected in indoor air were above OSHA PELs for site workers.

Given the use at the time of the Site as an industrial pharmaceutical research and development facility and the results of the vapor intrusion investigation, no additional vapor intrusion investigation activities were proposed at the time. The Site has since transitioned from a large manufacturing facility to a mostly open lot with three original buildings remaining. A management plan for any future potential vapor intrusion concerns related to future building construction will be incorporated into the Site Management Plan (SMP).

3.3.2 Offsite Activities

As requested by the NYSDEC/NYSDOH in a letter to Wyeth dated January 23, 2008, a Vapor Intrusion Investigation Work Plan dated February 8, 2008 was prepared to evaluate the potential for vapor intrusion into indoor air at several offsite locations including residential properties to the east and southeast and the Rouses Point Elementary School. Sampling at the school included the collection of eight indoor air samples from within classrooms and other areas of the school, three sub-slab vapor samples, and one outdoor air sample. One water sample was also collected from a basement sump. The results of the March 2008 sampling at the school indicated that no further sampling or additional action was necessary at the time.

Sampling also included the collection of sub-slab soil vapor samples, indoor air samples, and outdoor air samples at offsite residential properties in April 2008. The April 2008 vapor intrusion investigation area consisted of 22 occupied properties, of which 15 property owners agreed to participate in the sampling program (see **Table 3-2**).

Based on the results of the April 2008 sampling event and at the direction of the NYSDEC/NYSDOH, measures to mitigate the potential for exposure via soil vapor intrusion were initiated. In accordance with a letter dated August 12, 2008 to NYSDEC regarding "Proposed Residential Mitigation Activities", Wyeth offered to install soil vapor mitigation systems in the form of sub-slab depressurization systems (SSDSs) at 23 properties[5] and to monitor the effectiveness of these systems. Following a public meeting and issuance of access request letters to the 23 property owners, 19 property owners initially agreed to participate in the mitigation program with installation activities occurring at these properties in 2008 and 2009.

In September 2008, additional soil vapor intrusion sampling and analysis activities were conducted in accordance with the Agency-approved Vapor Intrusion Investigation Work Plan Addendum No. 1, dated August 19, 2008, to evaluate select properties located in an expanded study area. As a result of these activities, an additional nine offsite property owners were offered SSDS installations in December 2008 in accordance with the Agency-approved Vapor Intrusion Investigation Work Plan Addendum No. 2, dated December 10, 2008, with installation activities occurring at seven of these properties in 2009.

Further soil vapor intrusion sampling and analysis activities were conducted in cooperation with the Agencies from February through July 2009 at various offsite properties in accordance with the Agency-approved Vapor Intrusion Investigation Work Plan Addendum No. 2, dated December 10, 2008, and Vapor Intrusion Investigation Work Plan Addendum No. 3, dated May 20, 2009. As a result of these activities, an additional eight offsite property owners were offered SSDS installations in October 2009 in accordance with

[5] This included the 22 properties in the initial investigation area and BLDG 39.

a letter dated September 24, 2009, to NYSDEC regarding "Proposed Mitigation Activities". Of these eight additional offers, six were accepted by property owners in 2009.

As a result of the annual re-offer letters issued to property owners in accordance with the OM&M Plan, SSDSs were installed at five additional properties between August 2010 and September 2018. A total of 37 properties had SSDSs installed (see **Table 3-2**).

Additional sampling at the school was conducted by NYSDOH on August 19, 2014 to further evaluate whether actions were needed to address potential vapor intrusion. Carbon tetrachloride was detected at very low concentrations in the school's basement and did not represent a health concern. Carbon tetrachloride was also detected in ambient outdoor air. Other Site-related compounds were not detected in indoor air at the school.

In April 2019, at the request of NYSDEC and NYSDOH, Wyeth prepared and submitted the 2019 Vapor Intrusion Investigation Work Plan for expanding vapor intrusion investigation (VII) work to the north and south of the Site. In addition to the properties to the north and south of the site, in order to evaluate current conditions in the existing mitigation area, the Work Plan included VII sampling at residences to the east of the Site with existing SSDSs and VII sampling at one additional residence east of the Site for which an Access Agreement was received in January 2019 for first-time access to the Property (BLDG60). The work plan was conditionally approved by NYSDEC and NYSDOH in September 2019 with a minor modification to sample collection.

In accordance with the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York and updated with the Soil Vapor/Indoor Air matrices (NYSDOH Guidance), active field work was performed during the winter heating season between November 2019 and January 2020. Offers for participation in the 2019/2020 investigation to the north and south of the Site were sent to 26 residences (BLDGs 61 through 85), 18 to the north and eight to the south. Of the 26 offers, a total of 18 residences, 11 to the north and seven to the south of the site, were sampled, based on the finalized receipt of Access Agreements (see **Table 3-2**). The results of the VII sampling for properties north and south of the Site are summarized in the June 2020 Vapor Intrusion Investigation Sampling and Analysis Report. Based on a review of the results, it was determined that no further action is required at any of the residential properties located to the north and south of the Site.

Offers for participation in the 2019/2020 investigation were also sent to properties to the east of the Site including the 37 residences with existing SSDSs and one new property (BLDG 60). Of the 38 offers, a total of 17 residences were sampled, based on the finalized receipt of Access Agreements. The results of the VII sampling for properties east of the Site are summarized in the 2018-2019 Off-Site Soil Vapor Mitigation System Operation, Maintenance, and Monitoring (OM&M) Report, dated June 2020.

Analytical data for all of the results, in addition to visual and written summaries of the results, were submitted to NYSDEC and NYSDOH for review and approval. NYSDEC and NYSDOH performed independent review of the results and, on May 26, 2020, conditionally approved the data summaries and results letters to be released to the homeowners. The conditional approval included a minor modification to the letters to describe instances where sub-slab vapor samples were unable to be collected due to a high water table.

Based on a combination of the sub-slab and indoor air results as well as geographic location, four properties (BLDG 12, BLDG 43, BLDG 44, and BLDG 54) were identified as no longer requiring an SSDS as either a

requirement or precautionary measure and, therefore, added to the list of "No Further Action" properties, in consultation with NYSDEC and NYSDOH. In September 2021 with concurrence of the respective homeowners, two offsite soil vapor mitigation systems at BLDGs 43 and 54 were deenergized and removed. Removal activities were performed in accordance with the OM&M Plan and discussed in the 2020-2021 OM&M Report, dated February 2022, revised October 2024. The property owners for BLDG12 and BLDG44 selected to keep their systems in operation following Pfizer's offer to remove them, and therefore responsibility of maintenance and electrical costs have transferred to the owner.

A summary of properties containing mitigation systems, including properties where no further action has been achieved in consultation with the NYSDEC/NYSDOH, is presented in **Table 3-1**. The mitigation systems are managed according to the NYSDEC/NYSDOH approved OM&M Plan dated May 2009 (revised July 1, 2009 and March 15, 2010).

4. DESCRIPTION OF CURRENT CONDITIONS

4.1 Groundwater Flow Model

A groundwater model was completed as part of the CMS for the Site. The groundwater model report is provided in **Appendix A**. The primary objectives of the groundwater modeling effort for the Site were to:

- Develop insights into the flow of water through the complex geologic setting at the Site;
- Understand the interaction of groundwater and surface water at the Site;
- Use particle tracking to determine travel paths at various locations throughout the site and to evaluate the adequacy of the monitoring network;
- Evaluate the effectiveness of the current monitoring well network; and
- Use the results of the model to aid in evaluation of potential remedial alternatives.

The model was calibrated to steady state conditions and verified by a second independent set of data for heads measured at the Site. A summary of the conclusions of the model report provided in **Appendix A** is presented below:

- Calibration statistics met the criteria for calibration and the modeled flow fields closely resembled observed flow conditions.
- Particle tracking was completed to determine travel paths at various locations throughout the Site and to evaluate the adequacy of the monitoring network. The particle tracking results indicate a correlation between particle paths starting from well locations and groundwater contour maps developed from seasonal potentiometric monitoring.
- The monitoring well network appears to be adequate to evaluate the groundwater conditions on and downgradient from the facility.

The modeling results were used to aid in the evaluation of potential remedial alternatives during the CMS.

4.2 Screening Level Ecological Risk Assessment

A Fish and Wildlife Resources Impact Analysis (FWRIA) Part 1: Risk Characterization (DER 10 Section 3.10.1) was conducted in accordance with the CMS Work Plan and included the evaluation of site natural resources, potential contaminant migration pathways, contaminants of ecological concern, and the resulting potential for adverse impacts to fish and wildlife resources. Based on this assessment, the concentrations of constituents detected in the downgradient wells are not expected to present a potential for adverse effects to the aquatic resources of Lake Champlain. Constituents detected in the easternmost downgradient wells have low bioaccumulation potential and the maximum concentrations of all detected constituents were well below ecological benchmark values. The FWRIA report is provided as **Appendix D**.

4.3 Constituents of Concern

4.3.1 Groundwater and Surface Water COCs

The COCs in groundwater and surface water are VOCs associated with historical Site uses. COCs were identified based on detections above Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations as presented below.

Table 4-1: Constituents of Concern for Groundwater and Surface Water

Constituent of Concern	NYSDEC Groundwater Standard/Guidance Criteria (in µg/L)	Number of Wells with Detections Above Applicable Criteria	2022 Highest Concentration in Groundwater (in µg/L)
Volatile Organic Compounds			
Benzene	1	1	1.3
Carbon tetrachloride	5	3	3200
Chloroform	7	2	570
1,2-Dichloroethane (1,2-DCA)	0.6	9	840
cis-1,2-Dichloroethene	5	8	9700
Methyl-tert-butyl ether (MTBE)[1]	10	1 (in 2019)	24 (in 2019)
trans-1,2-Dichloroethene	5	2	8.7
Trichloroethene (TCE)	5	5	41,000
Vinyl chloride	2	2	17

Note:
1. MTBE was not detected above applicable criteria for wells sampled in 2022, however, it was included as a COC because it was detected at a concentration of 24 µg/L in MW-12 in 2019. MW-12 was last sampled in 2019.

4.3.2 Soil COCs

The COCs in soil are VOCs and PCBs associated with historical Site uses. The NYSDEC SCOs were used as a screening tool to identify soil COCs at the Site. Inclusion of a SCO on **Table 4-2** is not an indication of a proposed media cleanup standard. Media cleanup standards for soil are discussed in **Section 5.2.2**.

Total chromium concentrations in soil were detected above the Unrestricted SCO for hexavalent chromium across the Site. It is unlikely that these detections are due to Site-related releases given their ubiquitous distribution and relatively consistent range of concentrations. Based on this conclusion, the reported concentrations of total chromium are likely attributable to trivalent chromium background concentrations and hexavalent chromium was not included as a soil COC. Additional rationale to support this conclusion was provided to NYSDEC in a letter dated December 20, 2022, included as **Appendix E**.

Table 4-2: Constituents of Concern for Soil

Constituents of Concern	NYSDEC Unrestricted Use	NYSDEC Protection of Groundwater (in mg/kg)	NYSDEC Restricted Use – Residential (in mg/kg)	NYSDEC Restricted Use – Commercial (in mg/kg)	Highest Reported Concentration in Soil (in mg/kg)
Volatile Organic Compounds					
Acetone	0.05	0.05	100	500	1.1
Benzene	0.06	0.06	2.9	44	0.48
1,1-dichloroethene	0.33	0.33	100	500	2
1,2-dichloroethane (1,2_DCA)	0.02	0.02	2.3	30	50
cis-1,2-dichloroethene	0.25	0.25	59	500	87
trans-1,2-dichloroethene	0.19	0.19	100	500	6.4
Methylene chloride	0.05	0.05	51	500	1.4
Methyl-tert-butyl ether (MTBE)	0.93	0.93	62	500	6.2
Tetrachloroethene	1.3	1.3	5.5	150	1.9
Toluene	0.7	0.7	100	500	34
Trichloroethene (TCE)	0.47	0.47	10	200	660
Vinyl chloride	0.02	0.02	0.21	13	0.16
Polychlorinated biphenyls (PCBs)					
Polychlorinated biphenyls (PCBs)	0.1	3.2	1	1	1.4

4.4 Nature and Extent of Constituents of Concern

Numerous soil, soil vapor, and groundwater samples have been collected across the Site and from offsite locations which provide an understanding and supports development of the Conceptual Site Model (CSM) as to the location and distribution of the COCs in environmental media as previously reported in the documents referenced in **Section 10**.

4.4.1 Summary of Soil Conditions

Several areas containing impacted soil have been addressed through the implementation of approved ICM programs (see **Section 3.2**) involving soil excavation, confirmation sampling, and groundwater monitoring. Using Unrestricted SCOs as a screening tool there are eight isolated areas on the site with concentrations above the Unrestricted SCOs. With the exception of SWMU-7D, the residual impacted soil is limited and isolated.

The results of the supplementation investigations of the SWMU-7D were presented in the Supplemental Main Plant SAR and discussed in **Section 3.1.7**. Reported analytical results indicated concentrations of

chlorinated VOCs in soil above Protection of Groundwater, Unrestricted Use and Restricted Use SCOs. Soil results for SWMU-7D are provided in **Table 4-3** and shown on **Figure 4-1**.

Other soil detections above Unrestricted Use SCOs are summarized in **Table 4-4** below. Excerpts from previous documents showing the sample locations are presented in **Appendix F**.

Table 4-4: Detections of Soil COCs Above Unrestricted SCOs

SWMU	Sample ID	Sample Depth	Compound	Concentration (mg/kg)
SWMU-5	BLDG17C-SS-PAD-03	1.0 - 1.5 ft bgs	Acetone	0.068
SWMU-6	TFARM-SS-PAD-02	1.0-1.5 ft bgs	Acetone	0.054
SWMU-7A	WMU7-SS-ICM-CB02-02	9 ft bgs	Acetone	0.11
	SWMU7-SS-ICM-CS01-03	7 ft bgs	Acetone	0.095
	SWMU7-SS-ICM-CB04-05	13 ft bgs	Acetone	1.1
			Methylene chloride	0.61
			Toluene	34
	SWMU7-SS-ICM-CB12-15	10 ft bgs	Acetone	0.088
	SWMU7-SS-ICM-CB38-41	6 ft bgs	Methylene chloride	0.065
	SWMU7-SS-ICM-CB39-42	6 ft bgs	Acetone	0.072
SWMU-7B	SWMU7-SS-BLDG23-24	4.0 ft bgs	1,1-Dichloroethene	2
SWMU-10	SWMU10-SS-ICM-CB01-05	11 ft bgs	Benzene	0.46
			MTBE	6.2
	SWMU10-SS-ICM-CS02-02	10 ft bgs	Benzene	0.071
	SWMU10-SS-ICM-CS03-03	10 ft bgs	Benzene	0.48
			MTBE	4.2
	SS-10	0-0.5 ft bgs	Total PCBs	0.32
	SS-12	0-0.5 ft bgs	Total PCBs	1.40
SWMU-12	SWMU12-SS-SB01-27	14-15 ft bgs	Vinyl chloride	0.024
AOC-1	AOC1-SS-SB01-01	0.5-0.75 ft bgs	Aroclor 1260	1.10

4.4.2 Summary of Groundwater Conditions

Routine groundwater monitoring is currently conducted annually at the Site. Results of the most recent groundwater monitoring event were presented in the 2022 Annual Groundwater Monitoring Program (GWMP) Report submitted in October 2023. Impacts are primarily present in two areas:

- Carbon tetrachloride and associated daughter products have been identified offsite in the vicinity of the intersection of Maple Street and Academy Street immediately southeast of the Site. The

source and release mechanism for this area is not known, however, it is suspected to be associated with former sewer systems and/or preferential pathways along utility corridors.

- TCE and associated daughter products as well as 1,2-DCA have been identified onsite primarily in SWMU-7D. The release mechanism is believed to be associated with a historical process piping and subsequent shallow migration under former Buildings 18 and 27.

Historical concentrations of VOCs in groundwater from 2006 to 2019 are summarized in **Table 4-5** and more recent data from 2020 to 2022 (COCs only) are summarized in **Table 4-6**. Shallow till concentrations are generally discontinuous in wells across the Site and tend to exhibit lower concentrations than deep till. The shallow till unit is not a significant vector for transport of groundwater impacts due to its limited horizontal transmissivity.

The highest concentrations of TCE, cis-1,2-dichloroethene, and 1,2-DCA in groundwater are in the deep till in SWMU-7D (**Figures 4-2** through **4-4**). There are some isolated exceedances of TCE (MW-37 and MW-8) and cis-1,2-dichloroethene (MW-8) along Maple and Academy Streets. Trans-1,2-dichloroethene and vinyl chloride exceedances are limited to two wells (MW-5 and MW-33) which are wells are downgradient of SWMU-7D, within the cis-1,2-dichloroethene plume, and are likely associated with reductive dechlorination.

The highest concentrations of carbon tetrachloride and chloroform were identified in offsite deep till monitoring wells at the intersection of Maple and Academy streets (**Figure 4-5**). Trend analysis of carbon tetrachloride concentrations show that the plume has remained stable and has not migrated farther downgradient.

Benzene and MTBE exceedances are isolated and localized to one well each, MW-33 and MW-12 respectively. Neither compound is detected at downgradient wells.

4.4.3 Summary of Soil Vapor Conditions

Multiple VOCs were detected in sub-slab vapor samples collected from three sampling events at the Main Plant from December 2008 to November 2009 and at the ChemD Plant from January to Mach 2011. Several constituents (primarily TCE and carbon tetrachloride) were detected at concentrations above one or more NYSDOH screening levels for sub-slab vapor, primarily located in the eastern portion of the Main Plant facility and in the southern and eastern portions of the ChemD Plant. In general, low to non-detect concentrations of VOCs were found in indoor air samples. These samples were collected concurrently with collocated sub-slab vapor samples, which contained higher concentrations of VOCs. Based on the results of these investigations, no further investigation was proposed at the time regarding soil vapor intrusion at the Main Plant or at the ChemD Plant. The Site has since transitioned from a large manufacturing facility to a mostly open lot with three original buildings remaining, with the ChemD Plant demolished in 2015 and most of the Main Plant buildings demolished in 2019.

Several vapor intrusion investigation activities including sub-slab soil vapor sampling, indoor air sampling, and outdoor air sampling were conducted at offsite properties, including the Rouses Point Elementary School, in order to evaluate the potential for vapor intrusion into indoor air at offsite locations. These investigations primarily focused on residential properties to the east and southeast of the Site, though the 2019 to 2020 investigation also included properties to the north and south of the Site.

Based on the results of these investigation activities, measures to address sub-slab soil vapor were initiated at several offsite properties consisting of the installation of soil vapor mitigation systems in the form of SSDSs (**Table 3-1**). The mitigation systems are managed according to the NYSDEC/NYSDOH approved OM&M Plan dated May 2009 (revised July 1, 2009 and March 15, 2010).

4.5 Emerging Contaminants

Perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), and 1,4-dioxane are emerging contaminants. 1,4-Dioxane is a compound that has historically been used as a solvent stabilizer primarily for 1,1,1-trichloroethane and has been found in trace amounts in some cosmetics, shampoos, detergents, and cleaning products. Per- and polyfluoroalkyl substances (PFAS) are a group of chemicals, which includes PFOA and PFOS, used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water.

In February 2023 ambient water quality guidance values for PFOA, PFOS, and 1,4-dioxane were established through an update to TOGS 1.1.1 which are shown on **Table 4-7** below.

Table 4-7: NYSDEC Guidance Values for Emerging Contaminants

Substance (CAS No.)	Guidance Value (µg/L)
1,4-Dioxane (123-91-1)	0.35
Perfluorooctane Sulfonic Acid (PFOS) (1763-23-1)	0.0027
Perfluorooctanoic acid (PFOA) (335-67-1)	0.0067

4.5.1 1,4-Dioxane

There is no Site history specifically indicating 1,4-dioxane as a COC. 1,1,1-Trichloroethane, a common co-contaminant to 1,4-dioxane has not been detected at the Site above laboratory reporting limits.

1,4-Dioxane was analyzed in soil and groundwater samples as part of the VOC analysis and was not detected at concentrations above the reporting limits. In some cases, reporting limits were elevated because of other detected compounds.

4.5.2 PFAS

In August 2018, groundwater samples were collected from 17 monitoring wells in accordance with the PFAS Sampling and Analysis Plan (PFAS SAP) dated June 18, 2018 and approval by NYSDEC on August 6, 2018 with the requested modification that sampling activities include an additional well, MW-12. The results were presented in the PFAS Sampling and Analysis Report (PFAS SAR) dated December 20, 2018.

PFAS concentration were the highest at MW-30 (59.1 ng/L PFOA+PFOS) and decreased to the east. SWMU-16 and SWMU-10 were used as firefighting training areas where PFAS containing aqueous film forming

foam (AFFF) may have been used. The extent of PFAS in groundwater is not fully delineated and has been identified as a data gap.

4.6 Migration Pathways and Potential Receptors

The lower till unit appears to be the primary stratigraphic unit for potential COCs migration in groundwater. The variable nature of the fill at the Site may provide areas of enhanced vertical and horizontal groundwater movement depending on the materials used for fill. Areas of deeper excavation for installation of linear utility corridors (i.e., sanitary and storm water sewers) may also provide preferential pathways for groundwater and soil vapor COCs movement.

Groundwater at the Site and offsite locations to the east-southeast of the Site has been impacted by VOCs. The facility and offsite property owners are not currently using the groundwater for drinking water or non-potable water. The groundwater at the Site and in the vicinity of Rouses Point is not a principal or primary aquifer as defined by the NYSDEC and the aquifer is non-productive and therefore is not used for human consumption. The Village of Rouses Point provides water to the Site and to offsite properties obtained from Lake Champlain. No public or private drinking water wells are known to be in Rouses Point or within 1-mile of the Site.

In general, low to non-detect concentrations of VOCs were found in indoor air samples at the Site, and soil vapor intrusion has not been found to be a major contributor to indoor air quality at the Site. Only carbon tetrachloride was detected above the most stringent NYSDOH indoor air screening level; however, outdoor air samples contained similar concentrations of carbon tetrachloride indicating a potential background contribution. Methylene chloride was also detected at concentrations above the NYSDOH air guideline value at two locations where active use of methylene chloride was observed. If new buildings are to be built at the Site, vapor intrusion will be evaluated.

To date, soil vapor mitigation systems have been installed at 37 offsite properties to the east-southeast of the Site to prevent possible future migration of sub-slab vapor containing VOCs into indoor air. Based on the results of the VII sampling summarized in the 2018-2019 Off-Site Soil Vapor Mitigation System OM&M Report and as discussed in Section 3.3.2, four properties were identified as no longer requiring an SSDS as either a requirement or precautionary measure and, therefore, added to the list of "No Further Action" properties. In September 2021 at the request of the respective homeowners, two of these four offsite soil vapor mitigation systems were deenergized and removed. The remaining two systems are still in operation but the responsibility for maintenance is with the property owner. Systems at the remaining 33 properties will be maintained and monitored in accordance with previously-approved work plans (see **Section 10**) until such time it is determined that they are no longer required.

The screening level ecological risk assessment in the form of a Fish & Wildlife Resource Impact Analysis was conducted and the results are summarized in **Appendix D**. Based on this assessment, the concentrations of constituents detected in the downgradient wells are not expected to present a potential for adverse effects to the aquatic resources of Lake Champlain. Constituents detected in the easternmost downgradient wells have low bioaccumulation potential and the maximum concentrations of all detected constituents were well below ecological benchmark values.

For surface soils, there are limited complete pathways remaining at the Site, as surface soil reported as containing COCs above media cleanup standards proposed for the site was removed as part of previous

remedial action activities, then replaced with clean fill to further mitigate the potential for exposure. Detections of PCBs above the soil cleanup standards in surface soil were present in one sample in SWMU-10 and one sample in AOC-1. Both of these concentrations are below the Industrial Use SCO of 25 mg/kg.

For the subsurface soil, COCs are still reported as detected onsite as of 2024. A potential pathway exists for future construction workers to come into contact with subsurface soil containing COCs in SWMU-7D. Other previously identified onsite areas with soil COCs have been addressed through the ICMs summarized in **Section 3.2**.

5. CORRECTIVE ACTION OBJECTIVES AND MEDIA CLEANUP CRITERIA

The CMS process requires the development of cleanup objectives and media cleanup criteria for impacted media.

5.1 Corrective Action Objectives

This section presents the corrective action objectives for the Site for each impacted media. Specific numerical media cleanup standards are presented in **Section 5.2**.

Groundwater

- Prevent direct contact with or ingestion of groundwater with Site-related COC levels above drinking water standards for potable water[6].
- Prevent inhalation of volatile COCs from impacted groundwater to occupied buildings.
- Prevent the discharge of groundwater impacted by Site-related COCs to surface water.

Soil

- Prevent ingestion/direct contact with Site-related COCs in soil.
- Prevent inhalation exposure from potential volatilization of Site-related COCs in soil.
- Remove/reduce potential source(s) of groundwater or surface water impact to allow natural attenuation and the assimilative capacity of the aquifer to further reduce residual concentrations of Site-related COCs in groundwater.

Soil Vapor, Sub-Slab Vapor, and Indoor Air

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings through the use of engineering controls (e.g., sub-slab depressurization systems, vapor barriers).

5.2 Media Cleanup Standards

5.2.1 Groundwater and Surface Water Cleanup Standards

The proposed media cleanup standards protective of drinking water for groundwater and surface water are from TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. The value for each COC is presented in **Table 5-1**. There are no numerical groundwater standards for the protection of vapor intrusion therefore see **Section 5.2.3** to evaluate media cleanup standards.

[6] Although groundwater is classified as GA, the aquifer is non-productive and therefore is not used for human consumption. The only potentially potable water is surface water - Lake Champlain/Richelieu River.

Table 5-1: Groundwater Cleanup Standards for Constituents of Concern

Constituent of Concern	NYSDEC Groundwater Standard/Guidance Criteria (in µg/L)
Volatile Organic Compounds	
Benzene	1
Carbon tetrachloride	5
Chloroform	7
1,2-dichloroethane (1,2-DCA)	0.6
cis-1,2-dichloroethene	5
Methyl-tert-butyl ether (MTBE)	10
trans-1,2-dichloroethene	5
Trichloroethene (TCE)	5
Vinyl chloride	2

5.2.2 Soil Cleanup Standards

NYSDEC provides default numerical SCOs in "Subpart 375-6: Remedial Program Soil Cleanup Objectives". Where NYSDEC determines that achieving unrestricted SCOs is not feasible, the remedial party may evaluate alternatives to remediate the site to the greatest extent feasible. When considering restricted use soil cleanup levels, the remedial party should apply the least restrictive use category feasible. Feasible is defined as suitable to site conditions, capable of being successfully carried out with available technology, implementable, and cost effective [see 6 NYCRR 375-1.2(s)].

To evaluate the economic feasibility of achieving the different SCOs, cost estimates for excavation and in situ chemical reduction were developed for unrestricted and restricted SCOs for SWMU-7D. As a conservative measure, based on discussions between NYSDEC and Wyeth, a cost estimate was prepared to correspond to treat an area that exceeds 50 percent of the Commercial SCOs (i.e., area represented by detected concentrations in soil greater than 100,000 µg/kg for TCE or 15,000 µg/kg for 1,2-DCA). The treatment areas for each scenario are presented on **Figure 5-1**. A summary of the costs is presented in **Table 5-2**. Additional cost information and assumptions are provided in **Appendix G**.

Table 5-2: Cost Comparison for Unrestricted and Restricted Soil Cleanup Objectives

Soil Cleanup Objective	Approximate Treatment Area (sq feet)	Estimated Cost Range for Excavation and Disposal	Estimated Cost Range for In Situ Treatment
NYSDEC Unrestricted Use	17,000	$6,900,000 to $14,600,000	$2,970,000 to $6,350,000
NYSDEC Restricted Use – Residential	10,400	$5,200,000 to $11,000,000	$1,730,000 to $3,710,000
NYSDEC Restricted Use – Restricted Residential	10,400	$5,200,000 to $11,000,000	$1,730,000 to $3,710,000
50 percent of NYSDEC Restricted Use – Commercial	3,300	$2,000,000 to $4,300,000	$840,000 to $1,800,000
NYSDEC Restricted Use – Commercial	1,800	$1,400,000 to $3,000,000	$630,000 to $1,340,000
NYSDEC Restricted Use – Industrial	300	$900,000 to $1,900,000	$310,000 to $660,000

The technical feasibility is also important to evaluate. The most reliable technology to achieve Unrestricted Use or Restricted Use – Residential is excavation and offsite disposal. It may not be feasible to achieve the unrestricted or lower restricted SCOs using a single in situ remediation technology. To achieve these lower standards, multiple technologies or multiple rounds of implementation may be required.

Based on the economic and technical feasibility assessment, the proposed cleanup standards for soil are NYSDEC Restricted Use – Commercial SCOs as presented in **Table 5-3** below. The final treatment area would be determined during remedial design and would conservatively correspond to the 3,300 square feet to further reduce TCE and 1,2-DCA mass.

Table 5-3: Soil Cleanup Standards for Constituents of Concern

Constituents of Concern	NYSDEC Restricted Use – Commercial (in mg/kg)
Volatile Organic Compounds	
Acetone	500
Benzene	44
1,1-dichloroethene	500
1,2-dichloroethane (1,2-DCA)	30
cis-1,2-dichloroethene	500
trans-1,2-dichloroethene	500
Methylene chloride	500
Methyl-tert-butyl ether (MTBE)	500
Tetrachloroethene (PCE)	150
Toluene	500
Trichloroethene (TCE)	200
Vinyl chloride	13
Polychlorinated biphenyls (PCBs)	
Polychlorinated biphenyls (PCBs)	1

The use of the NYSDEC Restricted Use – Commercial SCOs is consistent with the objectives of the CMS because:

- Soils above Unrestricted SCOs are located beneath former building slabs and do not pose a hazard to human health as long as the slab remains in integral quality and in place. Should other buildings be constructed in this area, soil vapor sampling and/or engineering controls (e.g., sub-slab depressurization systems, vapor barriers) will be used to control risk.
- The former facility property is zoned I-2, Industrial. An Environmental Easement limiting the Site to commercial use would be consistent with and protective of this zoning and is included in each corrective measure alternative.

5.2.3 Soil Vapor, Sub-Slab Vapor, and Indoor Air

Soil vapor, sub-slab soil vapor, and indoor air sampling results are reviewed in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006), with updates. Actions to address potential exposures associated with soil vapor intrusion are based on multiple lines-of-evidence, including but not limited to NYSDOH air guideline values, Soil Vapor/Indoor Air Decision Matrices, and potential exposure pathways.

5.3 Points of Compliance

The point of compliance is the location at which the media cleanup standards should be achieved to be protective of potential receptors. The point of compliance is based on the corrective action objectives as well as migration pathways and receptors. The point of compliance for each media is described below.

Groundwater

Because the only complete pathway for drinking water is from groundwater to surface water, the point of compliance to reach concentrations protective of drinking water (**Table 5-1**) is upgradient of Lake Champlain/Richelieu River. Specifically, the point of compliance includes the following monitoring well locations: MW-16S, MW-16, MW-22S, MW-22, MW-17S, MW-17, MW-39S, MW-39.

Soil

The point of compliance for achieving soil cleanup standards is throughout the Site.

Soil Vapor, Sub-Slab Vapor, and Indoor Air

The point of compliance for soil vapor, sub-slab vapor, and indoor air is at occupied buildings located above impacted groundwater plumes (both onsite and offsite).

6. IDENTIFICATION, SCREENING, AND DEVELOPMENT OF CORRECTIVE MEASURE ALTERNATIVES

The technologies that were evaluated in the CMS program at the Site were selected based on information collected during the site investigations and in consideration of anticipated cleanup standards.

The CMS program herein was intended to implement a program for all remediation areas of the Site that present actual or imminent human and environmental exposures due to releases that may have previously occurred by:

- Evaluating the potential for migration of released COCs;
- Collecting information necessary to determine if remediation is warranted; and
- Ensuring that adequate information is obtained to design and implement an environmentally beneficial corrective measure.

6.1 Identification and Screening of Remedial Technologies

Applicable technologies were identified and screened for remediation of soil and groundwater in the subsurface at the Site. The applicability of each technology was evaluated by screening criteria as detailed below:

- **Implementability**. The implementability evaluation encompasses technical and administrative feasibility of implementing each technology process option.
- **Effectiveness**. This evaluation focuses on the anticipated effectiveness of each of the technology process options in addressing the estimated areas and/or volume of media in regard to; achieving remediation goals; potential impacts to human health and the environment during the construction and implementation; and how proven the process is with respect to COCs and site-specific conditions.
- **Cost**. Cost plays a role in the screening of process options. Relative capital and operation and maintenance (O&M) costs are used rather than detailed estimates. The cost analysis is based on engineering judgment, and each process is evaluated as to whether costs are high, medium, or low relative to the other process options.

The screening evaluation of the remedial technologies for the soil and groundwater are presented on **Tables 6-1** and **6-2**, respectively. Technologies that were retained from this evaluation were developed into Alternatives as described in **Section 6.3**.

SSDSs were implemented for offsite soil vapor mitigation as described in **Section 3.3.2**. The potential for impacted soil vapor to intrude into the indoor air of onsite buildings will be evaluated if new buildings are constructed on the Site. Alternately, as a proactive measure, sub-slab depressurization systems may be installed on newly constructed buildings. This requirement will be included in the Environmental Easement of the site. No additional evaluation of soil vapor technologies was evaluated in this CMS.

6.2 Development of Alternatives

Technologies that were retained from the corrective measure alternatives screening evaluation (**Tables 6-1** and **6-2**) were developed into alternatives for further evaluation (**Section 7**). The components of the remediation alternatives developed for soil and groundwater are summarized below.

6.2.1 Soil Corrective Measure Alternatives

Soil corrective measure alternatives were developed for SWMU-7D. For the purposes of this CMS and evaluating alternatives, conceptual designs were developed based on areas of soil exceeding the Commercial SCOs for comparison purposes. Final remedial design will be developed in the Corrective Measure Implementation following any additional pre-design investigation.

Alternative S1: Excavation and Offsite Disposal. Excavation would remove areas with soil concentrations above Commercial SCOs, from three areas totaling approximately 1,500 cubic yards. Excavation would extend to approximately 25 feet bgs in two locations and 20 feet bgs in one location. It is assumed that the top 10 feet of soil will be suitable for reuse onsite based on VOC concentrations. Conceptual remediation areas are depicted on **Figure 6-1**.

Implementing this alternative would require:

- Implementing an Environmental Easement limiting the Site to commercial use;
- Removing site obstructions such as concrete slab, existing wells, and buried utilities;
- Installing a sheet pile wall;
- Excavating and stockpiling material from the top 10 feet of remediation areas;
- Dewatering and groundwater treatment and management;
- Excavating and loading soil for disposal;
- Characterizing and stabilizing excavated soils;
- Transporting and disposing of excavated impacted soils at a hazardous waste facility;
- Verification sampling at the base and sidewalls of the excavations; and
- Restoring the Site, including backfill, re-installing monitoring wells, and restoring the concrete slab.

The estimated capital cost for Alternative S1 is $1,990,000. The cost range based on a -30 to +50 percent range of accuracy is $1,400,000 to $3,000,000 (**Appendix G, Table G-3**).

Alternative S2: In Situ Chemical Reduction Injections. In situ chemical reduction (ISCR) would target areas and depth intervals with soil concentrations above Commercial SCOs. The conceptual design assumes 19 injection points over the three areas shown on **Figure 6-2** with target depths ranging from 10 to 24 feet bgs depending on the area.

Implementing this alternative would require:

- Implementing an Environmental Easement limiting the Site to commercial use;
- Submitting an Underground Injection Control (UIC) permit;

- Completing bench or pilot scale testing;
- Completing pre-design investigation;
- Mobilizing, operating, and subsequently demobilizing injection materials and equipment (e.g., injection equipment, direct push drilling equipment, ISCR reagent(s), water);
- Management of generated treatment residuals (e.g., groundwater and ISCR reagents);
- Restoration of concrete slab; and
- Soil verification sampling.

The estimated capital cost for Alternative S2 is $930,000. The cost range based on a -30 to +50 percent of accuracy is $660,000 to $1,400,000 (**Appendix G, Table G-7**).

Alternative S3: Soil Mixing with ISCR. Soil mixing would treat areas with soil concentrations above Commercial SCOs, from three areas totaling approximately 1,800 square feet. It is assumed that the top 10 feet of soil would be excavated and stockpiled on site to enable soil mixing and that this material would be suitable for reuse onsite for backfill. Soil mixing would extend to approximately 25 feet bgs in two locations and 20 feet bgs in one location. Conceptual remediation areas are the same as the excavation areas as shown on **Figure 6-1**.

Implementing this alternative would require:

- Implementing an Environmental Easement limiting the Site to commercial use;
- Removing Site obstructions such as concrete slab, existing wells, and buried utilities;
- Excavating and stockpiling material from the top 10 feet of remediation areas;
- Soil mixing of soil column in target areas with ISCR reagent;
- Restoring the Site, including backfill, re-installing monitoring well, and restoring the concrete slab.

The estimated capital cost for Alternative S3 is $1,300,000. The cost range based on a -30 to +50 percent of accuracy is $910,000 to $1,950,000 (**Appendix G, Table G-10**).

6.2.2 Groundwater Corrective Measure Alternatives

Alternative GW1: Institutional Controls and Monitored Natural Attenuation. This alternative consists of institutional controls and monitored natural attenuation in groundwater. This alternative also includes potential implementation of a waiver based on technical impracticability and assessment of the overall environmental benefit of remediation. This alternative would pose a low environmental impact from remedial processes where no active remediation is needed. A groundwater monitoring plan would be developed to evaluate the continued effectiveness of the natural processes. The cost estimate for this alternative is included in the recommended corrective action (**Section 8.4**).

Alternative GW2: In Situ Chemical Oxidation (ISCO). This alternative would include the introduction of an oxidizing chemical to react with and eliminate VOCs in groundwater. The chemical would be introduced to the subsurface by injection. This alternative has been previously completed onsite as part of an ICM. The chemical mixture for oxidation (oxidant and supporting chemistry) would need to consider overall environmental benefit of constituent removal verses chemical addition to the subsurface. This alternative is

minimally invasive with chemicals applied in situ as a batch, has minimal site and community disturbance, would have minimal energy usage, and would have negligible waste generation, during application only. The cost estimate for this alternative is expected to be more than Alternative GW1.

Alternative GW3: Enhanced Biological Remediation. This alternative would include the introduction of reagents and/or chemical supplements below the water table to enhance natural biological degradation of VOCs in groundwater. The chemicals would be introduced to the subsurface by injection. This alternative would require pilot testing to confirm site-specific applicability. The chemical mixture for bioremediation would need to consider overall environmental benefit of constituent removal verses chemical addition to the subsurface. This alternative is minimally invasive with chemicals applied in-situ as a batch, has minimal site and community disturbance, would have minimal energy usage, and would have negligible waste generation, during application only. The cost estimate for this alternative is expected to be more than Alternative GW1.

7. EVALUATION OF CORRECTIVE MEASURE ALTERNATIVES

Corrective measure alternatives were assessed based on the following evaluation/balancing criteria:

Overall Protection of Human Health and the Environment: This criterion provides a check on adequate protection of human health and the environment. The overall assessment of protection draws on the assessments conducted under other evaluation criteria, especially long-term effectiveness and permanence, short-term impacts and effectiveness, and compliance with Media Cleanup Standards.

Compliance with Media Cleanup Standards: This criterion is used to determine whether an alternative will meet requirements that are applicable, or relevant and appropriate to the Media Cleanup Standards.

Long-Term Effectiveness: This criterion addresses the risk to human health and the environment remaining at the Site after the response objectives have been met. Specific components of this criterion focus on assessing the magnitude of the residual risk, and adequacy and reliability of controls.

Reduction of Toxicity, Mobility, or Volume of Wastes: This criterion addresses the regulatory preference for selecting remedial actions that employ treatment technologies that permanently and significantly reduce toxicity, mobility, or volume of the hazardous substances as their principal element. The analysis examines the magnitude, significance and irreversibility of such reductions achieved by alternatives employing treatment.

Short-Term Effectiveness: This criterion addresses the effects of an alternative during the construction and implementation phase, including protection of the community and workers, potential environmental impacts and mitigative measures, and the overall time frame for achieving remedial response objectives.

Implementability: The implementability criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation. Technical implementability relates to an alternative's constructability and operations, the reliability of the technology, and its flexibility to accommodate phased implementation or modifications based on regular monitoring. Administrative implementability relates to the availability of various services (e.g., equipment, materials, and operation) and of prospective technologies.

Community Acceptance: Community acceptance will be addressed through implementing the Public Participation Plan (submitted under separate cover).

State Acceptance: This criterion evaluates how the corrective measures will be conducted in compliance with all applicable State regulations.

Cost: The purpose of cost is to compare how an alternative's funding impacts the overall "cost effectiveness" of the alternative over time.

Green and Sustainable Remediation: In addition to the nine evaluation/balancing criteria, alternatives were evaluated in terms of Green and Sustainable Remediation (GSR) and broader impacts to the environment. USEPA's core elements for greener cleanup include:

- Minimize total energy use and maximize use of renewable energy
- Minimize air pollutants and greenhouse gas emissions

- Minimize water use and impacts to water resources
- Reduce, reuse, and recycle material and waste
- Protect land and ecosystems

Comparative analysis of the corrective measure alternatives for soil and groundwater are presented in **Tables 7-1 and 7-2** respectively.

8. RECOMMENDED CORRECTIVE MEASURE

Based on the results and evaluations presented in the previous sections, the following recommendations for final corrective measure alternatives are proposed for the Site:

8.1 Soil

The recommended remedial alternative for soil is Alternative S2, ISCR Injections with an expanded treatment footprint to target soil with concentrations that exceed 50 percent of the Commercial SCO (see **Figure 8-1**). This alternative includes an environmental easement. The primary reasons for selecting this approach include:

- Most cost-effective remedial alternative that will still achieve corrective action objectives;
- Enhances natural attenuation processes and reduces overall time to cleanup criteria at the Site; and
- Remedial alternative that most aligns with EPAs Green and Sustainable Remediation goals.

8.2 Groundwater

The recommended remedial alternative for groundwater is Alternative GW1, institutional controls and monitored natural attenuation. The ISCR injections to treat soil in SWMU-7D are expected to create reducing geochemical conditions in the aquifer that will enhance the processes involved with natural attenuation of VOC mass in the groundwater; therefore, monitored natural attenuation was selected as the groundwater alternative.

Remediation via Alternative GW2 (ISCO) in areas that are not attenuating in a reasonable timeframe would be considered in the future to facilitate cessation of the need for vapor mitigation systems. Evaluation criteria for additional ISCO would be specified in the groundwater monitoring plan.

8.3 Soil Vapor

The potential for VOCs to migrate from the subsurface to indoor air of onsite buildings via soil vapor intrusion will be evaluated if new buildings are constructed on the Site. Sub-slab depressurization systems may be installed on newly constructed buildings should soil vapor intrusion evaluation/sampling indicate that mitigation is warranted. Alternately, as a proactive measure, sub-slab depressurization systems may be installed on newly constructed buildings.

Operation of offsite soil vapor mitigation systems will continue until such time as they are no longer required following consultation with NYSDOH and NYSDEC. Routine inspections and maintenance activities will be conducted as specified in the Operations, Maintenance & Monitoring (OM&M) Plan for the offsite soil vapor mitigation systems.

8.4 Recommended Corrective Measure Cost

For the purposes of this CMS, the cost estimate was developed for a period of 30 years. The cost estimate includes the recommended soil, groundwater, and soil vapor alternatives. The cost to construct the remedy is estimated to be $1,200,000 and the estimated average annual cost is $75,000. The estimated cost is $3,450,000 based on 30 years of OM&M. The range of costs based on a -30 to +50 range of accuracy is $2,420,000 to $5,180,000. Additional cost assumptions are provided in **Table 8-1**.

8.5 Recommended Corrective Measure Remedial Timeframe

The soil corrective action can be completed within a year. The soil VOC mass is expected to be treated within 3 years; however, the ISCR technology is expected to provide ongoing treatment for 5 to 10 years. Downgradient groundwater improvements are expected to be observed within 5 to 10 years.

Groundwater concentrations at the proposed point of compliance are currently below the cleanup criteria for drinking water. Vapor mitigation will continue based on the NYSDOH guidelines (**Section 5.2.3**).

Additional monitoring for natural attenuation would be performed as groundwater improvements are observed. The total remediation timeframe including post-remediation monitoring could be up to 20 years.

8.6 Corrective Measure Implementation Schedule

A Corrective Measures Implementation (CMI) Work Plan will be prepared to implement the ISCR remedy based on discussions with NYSDEC. The design will consider EPAs core elements for greener cleanups. It is expected that the remedy will be implemented during Summer/Fall of 2024.

8.7 Data Gaps

The extent of PFAS impacts in groundwater has been identified as a data gap that will be addressed by developing and implementing a supplemental PFAS investigation.

9. CERTIFICATION STATEMENT

I, Lucas Hellerich, PE, certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry into the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Lucas Hellerich

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TABLES

Table 2-1: SWMUs and AOCs
Site Name - Rouses Point, New York

Name		Part of Chemical Development Pilot Plant	No Further Action (NFA) Received?	Date of Corrective Action Status	Documentation of No Further Action (NFA) Status	Relevant Reports
SWMU-1	Interim Drum Storage Area	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) CMS Work Plan (Ref 13A) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Plan Addendum (Ref 19B) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-2	Building 20A Accumulation Area		X	11/16/2023	NYSDEC response to Solid Waste Management Unit & Area of Concern Sampling & Analysis Plan - Main Plant, August 2015, Revision 1 March 2018, Revision 2 September 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A)
SWMU-3	Building 20 Accumulation Area		X	11/28/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-4	Former Container Storage Area	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) CMS Work Plan (Ref 13A) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Plan Addendum (Ref 19B) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-5	Container Storage Area	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Minor Modification suspending monitoring requirements (Ref Final Rinsate Sample Collection Plan (Ref 18A) Final Closure Report (Ref 18B) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-6	Tank Farm	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) ICM Completion Report, SWMU-6 Tank Farm (Ref 11A) Notice of Final Receipt of Waste (Ref 16D) Final Rinsate Sample Collection Plan (Ref 16E) Tank Farm Final Closure Report (Ref 16F) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-7A	Exterior Process Sewers North and West of Building 23	X	X	6/3/2010	NYSDEC response to ICM Completion Report, SWMU-7 Process Sewer, North and West Sides (Chemical Development Plant), dated May 14, 2010	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Interim Corrective Measures Workplan (Ref 4A) ICM Completion Report, SWMU-7 Process Sewer (Ref 4D)

Table 2-1: SWMUs and AOCs
Site Name - Rouses Point, New York

Name		Part of Chemical Development Pilot Plant	No Further Action (NFA) Received?	Date of Corrective Action Status	Documentation of No Further Action (NFA) Status	Relevant Reports
SWMU-7B	Exterior Process Sewers from Building 17C and 34, Exterior Process Sewers East Side of Building 23, and Interior Process Sewers (Buildings 16, 23, 24, 26, 31, 34, and 40)	X	X	5/9/2023 10/6/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023 and NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, September 8, 2023 Letter Response	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Supplemental SAP Addendum No. 3 (Ref 3D) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Plan Addendum (Ref 19B) ChemD Sampling & Analysis Report (Ref 19C) Comment Response Letter (Ref 19D)
SWMU-7C	Process Sewers Buildings 19, 21, 13, 35, 14, and 37		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-7D	Process Sewers Buildings 18 and 27					Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B) Supplemental Main Plant SAR (Ref 24B)
SWMU-8	Waste Neutralization USTS		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-9	Lab Waste Mgmt Area		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-10	North Field					Sampling & Analysis Report (Ref 1C) ICM Work Plan, SWMU-10 (Ref 2A) ICM Completion Report, SWMU-10 (Ref 2B) Sampling & Analysis Report (Ref 20B)
SWMU-11	Sumps and Catchments in Solvent Use Areas		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-12	Building 16 Former Drywell	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Supplemental SAP 6/29/07 (Ref 3A) CMS Work Plan (Ref 13A) Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Plan Addendum (Ref 19B) Sampling & Analysis Report (Ref 19C)
SWMU-13	Building 16 Former Sanitary Sewer Holding Tanks	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) CMS Work Plan (Ref 13A) Sampling & Analysis Plan (Ref 19A) Sampling & Analysis Report (Ref 19C)

Table 2-1: SWMUs and AOCs
Site Name - Rouses Point, New York

Name		Part of Chemical Development Pilot Plant	No Further Action (NFA) Received?	Date of Corrective Action Status	Documentation of No Further Action (NFA) Status	Relevant Reports
SWMU-14	Waste Toluene Mgmt East of Tank Farm	X	X	6/17/2010	NYSDEC approval of Interim Corrective Measure Completion Report - SWMU 14 (Waste Toluene Management East of Tank Farm) dated May 21, 2010	Sampling & Analysis Report (Ref 1C) Supplemental SAP 6/29/07 (Ref 3A) Interim Corrective Measures Workplan (Ref 4A) ICM Completion Report, SWMU-14 Waste Toluene Management East of Tank Farm (Ref 4E)
SWMU-15	Bldg 24 Wastewater Trmt Plant	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-16	Former Fire-fighting Area 3 & 4					Sampling & Analysis Report (Ref 1C) Sampling & Analysis Plan (Ref 20A)
SWMU-17	Bldg 40 Wastewater Steam Stripper Building	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-18	Bldgs 36 and 41 Process Wastewater ASTs		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Notification and Assessment Report to Add Building 36 Tank T36-2 (Ref 21A and 21B) Sampling & Analysis Report (Ref 20B)
SWMU-19	Process Equipment Solvent Recovery Units (multiple locations)		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-20	Process Dust Collection Drum-outs (multiple locations)		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-21	Bldg 25 Active Pharmaceutical Ingredient Waste Storage Area		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-22	Bldg 20 Courtyard Waste Oil Storage Shed		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
SWMU-23	Bldg 16 Former Waste Storage Area in NW Corner	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) CMS Work Plan (Ref 13A) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Report (Ref 19C)

Table 2-1: SWMUs and AOCs
Site Name - Rouses Point, New York

Name		Part of Chemical Development Pilot Plant	No Further Action (NFA) Received?	Date of Corrective Action Status	Documentation of No Further Action (NFA) Status	Relevant Reports
SWMU-24	Bldg 31 Solvent Condensate System	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-25	Bldg 11 Inactive Spray Paint Booth		X	11/16/2023	NYSDEC response to Solid Waste Management Unit & Area of Concern Sampling & Analysis Plan - Main Plant, August 2015, Revision 1 March 2018, Revision 2 September 2023	Sampling & Analysis Report (Ref 1C) CMS Work Plan (Ref 13A) Sampling & Analysis Plan (Ref 20A)
SWMU-26	Chem Develop Reactor Bay Drumming Areas	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Engineering Evaluation of Select SWMUs Report (Ref 1D) ChemD Sampling & Analysis Plan (Ref 19A) ChemD Sampling & Analysis Plan Addendum (Ref 19B) ChemD Sampling & Analysis Report (Ref 19C)
SWMU-27	Building 13 Accumulation Area		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Minor modification (Ref 5F) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
AOC 1	Former PCB Transformer					Sampling & Analysis Report (Ref 1C) Sampling & Analysis Plan (Ref 20A)
AOC 2	Stained Soil Near Contractor AST		X	7/17/2007	NYSDEC response to Supplemental Sampling and Analysis Plan, dated June 29, 2007	Sampling & Analysis Report (Ref 1C) Supplemental SAP 6/29/07 (Ref 3A)
AOC 3	Petroleum Staining Soil Bldg 6 Former 30K UST		X	11/28/2023	NYSDEC response to Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant, April 2019, Revision 1 October 2023	Sampling & Analysis Report (Ref 1C) CMS Work Plan (Ref 13A) Sampling & Analysis Plan (Ref 20A) Sampling & Analysis Report (Ref 20B)
AOC 4	Petroleum AST without Base Containment - Bldg 6		X	7/21/2010	NYSDEC approval of Interim Corrective Measure Completion Report - AOC-4 (Petroleum AST Without Base Containment) dated June 4, 2010	Sampling & Analysis Report (Ref 1C) Interim Corrective Measure (Soil Removal) Completed (Ref 12A)
AOC 5	Ethylene Dichloride release near Bldg 23 dock	X	X	5/8/2007	NYSDEC response to Sampling & Analysis Report, dated April 5, 2007	Sampling & Analysis Report (Ref 1C)
AOC 6	Petroleum & Dichloromethane release from Bldg 25 dock		X	5/8/2007	NYSDEC response to Sampling & Analysis Report, dated April 5, 2007	Sampling & Analysis Report (Ref 1C)
AOC 7	No. 6 Fuel oil release to concrete trench north of Bldg 6		X	5/8/2007	NYSDEC response to Sampling & Analysis Report, dated April 5, 2007	Sampling & Analysis Report (Ref 1C)
AOC 8	Acetonitrile release to concrete at Chem D	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) ChemD Sampling & Analysis Report (Ref 19C)
AOC 9	Bldg 34 loading dock mixed Alcohol waste release	X	X	5/8/2007	NYSDEC response to Sampling & Analysis Report, dated April 5, 2007	Sampling & Analysis Report (Ref 1C)

Table 2-1: SWMUs and AOCs
Site Name - Rouses Point, New York

Name		Part of Chemical Development Pilot Plant	No Further Action (NFA) Received?	Date of Corrective Action Status	Documentation of No Further Action (NFA) Status	Relevant Reports
AOC 10	Bldg 23 Therminol Release to soil	X	X	5/9/2023	NYSDEC response to 2016 Solid Waste Management Unit Sampling and Analysis Report, Chemical Development Pilot Plant, dated April 4, 2016; Revision 1 dated September 7, 2023	Sampling & Analysis Report (Ref 1C) Supplemental SAP Addendum No. 3 (Ref 3D) CMS Work Plan (Ref 13A) ChemD Sampling & Analysis Report (Ref 19C)
AOC 11	Offsite Groundwater					Supplemental SAR (Ref 3E) CMS Work Plan (Ref 13A) ISCO ICM (Ref 17A - 17D)

Notes:
All SWMUs are inactive.

Table 2-2
Reference List
Site Name - Rouses Point, New York

Reference Number	Title	Document Date	NYSDEC Response
Reference 1 - Identification and Initial Investigation of SWMUs/AOCs			
1A	Final SWMU/AOC Notification; Wyeth Pharmaceuticals	7/21/2006	
1B	Solid Waste Management Unit (SWMU) and Area of Concern (AOC) Assessment Report; Woodard & Curran (W&C)	9/1/2006	NYSDEC comments dated 9/26/2006 Response to Comments submitted to NYSDEC dated 10/9/2006 NYSDEC Approval Letter dated 10/17/2006
1C	Solid Waste Management Unit (SWMU) & Area of Concern (AOC) Sampling and Analysis Report; W&C [Includes Appendix A: Engineering Evaluation Workplan]	4/5/2007	Sampling and Analysis Report: NYSDEC comments dated 5/8/2007 Response to Comments and Revisions submitted to NYSDEC dated 6/29/2007 NYSDEC Approval Letter dated 7/17/2007 Engineering Evaluation Workplan: NYSDEC Approval Letter dated 5/8/2007
1D	Engineering Evaluation of Select Solid Waste Management Units (SWMUs) Report; W&C	3/12/2010	NYSDEC Approval Letter dated 4/27/2010
Reference 2 - SWMU-10 Interim Corrective Measure			
2A	Interim Corrective Measure Workplan, SWMU-10; W&C	6/15/2007	NYSDEC Approval Letter dated 7/17/2007
2B	Interim Corrective Measure Completion Report, SWMU-10; W&C	3/19/2010 Rev 1 - 4/29/2010	NYSDEC Approval Letter dated 5/12/2010
Reference 3 - Supplemental Investigation			
3A	Supplemental Sampling & Analysis Plan (SAP); W&C	6/29/2007	NYSDEC Approval Letter dated 7/17/2007
3B	Supplemental Sampling & Analysis Plan (SAP) Addendum 1; W&C	9/27/2007	Verbal Approval 10/2007; field overview 10/18/07
3C	Supplemental Sampling & Analysis Plan (SAP) Addendum 2; W&C	9/2/2008	NYSDEC Approval Letter dated 9/16/2008
3D	Supplemental Sampling and Analysis Plan Addendum No.3; W&C	6/21/2010	NYSDEC Approval Letter dated 6/24/2010
3E	Supplemental Sampling & Analysis Report (SAR); W&C	6/25/2010 Rev 1 - 9/10/2010	NYSDEC Comment Letter dated 7/30/2010
Reference 4 - SWMU-7 and SWMU-14 Interim Corrective Measure			
4A	Interim Corrective Measure (ICM) Workplan, SWMU-7 Process Sewer (Chem D) & SWMU-14 Waste Toluene Management Area; W&C;	6/13/2008	NYSDEC Conditional Approval Letter dated 6/9/2008
4B	ICM Workplan Addendum No. 1, SWMU-7 Process Sewer (Chem D); W&C	5/28/2009	NYSDEC Approval Letter dated 6/2/2009
4C	ICM Workplan Addendum No.2, SWMU-7 Process Sewer (Chem D); W&C	8/21/2009	NYSDEC Approval Letter dated 8/24/2009
4D	ICM Completion Report, SWMU-7 Process Sewer, North and West Sides (Chem D); W&C	5/14/2010	NYSDEC Approval Letter dated 6/3/2010
4E	ICM Completion Report, SWMU-14 Waste Toluene Management East of Tank Farm; W&C	5/21/2010	NYSDEC Approval Letter dated 6/17/2010

Table 2-2
Reference List
Site Name - Rouses Point, New York

Reference Number	Title	Document Date	NYSDEC Response
Reference 5 - Permit 5-0928-00017/00175 Documents			
5A	6 NYCRR Part 373 Permit, DEC Permit Number 5-0928-00017/00175	3/4/2009	Final permit issued by NYSDEC on 3/4/2009
5B	Minor Permit Modification Application, 6 NYCRR Part 373 Permit, DEC Permit No. 5-0928-00017/00175	6/29/2009	Permit modfication issued by NYSDEC on 6/30/2009
5C	Request for Minor Permit Modification of Hazardous Waste Management Permit No. 5-0928-00017/00175; Pfizer	8/1/2011	NYSDEC Approval Letter dated 12/27/2011
5D	Request for Minor Permit Modification of Hazardous Waste Management Permit No. 5-0928-00017/00175; Pfizer	11/22/2011	NYSDEC Approval Letter dated 12/27/2011
5E	Request for Major Permit Modification for Corrective Measures; Pfizer	2/8/2013	NYSDEC Response dated 3/29/2013
5F	Request for Minor Modification for Permit #5-0928-00017/00175 to update Table 1 in Attachment XI to include <90 day storage area; Pfizer	12/17/2013	
5G	Request for Minor Permit Modification of Hazardous Waste Management Permit No. 5-0928-00017/00175; Pfizer	2/13/2014	NYSDEC Approval Letter dated 2/14/2014
5H	Request for Minor Permit Modification of Hazardous Waste Management Permit No. 5-0928-00017/00175; Pfizer	8/4/2014	NYSDEC Approval Letter dated 10/3/2014
Reference 6 - 2008-2009 Off-Site Vapor Intrusion Investigation			
6A	Vapor Intrusion Investigation Workplan; W&C	2/8/2008	NYSDEC Approval Letter dated 2/15/2008 Response to Comments submitted to NYSDEC 2/20/2008
6B	Vapor Intrusion Investigation Workplan, Addendum No.1; W&C	8/19/2008	NYSDEC Approval Letter dated 8/21/2008
6C	Vapor Intrusion Investigation Work Plan Addendum No.2; W&C	12/10/2008	NYSDEC Approval Letter dated 12/30/2008
6D	Vapor Intrusion Investigation Work Plan Addendum No.3; W&C	5/20/2009	NYSDEC Approval Letter dated 5/29/2009
Reference 7 - Off-Site Soil Vapor Mitigation System Completion Reports			
7A	Off-Site Soil Vapor Mitigation System Completion Report; W&C	May 2009	NYSDEC Comment Email dated 6/22/2009 Response to Comments Email submitted to NYSDEC submitted 7/27/2009
7B	Off-Site Soil Vapor Mitigation System Completion Report No.2; W&C	4/20/2010	
7C	Off-Site Soil Vapor Mitigation System Completion Report No.3; W&C	8/1/2017	
Reference 8 - Off-Site Soil Vapor Mitigation System OM&M Reports			
8A	Off-Site Soil Vapor Mitigation System Operations, Maintenance & Monitoring (OM&M) Plan; W&C	May 2009 Rev 1 - July 2009 Rev 2 - 3/15/2010	NYSDEC Comment Letter dated 3/3/2009 NYSDEC Approval Letter dated 6/26/2009 NYSDEC Approval Letter dated 3/23/10
8B	2009-2010 Off-Site Soil Vapor Mitigation System OM&M Report; W&C	3/22/2010	NYSDEC Approval Letter dated 4/19/2010
8C	2010-2015 Off-Site Soil Vapor Mitigation System OM&M Report; W&C	1/28/2016	

Table 2-2
Reference List
Site Name - Rouses Point, New York

Reference Number	Title	Document Date	NYSDEC Response
8D	2016-2017 Off-Site Soil Vapor Mitigation System OM&M Report; W&C	3/30/2018	
8E	2018-2019 Off-Site Soil Vapor Mitigation System OM&M Report; W&C	6/25/2020	
8F	2020-2021 Off-Site Soil Vapor Mitigation System OM&M Report; W&C	3/1/2022	Pending NYSDEC review and approval
Reference 9 - On-Site Vapor Intrusion Investigation - Main Plant			
9A	Vapor Intrusion Investigation Workplan - Main Plant; W&C	11/2/2009	NYSDEC Approval Letter dated 11/12/2009
Note: results of these investigation activities were reported in the 9/10/2010 SAR			
Reference 10 - On-Site Vapor Intrusion Investigation - Chemical Development Pilot Plant			
10A	Vapor Intrusion Investigation Workplan - Chemical Development Pilot Plant; W&C	10/15/2010	NYSDEC Approval Letter dated 11/3/2010
10B	Vapor Intrusion Investigation Report - Chemical Development Pilot Plant; W&C	9/23/2011	
Reference 11 - SWMU-6 Interim Corrective Measure			
11A	ICM Completion Report, SWMU-6 Tank Farm (Truck Containment Pad); W&C	5/28/2010	NYSDEC Approval Letter dated 8/26/2010
Reference 12 - AOC-4 Interim Corrective Measure			
12A	ICM Completion Report, AOC-4 Petroleum AST Without Base Containment; W&C	6/4/2010	NYSDEC Approval Letter dated 7/21/2010
Reference 13 - Corrective Measures Study			
13A	Corrective Measures Study Work Plan; W&C	10/8/2010 Rev 1 - 12/9/2010	NYSDEC Comments dated 11/9/2010 NYSDEC Approval Letter dated 12/20/2010
13B	In-Situ Chemical Oxidation (ISCO) Pilot Study Work Plan; W&C	7/7/2011	NYSDEC Email dated 8/4/2011
13C	Fact Sheet for Corrective Measure Study; NYSDEC	March 2013	
13D	Draft Corrective Measures Study Report; W&C	3/29/2013 Rev 1 - 9/26/2022	
13E	Focused Feasability Study and Corrective Measures Study Addendum, Buildings 18 & 27; W&C	11/5/2021	NYSDEC Comment Letter dated 6/2/2022 Incorporated into CMS
Reference 14 - CMS Progress Reports			
14A	Corrective Measures Study Progress Report No. 1; W&C	2/25/2011	
14B	Corrective Measures Study Progress Report No. 2; W&C	6/3/2011	
14C	Corrective Measures Study Progress Report No. 3; W&C	9/22/2011	
14D	Corrective Measures Study Progress Report No. 4; W&C	12/22/2011	
14E	Corrective Measures Study Progress Report No. 5; W&C	9/1/2012	
14F	Corrective Measures Study Progress Report No. 6; W&C	12/14/2012	
14G	2013-2014 Annual Progress Report for RCRA Corrective Action Activities; W&C	4/9/2014	
14H	2014-2015 Annual Progress Report for RCRA Corrective Action Activities; W&C	9/18/2015	
14I	2015-2016 Annual Progress Report for RCRA Corrective Action Activities; W&C	2/8/2017	
14J	2017 Annual Progress Report for RCRA Corrective Action Activities; W&C	3/21/2018	

Table 2-2
Reference List
Site Name - Rouses Point, New York

Reference Number	Title	Document Date	NYSDEC Response
14K	2018 Annual Progress Report for RCRA Corrective Action Activities; W&C	3/19/2019	
14L	2019 Annual Progress Report for RCRA Corrective Action Activities; W&C	5/8/2020	
14M	2020 Annual Progress for RCRA Corrective Action Activities; W&C	5/10/2021	
14N	2021 Annual Progress for RCRA Corrective Action Activities; W&C	4/14/2022	
Reference 15 - Groundwater Monitoring Program Reports			
15A	2020 Groundwater Monitoring Program Evaluation Report; W&C	7/24/2020	
15B	2021 Annual Groundwater Monitoring Program Report; W&C	7/26/2021 Addendum dated 9/7/2023	NYSDEC Comment Letter dated 6/1/2022 Response to Comments dated 7/8/2022 Pending NYSDEC Approval
15C	2022 Annual Groundwater Monitoring Program Report; W&C	10/3/2023	Pending NYSDEC review and approval
Reference 16 - Tank Farm Closure			
16A	Rinsate Sample Collection Plan, Decontamination and Decommissioning of Tanks T-1005, T-1008 and ST-1; W&C	5/4/2011	NYSDEC Approval Letter dated 5/13/2011
16B	Rinsate Sample Locations, Decontamination and Decommissioning of Tanks T-1005, T-1008 and ST-1; W&C	6/13/2011	NYSDEC Approval Letter dated 7/7/2011
16C	Rinsate Sample Collection Report, Decontamination and Decommissioning of Tanks T-1005, T-1008 and T-1009 (ST-1); W&C	9/23/2011	NYSDEC Approval Letter dated 12/27/2011
16D	Notice of Final Receipt of Waste for Tanks T1005, T1008, and ST-1 - Permit 5-0928-00017/00175; Pfizer	11/5/2013	
16E	Final Tank Farm Containment and Truck Pad Rinsate Sample Collection Plan; W&C	11/22/2013	
16F	Tank Farm Final Closure Report; W&C	1/29/2014	NYSDEC Approval Letter dated 3/19/2014
Reference 17 - ISCO ICM			
17A	ISCO Interim Corrective Measure (ICM) Recommendation Letter; NYSDEC	3/29/2013	
17B	ISCO ICM Work Plan; W&C	6/5/2013	NYSDEC Approval Letter dated 7/1/2013
17C	2014 ISCO ICM Work Plan; W&C	7/11/2014	NYSDEC Approval Email dated 7/28/2014
17D	Request to Reauthorize the 2014 ISCO ICM Work Plan; W&C	6/10/2016	NYSDEC Approval Email dated 6/21/2016
Reference 18 - Building 17C			
18A	Revised Final Rinsate Sample Collection Plan - Building 17C (Container Storage Building); W&C	1/21/2014 Rev 1 - 2/25/2014	NYSDEC Approval Letter dated 3/6/2014
18B	Building 17C (Container Storage Building) Final Closure Report; Pfizer	6/3/2014	NYSDEC Approval Letter dated 7/23/2014
Reference 19 - Chemical Development Pilot Plant Investigation			
19A	Solid Waste Management Unit Sampling & Analysis Plan - Chemical Development Pilot Plant; W&C	9/18/2014 Rev 1 - 12/1/2014	NYSDEC Email 12/10/2014
19B	Addendum to the Chemical Development Pilot Plant Solid Waste Management Unit Sampling & Analysis Plan; W&C	9/22/2015	NYSDEC Email dated 10/5/2015

Table 2-2
Reference List
Site Name - Rouses Point, New York

Reference Number	Title	Document Date	NYSDEC Response
19C	Solid Waste Management Unit Sampling & Analysis Report - Chemical Development Pilot Plant; W&C	4/8/2016 Rev 1 - 9/7/2023	NYSDEC Approval Letters dated 5/9/2023
19D	Letter Response to NYSDEC Re: 2016 Solid Waste Management Unit and Sampling Analysis Report Chemical Development Pilot Plant	9/8/2023	NYSDEC Approval Letter dated 10/6/2023
Reference 20 - Main Plant Investigation			
20A	Solid Waste Management Unit & Area of Concern Sampling & Analysis Plan - Main Plant; W&C	8/26/2015 Rev 1 - 3/7/2018 Rev 2 - 9/20/2023	NYSDEC Comment Email dated 11/29/2017 NYSDEC Comment Email dated 5/9/2018 NYSDEC Approval Letter dated 11/16/2023
20B	Solid Waste Management Unit and Area of Concern Sampling & Analysis Report, Former Main Plant; W&C	4/19/2019 Rev 1 - 10/30/2023	NYSDEC Approval Letter dated 11/28/2023
Reference 21 - SWMU-18 Notification			
21A	Newly Identified SWMU/AOC Notification: SWMU-18 Tank T36-2; W&C	5/18/2018	
21B	Newly Identified SWMU/AOC Assessment Report: SWMU-18 Tank T36-2; W&C	6/15/2018	
Reference 22 - PFAS Sampling			
22A	PFAS Sampling and Analysis Plan; W&C	6/18/2018	NYSDEC Approval Email dated 8/6/2018
22B	PFAS Sampling and Analysis Report; W&C	12/20/2018	
Reference 23 - 2019 Off-Site Vapor Intrusion Investigation			
23A	2019 Off-Site Vapor Intrusion Investigation Work Plan; W&C; 4/17/2019	4/17/2019	NYSDEC Approval Email dated 9/23/2019
23B	Vapor Intrusion Investigation Sampling and Analysis Report; W&C	6/17/2020	
Reference 24 - Supplemental Main Plant Investigation			
24A	Addendum to the Proposed Supplemental Actions included in the April 2019 Main Plant SWMU/AOC SAR; W&C	10/3/2019 Rev 1 - 10/30/2023	NYSDEC Response dated 11/28/2023
24B	Supplemental Main Plant SWMU/AOC Sampling & Analysis Report; W&C	12/29/2020 Rev 1 - 12/29/2023	NYSDEC Response dated 2/8/2024

Note: Part A Permit Application Package to renew NYSDEC Permit No. 5-0928-00017/00175 submitted to the NYSDEC on 9/4/2018. NYSDEC acknowledged receipt of the Application Package by email on 9/4/2018. Renewal of permit pending.

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG01	March 2008 August 2014 (NYSDOH)	N/A	No further action required based on sampling	N/A	N/A
BLDG02	April 2008 February 2009 January 2020	7/23/2008	Mitigation System Installed & Operational	10/20/2008	N/A
BLDG03	April 2008 February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	10/28/2008	N/A
BLDG04	April 2008 February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	10/8/2008	N/A
BLDG05	April 2008 February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	10/13/2008	N/A
BLDG06	April 2008 February 2009 December 2019	7/23/2008	Mitigation System Installed & Operational	10/10/2008	N/A
BLDG07	April 2008 February 2009 December 2019	7/23/2008	Mitigation System Installed & Operational	10/14/2008	N/A
BLDG08	April 2008 February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	10/16/2008	N/A
BLDG09	April 2008 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	6/30/2009	N/A
BLDG10	April 2008	7/23/2008 5/26/2009 4/30/2010 4/30/2011 4/30/2012 4/30/2013 6/20/2014 4/24/2015 4/29/2016 4/28/2017 5/22/2018 6/18/2019 6/14/2021 7/6/2023	Declined System	N/A	N/A
BLDG11	April 2008 February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	11/18/2008	N/A

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG12	April 2008 February 2009 December 2019	7/23/2008	Owners elected to keep system after Pfizer's offer for removal dated 6/14/2021. Responsibility of maintenance and electrical costs has transfered owner.	11/17/2008	N/A
BLDG13	April 2008 January 2020	7/23/2008	Mitigation System Installed & Operational	12/10/2008	N/A
BLDG14	April 2008 February 2009 *Declined - 2019*	7/23/2008 5/22/2018 6/14/2021	Operational Status Unknown	10/9/2008	N/A
BLDG15	April 2008 February 2009 January 2020	7/23/2008	Mitigation System Installed & Operational	10/21/2008	N/A
BLDG16	April 2008 February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	10/15/2008	N/A
BLDG17	September 2008 February 2009 *Declined - 2019*	10/6/2009	Mitigation System Installed & Operational	11/16/2009	N/A
BLDG18	September 2008 February 2009 December 2019	10/6/2009	Mitigation System Installed & Operational	11/18/2009	N/A
BLDG19	September 2008 February 2009 *Declined - 2019*	10/6/2009	Operational Status Unknown	12/8/2009	N/A
BLDG20	September 2008 *Declined - 2019*	12/2/2008	Mitigation System Installed & Operational	5/28/2009	N/A
BLDG21	September 2008 *Declined - 2019*	12/2/2008 4/30/2010 4/30/2011 6/14/2021	Mitigation System Installed & Operational	8/22/2011	N/A
BLDG22	September 2008 December 2019	12/2/2008	Mitigation System Installed & Operational	6/8/2009; 6/9-6/22/2009	N/A

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG23	September 2008	12/2/2008 4/30/2010 4/30/2011 4/30/2012 4/30/2013 6/20/2014 4/24/2015 4/29/2016 4/28/2017 5/22/2018 6/18/2019 6/14/2021 7/6/2023	Declined System	N/A	N/A
BLDG24	September 2008 January 2020	12/2/2008	Mitigation System Installed & Operational	6/1/2009	N/A
BLDG25	September 2008 January 2020	12/2/2008	Mitigation System Installed & Operational	5/26/2009	N/A
BLDG26	September 2008 December 2019	12/2/2008	Mitigation System Installed & Operational	5/27/2009	N/A
BLDG27	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG28	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG29	September 2008 August 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG30	September 2008 *Declined - 2019*	12/2/2008	Mitigation System Installed & Operational	6/3/2009	N/A
BLDG31	September 2008 *Declined - 2019*	12/2/2008	Mitigation System Installed & Operational	12/7/2009	N/A
BLDG32	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG33	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG34	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG35	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG36	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG37	September 2008 February 2009	N/A	No further action required based on sampling.	N/A	N/A
BLDG38	*Declined - April 2008* February 2009 December 2019	7/23/2008	Mitigation System Installed & Operational	10/29/2008	N/A

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG39	December 2019	11/12/2008	Mitigation System Installed & Operational	5/27/2009	N/A
BLDG40	*Declined - April 2008* *Declined - 2019*	7/23/2008 6/14/2021 7/6/2023	System not in operation since installation.	9/16/2009	N/A
BLDG41	*Declined - April 2008* February 2009 *Declined - 2019*	7/23/2008	Mitigation System Installed & Operational	11/19/2008	N/A
BLDG42	*Declined - April 2008* *Declined - 2019*	7/23/2008 5/22/2018 6/18/2019 6/14/2021 7/6/2023	Operational Status Unknown	6/23/2009	N/A
BLDG43	February 2009 December 2019	10/6/2009	No further action required based on sampling	11/9/2009	9/22/2021
BLDG44	February 2009 December 2019	10/6/2009	Owners elected to keep system after Pfizer's offer for removal dated 6/14/2021. Responsibility of maintenance and electrical costs has transfered owner.	11/10/2009	N/A
BLDG45	February 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG46	July 2009 *Declined - 2019*	10/6/2009 5/22/2018 6/18/2019 6/14/2021 7/6/2023	Operational Status Unknown	11/17/2009	N/A
BLDG47	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG48	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG49	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG50	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG51	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG52	July 2009	N/A	No further action required based on sampling	N/A	N/A

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG53	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG54	July 2009 December 2019	10/6/2009 4/30/2010	No further action required based on sampling	8/30/2010	9/21/2021
BLDG55	*Declined - Feb 2009*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG56	July 2009	N/A	No further action required based on sampling	N/A	N/A
BLDG57	6/3/2010 10/19/2010 *Declined - 2019*	10/6/2009 4/30/2010 8/2/2010 12/20/2010 4/30/2011 4/30/2012	Mitigation System Installed & Operational	10/8/2013	N/A
BLDG58	*Declined - April 2008* *Declined - 2019*	7/23/2008 5/26/2009 4/30/2010 4/30/2011 4/30/2012	Operational Status Unknown	9/20/2012	N/A
BLDG59	*Declined - April 2008* *Declined - 2019*	7/23/2008 5/26/2009 4/30/2010 4/30/2011 4/30/2012 4/30/2013 6/20/2014 4/24/2015 4/29/2016 4/28/2017 5/22/2018	Mitigation System Installed & Operational	9/11/2018	N/A
BLDG60	*Declined - April 2008* November 2019	7/23/2008 5/26/2009 4/30/2010 4/30/2011 4/30/2012 4/30/2013 6/20/2014 4/24/2015 4/29/2016 4/28/2017 5/22/2018	No further action required based on sampling	N/A	N/A

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG61	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG62	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG63	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG64	January 2020	N/A	No further action required based on sampling	N/A	N/A
BLDG65	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG66	January 2020	N/A	No further action required based on sampling	N/A	N/A
BLDG67	January 2020	N/A	No further action required based on sampling	N/A	N/A
BLDG68	January 2020	N/A	No further action required based on sampling	N/A	N/A
BLDG69	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG70	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG71	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG72	November 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG73	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG74	January 2020	N/A	No further action required based on sampling	N/A	N/A
BLDG75	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG76	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG77	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG78	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A

Table 3-2
Summary of Offsite Soil Vapor Monitoring and Mitigation
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Building Number	Date of Sample/*Sample Offer*	Date of Offer of Mitigation System Installation	Current Status	Installation Date	Removal Date
BLDG79	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG80	January 2020	N/A	No further action required based on sampling	N/A	N/A
BLDG81	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG82	*Declined - 2019/2020*	N/A	No further action required based on sampling of adjacent properties	N/A	N/A
BLDG83	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG84	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG85	December 2019	N/A	No further action required based on sampling	N/A	N/A
BLDG86	December 2019	N/A	No further action required based on sampling	N/A	N/A

Notes:
N/A - Not Applicable

Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	7-1801-1-03						7-1801-1-04		7-1801-1-05		
Sample Depth (ft bgs):				5	8	17	19	21	23	1	8	2	7	14
Sample ID:				7-1801-1-03-05	7-1801-1-03-08	7-1801-1-03-17	7-1801-1-03-19	7-1801-1-03-21	7-1801-1-03-23	7-1801-1-04-01	7-1801-1-04-08	7-1801-1-05-02	7-1801-1-05-07	7-1801-1-05-14
Sample Date:				12/9/19	12/9/19	12/18/19	12/18/19	12/18/19	12/18/19	12/9/19	12/9/19	12/9/19	12/9/19	12/11/19
Volatile Organic Compounds (VOC) (ug/kg)														
1,1-Dichloroethene	330	100000	500000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	< 170	**0.64 J**	< 350	< 360
1,2-Dichloroethane	20	2300	30000	< 93	**55 J**	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	< 170	**0.30 J**	< 350	**660**
1,4-Dioxane	100	9800	130000	< 1800	< 1700	< 82 UJ	< 89 UJ	< 96 UJ	< 95 UJ	< 1900	< 3300	< 94	< 6700	< 6800 UJ
Acetone	50	100000	500000	< 460 UJ	< 450	< 20 UJ	< 22 UJ	< 24 UJ	< 24 UJ	< 490 UJ	< 870 J	< 23	< 1800 UJ	< 1800 UJ
Benzene	60	2900	44000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	< 170	< 4.7	< 350	< 360
Chloroform	370	10000	350000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	< 170	< 4.7	< 350	< 360
cis-1,2-Dichloroethene	250	59000	500000	< 93	**32 J**	**0.88 J**	< 4.5	< 4.8	< 4.8	< 99	**96 J**	< 4.7	< 350	**490**
Methyl acetate				< 460 UJ	< 450	< 20 UJ	< 22 UJ	< 24 UJ	< 24 UJ	< 490 UJ	< 870 J	< 23	< 1800 UJ	< 1800
Methylene Chloride	50	51000	500000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8 UJ	< 99	< 170	< 4.7	< 350	< 360
Tetrachloroethene	1300	5500	150000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	**82 J**	< 4.7	< 350	< 360
Tetrahydrofuran				< 190 UJ	< 180	< 8.2 UJ	< 8.9 UJ	< 9.6 UJ	< 9.5 UJ	< 200 UJ	< 350 J	< 9.4	< 710 UJ	< 710 UJ
trans-1,2-Dichloroethene	190	100000	500000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	< 170	< 4.7	< 350	**830**
Trichloroethene	470	10000	200000	**760**	**12000**	< 4.1 UJ	< 4.5	< 4.8	< 4.8	**280**	**40000**	**160**	**14000**	**55000**
Vinyl chloride	20	210	13000	< 93	< 90	< 4.1 UJ	< 4.5	< 4.8	< 4.8	< 99	< 170	< 4.7	< 350	< 360
Xylenes, Total	260	100000	500000	< 190	< 180	< 8.2 UJ	< 8.9	< 9.6	< 9.5	< 200	< 350	< 9.4	< 710	< 710

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

J- = The analyte was detected, but the associated reported concentration is approximate and is considered estimated and biased low.

U = Result is less than the Reporting Limit based on data validation.

UJ = The analyte was analyzed for but was not detected. The level at which the material is not detected is an estimate and may be inaccurate or imprecise.

R = Result was rejected due to deficiency noted during data validation

Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	7-1801-1-06A					7-1801-1-06B	7-1801-1-07				
Sample Depth (ft bgs):				5	9	17	17 DUP	22	1	5	8	11	19	23
Sample ID:				7-1801-1-06A-5	7-1801-1-06A-9	7-1801-1-06-17	7-1801-1-06-99	7-1801-1-06-22	7-1801-1-06B-1	7-1801-1-07-05	7-1801-1-07-08	7-1801-1-07-11	7-1801-1-07-19	7-1801-1-07-23
Sample Date:				12/5/19	12/5/19	12/17/19	12/17/19	12/17/19	12/5/19	12/10/19	12/10/19	12/17/19	12/17/19	12/17/19
Volatile Organic Compounds (VOC) (ug/kg)														
1,1-Dichloroethene	330	100000	500000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	< 370	< 760	< 4.1 UJ	< 1800
1,2-Dichloroethane	20	2300	30000	**1.2 J**	**0.39 J**	< 4.3	< 4.2	< 5.2	< 4.6	< 98	**620**	**2100**	< 4.1 UJ	**50000**
1,4-Dioxane	100	9800	130000	< 89	< 98	< 86	< 84	< 100	< 92	< 1900	< 7100	< 14000	< 83 UJ	< 35000 R
Acetone	50	100000	500000	< 22 UJ	< 24 UJ	< 21	< 21	< 26	< 23 UJ	< 490	< 1900	< 3800	< 21 UJ	< 9200
Benzene	60	2900	44000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	< 370	< 760	< 4.1 UJ	< 1800
Chloroform	370	10000	350000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	< 370	< 760	< 4.1 UJ	< 1800
cis-1,2-Dichloroethene	250	59000	500000	< 4.5	< 4.9	< 4.3	< 4.2	**1.1 J**	< 4.6	< 98	**170 J**	< 760	< 4.1 UJ	**8900 J**
Methyl acetate				< 22	< 24 J	< 21	< 21	< 26	< 23	< 490	< 1900	< 3800	< 21 UJ	< 9200
Methylene Chloride	50	51000	500000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	< 370	< 760	< 4.1 UJ	< 1800
Tetrachloroethene	1300	5500	150000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	< 370	< 760	< 4.1 UJ	< 1800
Tetrahydrofuran				< 8.9 UJ	< 9.8 UJ	< 8.6	< 8.4	< 10	< 9.2 UJ	< 200	< 750	< 1500	< 8.3 UJ	< 3700
trans-1,2-Dichloroethene	190	100000	500000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	**200 J**	**860**	< 4.1 UJ	**1200 J**
Trichloroethene	470	10000	200000	**20**	< 4.9	< 4.3	< 4.2	< 5.2	**1.3 J**	**300**	**28000**	**30000**	< 4.1 UJ	< 1800
Vinyl chloride	20	210	13000	< 4.5	< 4.9	< 4.3	< 4.2	< 5.2	< 4.6	< 98	< 370	< 760	< 4.1 UJ	< 1800
Xylenes, Total	260	100000	500000	< 8.9	< 9.8	< 8.6	< 8.4	< 10	< 9.2	< 200	< 750	< 1500	< 8.3 UJ	< 3700

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

J- = The analyte was detected, but the associated reported concentration is approximate and is considered estimated and biased low.

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	7-1801-1-08						
Sample Depth (ft bgs):				2	9	9 DUP	12	19	22	24
Sample ID:				7-1801-1-08-02	7-1801-1-08-09	7-1801-1-08-99	7-1801-1-08-12	7-1801-1-08-19	7-1801-1-08-22	7-1801-1-08-24
Sample Date:				12/10/19	12/10/19	12/10/19	12/11/19	12/19/19	12/19/19	12/19/19
Volatile Organic Compounds (VOC) (ug/kg)										
1,1-Dichloroethene	330	100000	500000	< 110	< 940	< 890	< 380	< 100	< 840	< 350
1,2-Dichloroethane	20	2300	30000	< 110	< 940	< 890	**540**	**10000**	**20000**	**7900**
1,4-Dioxane	100	9800	130000	< 2100	< 18000	< 17000	< 7200 UJ	< 1900 UJ	< 16000 UJ	< 6700 UJ
Acetone	50	100000	500000	< 550	< 4700	< 4500	< 1900 UJ	< 500	< 4200	< 1800
Benzene	60	2900	44000	< 110	< 940	< 890	< 380	< 100	< 840	< 350
Chloroform	370	10000	350000	< 110	< 940	< 890	< 380	< 100	< 840	< 350
cis-1,2-Dichloroethene	250	59000	500000	< 110	< 940	< 890	**400**	**6100**	**14000**	**5000**
Methyl acetate				< 550	< 4700	< 4500	< 1900	< 500	< 4200	< 1800
Methylene Chloride	50	51000	500000	< 110	< 940	< 890	< 380	< 100	< 840	< 350
Tetrachloroethene	1300	5500	150000	**33 J**	< 940	< 890	< 380	< 100	< 840	< 350
Tetrahydrofuran				< 220	< 1900	< 1800	< 760 UJ	< 200	< 1700	< 700
trans-1,2-Dichloroethene	190	100000	500000	< 110	< 940	< 890	**130 J**	**2300**	**6400**	**2000**
Trichloroethene	470	10000	200000	**1200**	**45000**	**50000**	**80000**	**30000**	**57000**	**21000**
Vinyl chloride	20	210	13000	< 110	< 940	< 890	< 380	< 100	< 840	< 350
Xylenes, Total	260	100000	500000	< 220	< 1900	< 1800	< 760	< 200	< 1700	< 700

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

J- = The analyte was detected, but the associated reported concentration is approximate and is considered estimated and biased low.

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R = Result was rejected due to deficiency noted during data validation

Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	7-1801-1-09						7-1801-1-10			7-1801-1-11	
Sample Depth (ft bgs):				1	7	13	15	21	23	3	7	15	3	12
Sample ID:				7-1801-1-09-01	7-1801-1-09-07	7-1801-1-09-13	7-1801-1-09-15	7-1801-1-09-21	7-1801-1-09-23	7-1801-1-10-3	7-1801-1-10-7	7-1801-1-10-1S	7-1801-1-11-3	7-1801-1-11-12
Sample Date:				12/10/19	12/10/19	12/18/19	12/18/19	12/18/19	12/18/19	12/3/19	12/3/19	12/16/19	12/3/19	12/16/19
Volatile Organic Compounds (VOC) (ug/kg)														
1,1-Dichloroethene	330	100000	500000	< 4.8	< 100	< 85	< 1900	< 200	**160**	**1.1 J**	< 4.9	< 860	**2.8 J**	< 180
1,2-Dichloroethane	20	2300	30000	< 4.8	< 100	**170**	< 1900	**130 J**	**1700**	< 4.5	< 4.9	**1000**	< 3.9	< 180
1,4-Dioxane	100	9800	130000	**33 J**	< 1900 J	< 1600	< 36000	< 3800 UJ	< 2000 UJ	< 90	< 97	< 16000	< 78	< 3500
Acetone	50	100000	500000	**38 J**	< 510 UJ	< 430	< 9600	< 1000	< 530	< 22	< 24 U	< 4300	< 20	< 910
Benzene	60	2900	44000	< 4.8	< 100	< 85	< 1900	< 200	< 110	< 4.5	< 4.9	< 860	< 3.9	< 180
Chloroform	370	10000	350000	< 4.8	< 100	< 85	< 1900	< 200	< 110	< 4.5	< 4.9	< 860	< 3.9	< 180
cis-1,2-Dichloroethene	250	59000	500000	< 4.8	< 100	**230**	< 1900	**520**	**1500**	< 4.5	< 4.9	**1200**	**1.2 J**	**240**
Methyl acetate				< 24 UJ	< 510 UJ	< 430	< 9600	< 1000	< 530	< 22	< 24	< 4300	**4.7 J**	< 910
Methylene Chloride	50	51000	500000	**5.0**	< 100	**44 J**	< 1900	< 200	< 110	< 4.5	< 4.9 U	< 860	< 3.9	**88 J**
Tetrachloroethene	1300	5500	150000	< 4.8	< 100	< 85	< 1900	< 200	< 110	< 4.5	< 4.9	< 860	< 3.9	< 180
Tetrahydrofuran				< 9.5 UJ	< 200 UJ	**87 J**	< 3800	< 400	< 210	< 9.0	< 9.7	< 1700	< 7.8	< 360
trans-1,2-Dichloroethene	190	100000	500000	< 4.8	< 100	**100**	< 1900	**1100**	**450**	< 4.5	< 4.9	**950**	< 3.9	**170 J**
Trichloroethene	470	10000	200000	**4.7 J**	**2300**	**2800**	**67000**	**170000**	**12000**	**73**	**82**	**68000**	**1.0 J**	**8400**
Vinyl chloride	20	210	13000	< 4.8	< 100	< 85	< 1900	< 200	**80 J**	< 4.5	< 4.9	< 860	**0.96 J**	< 180
Xylenes, Total	260	100000	500000	**0.82 J**	< 200	< 170	< 3800	< 400	< 210	< 9.0	< 9.7	< 1700	< 7.8	< 360

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	7-2702-1-03					7-2702-1-05					7-2702-1-06
Sample Depth (ft bgs):				4	8 DUP	8	12	16	4	9	10	18	23	5
Sample ID:				7-2702-1-03-4	7-2702-1-03-99	7-2702-1-03-8	7-2702-1-03-12	7-2702-1-03-16	7-2702-1-05-04	7-2702-1-05-09	7-2702-1-05-10	7-2702-1-05-18	7-2702-1-05-23	7-2702-1-06-5
Sample Date:				12/4/19	12/4/19	12/4/19	12/9/19	12/10/19	12/4/19	12/4/19	12/9/19	12/9/19	12/9/19	12/4/19
Volatile Organic Compounds (VOC) (ug/kg)														
1,1-Dichloroethene	330	100000	500000	< 5.2	< 5.1	< 5.3	< 920	< 92	< 4.7	**26**	< 1000	< 1700	< 4200	< 6.0
1,2-Dichloroethane	20	2300	30000	< 5.2	< 5.1	< 5.3	< 920	**120**	**1.1 J**	**60**	< 1000	< 1700	< 4200	< 6.0
1,4-Dioxane	100	9800	130000	< 100 UJ	< 100 UJ	< 110 UJ	< 17000	< 1800	< 93 UJ	< 94 UJ	< 19000	< 33000	< 80000	< 120 UJ
Acetone	50	100000	500000	< 26 UJ	< 25 UJ	< 27 UJ	< 4600 UJ	< 460	< 23 UJ	< 24 UJ	< 5000	< 8600	< 21000	< 30 UJ
Benzene	60	2900	44000	< 5.2	< 5.1	< 5.3	< 920	< 92	< 4.7	< 4.7	< 1000	< 1700	< 4200	< 6.0
Chloroform	370	10000	350000	< 5.2	< 5.1	< 5.3	< 920	< 92	< 4.7	< 4.7	< 1000	< 1700	< 4200	< 6.0
cis-1,2-Dichloroethene	250	59000	500000	**1.1 J**	**1.3 J**	**2.8 J**	**490 J**	**150**	**59 J**	**3500**	**1400**	**3800**	**2900 J**	**3.0 J**
Methyl acetate				< 26 UJ	< 25 UJ	< 27 UJ	< 4600 UJ	< 460	< 23 UJ	< 24 UJ	< 5000	< 8600	< 21000	< 30 UJ
Methylene Chloride	50	51000	500000	< 5.2	< 5.1	< 5.3	< 920	< 92	< 4.7	< 4.7	< 1000	< 1700	< 4200	< 6.0
Tetrachloroethene	1300	5500	150000	**1.3 J**	< 5.1	**1.2 J**	< 920	< 92	**88 J**	**5.3**	< 1000	< 1700	**1900 J**	< 6.0
Tetrahydrofuran				< 10 UJ	< 10 UJ	< 11 UJ	< 1800 UJ	< 180	**130 J**	< 9.4 UJ	< 2000	< 3400	< 8400	< 12 UJ
trans-1,2-Dichloroethene	190	100000	500000	< 5.2	< 5.1	< 5.3	< 920	**130**	< 4.7	**5.8**	< 1000	< 1700	< 4200	< 6.0
Trichloroethene	470	10000	200000	**130**	**120**	**3500**	**47000**	**3700**	**6100**	**150000**	**79000**	**110000**	**660000**	**3.9 J**
Vinyl chloride	20	210	13000	< 5.2	< 5.1	< 5.3	< 920	< 92	< 4.7	**7.3**	< 1000	< 1700	< 4200	< 6.0
Xylenes, Total	260	100000	500000	< 10	< 10	< 11	< 1800	< 180	< 9.3	< 9.4	< 2000	< 3400	< 8400	< 12

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	7-2702-1-07			7-2702-1-08A						7-2702-1-08B	
Sample Depth (ft bgs):				3	10	23	4	6	12	14	18	25	5	7
Sample ID:				7-2702-1-07-3	7-2702-1-07-10	7-2702-1-07-23	7-2702-1-08A-04	7-2702-1-08A-06	7-2702-1-08A-12	7-2702-1-08A-14	7-2702-1-08A-18	7-2702-1-08A-25	7-2702-1-08B-05	7-2702-1-08B-07
Sample Date:				12/4/19	12/16/19	12/16/19	12/11/19	12/11/19	12/11/19	12/11/19	12/12/19	12/12/19	12/11/19	12/11/19
Volatile Organic Compounds (VOC) (ug/kg)														
1,1-Dichloroethene	330	100000	500000	< 5.9	< 1000	< 410	< 100	< 180	< 830	< 830	< 1760	< 1970	< 97	< 180
1,2-Dichloroethane	20	2300	30000	< 5.9	< 1000	< 410	< 100	< 180	**750 J**	**490 J**	< 1760	**9990**	< 97	< 180
1,4-Dioxane	100	9800	130000	< 120 UJ	< 19000	< 7700 J	< 2000 UJ	< 3400 UJ	< 16000 UJ	< 16000 UJ	< 33500	< 37400	< 1800 UJ	< 3400 UJ
Acetone	50	100000	500000	< 30 UJ	< 5000	< 2000	< 520 UJ	< 890 UJ	< 4200 UJ	< 4100 UJ	< 8810	< 9840	< 480 UJ	< 890 UJ
Benzene	60	2900	44000	< 5.9	< 1000	< 410	< 100	< 180	< 830	< 830	< 1760	< 1970	< 97	< 180
Chloroform	370	10000	350000	< 5.9	< 1000	< 410	< 100	< 180	< 830	< 830	< 1760	< 1970	< 97	< 180
cis-1,2-Dichloroethene	250	59000	500000	**1.8 J**	**470 J**	**190 J**	< 100	**190**	**8500**	**4800**	**12700**	**8430**	< 97	< 180
Methyl acetate				< 30 UJ	< 5000	< 2000	< 520	< 890	< 4200	< 4100	< 8810	< 9840	< 480	< 890
Methylene Chloride	50	51000	500000	**3.0 J**	< 1000	< 410	< 100	< 180	< 830	< 830	< 1760	< 1970	< 97	< 180
Tetrachloroethene	1300	5500	150000	**1.4 J**	< 1000	< 410	< 100	**470**	**510 J**	< 830	< 1760	< 1970	**67 J**	**520 J**
Tetrahydrofuran				< 12 UJ	< 2000	< 810	< 210 UJ	< 360 UJ	< 1700 UJ	< 1700 UJ	< 3530	< 3940	**130 J**	< 360 UJ
trans-1,2-Dichloroethene	190	100000	500000	< 5.9	< 1000	**310 J**	< 100	< 180	< 830	< 830	< 1760	< 1970	< 97	< 180
Trichloroethene	470	10000	200000	**120**	**69000**	**18000**	**1300**	**110000**	**220000**	**98000**	**178000**	**188000**	**6400**	**30000**
Vinyl chloride	20	210	13000	< 5.9	< 1000	< 410	< 100	< 180	< 830	< 830	< 1760	< 1970	< 97	< 180
Xylenes, Total	260	100000	500000	< 12	< 2000	< 810	< 210	< 360	< 1700	< 1700	< 3530	< 3940	< 190	< 360

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB01					TCE-SB02						
Sample Depth (ft bgs):				7	9	12	17	21	7	11	14	16	16 DUP	19	23
Sample ID:				TCE-SB01(7-8)	TCE-SB01-9	TCE-SB01-12	TCE-SB01-17	TCE-SB01-21	TCE-SB02 (7-8)	TCE-SB02-11	TCE-SB02-14	TCE-SB02-16	DUP-2	TCE-SB02-19	TCE-SB02-23
Sample Date:				9/23/20	10/7/20	10/7/20	10/7/20	10/7/20	9/24/20	10/6/20	10/6/20	10/6/20	10/6/20	10/6/20	10/6/20
Volatile Organic Compounds (VOC) (ug/kg)															
1,1-Dichloroethene	330	100000	500000	< 110	< 730	< 1700	< 1800	< 1800	< 88	< 3.9	< 2000	< 3500	< 3900	< 4500	< 4.6 UJ
1,2-Dichloroethane	20	2300	30000	< 110	**2600**	**1400 J**	**8900**	< 1800	< 88	< 3.9	< 2000	< 3500	< 3900	< 4500	**1.9 J-**
1,4-Dioxane	100	9800	130000	< 2100 UJ	< 14000 UJ	< 33000 UJ	< 35000 UJ	< 34000 UJ	< 1700	< 78	< 39000	< 66000	< 74000	< 85000	< 92 UJ
Acetone	50	100000	500000	< 540	< 3600	< 8700	< 9100	< 8900	< 440	**21**	< 10000	< 17000	< 20000	< 22000	**5.6 J**
Benzene	60	2900	44000	< 110	< 730	< 1700	< 1800	< 1800	< 88	< 3.9	< 2000	< 3500	< 3900	< 4500	< 4.6 UJ
Chloroform	370	10000	350000	< 110	< 730	< 1700	< 1800	< 1800	< 88	< 3.9	< 2000	< 3500	< 3900	< 4500	< 4.6 UJ
cis-1,2-Dichloroethene	250	59000	500000	< 110	**2900**	**3100**	**1900**	**1300 J**	< 88	< 3.9	< 2000	< 3500	< 3900	< 4500	**6.0 J-**
Methyl acetate				< 540	< 3600	< 8700	< 9100	< 8900	< 440	< 20	< 10000	< 17000	< 20000	< 22000	< 23 UJ
Methylene Chloride	50	51000	500000	**73 J**	< 730	< 1700 U	< 1800	< 1800 U	< 88	< 3.9 U	< 2000 U	< 3500	< 3900	< 4500	< 4.6 UJ
Tetrachloroethene	1300	5500	150000	< 110	< 730	< 1700	< 1800	< 1800	< 88	< 3.9	< 2000	< 3500	< 3900	< 4500	< 4.6 UJ
Tetrahydrofuran				**83 J**	< 1500	< 3500	< 3700	< 3600	< 180	< 7.8	< 4100	< 7000	< 7800	< 8900	< 9.2 UJ
trans-1,2-Dichloroethene	190	100000	500000	< 110 UJ	**640 J**	< 1700	< 1800	< 1800	< 88 UJ	< 3.9	< 2000	< 3500	< 3900	**2100 J**	**2.2 J-**
Trichloroethene	470	10000	200000	**650**	**60000**	**69000**	**63000**	**56000**	**1800**	**1.0 J**	**50000**	**120000**	**110000**	**230000**	**3.9 J-**
Vinyl chloride	20	210	13000	< 110	< 730 UJ	< 1700 UJ	< 1800 UJ	< 1800 UJ	< 88	< 3.9	< 2000 UJ	< 3500 UJ	< 3900 UJ	< 4500 UJ	< 4.6 UJ
Xylenes, Total	260	100000	500000	< 220	< 1500	< 3500	< 3700	< 3600	< 180	< 7.8	< 4100	< 7000	< 7800	< 8900	< 9.2 UJ

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

J- = The analyte was detected, but the associated reported concentration is approximate and is considered estimated and biased low.

U = Result is less than the Reporting Limit based on data validation.

UJ = The analyte was analyzed for but was not detected. The level at which the material is not detected is an estimate and may be inaccurate or imprecise.

R = Result was rejected due to deficiency noted during data validation

Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB03					TCE-SB04				
Sample Depth (ft bgs):				7	11	15	19	22	5	10	10	18	21
Sample ID:				TCE-SB03(7-8)	TCE-SB03-11	TCE-SB03-15	TCE-SB03-19	TCE-SB03-22	TCE-SB04(5')	TCE-SB-04(10')	TCE-SB04-10	TCE-SB04-18	TCE-SB04-21
Sample Date:				9/23/20	10/7/20	10/7/20	10/7/20	10/7/20	9/22/20	9/22/20	10/8/20	10/8/20	10/8/20
Volatile Organic Compounds (VOC) (ug/kg)													
1,1-Dichloroethene	330	100000	500000	< 100	**74 J**	< 2400	< 1700	< 1800	< 97	< 97	< 1800	< 78	< 1800
1,2-Dichloroethane	20	2300	30000	**120**	**410**	< 2400	< 1700	< 1800	< 97	< 97	< 1800	< 78	< 1800
1,4-Dioxane	100	9800	130000	< 1900 UJ	< 1700 UJ	< 45000 UJ	< 32000 UJ	< 34000 UJ	< 1800	< 1800	< 34000 UJ	< 1500 UJ	< 33000 UJ
Acetone	50	100000	500000	< 510	< 460	< 12000	< 8500	< 9000	< 480	< 490	< 8900	< 390 UJ	< 8800
Benzene	60	2900	44000	< 100	< 92	< 2400	< 1700	< 1800	< 97	< 97	< 1800	< 78	< 1800
Chloroform	370	10000	350000	< 100	< 92	< 2400	< 1700	< 1800	< 97	< 97	< 1800	< 78	< 1800
cis-1,2-Dichloroethene	250	59000	500000	**1300**	**1200**	**4100**	**3000**	**1200 J**	< 97	< 97	< 1800	< 78	**1100 J**
Methyl acetate				< 510	< 460	< 12000	< 8500	< 9000	< 480	< 490	< 8900	< 390	< 8800
Methylene Chloride	50	51000	500000	**140**	< 92 U	< 2400 U	< 1700 U	< 1800 U	< 97	< 97	**510 J**	**63 J**	**460 J**
Tetrachloroethene	1300	5500	150000	< 100	< 92	< 2400	< 1700	< 1800	< 97	< 97	< 1800	< 78	< 1800
Tetrahydrofuran				< 200	< 180	< 4700	< 3400	< 3600	< 190	< 190	< 3600	< 160	< 3500
trans-1,2-Dichloroethene	190	100000	500000	< 100 UJ	**40 J**	< 2400	< 1700	< 1800	< 97	< 97	< 1800	< 78	< 1800
Trichloroethene	470	10000	200000	**6600**	< 92	**110000**	**75000**	**110000**	**5700**	**4700**	**91000**	**1100**	**71000**
Vinyl chloride	20	210	13000	< 100	**160 J**	< 2400	< 1700 UJ	< 1800 UJ	< 97	< 97	< 1800	< 78	< 1800
Xylenes, Total	260	100000	500000	< 200	< 180	< 4700	< 3400	< 3600	< 190	< 190	< 3600	< 160	< 3500

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

J- = The analyte was detected, but the associated reported concentration is approximate and is considered estimated and biased low.

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UJ = The analyte was analyzed for but was not detected. The level at which the material is not detected is an estimate and may be inaccurate or imprecise.

R = Result was rejected due to deficiency noted during data validation

Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB05								
Sample Depth (ft bgs):				6	6	8	9	10	12	15	19	23
Sample ID:				TCE-SB05(6')	TCE-SB05(6')DUP	TCE-SB05(8')	TCE-SB05(9')	TCE-SB05(10')	TCE-SB05-12	TCE-SB05-15	TCE-SB05-19	TCE-SB05-23
Sample Date:				9/22/20	9/22/20	9/22/20	9/22/20	9/22/20	10/8/20	10/8/20	10/8/20	10/8/20
Volatile Organic Compounds (VOC) (ug/kg)												
1,1-Dichloroethene	330	100000	500000	< 430	< 800	< 550	< 430	< 890	< 2100	< 2200	< 4700	< 2200
1,2-Dichloroethane	20	2300	30000	< 430	< 800	< 550	**230 J**	< 890	**2200**	< 2200	**3200 J**	**1900 J**
1,4-Dioxane	100	9800	130000	< 8100	< 15000	< 10000	< 8200	< 17000	< 40000 UJ	< 42000 UJ	< 90000 UJ	< 41000 UJ
Acetone	50	100000	500000	< 2100	< 4000	< 2700	< 2200	< 4500	< 11000	< 11000	< 24000	< 11000
Benzene	60	2900	44000	< 430	< 800	< 550	< 430	< 890	< 2100	< 2200	< 4700	< 2200
Chloroform	370	10000	350000	< 430	< 800	< 550	< 430	< 890	< 2100	< 2200	< 4700	< 2200
cis-1,2-Dichloroethene	250	59000	500000	**300 J**	< 800	**670**	**550**	**930**	**87000**	< 2200	< 4700	**15000**
Methyl acetate				< 2100	< 4000	< 2700	< 2200	< 4500	< 11000	< 11000	< 24000	< 11000
Methylene Chloride	50	51000	500000	< 430	< 800	< 550	< 430	< 890	**950 J**	**590 J**	**1400 J**	**550 J**
Tetrachloroethene	1300	5500	150000	< 430	< 800	< 550	< 430	< 890	< 2100	< 2200	< 4700	< 2200
Tetrahydrofuran				< 850	< 1600	< 1100	< 860	< 1800	< 4200	< 4400	< 9400	< 4300
trans-1,2-Dichloroethene	190	100000	500000	< 430	< 800	< 550	< 430	< 890	< 2100	< 2200	< 4700	**1200 J**
Trichloroethene	470	10000	200000	**36000**	**33000**	**44000**	**37000**	**37000**	< 2100	**110000**	**150000**	**190000**
Vinyl chloride	20	210	13000	< 430	< 800	< 550	< 430	< 890	< 2100	< 2200	< 4700	< 2200
Xylenes, Total	260	100000	500000	< 850	< 1600	< 1100	< 860	< 1800	< 4200	< 4400	< 9400	< 4300

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB06					TCE-SB07				
Sample Depth (ft bgs):				9	12	18	20	23	4	9	12	17	21
Sample ID:				TCE-SB06(9-10)	TCE-SB06-12	TCE-SB06-18	TCE-SB06-20	TCE-SB06-23	TCE-SB07(4-5)	TCE-SB07(9-10)	TCE-SB07-12	TCE-SB07-17	TCE-SB07-21
Sample Date:				9/23/20	10/7/20	10/7/20	10/7/20	10/7/20	9/23/20	9/23/20	10/6/20	10/6/20	10/6/20
Volatile Organic Compounds (VOC) (ug/kg)													
1,1-Dichloroethene	330	100000	500000	< 92	< 94	< 3600	< 910	< 110	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
1,2-Dichloroethane	20	2300	30000	**100**	< 94	**2800 J**	**1600**	**3100**	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
1,4-Dioxane	100	9800	130000	< 1800 UJ	< 1800 UJ	< 68000 UJ	< 17000 UJ	< 2000 UJ	< 86	< 82	< 90	< 81	< 86
Acetone	50	100000	500000	< 460	< 470	< 18000	< 4600	< 530	< 21	**10 J**	< 4.5	< 4.1	< 4.3
Benzene	60	2900	44000	< 92	< 94	< 3600	< 910	< 110	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
Chloroform	370	10000	350000	< 92	< 94	< 3600	< 910	< 110	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
cis-1,2-Dichloroethene	250	59000	500000	**38 J**	< 94	**3700**	**3100**	**2000**	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
Methyl acetate				< 460	< 470	< 18000	< 4600	< 530	< 21	< 21	< 22	< 20	< 21
Methylene Chloride	50	51000	500000	**97**	< 94 U	< 3600 U	< 910 U	< 110 U	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3 U
Tetrachloroethene	1300	5500	150000	< 92	< 94	< 3600	< 910	< 110	< 4.3 UJ	< 4.1	< 4.5 UJ	< 4.1	< 4.3
Tetrahydrofuran				< 180	< 190	< 7100	< 1800	< 210	< 8.6	< 8.2	< 9.0	< 8.1	< 8.6
trans-1,2-Dichloroethene	190	100000	500000	< 92 UJ	< 94	< 3600	**580 J**	**240**	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
Trichloroethene	470	10000	200000	**3600**	**510**	**150000**	**50000**	**640**	< 4.3	< 4.1	< 4.5	< 4.1	< 4.3
Vinyl chloride	20	210	13000	< 92	< 94 UJ	< 3600 UJ	< 910 UJ	< 110 UJ	< 4.3	< 4.1 UJ	< 4.5	< 4.1	< 4.3
Xylenes, Total	260	100000	500000	< 180	< 190	< 7100	< 1800	< 210	< 8.6	< 8.2	< 9.0 UJ	< 8.1	< 8.6

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

J = The analyte was detected, but the associated reported concentration is approximate and is considered estimated.

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB08					TCE-SB09					
Sample Depth (ft bgs):				5	9	11	14	21	5	5	8	12	14	22
Sample ID:				TCE-SB08 (5-6)	TCE-SB08 (9-10)	TCE-SB08-11	TCE-SB08-14	TCE-SB08-21	TCE-SB09 (5)	TCE-SB09 (5) DUP	TCE-SB09 (8-9)	TCE-SB09-12	TCE-SB09-14	TCE-SB09-22
Sample Date:				9/24/20	9/24/20	10/1/20	10/1/20	10/1/20	9/24/20	9/24/20	9/24/20	9/30/20	9/30/20	9/30/20
Volatile Organic Compounds (VOC) (ug/kg)														
1,1-Dichloroethene	330	100000	500000	< 4.3	< 4.5	< 91	< 88	< 110	< 5.0	< 4.4 UJ	< 4.2	< 4.6	< 4.4	< 110
1,2-Dichloroethane	20	2300	30000	< 4.3	< 4.5	**2000**	**1000**	**2000**	< 5.0	< 4.4 UJ	< 4.2 UJ	< 4.6	< 4.4	**1000**
1,4-Dioxane	100	9800	130000	< 85	< 90	< 1700	< 1700	< 2200	< 100	< 88 UJ	< 84 UJ	< 92	< 89	< 2000
Acetone	50	100000	500000	**31**	**5.3 J**	< 450	< 440	< 570	< 25	**7.5 J-**	**4.5 J**	**4.3 J**	**7.3 J**	< 540
Benzene	60	2900	44000	< 4.3	< 4.5	**190**	**230**	< 110	< 5.0	< 4.4 UJ	< 4.2	< 4.6	< 4.4	**27 J**
Chloroform	370	10000	350000	< 4.3	< 4.5	< 91	< 88	< 110	< 5.0	< 4.4 UJ	< 4.2	< 4.6	< 4.4	< 110
cis-1,2-Dichloroethene	250	59000	500000	< 4.3	< 4.5	< 91	< 88	**4200**	< 5.0	< 4.4 UJ	< 4.2	< 4.6	< 4.4	**270**
Methyl acetate				< 21	< 23	< 450	< 440	< 570	< 25	< 22 UJ	< 21	< 23	< 22	< 540
Methylene Chloride	50	51000	500000	< 4.3	< 4.5	< 91	< 88	< 110	< 5.0	< 4.4 UJ	< 4.2	< 4.6	< 4.4	< 110 UJ
Tetrachloroethene	1300	5500	150000	< 4.3	< 4.5	< 91	< 88	< 110	< 5.0	< 4.4 UJ	< 4.2 UJ	< 4.6	< 4.4	< 110
Tetrahydrofuran				< 8.5	< 9.0	< 180	< 180	< 230	< 10	< 8.8 UJ	< 8.4	< 9.2	< 8.9	< 220
trans-1,2-Dichloroethene	190	100000	500000	< 4.3	< 4.5	< 91	< 88	**450**	< 5.0	< 4.4 UJ	< 4.2	< 4.6	< 4.4	< 110
Trichloroethene	470	10000	200000	< 4.3	< 4.5	< 91	**45 J**	**1600**	< 5.0	< 4.4 UJ	< 4.2 UJ	< 4.6	< 4.4	**94 J**
Vinyl chloride	20	210	13000	< 4.3 UJ	< 4.5 UJ	< 91 UJ	< 88 UJ	< 110 UJ	< 5.0 UJ	< 4.4 UJ	< 4.2 UJ	< 4.6	< 4.4	< 110
Xylenes, Total	260	100000	500000	< 8.5	< 9.0	< 180	< 180	< 230	< 10	< 8.8 UJ	< 8.4 UJ	< 9.2	< 8.9	< 220

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB10				TCE-SB11					
Sample Depth (ft bgs):				8	12	18	22	5	8	9	14	17	21
Sample ID:				TCE-SB10 (8-9)	TCE-SB10-12	TCE-SB10-18	TCE-SB10-22	TCE-SB11(5')	TCE-SB11(8')	TCE-SB11-9	TCE-SB11-14	TCE-SB11-17	TCE-SB11-21
Sample Date:				9/24/20	10/1/20	10/1/20	10/1/20	9/22/20	9/22/20	9/29/20	9/29/20	9/29/20	9/29/20
Volatile Organic Compounds (VOC) (ug/kg)													
1,1-Dichloroethene	330	100000	500000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	< 1000	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
1,2-Dichloroethane	20	2300	30000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	**1700**	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
1,4-Dioxane	100	9800	130000	< 87 UJ	< 86 UJ	< 89 UJ	< 19000	< 92	< 99	< 82	< 89	< 86	< 85
Acetone	50	100000	500000	**6.3 J-**	< 21 UJ	**4.5 J-**	< 5000	< 23	< 25	< 20	**4.3 J**	**6.7 J**	**4.8 J**
Benzene	60	2900	44000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	< 1000	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
Chloroform	370	10000	350000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	< 1000	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
cis-1,2-Dichloroethene	250	59000	500000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	**5400**	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
Methyl acetate				< 22 UJ	< 21 UJ	< 22 UJ	< 5000	< 23	< 25	< 20	< 22	< 22	< 21
Methylene Chloride	50	51000	500000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	< 1000	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
Tetrachloroethene	1300	5500	150000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	< 1000	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
Tetrahydrofuran				< 8.7 UJ	< 8.6 UJ	< 8.9 UJ	< 2000	< 9.2	< 9.9	< 8.2	< 8.9	< 8.6	< 8.5
trans-1,2-Dichloroethene	190	100000	500000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	**1100**	< 4.6	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
Trichloroethene	470	10000	200000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	**53000**	**1.7 J**	< 4.9	< 4.1	< 4.4	< 4.3	< 4.3
Vinyl chloride	20	210	13000	< 4.3 UJ	< 4.3 UJ	< 4.4 UJ	< 1000 UJ	< 4.6 UJ	< 4.9 UJ	< 4.1	< 4.4	< 4.3	< 4.3
Xylenes, Total	260	100000	500000	< 8.7 UJ	< 8.6 UJ	< 8.9 UJ	< 2000	< 9.2	< 9.9	< 8.2	< 8.9	< 8.6	< 8.5

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

Data Qualifiers

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R = Result was rejected due to deficiency noted during data validation

Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB12								
Sample Depth (ft bgs):				5	8	9	10	11	11	16	18	23
Sample ID:				TCE-SB12(5')	TCE-SB12(8')	TCE-SB12(9')	TCE-SB12(10')	TCE-SB12-11	TCE-SB12-DUP	TCE-SB12-16	TCE-SB12-18	TCE-SB12-23
Sample Date:				9/22/20	9/22/20	9/22/20	9/22/20	9/29/20	9/29/20	9/29/20	9/29/20	9/29/20
Volatile Organic Compounds (VOC) (ug/kg)												
1,1-Dichloroethene	330	100000	500000	< 100	< 120	< 450	< 410	< 190	< 200	< 4.7	< 5.0	< 4.1
1,2-Dichloroethane	20	2300	30000	< 100	< 120	< 450	< 410	< 190	< 200	< 4.7 UJ	< 5.0	< 4.1
1,4-Dioxane	100	9800	130000	< 2000	< 2200	< 8500	< 7800	< 3600	< 3800	< 94	< 100	< 83
Acetone	50	100000	500000	< 520	< 590	< 2200	< 2000	< 950	< 1000	**6.3 J**	**5.4 J**	**4.5 J**
Benzene	60	2900	44000	< 100	< 120	< 450	< 410	< 190	< 200	< 4.7	< 5.0	< 4.1
Chloroform	370	10000	350000	< 100	< 120	< 450	< 410	< 190	< 200	< 4.7	< 5.0	< 4.1
cis-1,2-Dichloroethene	250	59000	500000	< 100	< 120	< 450	< 410	**320**	**240**	< 4.7	< 5.0	< 4.1
Methyl acetate				< 520	< 590	< 2200	< 2000	< 950	< 1000	< 23	< 25	< 21
Methylene Chloride	50	51000	500000	< 100	< 120	< 450	< 410	< 190	< 200	< 4.7	< 5.0	< 4.1
Tetrachloroethene	1300	5500	150000	**43 J**	**91 J**	**220 J**	< 410	< 190	< 200	< 4.7 UJ	< 5.0	< 4.1
Tetrahydrofuran				< 210	< 230	< 890	< 820	< 380	< 400	< 9.4	< 10	< 8.3
trans-1,2-Dichloroethene	190	100000	500000	< 100	< 120	< 450	< 410	**110 J**	**110 J**	< 4.7 UJ	< 5.0	< 4.1
Trichloroethene	470	10000	200000	**2800**	**8100**	**24000**	**35000**	**12000**	**7700**	< 4.7	< 5.0	< 4.1
Vinyl chloride	20	210	13000	< 100	< 120	< 450	< 410	< 190 UJ	< 200 UJ	< 4.7	< 5.0	< 4.1
Xylenes, Total	260	100000	500000	< 210	< 230	< 890	< 820	< 380	< 400	< 9.4 UJ	< 10	< 8.3

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB13							
Sample Depth (ft bgs):				4	6	8	10	12	16	18	21
Sample ID:				TCE-SB13(4')	TCE-SB13(6')	TCE-SB13(8')	TCE-SB13(10')	TCE-SB13-12	TCE-SB13-16	TCE-SB13-18	TCE-SB13-21
Sample Date:				9/22/20	9/22/20	9/22/20	9/22/20	9/28/20	9/28/20	9/28/20	9/28/20
Volatile Organic Compounds (VOC) (ug/kg)											
1,1-Dichloroethene	330	100000	500000	< 1700	< 870	< 870	< 850	< 5.3	< 100	< 4.9	< 5.6
1,2-Dichloroethane	20	2300	30000	< 1700	< 870	< 870	< 850	< 5.3	< 100	< 4.9	< 5.6
1,4-Dioxane	100	9800	130000	< 33000	< 17000	< 17000	< 16000	< 110	< 2000	< 98	< 110
Acetone	50	100000	500000	< 8700	< 4400	< 4400	< 4300	**6.6 J**	< 520	**6.0 J**	**6.4 J**
Benzene	60	2900	44000	< 1700	< 870	< 870	< 850	< 5.3	< 100	< 4.9	< 5.6
Chloroform	370	10000	350000	< 1700	< 870	< 870	< 850	< 5.3	< 100	< 4.9	< 5.6
cis-1,2-Dichloroethene	250	59000	500000	< 1700	< 870	< 870	**730 J**	**1.5 J**	**470**	**1.2 J**	< 5.6
Methyl acetate				< 8700	< 4400	< 4400	< 4300	< 26	< 520 UJ	< 25	< 28
Methylene Chloride	50	51000	500000	< 1700	< 870	< 870	< 850	< 5.3 U	< 100 U	< 4.9	< 5.6 U
Tetrachloroethene	1300	5500	150000	**660 J**	< 870	< 870	< 850	< 5.3	< 100	< 4.9	< 5.6
Tetrahydrofuran				< 3500	< 1700	< 1700	< 1700	< 11	< 210	< 9.8	< 11
trans-1,2-Dichloroethene	190	100000	500000	< 1700	< 870	< 870	< 850	< 5.3	**330**	< 4.9	< 5.6
Trichloroethene	470	10000	200000	**65000**	**65000**	**56000**	**52000**	**2.3 J**	**2400**	< 4.9	< 5.6
Vinyl chloride	20	210	13000	< 1700	< 870	< 870	< 850	< 5.3	< 100 UJ	< 4.9	< 5.6
Xylenes, Total	260	100000	500000	< 3500	< 1700	< 1700	< 1700	< 11	< 210	< 9.8	< 11

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	TCE-SB14					TCE-SB15				
Sample Depth (ft bgs):				7	9	13	15	18	5	8	12	17	21
Sample ID:				TCE-SB14(7-8)	TCE-SB14-9	TCE-SB14-13	TCE-SB14-15	TCE-SB14-18	TCE-SB15 (5-6)	TCE-SB15 (8-9)	TCE-SB15-12	TCE-SB15-17	TCE-SB15-21
Sample Date:				9/23/20	9/30/20	9/30/20	9/30/20	9/30/20	9/24/20	9/24/20	9/30/20	9/30/20	9/30/20
Volatile Organic Compounds (VOC) (ug/kg)													
1,1-Dichloroethene	330	100000	500000	< 4.5	< 4.5	< 86	< 96	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	< 120
1,2-Dichloroethane	20	2300	30000	< 4.5	< 4.5	**460**	**730**	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	**5700**
1,4-Dioxane	100	9800	130000	< 90	< 91 UJ	< 1600	< 1800	< 140	< 86	< 92	< 89 UJ	< 89	< 2300
Acetone	50	100000	500000	< 23	**5.6 J**	< 430	< 480	< 36	< 22	**4.0 J**	**5.1 J-**	**5.8 J**	< 600
Benzene	60	2900	44000	< 4.5	< 4.5	< 86	< 96	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	**130**
Chloroform	370	10000	350000	**1.1 J**	< 4.5	< 86	< 96	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	< 120
cis-1,2-Dichloroethene	250	59000	500000	< 4.5	< 4.5	**550**	**1100**	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	**250**
Methyl acetate				< 23	< 23	< 430	< 480	< 36	< 22	< 23	< 22 UJ	< 22	< 600
Methylene Chloride	50	51000	500000	< 4.5	< 4.5	< 86 UJ	< 96 UJ	< 7.1	< 4.3	**2.4 J**	< 4.5 UJ	< 4.5	< 120 UJ
Tetrachloroethene	1300	5500	150000	< 4.5 UJ	< 4.5	< 86	< 96	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	< 120
Tetrahydrofuran				< 9.0	< 9.1	< 170	< 190	< 14	< 8.6	< 9.2	< 8.9 UJ	< 8.9	< 240
trans-1,2-Dichloroethene	190	100000	500000	< 4.5	< 4.5	**880**	**1100**	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	**89 J**
Trichloroethene	470	10000	200000	< 4.5	< 4.5	**31000**	**31000**	< 7.1	< 4.3	< 4.6	< 4.5 UJ	< 4.5	**150**
Vinyl chloride	20	210	13000	< 4.5	< 4.5	< 86	< 96	< 7.1	< 4.3 UJ	< 4.6	< 4.5 UJ	< 4.5	< 120
Xylenes, Total	260	100000	500000	< 9.0	< 9.1	< 170	< 190	< 14	< 8.6	< 9.2	< 8.9 UJ	< 8.9	< 240

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

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Table 4-3
SWMU-7D Soil Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Location	NYSDEC Unrestricted Use and Protection of Groundwater	NYSDEC Restricted Use - Residential	NYSDEC Restricted Use - Commercial	MW-41			MW-42			MW-43			
Sample Depth (ft bgs):				13	17	20	13	17	22	13	13	17	20
Sample ID:				MW41-13	MW41-17	MW41-20	MW42-13	MW42-17	MW42-22	MW43-13	MW43-DUP	MW43-17	MW43-20
Sample Date:				10/2/20	10/2/20	10/2/20	10/5/20	10/5/20	10/5/20	10/1/20	10/1/20	10/1/20	10/1/20
Volatile Organic Compounds (VOC) (ug/kg)													
1,1-Dichloroethene	330	100000	500000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
1,2-Dichloroethane	20	2300	30000	< 4.6	**2100**	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
1,4-Dioxane	100	9800	130000	< 93	< 1600	< 89	< 85	< 90	< 91	< 88	< 84	< 90	< 83 UJ
Acetone	50	100000	500000	**12 J**	< 430	**8.4 J**	**4.1 J**	**3.9 J**	**4.3 J**	**6.1 J**	**4.4 J**	**7.4 J**	**4.6 J-**
Benzene	60	2900	44000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
Chloroform	370	10000	350000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
cis-1,2-Dichloroethene	250	59000	500000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
Methyl acetate				< 23	< 430	< 22	< 21	< 23	< 23	< 22	< 21	< 23	< 21 UJ
Methylene Chloride	50	51000	500000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	**2.5 J**	< 4.4	< 4.2	< 4.5 UJ	< 4.2 UJ
Tetrachloroethene	1300	5500	150000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
Tetrahydrofuran				< 9.3	< 170 UJ	< 8.9	< 8.5	< 9.0	< 9.1	< 8.8	< 8.4	< 9.0	< 8.3 UJ
trans-1,2-Dichloroethene	190	100000	500000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
Trichloroethene	470	10000	200000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	**27 J**	< 4.2 UJ
Vinyl chloride	20	210	13000	< 4.6	< 86	< 4.4	< 4.3	< 4.5	< 4.5	< 4.4	< 4.2	< 4.5	< 4.2 UJ
Xylenes, Total	260	100000	500000	< 9.3	< 170	< 8.9	< 8.5	< 9.0	< 9.1	< 8.8	< 8.4	< 9.0	< 8.3 UJ

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))

Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

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Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-1S	12/9/2010	On-Site	Shallow	<1	**1.0**	<1	<1	**6.3**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**1.5**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**1.2**	ND	ND
MW-1S	3/22/2011	On-Site	Shallow	<1	<1	<1	<1	**4.0**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	6/29/2011	On-Site	Shallow	<1	**0.30 J**	<1	<1	**4.0**	<1	<10	ND	<10 U	**0.61 J**	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	9/28/2011	On-Site	Shallow	<1	<1	<1	<1	**6.0**	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	12/13/2011	On-Site	Shallow	<1	**0.37 J**	<1	<1	**4.2**	<1	<10	ND	<10	0.46 J	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	3/14/2012	On-Site	Shallow	<1	<1	<1	<1	**3.1**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	7/17/2014	On-Site	Shallow	<1	<1	<1	<1	**2.4**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	7/28/2015	On-Site	Shallow	<1	<1	<1	<1	**2.5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	5/10/2016	On-Site	Shallow	<1	<1	<1	<1	**2.1 UJ**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1 UJ	ND	ND
MW-1S	4/6/2017	On-Site	Shallow	<1	<1	<1	<1	**3.5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	5/15/2018	On-Site	Shallow	<1	<1	<1	<1 UJ	**1.4**	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-1S	5/13/2019	On-Site	Shallow	<1	<1	<1	<1	**3.1**	<1	<10 J	ND	**3.4 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1	11/14/2006	On-Site	Deep	<5	**2DJ**	**1BDJ**	<5	<5	<5	<10	ND	**5DJ**	**0.5J**	<5	ND	<5	<5	<5	**4DJ**	<5	<5	**0.5J**	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	**120D**	ND	ND
MW-1A	11/14/2006	On-Site	Deep	<5	**2J**	<5	<5	<5	<5	<10	ND	**6DJ**	**0.5J**	<5	ND	<5	<5	<5	**2DJ**	<5	<5	<5	ND	ND	<5	<5	**4DJ**	<5	<5	<5	<5	ND	**47D**	ND	ND
MW-1	8/16/2007	On-Site	Deep	<5	**2J**	<5	<5	**4J**	<5	<10	ND	<10	**0.7J**	<5	ND	<5	<5	<5	**1J**	<5	<5	**0.6J**	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	**55**	ND	ND
MW-1	10/8/2007	On-Site	Deep	<5	**2J**	<5	<5	**8**	<5	<10	ND	<10	**0.9J**	<5	ND	<5	<5	<5	**3J**	<5	<5	**0.7J**	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	**47**	ND	ND
MW-1	10/13/2009	On-Site	Deep	<5	**1.4 J**	<5	<5	**7.9**	<5	<10	ND	<10	**0.72 J**	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	**30**	ND	ND
MW-1	12/8/2010	On-Site	Deep	<1	**1.7**	<1	<1	**6.8**	<1	<10	ND	<10	**0.67 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**30**	ND	ND
MW-1	3/22/2011	On-Site	Deep	<1	**1.2**	<1	<1	**5.9**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**21**	ND	ND
MW-1	6/29/2011	On-Site	Deep	<1	**1.4**	<1	<1	**6.1**	<1	<10	ND	<10 U	**0.60 J**	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**24**	ND	ND
MW-1	9/28/2011	On-Site	Deep	<1	**1.5**	<1	<1	**7.2**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**24**	ND	ND
MW-1	12/14/2011	On-Site	Deep	<1	**1.5**	<1	<1	**7.4**	<1	<10	ND	<10	**0.72 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**32**	ND	ND
MW-1	3/14/2012	On-Site	Deep	<1	**1.1**	<1	<1	**5.1**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**23**	ND	ND
MW-1	11/6/2012	On-Site	Deep	<1	**1.4**	<1	<1	**7.6**	<1	<10	ND	3.1 J	**0.66 J**	<1	ND	<1	<1	<1	**0.35 J**	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**29**	ND	ND
MW-1	10/9/2013	On-Site	Deep	<1	**1.8**	<1	<1	**8.2**	<1	<10	ND	<10	**0.79 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**31**	ND	ND
MW-1	7/17/2014	On-Site	Deep	<1	**1.2**	<1	<1	**6.6**	<1	<10	ND	<10	**0.63 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**18**	ND	ND
MW-1	7/28/2015	On-Site	Deep	<1	**1**	<1	<1	**6.3**	<1	<10	ND	<10	**0.71 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**12**	ND	ND
MW-1	5/10/2016	On-Site	Deep	<1	**0.89 J**	<1	<1	**4.6 UJ**	<1	<10	ND	<10	**0.55 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	**9 UJ**	ND	ND
MW-1	4/6/2017	On-Site	Deep	<1	<10	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-1	5/15/2018	On-Site	Deep	<1	**0.30 J**	<1	<1	**1.9**	<1	<50 R	ND	<25 R	**0.25 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	**1.0 JB**	<1	<1	<1	<1	ND	**2.4**	ND	ND
MW-1	5/15/2019	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	**3.7 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	**<1**	<1	<1	<1	<1	ND	<1	ND	ND
MW-2	11/13/2006	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-2	10/10/2007	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-3S	12/16/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**28**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-3S	3/22/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-3	11/13/2006	On-Site	Deep	<5	<5	<5	<5	**360D**	<5	<10	ND	<10	**0.9J**	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	**2J**	<5	<5	<5	<5	<5	<5	ND	**0.7J**	ND	ND
MW-3	8/13/2007	On-Site	Deep	<5	<5	**2J**	**1J**	**700D**	<5	<10	ND	<10	**3J**	<5	ND	**4BJ**	<5	<5	<5	<5	<5	<5	ND	ND	**0.6J**	<5	<5	<5	<5	<5	<5	ND	**1J**	ND	ND
MW-3A	8/13/2007	On-Site	Deep	<5	<5	**0.6J**	<5	**740D**	<5	<10	ND	<10	**3J**	<5	ND	**4BJ**	<5	<5	<5	<5	<5	<5	ND	ND	**0.7J**	<5	<5	<5	<5	<5	<5	ND	**1J**	ND	ND
MW-3	10/8/2007	On-Site	Deep	<40	<40	<40	<40	**620**	<40	<40	ND	<80	<40	<40	ND	<40	<40	<40	<40	<40	<40	<40	ND	ND	<40	<40	<40	<40	<40	<40	<40	ND	<40	ND	ND
MW-3	10/13/2009	On-Site	Deep	<5	<5	<5	<5	**580**	<5	<10	ND	<10	**3.1 J**	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	**0.71 J**	ND	ND
MW-3	12/10/2010	On-Site	Deep	<10	<10	<10	<10	**740 D**	<10	<100 UJ	ND	<100	<10	<10	ND	<10	<10	<10	<10	<10	<10	<10	ND	ND	<10	<10	<10	<10	<10	<10	<10	ND	<10	ND	ND
MW-3	3/22/2011	On-Site	Deep	<1	<1	<1	<1	**220 D**	<1	<10	ND	<10	**1.2**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-3	6/28/2011	On-Site	Deep	<4	<4	<4	<4	**620 D**	<4	<40	ND	<40	**3.6 J**	<4	ND	<4	1.3 UJ	<4	<4	<4	<4	<4	ND	ND	<4	<4	<4	<4	<4	<4	<4	ND	<4	ND	ND
MW-3	11/6/2011	On-Site	Deep	<4	<4	<4	<4	**190**	<4	<40	ND	<40	<4	<4	ND	<4	<4	<4	0.65 J	<4	<4	<4	ND	ND	1.0 J	<4	1.0 J	<4	<4	<4	<4	ND	<4	ND	ND
MW-3	7/28/2015	On-Site	Deep	<2	<2	<2	<2	**140**	<2	<20	ND	<20	<2	<2	ND	<2	<2	<2	<2	<2	<2	<2	ND	ND	<2	<2	<2	<2	<2	<2	<2	ND	<2	ND	ND
MW-3	5/9/2016	On-Site	Deep	<1	<1	<1	<1	**81 UJ**	<1	<10	ND	<10	**1.2**	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1 UJ	ND	ND
MW-3	4/4/2017	On-Site	Deep	<1	<1	<1	<1	**71**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-3	5/15/2018	On-Site	Deep	<1	<1	<1	<1 UJ	**31**	<1	<50 R	ND	<25 J	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	1.2 U JB	<1	<1	<1	<1	ND	<1	ND	ND
MW-4	11/14/2006	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-5S	12/14/2010	On-Site	Shallow	<1	<1	<1	<1	**2.2**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**0.64 J**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	3/23/2011	On-Site	Shallow	<1	<1	<1	<1	**1.3**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1 UJ	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	6/30/2011	On-Site	Shallow	<1	<1	<1	<1	<1UJ	<1	<10	ND	<10 UJ	<1	<1UJ	ND	<1	<1	<1UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	9/29/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	12/14/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1UJ	<1	<1	<1	<1	<1	<1UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	3/15/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	7/29/2015	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	5/5/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-5S	4/6/2017	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**3.5 U**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	**0.98 J**	<1	<1	<1	ND	<1	ND	ND
MW-5S	5/16/2018	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	<5	**0.32 J**	<1	<1	<1	ND	<1	ND	ND
MW-5S	5/16/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**3.7 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	**0.44 J**	<1	<1	<1	<1	ND	<1	ND	ND
MW-5	11/13/2006	On-Site	Deep	<5	**6DJ**	<5	<5	**250D**	<5	<10	ND	<10	**1J**	<5	ND	<5	<5	<5	<5	<5	<5	**520D**	ND	ND	**2J**	<5	<5	<5	<5	**27DJ**	**10DJ**	ND	**5DJ**	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																													
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-5	8/14/2007	On-Site	Deep	<5	**5**	<5	<5	**200D**	<5	<10	ND	<10	**1J**	<5	ND	<5	<5	<5	<5	<5	<5	**340D**	ND	ND	**2J**	<5	<5	<5	<5	**19**	**2J**	ND	**3J**	ND	ND
MW-5	10/8/2007	On-Site	Deep	<20	**4J**	<20	<20	**190**	<20	<20	ND	<40	<20	<20	ND	<20	<20	<20	<20	<20	<20	**330**	ND	ND	<20	<20	<20	<20	<20	**16J**	**2J**	ND	**3J**	ND	ND
MW-5	4/14/2008	On-Site	Deep	<20	**4DJ**	<20	<20	**230D**	<20	<20	ND	<40	<20	<20	ND	<20	<20	<20	<20	<20	<20	**310D**	ND	ND	<20	<20	<20	<20	<20	**15DJ**	<20	ND	**3DJ**	ND	ND
MW-5	10/14/2009	On-Site	Deep	<5	**3.4 J**	<5	<5	**190**	<5	<10	ND	<10	**0.92 J**	<5	ND	<5	<5	<5	<5	<5	<5	**340**	ND	ND	**1.2 J**	<5	<5	<5	<5	**17 J**	**1.2 J**	ND	**6.5**	ND	ND
MW-5	12/8/2010	On-Site	Deep	<8	<8	<8	<8	**160 D**	<8	<80	ND	<80	<8	<8	ND	<8	<8	<8	<8	<8	<8	**340 D**	ND	ND	<8	<8	<8	<8	<8	**15 D**	<8	ND	**8 D**	ND	ND
MW-5	3/23/2011	On-Site	Deep	<1	**2.2**	<1	<1	**120**	<1	<10	ND	<10	**0.59 J**	<1	ND	<1	<1	<1	<1 UJ	<1	<1	**250**	ND	ND	**0.89 J**	<1	<1	<1	<1	**11**	**0.90 J**	ND	**4.5**	ND	ND
MW-5	7/5/2011	On-Site	Deep	<1	**2.5**	<1	<1	**180 D**	<1	<10 UJ	ND	<10 UJ	**0.75 J**	<1	ND	<1	<1	<1	<1	<1	<1	**270 D**	ND	ND	**1.1**	<1	<1	<1	<1	**14**	**1.2**	ND	**6.3**	ND	ND
MW-5	9/29/2011	On-Site	Deep	<4	**2.3 J**	<4	<4	**180**	<4	<40	ND	<40	**0.75 J**	<4	ND	<4	<4	<4	<4	<4	<4	**320**	ND	ND	**1.7 J**	<4	<4	<4	<4	**14**	<4	ND	**5.0**	ND	ND
MW-5	12/14/2011	On-Site	Deep	<1	**2.1**	<1	<1	**140**	<1	<10 UJ	ND	<10 UJ	**0.70 J**	<1	ND	<1 UJ	<1	<1	<1	<1	<1 UJ	**270**	ND	ND	**1.6**	<1	<1	<1	<1	**12**	**0.62 J**	ND	**9.5**	ND	ND
MW-5	3/15/2012	On-Site	Deep	<1	<1	<1	<1	**140**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**220**	ND	ND	<1	<1	<1	<1	<1	**9.5**	<1	ND	**5.1**	ND	ND
MW-5	11/6/2012	On-Site	Deep	<1	**2.7 J**	<1	<1	**170**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**260**	ND	ND	2.4 J	<1	<1	<1	<1	**12**	<1	ND	**6.2**	ND	ND
MW-5	10/10/2013	On-Site	Deep	<1	<1	<1	<1	**180**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**290**	ND	ND	<1	<1	<1	<1	<1	**11**	<1	ND	**6.3**	ND	ND
MW-5	7/29/2015	On-Site	Deep	<1	**2.5**	<1	<1	**140**	<1	<10	ND	<10	**0.73 J**	<1	ND	<1	<1	<1	<1	<1	<1	**320**	ND	ND	**1.3**	<1	<1	<1	<1	**14**	<1	ND	**6.1**	ND	ND
MW-5	5/5/2016	On-Site	Deep	<4	<4	<4	<4	**120**	<4	<40 UJ	ND	<40 UJ	<4	<4	ND	<4 UJ	<4	<4	<4 UJ	<4	<4	**200**	ND	ND	<4	<4	**3.4 J**	<4	<4	**7.7**	<4	ND	**4**	ND	ND
MW-5	4/6/2017	On-Site	Deep	<4	**1.3 J**	<4	<4	**110**	<4	<40	ND	<40	<4	<4	ND	<4	<4	<4	<4	<4	<4	**220**	ND	ND	**1.0 J**	<4	**<4**	<4	<4	**10**	<4	ND	**8.2**	ND	ND
MW-5	5/17/2018	On-Site	Deep	<1	**0.91 J**	<1	<1	**60**	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	**180**	ND	ND	**0.62 J**	<5	<5	<1	<1	**7.7**	**0.55 J**	ND	**5.1**	ND	ND
MW-5	5/15/2019	On-Site	Deep	<1	**2.5**	<1	<1	**140 E**	<1	<10	ND	**4.2 J**	**0.65 J**	<1	ND	<1	<8	<1	<1 J	<1	<1	**260 EJ**	ND	ND	**0.58 J**	<1	<1	<1	<1	**12**	**1.4**	ND	**18 J**	ND	ND
MW-6	11/13/2006	On-Site	Deep	<5	<5	<5	<5	**14**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	**1J**	<5	**16**	ND	ND	<5	<5	<5	<5	<5	**1J**	**0.9J**	ND	<5	ND	ND
MW-6	8/15/2007	On-Site	Deep	<5	<5	<5	<5	**13**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	**16**	ND	ND	<5	<5	<5	<5	<5	**1J**	**1J**	ND	<5	ND	ND
MW-6	10/8/2007	On-Site	Deep	<5	<5	<5	<5	**14**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	**17**	ND	ND	<5	<5	<5	<5	<5	**1J**	**1J**	ND	<5	ND	ND
MW-6A	10/8/2007	On-Site	Deep	<5	<5	<5	<5	**14**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	**17**	ND	ND	<5	<5	<5	<5	<5	**1J**	**1J**	ND	<5	ND	ND
MW-6	4/14/2008	On-Site	Deep	<5	<5	<5	<5	**12**	<5	<10	ND	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	**16**	ND	ND	<5	<5	<5	<5	<5	**1J**	**0.9J**	ND	<5	ND	ND
MW-6	10/14/2009	On-Site	Deep	<0.5	**0.29 J**	<0.5	<0.5	**14**	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	**16**	ND	ND	NA	NA	<0.5	<0.5	<0.5	**1.3**	**0.80**	ND	**0.24 J**	ND	ND
MW-6	10/14/2009	On-Site	Deep	<5	<5	<5	<5	**13**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	**15**	ND	ND	<5	<5	<5	<5	<5	**1.0 J**	**0.89 J**	ND	<5	ND	ND
MW-6	12/10/2010	On-Site	Deep	<1	<1	<1	<1	**11**	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**15**	ND	ND	<1	<1	<1	<1	<1	<1	**0.74 J**	ND	<1	ND	ND
MW-6	3/22/2011	On-Site	Deep	<1	<1	<1	<1	**9.0**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**12**	ND	ND	<1	<1	<1	<1	<1	<1	**0.70 J**	ND	<1	ND	ND
MW-6	7/1/2011	On-Site	Deep	<1	<1	<1	<1	**13**	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**14**	ND	ND	<1	<1	<1	<1	<1	<1	**0.82 J**	ND	<1	ND	ND
MW-6	9/29/2011	On-Site	Deep	<1	<1	<1	<1	**12**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**14**	ND	ND	<1	<1	<1	<1	<1	**0.94 J**	**0.85 J**	ND	<1	ND	ND
MW-6	12/15/2011	On-Site	Deep	<1 UJ	<1	<1	<1	**12**	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**12**	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-6	3/15/2012	On-Site	Deep	<1	<1	<1	<1	**11**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**13**	ND	ND	<1	<1	<1	<1	<1	<1	**0.67 J**	ND	<1	ND	ND
MW-6	7/29/2015	On-Site	Deep	<1	<1	<1	<1	**14**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**17**	ND	ND	<1	<1	<1	<1	<1	<1	**0.51 J**	ND	<1	ND	ND
MW-6	5/4/2016	On-Site	Deep	<1	<1	<1	<1	**8.8**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	**12**	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-6	4/6/2017	On-Site	Deep	<1	<1	<1	<1	**7.5**	<1	<10	ND	**9.0 U**	<1	<1	ND	<1	<1	<1	<1	<1	<1	**12**	ND	ND	<1	<1	<1	<1	<1	<1	**0.47 J**	ND	<1	ND	ND
MW-6	5/16/2018	On-Site	Deep	<1	<1	<1	<1	**8.0**	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1 UJ	**9.5**	ND	ND	<1	<5	<5	<1	<1	**0.55 J**	**0.31 J**	ND	<1	ND	ND
MW-6	5/14/2019	On-Site	Deep	<1	<1	<1	<1	**7.4**	<1	<1	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**9.7**	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	11/13/2006	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-7	10/8/2007	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-7	10/13/2009	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-7	10/13/2009	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-7	12/8/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	3/21/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	6/28/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	9/27/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	12/13/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	3/13/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	7/27/2015	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	5/5/2016	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	**3.5 UJ**	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	4/4/2017	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	5/14/2018	On-Site	Deep	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	**5.5 JR**	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	1.2 U JB	<1	<1	<1	<1	ND	<1	ND	ND
MW-7	5/14/2019	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.62J**	<1 J	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-8	11/14/2006	On-Site	Deep	<5	<5	<5	<5	**4DJ**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	**2DJ**	<5	**180D**	ND	ND	<5	<5	<5	<5	<5	**3DJ**	**15DJ**	ND	**3DJ**	ND	ND
MW-8	8/15/2007	On-Site	Deep	<5	<5	<5	<5	**8J**	<5	<10	ND	<10	<5	<5	ND	**14BJ**	<5	<5	<5	<5	<5	**260**	ND	ND	<5	<5	<5	<5	<5	**6J**	**16J**	ND	**5J**	ND	ND
MW-8	10/10/2007	On-Site	Deep	<10	<10	<10	<10	**5**	<10	<10	ND	<20	<10	<10	ND	<10	<10	**0.7J**	<10	**1J**	<10	**180D**	ND	ND	<10	<10	<10	<10	<10	**3J**	**13**	ND	**2J**	ND	ND
MW-8	4/14/2008	On-Site	Deep	<10	<10	<10	<10	**2DJ**	<10	<10	ND	<20	<10	<10	ND	<10	<10	**2DJ**	<10	**1DJ**	<10	**140D**	ND	ND	<10	<10	<10	<10	<10	**2DJ**	**20D**	ND	<10	ND	ND
MW-8	10/14/2009	On-Site	Deep	<5	<5	**1.9 J**	**1.1 J**	**5.3 J**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	**0.70 J**	<5	**230**	ND	ND	<5	<5	<5	<5	<5	**3.8 J**	**13 J**	ND	**2.4 J**	ND	ND
MW-8	12/7/2010	On-Site	Deep	<4	<4	<4	<4	**4.1 D**	<4	<40	ND	<40 UJ	<4	<4	ND	<4	<4	<4	<4	<4	<4	**200 D**	ND	ND	<4	<4	<4	<4	<4	<4	**19 D**	ND	<4	ND	ND
MW-8	3/24/2011	On-Site	Deep	<1	<1	<1	<1	**1.5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.57**	<1	**84**	ND	ND	<1	<1	<1	<1	<1	**1.4**	**8.9**	ND	<1	ND	ND
MW-8	7/5/2011	On-Site	Deep	<1	<1	<1	<1	**11**	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	**200 D**	ND	ND	<1	<1	<1	<1	<1	**4.3**	**15**	ND	**5.9**	ND	ND
MW-8	9/29/2011	On-Site	Deep	<4	<4	<4	<4	**6.7**	<4	<40	ND	<40	<4	<4	ND	<4	<4	<4	<4	<4	<4	**210 D**	ND	ND	<4	<4	<4	<4	<4	**3.7 DJ**	**21 D**	ND	<4.0	ND	ND
MW-8	12/19/2011	On-Site	Deep	<1	<1	<1	<1	**7.7**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.51**	<1	**180**	ND	ND	<1	<1	<1	<1	<1	**3.6**	**13**	ND	**4.7**	ND	ND
MW-8	3/15/2012	On-Site	Deep	<1	<1	<1	<1	**6.1**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**160**	ND	ND	<1	<1	<1	<1	<1	**2.9**	**9.2**	ND	**2.9**	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																													
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-8	11/7/2012	*On-Site*	*Deep*	<1	<1	<1	<1	**12.0**	<1	<10	ND	<10	<1	<1	ND	<1	1.5 J	<1	<1	0.43 J	<1	**230**	ND	ND	<1	<1	<1	<1	<1	**4.8**	**11**	ND	**6**	ND	ND
MW-8	10/8/2013	*On-Site*	*Deep*	<1	<1	<1	<1	**11.0**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**230**	ND	ND	<1	<1	**3.0 J**	<1	<1	**4.2**	**10**	ND	**3.9 J**	ND	ND
MW-8	7/31/2015	*On-Site*	*Deep*	<1	<1	<1	<1	**12.0**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**200**	ND	ND	<1	<1	<1	<1	<1	**4.5**	**9.1**	ND	**4.7**	ND	ND
MW-8	5/4/2016	*On-Site*	*Deep*	<4	<4	<4	<4	**6.9**	<4	<40	ND	<40	<4	<4	ND	<4	<4	<4	<4	<4	<4 UJ	**180**	ND	ND	<4	<4	<4	<4	<4	**3.6 J**	**8.6**	ND	<4	ND	ND
MW-8	8/10/2016	*On-Site*	*Deep*	<4	**0.38 J**	<4	<4	**13.0**	<4	<40	ND	<40 J/UJ	<4	<4	ND	<4	<4	**0.41 J**	<4	**0.45 J**	<4	**200 F1**	ND	ND	<4	<4	<4 J/UJ	<4	<4	**5**	**8.4**	ND	**5.5**	ND	ND
MW-8	10/19/2016	*On-Site*	*Deep*	<4	<4 UJ	<4	<4	**14.0**	<4	<4 UJ	ND	<40	<4	<4	ND	<4	<4	<4	<4	<4	<4	**230**	ND	ND	<4	<4	<4	<4	<4	**5.6**	**9.8**	ND	**4.8**	ND	ND
MW-8	4/7/2017	*On-Site*	*Deep*	<1	<1	<1	<1	**0.95 J**	<1	<1	ND	**3.3 UJ**	<1	<1	ND	<1	<1	<1	<1	**0.36 J**	<1	**66**	ND	ND	<1	<1	<1	<1	<1	**1.6**	**8.1**	ND	<1	ND	ND
MW-8	5/17/2018	*On-Site*	*Deep*	<1	<1	<1	<1	**0.46 R**	<1	<50	ND	**3.1 JR**	<1	<1	ND	<1	<1	**0.35 J**	<1	**0.61 J**	<1	**130**	ND	ND	<1	<5	**1.2 JB**	<1	<1	**4.8 R**	**24**	ND	<1	ND	ND
MW-8	5/16/2019	*On-Site*	*Deep*	<1	<1	<1	<1	**0.52 J**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.78 J**	<1	<1	<1	**150 E**	ND	ND	<1	<1	**0.56 J**	<1	<1	**3.8**	**39**	ND	<1	ND	ND
MW-9S	10/16/2009	*On-Site*	*Shallow*	<0.5	<0.5	<0.5	<0.5	**0.24 J**	<0.5	NA	ND	NA	**0.22 J**	<0.5	ND	<0.5	NA	**1.6**	<0.5	**3.8**	<0.5	**0.65**	ND	ND	NA	NA	<0.5	**0.53**	<0.5	<0.5	**0.56**	ND	<0.5	ND	ND
MW-9S	10/16/2009	*On-Site*	*Shallow*	<5	<5	<5	<5	<5	<5	<10	ND	<10 U	<5	<5	ND	<5	<5	**1.6 J**	<5	**3.5 J**	<5	**0.59 J**	ND	ND	<5	<5	<5	**0.53 J**	<5	<5	<5	ND	<5	ND	ND
MW-9S	12/8/2010	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	**0.59 J**	<1	<1	**0.58 J**	ND	<1	ND	ND
MW-9S	3/29/2011	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	7/6/2011	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	**0.95 J**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**0.57 J**	ND	<1	ND	ND
MW-9S	10/4/2011	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1 UJ	<1	**0.95 J**	<1	<1	ND	ND	<1	<1	<1	**0.48 J**	<1	<1	<1	ND	<1	ND	ND
MW-9S	12/21/2011	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1	**0.45 J**	<1	<1	<1	ND	<1	ND	ND
MW-9S	3/20/2012	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	**4.4 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	11/8/2012	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	10/10/2013	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	**31**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**0.56 J**	ND	<1 UJ	ND	ND
MW-9S	12/10/2013	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.76 J**	<1	**0.44 J**	<1	<1	ND	ND	<1	<1	<1	**0.37 J**	<1	<1	**0.61 J**	ND	<1	ND	ND
MW-9S	7/16/2014	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	**5.6 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	7/31/2015	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	**3.9 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	5/5/2016	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	8/9/2016	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	**4.2 UJ**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	10/19/2016	*On-Site*	*Shallow*	<1	<1 UJ	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	4/12/2017	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	**0.50 J**	<1 UJ	<1	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1 UJ	ND	ND
MW-9S	5/17/2018	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	**0.28 J**	<1	<1	<1	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-9S	5/16/2019	*On-Site*	*Shallow*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	**0.81 J**	ND	<1	<1	<1	<1	**14**	<1	<1	ND	ND	<1	<1	**0.49 J**	<1	<1	<1	<1	ND	<1	ND	ND
MW-9	8/15/2007	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	**9**	<5	**23**	<5	**0.9J**	ND	ND	<5	<5	<5	<5	<5	<5	**0.6J**	ND	<5	ND	ND
MW-9	10/8/2007	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	**32**	<5	**44**	<5	**1J**	ND	ND	<5	<5	<5	<5	<5	<5	**2J**	ND	<5	ND	ND
MW-9	4/14/2008	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	**49**	<5	**56**	<5	**0.8J**	ND	ND	<5	<5	<5	<5	<5	<5	**3J**	ND	<5	ND	ND
MW-9	10/14/2009	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	**0.87 J**	**56**	<5	**46**	<5	**1.9 J**	ND	ND	<5	<5	<5	<5	<5	<5	**4.6 J**	ND	<5	ND	ND
MW-100	10/14/2009	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	**1.0 J**	**57**	<5	**48**	<5	**1.9 J**	ND	ND	<5	<5	<5	<5	<5	<5	**4.7 J**	ND	<5	ND	ND
MW-9	12/7/2010	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	**26**	<1	**28**	<1	**1.4**	ND	ND	<1	<1	<1	<1	<1	<1	**4.5**	ND	<1	ND	ND
MW-100	12/7/2010	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	**23**	<1	**24**	<1	**1.4**	ND	ND	<1	<1	<1	<1	<1	<1	**4.4**	ND	<1	ND	ND
MW-9	3/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**12**	<1 UJ	**15**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.5**	ND	<1	ND	ND
MW-100	3/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**12**	<1 UJ	**15**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.6**	ND	<1	ND	ND
MW-9	7/6/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 U	<1	<1	ND	<1	<1	**13**	<1	**12**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.3**	ND	<1	ND	ND
MW-100	7/6/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 U	<1	<1	ND	<1	<1	**14**	<1	**12**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.4**	ND	<1	ND	ND
MW-9	9/30/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**18**	<1	**16**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**3.0**	ND	<1	ND	ND
MW-100	9/30/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**17**	<1	**15**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.8**	ND	<1	ND	ND
MW-9	12/20/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**17**	<1	**19**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.8**	ND	<1	ND	ND
MW-100	12/20/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**16**	<1	**17**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.8**	ND	<1	ND	ND
MW-9	3/16/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**24**	<1	**22**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.7**	ND	<1	ND	ND
MW-100	3/16/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**18**	<1	**20**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2.8**	ND	<1	ND	ND
MW-9	11/7/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	**0.25 J**	**23**	<1	**17**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**3.4**	ND	<1	ND	ND
MW-100	11/7/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	**0.19 J**	**22**	<1	**16**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**3.3**	ND	<1	ND	ND
MW-9	10/9/2013	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	**1.7**	**160**	<1	**64**	<1	0.94 J	ND	ND	<1	<1	**2.3 J**	0.49 J	<1	<1	**8.4**	ND	<1	ND	ND
MW-9	12/10/2013	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**110**	<1	**48**	<1	<1	ND	ND	<1	<1	**0.87 J**	0.58 J	<1	<1	**6.1**	ND	<1	ND	ND
MW-9	7/16/2014	*On-Site*	*Deep*	<2	<2	<2	<2	<2	<2	<20	ND	<20	<2	<2	ND	<2	<2	**170**	<2	**35**	<2	<2	ND	ND	<2	<2	**<2**	<2	<2	<2	**2.7**	ND	<1	ND	ND
MW-9	7/30/2015	*On-Site*	*Deep*	<2	<2	<2	<2	<2	<2	<20	ND	<20	<2	<2	ND	<2	<2	**280 J**	<2	**50**	<2	<2	ND	ND	<2	<2	<2	<2	<2	<2	**4.7**	ND	<1	ND	ND
MW-100	7/30/2015	*On-Site*	*Deep*	<2	<2	<2	<2	<2	<2	<20	ND	<20	<2	<2	ND	<2 UJ	<2	**390 J**	<2 UJ	**53**	<2	<2	ND	ND	<2	<2	<2	<2	<2	<2	**5**	ND	<1	ND	ND
MW-9	5/4/2016	*On-Site*	*Deep*	<4	<4	<4	<4	<4	<4	<40	ND	<40	<4	<4	ND	<4	<4	**300**	<4	**51**	<4 UJ	<4	ND	ND	<4	<4	<4	<4	<4	<4	**4.2**	ND	<4	ND	ND
MW-100	5/4/2016	*On-Site*	*Deep*	<8	<8	<8	<8	<8	<8	<80	ND	<80	<8	<8	ND	<8	<8	**350**	<8	**55**	<8	<8	ND	ND	<8	<8	**24**	<8	<8	<8	**4.4 J**	ND	<8	ND	ND
MW-9	8/9/2016	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	**23**	<1	**7.3**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2**	ND	<1	ND	ND
MW-9	10/19/2016	*On-Site*	*Deep*	<1	<1 UJ	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	**17**	<1	**9.5**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**2**	ND	<1	ND	ND
MW-9	4/11/2017	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	**3.5**	<1	**1.6**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**0.95 J**	ND	<1	ND	ND
MW-100	4/11/2017	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	**3.2 UJ**	<1 UJ	**1.7**	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	**0.89 J**	ND	<1 UJ	ND	ND
MW-9	5/17/2018	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	**1.5**	<1	**0.35 J**	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1	**0.55 J**	ND	<1	ND	ND
MW-100	5/17/2018	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<50 R	ND	**6.5 JR**	<1	<1	ND	<1	<1	**1.7**	<1	**0.48 J**	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1 UJ	**0.64 J**	ND	<1 UJ	ND	ND
MW-9	5/16/2019	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	**0.58 J**	ND	<1	<1	**1.7**	<1	**11**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-100	5/16/2019	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	**0.56 J**	ND	<1	<1	**1.7**	<1	**11**	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	**0.46 J**	ND	<1	ND	ND
MW-10	10/8/2007	*On-Site*	*Deep*	<5	<5	<5	<5	**10**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-10	4/14/2008	*On-Site*	*Deep*	<5	<5	<5	<5	**3J**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-10	10/13/2009	*On-Site*	*Deep*	<0.5	<0.5	<0.5	<0.5	**7.6**	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-10	10/13/2009	*On-Site*	*Deep*	<5	<5	<5	<5	**6.7**	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-10	12/8/2010	*On-Site*	*Deep*	<1	<1	<1	<1	**4.4**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	3/21/2011	*On-Site*	*Deep*	<1	<1	<1	<1	**3.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	6/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	**4.2**	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	9/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	**4.2**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	12/13/2011	*On-Site*	*Deep*	<1	<1	<1	<1	**5.2**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	3/13/2012	*On-Site*	*Deep*	<1	<1	<1	<1	**3.5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	11/6/2012	*On-Site*	*Deep*	<1	<1	<1	<1	**5.5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	10/9/2013	*On-Site*	*Deep*	<1	<1	<1	<1	**5.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	7/27/2015	*On-Site*	*Deep*	<1	<1	<1	<1	**3.4**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	5/5/2016	*On-Site*	*Deep*	<1	<1	<1	<1	**2.3**	<1	<10	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	4/4/2017	*On-Site*	*Deep*	<1	<1	<1	<1	**2.3**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	5/16/2018	*On-Site*	*Deep*	<1	<1	<1	<1	**1.7**	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	ND	ND	<1	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-10	5/14/2019	*On-Site*	*Deep*	<1	<1	<1	<1	**3.1**	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 J	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	10/8/2007	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-11	10/13/2009	*On-Site*	*Deep*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-11	10/13/2009	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-11	12/10/2010	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	3/21/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	6/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	9/27/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	12/13/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	3/13/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	7/27/2015	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	5/5/2016	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	4/4/2017	*On-Site*	*Deep*	<1	<1	<1 UJ	<1 UJ	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1 UJ	<1 UJ	<1	<1 UJ	<1	<1	ND	ND	<1	<1 UJ	<1	<1 UJ	<1 UJ	<1	<1 UJ	ND	<1	ND	ND
MW-11	5/14/2018	*On-Site*	*Deep*	<1	<1	<1 F1	<1 UJ	<1	<1	<50 R	ND	**5.2 JR**	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-11	5/14/2019	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1 F1	<1	<1	<1 J	<1	ND	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	10/9/2007	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-12	10/15/2009	*On-Site*	*Deep*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-12	10/15/2009	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-12	12/6/2010	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	**1.4**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	3/22/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	**1.1**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	6/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	**3.7**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	9/27/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	**6.5**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	12/13/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	ND	**4.4**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	3/13/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	**2.7**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	7/27/2015	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	**9.8**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	5/5/2016	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10 UJ	ND	**3.0 UJ**	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	**8.6**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	4/4/2017	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	**14**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	5/14/2018	*On-Site*	*Deep*	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	ND	**15**	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-12	5/13/2019	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 J	<1	ND	ND	**24**	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	11/12/2007	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-13	10/13/2009	*On-Site*	*Deep*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-13	10/13/2009	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-13	12/6/2010	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	3/22/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	6/28/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	9/27/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	12/13/2011	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	3/13/2012	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	7/28/2015	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	5/6/2016	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	4/11/2017	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	**5.7 U**	<1	<1	ND	<1 UJ	<1	<1	<1 F1	<1	<1	<1	<1	ND	ND	<1	<1 F2	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	5/15/2018	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-13	5/13/2019	*On-Site*	*Deep*	<1	<1	<1	<1	<1	<1	<10	ND	**3.1 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	10/9/2007	*On-Site*	*Deep*	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-14	10/13/2009	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-14	10/13/2009	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-14	12/6/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	3/22/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	6/28/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	9/28/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	12/13/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	3/13/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	11/6/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	10/9/2013	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	7/28/2015	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	5/5/2016	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	4/6/2017	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	5/15/2018	On-Site	Deep	<1	<1	<1 UJ	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	<5	<1	<1	<1	<1	ND	<1	ND	ND
MW-14	5/14/2019	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	10/9/2007	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-15	10/14/2009	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	ND	ND
MW-15	10/14/2009	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	ND	ND	<5	<5	<5	<5	<5	<5	<5	ND	<5	ND	ND
MW-15	12/9/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	3/22/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	6/30/2011	On-Site	Deep	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	ND	ND	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	9/28/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	12/13/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1 UJ	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	3/14/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	7/31/2015	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	5/6/2016	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	4/6/2017	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	**4.6 U**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-15	5/16/2018	On-Site	Deep	<1	<1	<1 UJ	<1 UJ	<1	<1	<50 R	ND	**5.1 JR**	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND	<1	<5	<1.15 B	<1	<1	<1	<1 UJ	ND	<1	ND	ND
MW-15	5/13/2019	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10 J	ND	**<10**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 J	<1	ND	ND	<1	<1	<1	<1	<1	<1	<1	ND	<1	ND	ND
MW-16S	3/16/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-16S	7/24/2015	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**12**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-16S	4/12/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**23 J**	<1	<1	<1	<1	<1	<1	<1 UJ	**0.39 J**	<1 UJ	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1 UJ	<2	ND
MW-16S	5/16/2018	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<50 R	<10	**11 JR**	<1	<1	<1	<1	<1	<1	<1 UJ	**0.25J**	<1 UJ	<1	ND	<1	<1	<5	<5	<1	<1	<1	<1	ND	<1	<3	ND
MW-16S	5/14/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-16	10/11/2007	Off-Site	Deep	<5	<5	<5	<5	**1 J**	ND	<10	<5	<10	<5	**0.8J**	<5	<5	<5	**0.8J**	<5	**12**	<5	**5**	ND	<5	<5	<5	<5	<5	<5	<5	<5	**2J**	ND	<5	<10	ND
MW-16	4/14/2008	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**2J**	<5	**4J**	<5	**4J**	ND	<5	<5	<5	<5	<5	<5	<5	<5	**2J**	ND	<5	<10	ND
MW-16	10/14/2009	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	**0.77**	ND	NA	NA	NA	<0.5	**0.82**	<0.5	<0.5	NA	**0.61**	<0.5	**9.1**	<0.5	**3.9**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	**0.32 J**	**1.7**	ND	<0.5	<1.0	ND
MW-16	10/14/2009	Off-Site	Deep	<5	<5	<5	<5	**0.65 J**	ND	<10	<5	<10	<5	**0.74 J**	<5	<5	<5	**0.48 J**	<5	**7.6**	<5	**3.1 J**	ND	<5	<5	<5	<5	<5	<5	<5	**1.5 J**	ND	<5	<10	ND
MW-16	12/7/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	**0.22 J**	<0.5	<0.5	NA	**1.7**	<0.5	**4.1**	<0.5	**4.6**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**3.3**	ND	<0.5	<1.0	ND
MW-16	12/7/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	**1.5**	<1	**4.1**	<1	**4.5**	ND	<1	<1	<1	<1	<1	<1	<1	**3.2**	ND	<1	<2	ND
MW-16	3/24/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.91 J**	<1	**2.3**	<1	**3.2**	ND	<1	<1	<1	<1	<1	<1	<1	**2.5**	ND	<1	<2	ND
MW-16	7/5/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	**7.0**	<1	**3.7**	ND	<1	<1	<1	<1	<1	<1	<1	**2.9**	ND	<1	<2	ND
MW-16	10/4/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**1.5 J**	<1	**5.3**	<1	**3.7**	ND	<1	<1	<1	<1	<1	<1	<1	**3.8**	ND	<1	<2	ND
MW-16	12/15/2011	Off-Site	Deep	<1 UJ	<1	<1	<1	**1.8**	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	**3.3**	<1	**19**	ND	<1	<1	<1	<1	<1	<1	**1.2**	**2.5**	ND	**2.9**	<2	ND
MW-16	3/16/2012	Off-Site	Deep	<1	<1	<1	<1	**0.41 J**	ND	<10	<5	<10	<1	<1	<1	<1	<1	**1**	<1	**4.4**	<1	**5.9**	ND	<1	<1	<1	<1	<1	<1	<1	**2.5**	ND	<1.0	<2	ND
MW-16	11/6/2012	Off-Site	Deep	<1	<1	<1	<1	**2.3**	ND	<10	<5	5.1 J	<1	<1	<1	<1	<1	**0.63 J**	<1	**2.3**	<1	**26**	ND	<1	**0.25 J**	<1	<1	<1	<1	1.4	**3.4**	ND	4.3	<2	ND
MW-16	10/9/2013	Off-Site	Deep	<1	<1	<1	<1	**1.6**	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.76 J**	<1	**3.0**	<1	**18**	ND	<1	<1	<1	<1	<1	<1	**1**	**4.2**	ND	**4**	<2	ND
MW-16	12/11/2013	Off-Site	Deep	<1	<1	<1	<1	**1.7**	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.46 J**	<1	**1.4**	<1	**17**	ND	<1	<1	<1	<1	<1	<1	**0.97 J**	**2.9**	ND	**2.4**	<2	ND
MW-16	7/30/2015	Off-Site	Deep	<1	<1	<1	<1	**0.41 J**	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	**0.79 J**	<1 UJ	**6.2**	<1	**7**	ND	<1	**0.17 J**	<1	<1	<1	<1	<1	**2.1**	ND	<1	<2	ND
MW-16	5/4/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.45 J**	<1	**1.7**	<1 UJ	**2.2**	ND	<1	**0.20 J**	<1	<1	<1	<1	<1	**1.4**	ND	<1	<2	ND
MW-16	8/10/2016	Off-Site	Deep	<1	<1	<1	<1	**0.88J**	ND	<10	<1	<10 J/UJ	<1	<1	<1	<1 UJ	<1	**0.91 J**	<1	**3.8**	<1	**11**	ND	<1	<1	<1	<1	<1	<1	<1	**3.3**	ND	**1.8**	<2	ND
MW-16	10/19/2016	Off-Site	Deep	<1	<1 UJ	<1	<1	**0.51 J**	ND	<10 UJ	<1	<10	<1	**0.55 J**	<1	<1	<1	**0.93 J**	<1	**5.0**	<1	**1.5**	ND	<1	<1	<1	<1	<1	<1	<1	**1.4**	ND	<1	<2	ND
MW-16	4/7/2017	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<1	<10 UJ	<1	<1	<1	<1 UJ	<1	**0.48 J**	<1	**1.6**	<1	**2.8**	ND	<1	<1	<1	<1	<1	<1	<1	**1.2**	ND	<1	<2	ND
MW-16	5/16/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1 UJ	**1.8**	<1 UJ	**0.98 J**	ND	<1	<1	<5	<5	<1	<1	<1	**0.59 J**	ND	<1	<3	ND
MW-16	5/14/2019	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<10	<10	<1	<1	<1	<1	<1	**0.57 J**		**3.4**		**3.5**	ND	<1	<1	<1	<1	<1	<1	<1	**0.99 J**	ND	<1	<2	ND
MW-17S	12/17/2009	Off-Site	Shallow	**0.41 J**	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-17S	12/17/2009	Off-Site	Shallow	<25	<25	<25	<25	<25	ND	<50	<50	<50	<25	<25	<25	<25	**2.6 J**	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<25	ND	<25	<50	ND
MW-17S	12/8/2010	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	3/30/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	7/5/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	9/30/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**12**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-17S	12/16/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	3/20/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**58**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	7/16/2014	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**7.9 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	7/24/2015	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10	<5	**5.1 J**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-17S	5/3/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**3.3 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	4/11/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17S	5/17/2018	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 UR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<5	1.43 U JB	<1	<1	<1 UJ	<1	ND	<1	<3	ND
MW-17S	5/15/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	**18**	<5	**6.8 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	12/8/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-17	12/8/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	3/28/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	6/30/2011	Off-Site	Deep	<1	<1	<1	<1	<1 UJ	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	9/30/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	12/15/2011	Off-Site	Deep	<1 UJ	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	3/19/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	11/7/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	**3.4 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	10/8/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	12/11/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.42 J**	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	7/16/2014	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	7/24/2015	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	5/3/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	8/9/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	10/19/2016	Off-Site	Deep	<1	<1 UJ	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	4/11/2017	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-17	5/16/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	ND	<1	<1	<5	<5	<1	<1	<1	ND	<1	<3	ND
MW-17	5/15/2019	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	**6.0 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	10/15/2009	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**0.53**	<0.5	<0.5 U	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	**0.23 J**	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-18S	10/15/2009	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10 U	<10	<10 U	<5	<5	<5	<5	<5	**0.60 J**	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-18S	12/9/2010	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	3/28/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	**8.7 J**	**2.9 J**	**76**	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	6/30/2011	Off-Site	Shallow	<1	<1	<1	<1	<1 UJ	ND	**8.7 J**	**2.9 J**	31 UJ	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	9/30/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	12/19/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	ND
MW-18S	3/20/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**3.6 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	ND
MW-18S	10/9/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1 UJ	<1	ND
MW-18S	12/10/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	ND
MW-18S	7/16/2014	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**3.8 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	7/30/2015	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**19**	<1	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	5/4/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	**8.8 UJ**	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	10/19/2016	Off-Site	Shallow	<1	<1 UJ	<1	<1	<1	ND	**9.9 J**	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	4/11/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**8.9 J**	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18S	5/15/2018	Off-Site	Shallow	<1	<1	<1 UJ	<1	<1	ND	<50 R	**1.1 J**	<25 R	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<5	1.2 U JB	<1	<1	<1	<1	ND	<1	<3	ND
MW-18S	5/15/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	**17**	<5	**7.7 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	10/11/2007	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-18	4/14/2008	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-18	10/12/2009	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-18	10/12/2009	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-18	12/9/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-18	12/9/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	3/28/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	6/30/2011	Off-Site	Deep	<1	<1	<1	<1	<1 UJ	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	9/29/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	**0.46 J**	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	12/16/2011	Off-Site	Deep	<1	<1	<1	<1	<1 UJ	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	3/15/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	11/7/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	10/8/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	12/10/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	7/15/2014	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	7/30/2015	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	5/4/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	8/10/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 J/UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-18	10/19/2016	Off-Site	Deep	<1	<1 UJ	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	4/11/2017	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-18	5/16/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	ND	<1	<1	<5	<5	<1	<1	<1	<1	ND	<1	<3	ND
MW-18	5/16/2019	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<1	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	**0.49 J**	<1	<1	<1	<1	ND	<1	<2	ND
MW-19S	10/15/2009	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**23**	<0.5	**14**	<0.5	**2.5**	ND	<0.5	NA	NA	<0.5	**1.3**	<0.5	<0.5	**12**	ND	<0.5	<1.0	ND
MW-19S	10/15/2009	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	**24**	<5	**15**	<5	**2.4 J**	ND	<5	<5	<5	<5	**1.4 J**	<5	<5	**13**	ND	<5	<10	ND
MW-19S	4/8/2010	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**18**	<0.5	**11**	<0.5	**1.7**	ND	<0.5	NA	NA	<0.5	**0.9**	<0.5	<0.5	**9.4**	ND	<0.5	<1.0	ND
MW-19S	4/8/2010	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**17**	<5	**11**	<5	**1.8 J**	ND	<5	<5	<5	<5	**0.99 J**	<5	<5	**11**	ND	<5	<10	ND
MW-19S	12/7/2010	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	**15**	<1	**8.8**	<1	**2.0**	ND	<1	<1	<1	<1	**0.99 J**	<1	<1	**10**	ND	<1	<2	ND
MW-19S	3/25/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5 UJ	<10	<1	<1	<1	<1	<1	**17**	<1	**9.1**	<1 UJ	**1.5**	ND	<1	<1	<1	<1	**1.1**	<1	<1	**8.8**	ND	<1	<2	ND
MW-19S	7/5/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	**13**	<1	**8.6**	<1	**1.6**	ND	<1	<1	<1	<1	<1	<1	<1	**7.5**	ND	<1	<2	ND
MW-19S	10/4/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**17 J**	<1	**7.5**	<1	<1	ND	<1	<1	<1	<1	**1.1**	<1	<1	**9.3**	ND	<1	<2	ND
MW-19S	12/19/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	<1	**16**	<1	**12**	<1	**1.7**	ND	<1	<1	<1	<1	**0.83**	<1	<1	**9.7**	ND	<1	<2	ND
MW-19S	3/19/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	<1	**17**	<1	**10**	<1	**1.6**	ND	<1	<1	<1	<1	**0.80 J**	<1	<1	**9.1**	ND	<1	<2	ND
MW-19S	11/7/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	**0.23 J**	**32**	<1	**16**	<1	**1.8**	ND	<1	<1	<1	<1	**1.3**	<1	<1	**15**	ND	<1	<2	ND
MW-19S	10/9/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	<1 UJ	**35**	<1	**18**	<1	**1.7**	ND	<1	<1	<1	<1	**1.6**	<1	<1	**17**	ND	<1 UJ	<2	ND
MW-19S	12/11/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	<1	**40**	<1	**20**	<1	**1.5**	ND	<1	<1	<1	<1	**0.60 J**	<1	<1	**10**	ND	<1	<2	ND
MW-19S	7/16/2014	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**22**	<1	**8**	<1	**1.2**	ND	<1	<1	<1	<1	**0.92 J**	<1	<1	**7.2**	ND	<1	<2	ND
MW-19S	7/30/2015	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	**16**	<1 UJ	**8.3**	<1	**1.4**	ND	<1	<1	<1	<1	**0.69 J**	<1	<1	**7.6**	ND	<1	<2	ND
MW-19S	5/3/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**3.5 J**	<1	<1	<1	<1	<1	**17**	<1	**8**	<1	**0.97 J**	ND	<1	<1	<1	<1	**0.43 J**	<1	<1	**6.7**	ND	<1	<2	ND
MW-19S	8/10/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 J/UJ	<1	<1	<1	<1	<1	**16**	<1	**9.3**	<1	**1.4**	ND	<1	<1	<1	<1 UJ	**0.82 J**	<1	<1	**7.7**	ND	<1	<2	ND
MW-19S	8/10/2016	Off-Site	Shallow	<1	<1 UJ	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**28**	<1	**15**	<1	**1.3**	ND	<1	<1	<1	<1	**0.62 J**	<1	<1	**7.7**	ND	<1 UJ	<2	ND
MW-19S	4/11/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	**12**	<1	**6.1**	<1	**1.8**	ND	<1	<1	<1	<1	**1.2**	<1	<1	**7.4**	ND	<1	<2	ND
MW-19S	5/15/2018	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	**0.18 J**	<1	<1	<1	**7.5**	<1	**7.4**	<1 UJ	**1.1**	ND	<1	<1	<5	<5	**0.31 J**	<1	<1	**5.5**	ND	<1	<3	ND
MW-19S	5/16/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	**<1**	<1	<1	<1	**4.8**	<1	**7.9**	<1	**1.1**	ND	<1	<1	<1	**0.51 J**	**<1**	<1	<1	**5.4**	ND	<1	<2	ND
MW-19	10/15/2009	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**0.24 J**	<0.5	<0.5 U	<0.5	**1.3**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**1.6**	ND	<0.5	<1.0	ND
MW-19	10/15/2009	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	**0.91 J**	<5	**1.3 J**	ND	<5	<5	<5	<5	<5	<5	<5	**1.5 J**	ND	<5	<10	ND
MW-19	4/8/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	**1.2**	ND	<0.5	NA	NA	<0.5	**0.22 J**	<0.5	<0.5	**1.7**	ND	<0.5	<1.0	ND
MW-19	4/8/2010	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	**1.1 J**	ND	<5	<5	<5	<5	<5	<5	<5	**1.7 J**	ND	<5	<10	ND
MW-19	12/7/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	**2.6 J**	<5	<10 UJ	<1	<1	<1	<1	<1	**0.87 J**	<1	**2.7**	<1	**1.3**	ND	<1	<1	<1	<1	<1	<1	<1	**2.1**	ND	<1	<2	ND
MW-19	3/25/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5 UJ	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	**0.83 J**	ND	<1	<1	<1	<1	<1	<1	<1	**1.6**	ND	<1	<2	ND
MW-19	7/5/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.92 J**	ND	<1	<1	<1	<1	<1	<1	<1	**1.5**	ND	<1	<2	ND
MW-19	10/3/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.0**	ND	<1	<1	<1	<1	<1	<1	<1	**1.7**	ND	<1	<2	ND
MW-19	12/16/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.5**	ND	<1	<2	ND
MW-19	3/15/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.93 J**	ND	<1	<1	<1	<1	<1	<1	<1	**1.4**	ND	<1	<2	ND
MW-19	11/7/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.1**	ND	<1	<1	<1	<1	<1	<1	<1	**2.1**	ND	<1	<2	ND
MW-19	10/9/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	**15**	<1	**21**	<1	**1.2**	ND	<1	<1	<1	**0.52 J**	<1	<1	<1	**3.5**	ND	<1 UJ	<2	ND
MW-19	12/11/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**2.5**	<1	**6**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.6**	ND	<1	<2	ND
MW-19	7/16/2014	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**3.4**	<1	**0.86 J**	<1	**0.88 J**	ND	<1	<1	<1	<1	<1	<1	<1	**1.8**	ND	<1	<2	ND
MW-19	7/31/2015	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**4.3**	<1	**0.40 J**	<1	**1.1**	ND	<1	<1	<1	<1	<1	<1	<1	**1.6**	ND	<1	<2	ND
MW-19	5/3/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**4.5**	<1	**0.89 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.6**	ND	<1	<2	ND
MW-19	8/10/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 J/UJ	<1	<1	<1	<1	<1	**12**	<1	**8.2**	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	**2.5**	ND	<1	<2	ND
MW-19	10/19/2016	Off-Site	Deep	<1	<1 UJ	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	**4.2**	<1	**4.3**	<1	**1.5**	ND	<1	<1	<1	<1	<1	<1	<1	**3**	ND	<1	<2	ND
MW-19	4/7/2017	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	**6.1 J**	<1	<1	<1	<1 UJ	<1	**1.3**	<1	**2.7**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**2**	ND	<1	<2	ND
MW-19	5/17/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	**3.2 JR**	<1	<1	<1	<1	<1	**1.7**	<1	**1.9**	<1	**0.98 J**	ND	<1	<1	<5	**1.43 U JB**	**0.28 J**	<1	<1 UJ	**2.3**	ND	<1	<3	ND
MW-19	5/16/2019	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	**<10**	<1	<1	<1	<1	<1	**1.2**	<1	**3.2**	<1	<1	ND	<1	<1	<1	**0.50 J**	<1	<1	<1	**2**	ND	<1	<2	ND
MW-20S	10/16/2009	On-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-20S	10/16/2009	On-Site	Shallow	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-20S	4/8/2010	On-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-20S	4/8/2010	On-Site	Shallow	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-20S	12/9/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	3/24/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	7/5/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	10/4/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	12/21/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	3/16/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	11/6/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	10/9/2013	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	7/30/2015	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	5/4/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	8/10/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-20S	10/19/2016	On-Site	Shallow	<1	<1 UJ	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20S	4/12/2017	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1 UJ	ND	ND
MW-20S	5/15/2018	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	ND	ND
MW-20S	5/15/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**4.1 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	10/14/2009	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-20	10/14/2009	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-20	4/8/2010	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-20	4/8/2010	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-20	12/9/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	3/24/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	7/1/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	9/30/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	12/20/2011	On-Site	Deep	<1 UJ	<1	<1	<1	<1 UJ	<1 UJ	<10	ND	<10	<1	<1 UJ	ND	<1	<1	<1	<1 UJ	<1 UJ	<1	<1 UJ	<1	ND	<1	<1	<1	<1 UJ	<1	<1 UJ	<1 UJ	<1	<1	ND	ND
MW-20	3/16/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	11/6/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	**8.8 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	10/10/2013	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	7/30/2015	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	5/4/2016	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	8/10/2016	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	10/19/2016	On-Site	Deep	<1	<1 UJ	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	4/6/2017	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	5/17/2018	On-Site	Deep	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-20	5/15/2019	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-21S	10/15/2009	Off-Site	Shallow	**0.85**	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**3.9**	<0.5	**5.3**	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-21S	10/15/2009	Off-Site	Shallow	**0.87 J**	<5	<5	<5	<5	ND	<10 U	<10	<10 U	<5	<5	<5	<5	<5	**3.6 J**	<5	**4.6 J**	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-21S	4/7/2010	Off-Site	Shallow	**0.51**	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**12**	<0.5	**7.7**	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	ND
MW-21S	4/7/2010	Off-Site	Shallow	**0.51 J**	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**10**	<5	**7.6**	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	ND
MW-21S	12/8/2010	Off-Site	Shallow	**1.0**	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**12**	<1	**8.9**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21S	3/29/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**5.9**	<1	**5.0**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21S	7/1/2011	Off-Site	Shallow	**0.77 J**	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	**9.0**	<1	**7.7**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21S	9/30/2011	Off-Site	Shallow	**1.1**	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**9.9**	<1	**9.3**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21S	12/16/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1 UJ	<1	<1	**8.6 J**	<1	**7.8**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21S	3/20/2012	Off-Site	Shallow	**0.51 J**	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**10.0**	<1	**7.5**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21S	11/7/2012	Off-Site	Shallow	**0.92 J**	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**14.0**	<1	**9.3**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	ND
MW-21	10/15/2009	Off-Site	Deep	**0.92**	**0.66**	<0.5	<0.5	**2.1**	ND	NA	NA	NA	**1.2**	<0.5	<0.5	<0.5	NA	**6000**	<0.5	**1400**	<0.5	**2.0**	ND	<0.5	NA	NA	**3.2**	**5.5**	<0.5	<0.5	**31 E**	ND	<0.5	<1.0	ND
MW-21	10/15/2009	Off-Site	Deep	**0.88 J**	**0.51 J**	<5	<5	**2.2 J**	ND	<10	<10	<10	**1.1 J**	<5	<5	<5	**18**	**6200**	<5	**1300**	<5	**2.0 J**	ND	<5	<5	<5	**3.4 J**	**5.2**	<5	<5	**30**	ND	<5	<10	ND
MW-21	4/7/2010	Off-Site	Deep	<500	<500	<500	<500	<500	ND	<1000	<1000	<1000	<500	<500	<500	<500	<500	**5600**	<500	**1600**	<500	<500	ND	<500	<500	<500	<500	<500	<500	<500	<500	ND	<500	<1000	ND
MW-21	12/7/2010	Off-Site	Deep	<50	<50	<50	<50	<50	ND	<500	<500	<500	<50	<50	<50	<50	<50	**3000 D**	<50	**1000 D**	<50	<50	ND	<50	<50	<50	<50	<50	<50	<50	<50	ND	<50	<100	ND
MW-21	3/28/2011	Off-Site	Deep	**0.56 J**	<1	<1	<1	**1.6**	ND	<10	<5	<10	**1.6**	<1	<1	<1	**17**	**4900 D**	<1	**1700 D**	<1	**1.8**	ND	<1	<1	<1	**2.6**	**6.8**	<1	<1	**32**	ND	<1	<2	ND
MW-21	7/1/2011	Off-Site	Deep	<100	<100	<100	<100	<100	ND	<100 UJ	<100	<1000 UJ	<100	<100	<100	<100	<100	**5200**	<100	**2000**	<100	<100	ND	<100	<100	<100	<100	<100	<100	<100	<100	ND	<100	<200	ND
MW-21	9/30/2011	Off-Site	Deep	<100	<100	<100	<100	<100	ND	<100	<100	<1000	<100	<100	<100	<100	<100	**5400**	<100	**2000**	<100	<100	ND	<100	<100	<100	<100	<100	<100	<100	**46 J**	ND	<100	<200	ND
MW-21	12/15/2011	Off-Site	Deep	<100 UJ	<100	<100	<100	<100	ND	<100 UJ	<100	<1000 UJ	<100	<100	<100	<100	<100	**4100**	<100	**1700**	<100	<100	ND	<100	<100	<100	<100	<100	<100	<100	<100	ND	<100	<200	ND
MW-21	3/16/2012	Off-Site	Deep	<50	<50	<50	<50	<50	ND	<50	<50	<500	<50	<50	<50	<50	<50	**2200**	<50	**1400**	<50	<50	ND	<50	<50	<50	<50	<50	<50	<50	<50	ND	<50	<50	ND
MW-21	11/7/2012	Off-Site	Deep	<50	<50	<50	<50	<50	ND	<50	<50	<500	<50	<50	<50	<50	**31 J**	**6300**	<50	**2000**	<50	<50	ND	<50	<50	<50	**32 J**	<50	<50	<50	**38 J**	ND	<50	<50	ND
MW-21	8/20/2013	Off-Site	Deep	<80	<80	<80	<80	<80	ND	<80	<80	<800	<80	<80	<80	<80	<80	**5000**	<80	**1800**	<80	<80	ND	<80	<80	<80	<80	<80	<80	<80	<80	ND	<80	<80	ND
MW-21	10/8/2013	Off-Site	Deep	<80	<80	<80	<80	<80	ND	<80	<80	<800	<80	<80	<80	<80	**17 J**	**4500**	<80	**1800**	<80	<80	ND	<80	<80	<80	**85**	<80	<80	<80	**38 J**	ND	<80	<80	ND
MW-100	10/8/2013	Off-Site	Deep	<25	<25	<25	<25	<25	ND	<25	<25	<250	<25	<25	<25	<25	<25	**4900**	<25	**1800**	<25	<25	ND	<25	<25	<25	**27**	<25	<25	<25	**38**	ND	<25	<25	ND
MW-21	12/10/2013	Off-Site	Deep	**0.37 J**	<1	<1	<1	**1.3**	ND	<1	<1	**7.6 J**	<1	<1	<1	<1	<1	**3900**	<1	**1300**	<1	**1.2**	ND	<1	<1	<1	**2.7**	**6.9**	<1	<1	**28 J**	ND	<1	<1	ND
MW-21	7/14/2014	Off-Site	Deep	<25	<25	<25	<25	<25	ND	<250	<25	<250	<25	<25	<25	<25	<25	**2300**	<25	**640**	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	**18 J**	ND	<25	<50	ND
MW-21	7/29/2015	Off-Site	Deep	<25	<25	<25	<25	<25	ND	<250	<25	<250	<25	<25	<25	<25	<25	**2400**	<26	**610**	<25	<25	ND	<25	<25	<25	**17 J**	<25	<25	<25	**18 J**	ND	<25	<50	ND
MW-21	5/3/2016	Off-Site	Deep	<25	<25	<25	<25	<25	ND	<250	<25	<250	<25	<25	<25	<25	<25	**2200**	<26	**480**	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<25	ND	<25	<50	ND
MW-21	8/9/2016	Off-Site	Deep	<25	<25	<25	<25	<25	ND	<250	<25	<250 UJ	<25	<25	<25 UJ	<25	<25	**3300**	<25	**890**	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	**25 J**	ND	<25	<50	ND
MW-21	10/20/2016	Off-Site	Deep	<40	<40	<40	<40	<40	ND	<400	<40	<400	<40	<40	<40	<40 UJ	<40	**3900**	<40 UJ	**1000**	<40 UJ	<40	ND	<40	<40	<40	<40	<40	<40	<40	<40	ND	<40	<80	ND
MW-21	4/12/2017	Off-Site	Deep	<100	<100	<100	<100	<100	ND	<100	<100	<1000 UJ	<100	<100	<100	<100	<100	**2200**	<100 UJ	**440**	<100 UJ	<100	ND	<100	<100	<100	**55 J**	<100	<100	<100	<100	ND	<100 UJ	<200	ND
MW-21	5/17/2018	Off-Site	Deep	<10	<10	<10	<10	<10	ND	<500 R	<100	<250 R	<10	<10	<10	<10	<10	**2300**	<10	**420**	<10	<10	ND	<10	<10	<50	<50	**3.3 J**	<10	<10	**11**	ND	<10	<30	ND
MW-21	5/16/2019	Off-Site	Deep	<10	<10	<10	<10	<10	ND	<100	<50	<100	<10	<10	<10	<10	<10	**2300 E**	<10	**460**	<10	<10	ND	<10	<10	<10	7.7 J	**4.2 J**	<10	<10	**13**	ND	<10	<20	ND
MW-22S	10/16/2009	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	NA
MW-22S	10/16/2009	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10	<10	<10 U	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	NA
MW-22S	4/8/2010	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	**0.2 J**	<0.5	<0.5	ND	<0.5	<1.0	NA
MW-22S	4/8/2010	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<10	NA
MW-22S	3/25/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-22S	7/5/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	10/3/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	12/20/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	3/20/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	11/8/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	10/8/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	12/12/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	7/16/2014	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	7/24/2015	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**6.0 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-22S	5/3/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-22S	10/19/2016	Off-Site	Shallow	<1	<1 UJ	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-22S	4/12/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**19**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-22S	5/16/2018	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 UR	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	ND	<1	<1	<1	<5	<5	<1	<1	<1	ND	<1	<3	<10
MW-22S	5/15/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<1	**3.8J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-22	10/14/2009	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**6.0**	<0.5	**8.6**	<0.5 U	**5.2**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**0.66**	ND	<0.5	<1.0	ND
MW-22	10/14/2009	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**4.8 J**	<5	**7.2**	<5	**4.2 J**	ND	<5	<5	<5	<5	<5	<5	<5	**0.62 J**	ND	<5	<10	ND
MW-22	4/7/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**8.4**	<0.5	**7.1**	<0.5	**7.6**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**2.6**	ND	<0.5	<1.0	ND
MW-22	4/7/2010	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**6.8**	<5	**7.0**	<5	**7.1**	ND	<5	<5	<5	<5	<5	<5	<5	**2.6 J**	ND	<5	<10	ND
MW-22	12/7/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	**6.7**	<1	**6.3**	<1	**12**	ND	<1	<1	<1	<1	<1	<1	<1	**4.6**	ND	<1	<2	ND
MW-22	3/25/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5 UJ	<10 UJ	<1	<1	<1	<1	<1	**3.9**	<1	**3.3**	<1 UJ	**3.9**	ND	<1	<1	<1	<1	<1	<1	<1	**2.0**	ND	<1	<2	ND
MW-22	6/30/2011	Off-Site	Deep	<1	<1	<1	<1	<1 UJ	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	**6.6 J**	<1	**6.6**	<1	**10**	ND	<1	<1	<1	<1	<1 UJ	<1	<1	**3.7**	ND	<1	<2	ND
MW-22	10/4/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**7.0 J**	<1	**6.9**	<1	**9.1**	ND	<1	<1	<1	<1	<1	<1	<1	**4.4**	ND	<1	<2	ND
MW-22	12/20/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**10.0**	<1	**7.9**	<1	**9.1**	ND	<1	<1	<1	<1	<1	<1	<1	**4.2**	ND	<1	<2	ND
MW-22	3/19/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**5.6**	<1	**5.6**	<1	**7.4**	ND	<1	<1	<1	<1	<1	<1	<1	**2.8**	ND	<1	<2	ND
MW-22	11/7/2012	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	**0.46 J**	**15.0**	<1	**11.0**	<1	**8.5**	ND	<1	<1	<1	<1	<1	<1	<1	**4.8**	ND	<1	<2	ND
MW-22	10/9/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	**13.0**	<1	**11.0**	<1	**7.8**	ND	<1	<1	<1	<1	<1	<1	<1	**4.4**	ND	<1 UJ	<2	ND
MW-22	12/11/2013	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**23.0**	<1	**17.0**	<1	**7.1**	ND	<1	<1	<1	<1	<1	<1	<1	**4.5**	ND	<1	<2	ND
MW-22	7/16/2014	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**12.0**	<1	**9.4**	<1	**9.9**	ND	<1	<1	<1	<1	<1	<1	<1	**3.8**	ND	<1	<2	ND
MW-22	7/31/2015	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**10.0**	<1	**8.0**	<1	**6.9**	ND	<1	<1	<1	<1	<1	<1	<1	**2.1**	ND	<1	<2	ND
MW-22	5/3/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**7.0**	<1	**4.3**	<1	**7**	ND	<1	<1	<1	<1	<1	<1	<1	**2.5**	ND	<1	<2	ND
MW-22	8/9/2016	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1 UJ	<1	<1	**15.0**	<1	**9.9**	<1	**5.8**	ND	<1	<1	<1	<1	<1	<1	<1	**3.7**	ND	<1	<2	ND
MW-22	10/19/2016	Off-Site	Deep	<1	<1 UJ	<1	<1	**0.21 J**	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	**16.0**	<1	**11.0**	<1	**7.2**	ND	<1	<1	<1	<1	<1	<1	<1	**3.8**	ND	<1	<2	ND
MW-22	4/10/2017	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**4.9**	<1	**3.3**	<1	**2.7**	ND	<1	<1	<1	<1	<1	<1	<1	**1.7**	ND	<1	<2	ND
MW-22	5/16/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	**2.6**	<1 UJ	**3.0**	<1 UJ	**2.5**	ND	<1	<1	<1	<5	<5	<1	<1	**1.6**	ND	<1	<3	ND
MW-22	5/15/2019	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	**3.1 J**	<1	<1	<1	<1	<1	**3.5**	<1	**3.4**	<1	**5.9**	ND	<1	<1	<1	<1	<1	<1	<1	**2.0**	ND	<1	<2	ND
MW-23S	10/15/2009	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**	<0.5	**2.0**	<0.5	**22**	ND	<0.5	<0.5	<0.5	<0.5	<0.5	**0.28 J**	<0.5	**0.21 J**	**4.0**	ND	<0.5	<1.0	NA
MW-23S	10/15/2009	Off-Site	Shallow	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**1.6 J**	<5	**1.9 J**	<5	**21**	ND	<5	<5	<5	<5	<5	<5	<5	<5	**4.2 J**	ND	<5	<10	NA
MW-23S	12/8/2010	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**5.6**	<1	**4.1**	<1	**61**	ND	<1	<1	<1	<1	<1	**0.93 J**	<1	<1	**11**	ND	<1	<2	NA
MW-23S	3/24/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**2.2**	<1	**2.8**	<1	**22**	ND	<1	<1	<1	<1	<1	**0.61 J**	<1	<1	**5.6**	ND	<1	<2	NA
MW-23S	7/5/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**5.2**	<1	**3.0**	<1	**51**	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23S	9/30/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**3.2**	<1	**2.5**	<1	**35**	ND	<1	<1	<1	<1	<1	**0.57 J**	<1	<1	**7.3**	ND	<1	<2	NA
MW-23S	12/20/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**4.3**	<1	**3.1**	<1	**50**	ND	<1	<1	<1	<1	<1	**0.6**	<1	<1	**9.1**	ND	<1	<2	NA
MW-23S	3/19/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**3.4 J**	<1	<1	<1	<1	<1	**4.3**	<1	**3.7**	<1	**41**	ND	<1	<1	<1	<1	<1	**0.77 J**	<1	<1	**7.2**	ND	<1	<2	NA
MW-23S	11/7/2012	Off-Site	Shallow	<1	<1	<1	<1	**0.24 J**	ND	<10	<5	<10	<1	<1	<1	<1	**0.42 J**	**5.1**	<1	**3.7**	<1	**56**	ND	<1	<1	<1	<1	<1	**0.71 J**	<1	<1	**9**	ND	<1	<2	NA
MW-23S	10/9/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	**6.1**	<1	**5.5**	<1	**53**	ND	<1	<1	<1	<1	<1	**0.84 J**	<1	<1	**10**	ND	<1 UJ	<2	NA
MW-23S	12/12/2013	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**3.2**	<1	**3.3**	<1	**49**	ND	<1	<1	<1	<1	<1	**0.63 J**	<1	<1	**7.3**	ND	<1	<2	NA
MW-23S	7/30/2015	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	**2**	<1 UJ	**1.8**	<1	**65**	ND	<1	<1	<1	<1	<1	**0.52 J**	<1	<1	**7.4**	ND	<1	<2	NA
MW-23S	5/4/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**1.7**	<1	**1.7**	<1 UJ	**54**	ND	<1	<1	<1	<1	<1	**0.40 J**	<1	<1	**6.7**	ND	<1	<2	<5
MW-23S	8/10/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 J/UJ	<1	<1	<1	<1	<1	**1**	<1	**1.2**	<1	**37**	ND	<1	<1	<1	<1	<1 UJ	<1	<1	<1	**3.6**	ND	<1	<2	<5
MW-23S	10/19/2016	Off-Site	Shallow	<1	<1 UJ	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	<1	<1	**1.0**	<1	**17**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**2.4**	ND	<1	<2	<5
MW-23S	4/11/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1 UJ	**1.4**	<1	**1.8**	<1	**33**	ND	<1	<1	<1	<1	<1	**0.74 J**	<1	<1	**6.3**	ND	<1	<2	<5
MW-23S	5/15/2018	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	**1.1**	<1	**1.9**	<1 UJ	**39**	ND	<1	<1	<5	<5	**0.55 J**	<1	**0.73 J**	**7.2**	ND	<1	<3	<10
MW-23S	5/14/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10 J	<5 J	<10	<1	<1	<1	<1	<1	**1.1**	<1	**1.4**	<1 J	**45**	ND	<1	<1	<1	<1	**0.64J**	<1	**0.92J**	**11**	ND	<1	<2	<5 J
MW-23	10/15/2009	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**1.2**	<0.5	<0.5 U	<0.5	**14**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**0.78**	ND	<0.5	<1.0	NA
MW-23	10/15/2009	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**1.4 J**	<5	**1.4 J**	<5	**14**	ND	<5	<5	<5	<5	<5	<5	<5	**0.81 J**	ND	<5	<10	NA
MW-101	10/15/2009	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**1.2**	<0.5	**1.4 U**	<0.5	**14**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**0.81**	ND	<0.5	<1.0	NA
MW-101	10/15/2009	Off-Site	Deep	<5	<5	<5	<5	<5	ND	<10	<10	<10	<5	<5	<5	<5	<5	**0.96 J**	<5	**1.2 J**	<5	**12**	ND	<5	<5	<5	<5	<5	<5	<5	**0.63 J**	ND	<5	<10	NA
MW-23	12/8/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	**1.2**	<0.5	**0.84**	<0.5	**17**	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	**0.76**	ND	<0.5	<1.0	NA
MW-23	12/8/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.91 J**	<1	**0.80 J**	<1	**15**	ND	<1	<1	<1	<1	<1	<1	<1	**0.72 J**	ND	<1	<2	NA
MW-101	12/8/2010	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.94 J**	<1	**0.81 J**	<1	**16**	ND	<1	<1	<1	<1	<1	<1	<1	**0.66 J**	ND	<1	<2	NA
MW-23	3/24/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**8.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-101	**3/24/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.41 J**	<1	**0.42 J**	<1	**8.1**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23	**7/5/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	**0.58 J**	<1	**11**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-101	**7/5/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.84 J**	<1	**0.65 J**	<1	**12**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23	**9/30/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**2.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-101	**9/30/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**2.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23	**12/15/2011**	***Off-Site***	***Deep***	<1 UJ	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	**0.45 J**	<1	<1	<1	<1	**1.1**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-101	**12/15/2011**	***Off-Site***	***Deep***	<1 UJ	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.2**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23	**3/15/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.5**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-101	**3/15/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.2**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23	**11/7/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**3.5 J**	<1	<1	<1	<1	**0.56 J**	**0.30 J**	<1	<1	<1	**10.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-101	**11/7/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	**0.27 J**	**0.36 J**	<1	**0.36 J**	<1	**11.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-23	**10/9/2013**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**6.7 J**	<1	<1	<1	<1	<1	**1.7**	<1	**1.8**	<1	**26.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.7**	ND	<1	<2	NA
MW-23	**12/11/2013**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**47**	<1	**3**	<1	**17.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.9**	ND	<1	<2	NA
MW-23	**7/31/2015**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**15.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**0.61 J**	ND	<1	<2	NA
MW-101	**7/31/2015**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**14.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**0.55 J**	ND	<1	<2	NA
MW-23	**5/4/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.48 J**	<1	**0.46 J**	<1 UJ	**23.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.7**	ND	<1	<2	<5
MW-101	**5/4/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.55 J**	<1	**0.48 J**	<1 UJ	**23.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.7**	ND	<1	<2	<5
MW-23	**8/10/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 J/UJ	<1	<1	<1	<1	<1	**0.44 J**	<1	**0.44 J**	<1	**18.0**	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	**0.98 J**	ND	<1	<2	<5
MW-23	**10/19/2016**	***Off-Site***	***Deep***	<1	<1 UJ	<1	<1	<1	ND	<10 UJ	<5	<10	<1	<1	<1	<1	<1	**0.60 J**	<1	**0.67 J**	<1	**30.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.6**	ND	<1	<2	<5
MW-23	**4/7/2017**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**3.4 U**	<1	<1	<1	<1	<1 UJ	**0.82 J**	<1	**0.44 J**	<1	**20.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.1**	ND	<1	<2	<5
MW-101	**4/7/2017**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	**0.49 J**	<1	<1	**0.39 J**	<1	**19.0**	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.2**	ND	<1	<2	<5
MW-23	**5/17/2018**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1 UJ	**0.28 J**	<1	**0.28 J**	<1	**17.0 J**	ND	<1	<1	<5	<5	<1	<1	<1	**0.81 J**	ND	**1.5**	<3	<10
MW-101	**5/17/2018**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	**12.0 J**	ND	<1	<1	<5	<5	<1	<1	<1	**0.78 J**	ND	**0.98 J**	<3	<10
MW-23	**5/14/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10 J	<5 J	<10	<1	<1	<1	<1	<1	**0.38J**	<1 J	**21.0**	ND	<1	<1	<1	<5	<5	<1	<1	<1	**2.5**	ND	**1.3**	<2	<5 J
MW-101	**5/13/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10 J	<5 J	<10	<1	<1	<1	<1	<1	<1	<1	**0.45 J**	<1 J	**22.0**	ND	<1	<1	<5	<5	<1	<1	<1	**2.5**	ND	**1.2**	<2	<5 J
MW-24S	**12/13/2010**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	**1.6**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**3/22/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.53 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**6/29/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	13 U	<1	<1	ND	<1	<1	<1	<1	**0.44 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**9/27/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**7/17/2014**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**7/28/2015**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**6.1**	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**5/9/2016**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**4/4/2017**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**5.8**	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**5/14/2018**	***On-Site***	***Shallow***	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	1.2 U JB	<1	<1	<1	<1	<1	<1	ND	ND
MW-24S	**5/16/2019**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**9/21/2010**	***On-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5 UJ	<0.5	**0.35 J**	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-24	**9/21/2010**	***On-Site***	***Deep***	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-24	**12/10/2010**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**3/22/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**6/28/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**9/27/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**36**	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**12/13/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**3/13/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**19**	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**7/17/2014**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**7/28/2015**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**5/9/2016**	***On-Site***	***Deep***	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**4/4/2017**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**5/14/2018**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10 R	ND	<10 R	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-24	**5/16/2019**	***On-Site***	***Deep***	<1	<1 F1	<1	<1	<1 F1	<1 F1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**9/23/2010**	***On-Site***	***Shallow***	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5 UJ	<0.5 UJ	**0.33 J**	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-25S	**9/23/2010**	***On-Site***	***Shallow***	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-25S	**12/9/2010**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**3/23/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**6/29/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	**0.41 J**	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**9/27/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**12/14/2011**	***On-Site***	***Shallow***	<1 UJ	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**3/13/2012**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**7/17/2014**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	**4.4 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**7/28/2015**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	**5/9/2016**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND
MW-25S	**4/11/2017**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-25S	5/15/2018	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-25S	5/13/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1 J	1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	9/21/2010	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	**0.57**	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5 UJ	<0.5	<0.5	<0.5	**0.51**	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-25	9/21/2010	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-25	12/9/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	3/23/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	6/29/2011	On-Site	Deep	<1	<1	<1	<1	**0.41 J**	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	9/27/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	12/14/2011	On-Site	Deep	<1 UJ	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	3/13/2012	On-Site	Deep	<1	<1	<1	<1	**0.37 J**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	7/17/2014	On-Site	Deep	<1	<1	<1	<1	**0.61 J**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	7/28/2015	On-Site	Deep	<1	<1	<1	<1	**0.73 J**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	5/9/2016	On-Site	Deep	<1	<1	<1	<1	**0.56 UJ**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND
MW-25	4/11/2017	On-Site	Deep	<1	<1	<1	<1	**0.36 J**	<1	<10	ND	<10 U	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-25	5/15/2018	On-Site	Deep	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	9/22/2010	On-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5 UJ	<0.5	**4.2**	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-26S	9/22/2010	On-Site	Shallow	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	**3.4 J**	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-26S	12/10/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	3/24/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	6/29/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**5.5 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	9/28/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	12/14/2011	On-Site	Shallow	<1 UJ	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	3/13/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	7/17/2014	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	7/28/2015	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	5/10/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<50	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	4/11/2017	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**3.1 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26S	5/15/2018	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	9/21/2010	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5 UJ	<0.5	**0.49 J**	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-26	9/21/2010	On-Site	Deep	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-26	12/10/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	3/23/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	6/29/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	10/2/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	12/14/2011	On-Site	Deep	<1 UJ	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	3/13/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	11/6/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	**3.7 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	10/10/2013	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	7/16/2014	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	7/28/2015	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-26	5/9/2016	On-Site	Deep	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND
MW-26	4/12/2017	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND
MW-26	5/15/2018	On-Site	Deep	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	9/22/2010	On-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	**0.22 J**	ND	<0.5	NA	**2.9**	<0.5	**3.4**	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	**0.33 J**	<0.5	<0.5	ND	ND
MW-27S	9/22/2010	On-Site	Shallow	<5	<5	<5	<5	<5	<5	<10	ND	<10	<5	<5	ND	<5	<5	**2.3 J**	<5	**3.3 J**	<5	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND	ND
MW-27S	12/10/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	**1.7**	<1	**1.6**	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	3/23/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.81 J**	<1 UJ	**0.79 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	6/30/2011	On-Site	Shallow	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	**1.9 J**	<1	**1.2**	<1	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	9/28/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**1.4**	<1	**0.97 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	12/14/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	**0.96 J**	<1	**0.73 J**	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	3/14/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.78 J**	<1	**0.67 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	7/16/2014	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**4.4 J**	<1	<1	ND	<1	<1	**0.92 J**	<1	**0.59 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	7/28/2015	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**1.1**	<1	**0.71 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	5/6/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	**0.56 J**	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	4/6/2017	On-Site	Shallow	<1	**0.44 J**	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.53 J**	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	5/16/2018	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-27S	5/13/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-27	9/22/2010	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	**3.3**	<0.5	**5.4**	<0.5	**0.86**	<0.5	ND	NA	NA	**0.34 J**	<0.5	<0.5	<0.5	**6.3**	<0.5	**0.94**	ND	ND
MW-27	9/22/2010	On-Site	Deep	<5	<5	<5	<5	**1.8 J**	<5	<10	ND	<10	<5	<5	ND	<5	<5	**2.6 J**	<5	**5.2**	<5	**0.84 J**	<5	ND	<5	<5	<5	<5	<5	<5	**5.5**	<5	<5	ND	ND
MW-27	12/10/2010	On-Site	Deep	<1	<1	<1	<1	**4.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**1.4**	<1	**2.2**	<1	**2.2**	<1	ND	**0.54 J**	<1	<1	<1	<1	<1	**14**	<1	**1.6**	ND	ND
MW-102	12/10/2010	On-Site	Deep	<1	<1	<1	<1	**4.7**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**1.4**	<1	**2.3**	<1	**2.2**	<1	ND	**0.59 J**	<1	<1	<1	<1	<1	**14**	<1	**1.7**	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-27	3/23/2011	On-Site	Deep	<1	<1	<1	<1	**4.3 J**	<1	<10	ND	<10	<1	<1 UJ	ND	<1	<1	<1 UJ	<1 UJ	**0.71 J**	<1	**2.1**	<1	ND	<1	<1	<1	<1	<1	<1	**12**	<1	**1.8**	ND	ND
MW-102	3/23/2011	On-Site	Deep	<1	<1	<1	<1	**4.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1 UJ	**0.68 J**	<1	**2.1**	<1	ND	<1	<1	<1	<1	<1	<1	**12**	<1	**1.9**	ND	ND
MW-27	6/30/2011	On-Site	Deep	<1	<1	<1	<1	**4.9**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.9**	<1	ND	<1	<1	<1	<1	<1	<1	**9.6**	<1	**2.1**	ND	ND
MW-102	6/30/2011	On-Site	Deep	<1	<1	<1	<1	**4.7 J**	<1	<10	ND	<10 UJ	<1	<1 UJ	ND	<1	<1	<1 UJ	<1	<1	<1	**1.7**	<1	ND	<1	<1	<1	<1	<1	<1	**9.4**	<1	**1.8**	ND	ND
MW-27	9/28/2011	On-Site	Deep	<1	<1	<1	<1	**3.9**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2.1**	<1	ND	<1	<1	<1	<1	<1	<1	**8.8**	<1	**1.6**	ND	ND
MW-102	9/28/2011	On-Site	Deep	<1	<1	<1	<1	**3.9**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2.0**	<1	ND	<1	<1	<1	<1	<1	<1	**8.9**	<1	**1.5**	ND	ND
MW-27	12/14/2011	On-Site	Deep	<1	<1	<1	<1	**4.5**	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	**0.57 J**	<1	**0.77 J**	<1 UJ	**2.0**	<1	ND	**0.19 J**	<1	<1	<1	<1	<1	**10**	<1	**2**	ND	ND
MW-102	12/14/2011	On-Site	Deep	<1	<1	<1	<1	**4.7**	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	**0.47 J**	<1	**0.73 J**	<1 UJ	**1.9**	<1	ND	**0.19 J**	<1	<1	<1	<1	<1	**10**	<1	**1.9**	ND	ND
MW-27	3/14/2012	On-Site	Deep	<1	<1	<1	<1	**4.0**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.52 J**	<1	**0.53 J**	<1	**1.6**	<1	ND	<1	<1	<1	<1	<1	<1	**9.1**	<1	**1.9**	ND	ND
MW-102	3/14/2012	On-Site	Deep	<1	<1	<1	<1	**4.3**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.56 J**	<1	**0.61 J**	<1	**1.6**	<1	ND	<1	<1	<1	<1	<1	<1	**9.5**	<1	**2**	ND	ND
MW-27	11/6/2012	On-Site	Deep	<1	0.39 J	<1	<1	**4.8**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.80 J**	<1	**0.82 J**	<1	**2.5**	<1	ND	<1	<1	<1	<1	<1	<1	**13**	<1	**2.4**	ND	ND
MW-27	10/10/2013	On-Site	Deep	<1	<1	<1	<1	**5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**1**	<1	**2.4**	<1	ND	<1	<1	<1	<1	<1	<1	**15**	<1	**3**	ND	ND
MW-27	7/17/2014	On-Site	Deep	<1	<1	<1	<1	**4.2**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.81 J**	<1	**0.68 J**	<1	**2.6**	<1	ND	<1	<1	<1	<1	<1	<1	**13**	<1	**1.9**	ND	ND
MW-102	7/17/2014	On-Site	Deep	<1	<1	<1	<1	**4.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	0.77 J	<1	**0.67 J**	<1	**2.8**	<1	ND	<1	<1	<1	<1	<1	<1	**14**	<1	**1.9**	ND	ND
MW-27	7/28/2015	On-Site	Deep	<1	<1	<1	<1	**3.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.45 J**	<1	**0.41 J**	<1	**2.3**	<1	ND	<1	<1	<1	<1	<1	<1	**11**	<1	**1.6**	ND	ND
MW-102	7/28/2015	On-Site	Deep	<1	<1	<1	<1	**3.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.44 J**	<1	**0.40 J**	<1	**2.2**	<1	ND	<1	<1	<1	<1	<1	<1	**11**	<1	**1.6**	ND	ND
MW-27	5/9/2016	On-Site	Deep	<1	<1	<1	<1	**2.9 UJ**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.42 J**	<1	**0.45 J**	<1	**1.6**	<1	ND	<1	<1	<1	<1	<1	<1	**9.3**	<1	**1.5**	ND	ND
MW-102	5/9/2016	On-Site	Deep	<1	<1	<1	<1	**2.6 UJ**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.46 J**	<1	**0.42 J**	<1	**1.5**	<1	ND	<1	<1	<1	<1	<1	<1	**8.9**	<1	**1.7**	ND	ND
MW-27	4/6/2017	On-Site	Deep	<1	<1	<1	<1	**1.8**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**1.1**	<1	**1.1**	<1	**0.84 J**	<1	ND	<1	<1	<1	<1	<1	<1	**5.2**	<1	<1	ND	ND
MW-102	4/6/2017	On-Site	Deep	<1	<1	<1	<1	**1.9**	<1	<10	ND	<10	<1	<1	ND	<1	<1	**0.72 J**	<1	**0.82 J**	<1	**0.99 J**	<1	ND	<1	<1	<1	<1	<1	<1	**5.9**	<1	**0.92 J**	ND	ND
MW-27	5/16/2018	On-Site	Deep	<1	<1	<1 UJ	<1 UJ	**3.0**	<1	<50 R	ND	<25 R	**0.31 J**	<1	ND	<1	<1	**0.89 J**	<1	**1.1**	<1	**1.7**	<1	ND	<1	<5	<5	<1	<1	<1	**8 J**	<1	**1.8**	ND	ND
MW-102	5/16/2018	On-Site	Deep	<1	<1	<1 UJ	<1 UJ	**3.1**	<1	<50 R	ND	<25 R	**0.30 J**	<1	ND	<1 UJ	<1	**0.74 J**	<1	**1.1**	<1	**1.7**	<1	ND	<1	<5	<1.5 B	<1	<1	<1	**8.5 J**	<1	**1.8**	ND	ND
MW-27	5/15/2019	On-Site	Deep	<1	**0.39 J**	<1	<1	**3.6**	<1	<1	ND	<10	<1	<1	ND	<1	<1	**0.48 J**	<1	**0.92 J**	<1	**2.3**	<1	ND	<1	<1	<1	<1	<1	<1	**11**	<1	**1.7**	ND	ND
MW-102	5/15/2019	On-Site	Deep	<1	**0.42 J**	<1	<1	**3.8**	<1	<1	ND	**3.8 J**	<1	<1	ND	<1	<1	**0.50 J**	<1	**1**	<1	**2.1**	<1	ND	<1	<1	<1	<1	<1	<1	**11**	<1	**1.9**	ND	ND
MW-28S	12/14/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	**4.2**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	3/22/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	6/30/2011	On-Site	Shallow	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10 UJ	<1	<1 UJ	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	9/28/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	12/14/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	3/14/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	7/16/2014	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	7/28/2015	On-Site	Shallow	<1	**1.6**	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**1.1**	<1	<1	**8.7**	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28S	5/10/2016	On-Site	Shallow	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.9**	ND	<1 UJ	<1	<1	<1	<1	<1	<1	**7.1**	<1 UJ	ND	ND
MW-28S	4/6/2017	On-Site	Shallow	<1	<1	<1 UJ	<1 UJ	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.3**	<1	ND	ND
MW-28S	5/14/2018	On-Site	Shallow	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	**1.1**	<1	ND	ND
MW-28S	5/13/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	12/14/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	3/22/2011	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-28	3/22/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	6/30/2011	On-Site	Deep	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	9/29/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	12/14/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	3/14/2012	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	7/16/2014	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	7/28/2015	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	5/10/2016	On-Site	Deep	<1	<1	<1	<1	<1 UJ	<1	<10	ND	**6.9 UJ**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND
MW-28	4/6/2017	On-Site	Deep	<1	<1	<1 UJ	<1 UJ	<1	<1	<10	ND	**6.9 U**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	5/14/2018	On-Site	Deep	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-28	5/13/2019	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29S	12/7/2010	On-Site	Shallow	<1	<1	<1	<1	**6.9**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**6.8**	<1	**1.5**	<1	ND	<1	<1	<1	<1	<1	<1	**2.0**	**3.4**	<1	<1	ND	ND
MW-29S	3/23/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1 UJ	**1.3**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.77 J**	<1	<1	ND	ND
MW-29S	6/29/2011	On-Site	Shallow	<1	<1	<1	<1	**0.44 J**	<1	<10	ND	<10 U	<1	<1	ND	<1	<1 UJ	<1	<1	**0.79 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.3**	<1	<1	ND	ND
MW-29S	9/27/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.9**	<1	<1	ND	ND
MW-29S	12/13/2011	On-Site	Shallow	<1	<1	**0.42 J**	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29S	3/14/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29S	7/17/2014	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**1.1**	<1	<1	ND	ND
MW-29S	7/28/2015	On-Site	Shallow	<1	**0.78 J**	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	**2.3**	<1	ND	ND
MW-29S	5/10/2016	On-Site	Shallow	<1	<1	<1	<1	<1 UJ	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	**1.3**	<1 UJ	ND	ND
MW-29S	4/4/2017	On-Site	Shallow	<1	**0.41 J**	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	**0.98 J**	<1	ND	ND
MW-29S	5/15/2018	On-Site	Shallow	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29S	5/14/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-29	**12/7/2010**	***On-Site***	***Deep***	<1	<1	<1	<1	**180 D**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**0.67 J**	<1	<1	<1	ND	<1	<1	**1.1**	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**3/23/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**150 D**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**6/29/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**160 D**	<1	<10	ND	<10 U	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**9/28/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**150 D**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**12/13/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**140**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**3/14/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	**130**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**11/6/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	**140**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	**1.4 J**	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**7/17/2014**	***On-Site***	***Deep***	<1	<1	<1	<1	**94**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**7/28/2015**	***On-Site***	***Deep***	<1	<1	<1	<1	**79**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**5/10/2016**	***On-Site***	***Deep***	<1	<1	<1	<1	**60 UJ**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	ND
MW-29	**4/4/2017**	***On-Site***	***Deep***	<1	**0.51 J**	<1	<1	**36**	<1	<10	ND	**3.8 UJ**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-29	**5/15/2018**	***On-Site***	***Deep***	<1	<1	<1	<1 UJ	**47**	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	ND	ND
MW-29	**5/14/2019**	***On-Site***	***Deep***	<1	<1	<1	<1	**56**	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**12/9/2010**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**1.0**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**3/22/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**6/28/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**9/27/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**12/13/2011**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1 UJ	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**3/13/2012**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**7/27/2015**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**5/5/2016**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**4/4/2017**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**5/14/2018**	***On-Site***	***Shallow***	<1	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-30S	**5/14/2019**	***On-Site***	***Shallow***	<1	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.97J**	<1 J	<1	<1	ND	<1	<1	<1	**16**	<1	ND	ND
MW-30	**12/9/2010**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**3/22/2011**	***On-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	**2.3**	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	**2.6**	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-30	**3/22/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**2.2**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	**1.8**	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**6/28/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**2.1**	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	**1.9**	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**9/27/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	**3.5**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	**2.3**	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**12/13/2011**	***On-Site***	***Deep***	<1	<1	**0.43 J**	<1	**0.64 J**	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1 UJ	<1	<1	ND	**0.39 J**	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**3/13/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**11/6/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**10/10/2013**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**7/27/2015**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**5/5/2016**	***On-Site***	***Deep***	<1	<1	<1	<1	**2.8**	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**4/4/2017**	***On-Site***	***Deep***	<1	**0.43 J**	<1	<1	**3.7**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	**1.8**	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**5/14/2018**	***On-Site***	***Deep***	<1	<1	<1	<1	**1.2**	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	**1.9**	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-30	**5/14/2019**	***On-Site***	***Deep***	<1	<1	<1	<1	**0.30J**	<1	**3.5 J**	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.68J**	<1 J	<1	**0.90J**	ND	**1.1**	<1	<1	<1	<1	<1	<1	<1	**4.2**	<1	ND	ND
MW-31S	**12/9/2010**	***Off-Site***	***Shallow***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.2**	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	NA
MW-31S	**12/9/2010**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	**2.2**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**3/23/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**6/30/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1 UJ	ND	<10	<5	26 UJ	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**9/28/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**12/15/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	16 U	<1	<1	<1 UJ	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**3/14/2012**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**7/30/2015**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31S	**5/4/2016**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-31S	**4/10/2017**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	**6.0 U**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-31S	**5/15/2018**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<5	<5	<1	<1	<1	<1	<1	ND	<1	<3	<10
MW-31S	**5/15/2019**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	**3.7 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-31	**12/9/2010**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	**4.9**	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8.9**	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.74**	**0.71**	ND	**0.32 J**	<1.0	NA
MW-31	**12/9/2010**	***Off-Site***	***Deep***	<1	<1	<1	<1	**5.0**	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**8.9**	ND	<1	<1	<1	<1	<1	<1	<1	**0.77 J**	ND	<1	<2	NA
MW-31	**3/23/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	**0.55 J**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31	**6/30/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	**3.6 J**	ND	<10	<5	<10 UJ	<1	<1 UJ	<1	<1	<1	<1 UJ	<1	<1	<1	**5.1**	ND	<1	<1	<1	<1	<1	<1	<1	**0.46 J**	ND	<1	<2	NA
MW-31	**9/28/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	**8.6**	ND	<10	<5	<10 UJ	<1	<1 UJ	<1	<1	<1	<1 UJ	<1	<1	<1	**16**	ND	<1	<1	<1	<1	<1	<1	**1.3**	**1.5**	ND	<1	<2	NA
MW-31	**12/15/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**3.8 UJ**	<1	<1 UJ	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	**3**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-31	**3/14/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	**10**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**16**	ND	<1	<1	<1	<1	<1	<1	**1.1**	**1.7**	ND	<1	<2	NA
MW-31	**11/6/2012**	***Off-Site***	***Deep***	<1	**0.32 J**	<1	<1	**12**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**19**	ND	<1	<1	<1	<1	<1	<1	**1.3**	**1.8**	ND	<1	<2	NA
MW-31	**10/10/2013**	***Off-Site***	***Deep***	<1	<1	<1	<1	**7.6**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**10**	ND	<1	<1	<1	<1	<1	<1	<1	**1**	ND	<1	<2	NA
MW-31	**7/30/2015**	***Off-Site***	***Deep***	<1	<1	<1	<1	**4.5**	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	**8.7**	ND	<1	<1	<1	<1	<1	<1	<1	**0.81 J**	ND	<1	<2	NA
MW-31	**5/4/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	**0.95 J**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	**1.5**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																													
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-31	4/6/2017	Off-Site	Deep	<1	<1	<1	<1	**8.4**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**15**	ND	<1	<1	<1	<1	<1	<1	**0.97 J**	**1.4**	ND	<1	<2	<5
MW-31	5/16/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	**4.5 JR**	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	**1.3**	ND	<1	<1	<5	<5	<1	<1	<1	<1	ND	<1	<3	<10
MW-31	5/15/2019	Off-Site	Deep	<1	**0.29 J**	<1	<1	**16**	ND	<10	<5	**3.6 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	**25**	ND	<1	**0.16 J**	<1	<1	<1	<1	**1.2**	**1.5**	ND	**3.1**	<2	<5
MW-32S	12/9/2010	Off-Site	Shallow	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	NA
MW-32S	12/9/2010	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	**2.9**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	3/24/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	**4.2 J**	<1	<1	<1	<1	<1	<1	<1	<1	**2.9**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	6/30/2011	Off-Site	Shallow	<1	<1	<1	<1	<1 UJ	ND	**6.5 J**	<5	**120 J**	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	9/29/2011	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10 UJ	<1	<10	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	12/15/2011	Off-Site	Shallow	<1 UJ	<1	<1	<1	<1	ND	<10	<1	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	3/15/2012	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	**3.2 J**	<1	**15**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	7/31/2015	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32S	5/5/2016	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<1 UJ	<1	**3.8 UJ**	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-32S	4/10/2017	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<1	<1	**43**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-32S	5/15/2018	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	ND	<1	<1	<5	<5	<1	<1	<1	<1	ND	<1	<3	<10
MW-32S	5/15/2019	Off-Site	Shallow	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-32	12/9/2010	Off-Site	Deep	<0.5	<0.5	<0.5	<0.5	**2.6**	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	**1.9**	ND	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	NA
MW-32	12/9/2010	Off-Site	Deep	<1	<1	<1	<1	**2.5**	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	**1.4**	<1	**2.0**	ND	<1	<1	<1	<1	**0.62 J**	<1	<1	<1	ND	<1	<2	NA
MW-32	3/24/2011	Off-Site	Deep	<1	<1	<1	<1	**1.9**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.2**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	6/30/2011	Off-Site	Deep	<1	<1	<1	<1	<1 UJ	ND	**5.1 J**	<5	50 UJ	<1	<1 UJ	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	9/29/2011	Off-Site	Deep	<1	<1	<1	<1	**2.1**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.7**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	12/15/2011	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	<1	**1.5**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	3/15/2012	Off-Site	Deep	<1	<1	<1	<1	**1.8**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.4**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	11/6/2012	Off-Site	Deep	<1	<1	<1	<1	**3.1**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**2.3**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	10/10/2013	Off-Site	Deep	<1	<1	<1	<1	**2**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.91**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	7/31/2015	Off-Site	Deep	<1	<1	<1	<1	**1.9**	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.3**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-32	5/5/2016	Off-Site	Deep	<1	<1	<1	<1	**1.5**	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-32	4/10/2017	Off-Site	Deep	<1	<1	<1	<1	**1.5**	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-32	5/16/2018	Off-Site	Deep	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	**0.57 J**	ND	<1	<1	<5	<5	<1	<1	<1	<1	ND	<1	<3	<10
MW-32	5/15/2019	Off-Site	Deep	<1	<1	<1	<1	**1.2**	ND	<10	<5	**3.0 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.84 J**	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-33S	12/13/2010	On-Site	Shallow	<1	<1	<1	<1	**190 D**	<1	<10 UJ	ND	<10 U	**3.6**	<1	ND	<1	<1	<1	<1	<1	**2.2**	<1	**40**	<1	ND	<1	<1	**2.6 DJ**	<1	<1	<1	**110 D**	<1	<1	ND	ND
MW-33S	3/23/2011	On-Site	Shallow	<1	<1	<1	<1	**29**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1 UJ	**1.1**	<1	**38**	<1	ND	<1	<1	<1	<1	<1	<1	**49**	<1	<1	ND	ND
MW-33S	6/29/2011	On-Site	Shallow	<1	<1	<1	<1	**58 D**	**1.2**	<10	ND	<10	**2.3 DJ**	<1	ND	<1	<1	<1	<1	**0.82 J**	<1	**63 D**	<1	ND	<1	<1	<1	<1	<1	**0.91 J**	**190**	<1	<1	ND	ND
MW-33S	9/28/2011	On-Site	Shallow	<1	**0.52 J**	<1	<1	**130 D**	**1.5**	<10	ND	<10	**2.4**	<1	ND	<1	<1	<1	<1	**0.83 J**	<1	**89 D**	<1	ND	<1	<1	<1	<1	<1	**0.97 J**	**190 D**	<1	<1	ND	ND
MW-33S	12/14/2011	On-Site	Shallow	<1	**0.35 J**	<1	<1	**140**	**1.4**	<10	ND	<10	**3.2**	<1	ND	<1 UJ	<1	<1	<1	**0.88 J**	<1 UJ	**60**	<1	ND	<1	<1	<1	<1	<1	**0.97 J**	**170**	<1	<1	ND	ND
MW-33S	3/14/2012	On-Site	Shallow	<1	<1	<1	<1	**18**	<1	<10	ND	<10	**0.55 J**	<1	ND	<1	<1	<1	<1	<1	<1	**23**	<1	ND	<1	<1	<1	<1	<1	<1	**100**	<1	<1	ND	ND
MW-33S	11/6/2012	On-Site	Shallow	<1	<1	<1	<1	**130**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**41**	<1	ND	<1	<1	<1	<1	<1	<1	**200**	<1	<1	ND	ND
MW-33S	7/29/2015	On-Site	Shallow	<1	<1	<1	<1	**17**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**66**	<1	ND	<1	<1	**2.3 J**	<1	<1	<1	**230**	<1	<1	ND	ND
MW-33S	5/6/2016	On-Site	Shallow	<4	<4	<4	<4	**11**	<4	<40	ND	<40	<4	<4	ND	<4 UJ	<4	<4	<4	<4	<4	**42**	<4	ND	<4	<4	**3.0 J**	<4	<4	<4	**140**	<4	<4	ND	ND
MW-33S	4/5/2017	On-Site	Shallow	<4	<4	<4	<4	**2.6 J**	<4	<40	ND	<40	<4	<4	ND	<4	<4	<4	<4	<4	<4	**37**	<4	ND	<4	<4	<4	<4 UJ	<4	<4	**140**	<4	<4	ND	ND
MW-33S	5/16/2018	On-Site	Shallow	<1	<1	<1 UJ	<1 UJ	**21**	**0.65 J**	<50 R	ND	<25 UR	**0.68 J**	<1	ND	<1 UJ	<1	<1	<1	**0.68 J**	<1	**34**	<1	ND	<1	<5	<5	<1	<1	<1	**180 J**	<1	<1	ND	ND
MW-33S	5/14/2019	On-Site	Shallow	<1	<1	<1	<1	**9.3**			ND	<10	**0.41 J**	<1	ND	<1	<1	<1	<1	**<1**	<1	**7.2**	<1	ND	<1	<1	<1	<1	<1	<1	**36**	<1	<1	ND	ND
MW-33	12/13/2010	On-Site	Deep	<1	**3.9**	<1	<1	**600 D**	<1	<10 UJ	ND	<10 U	**1.5**	<1	ND	<1	<1	<1	<1	<1	<1	**470 D**	<1	ND	**1.7**	<1	<1	<1	<1	<1	**20**	**3.8**	<1	**6.0**	ND	ND
MW-33	3/23/2011	On-Site	Deep	<1	**3.1**	<1	<1	**230**	<1	<10	ND	<10	**1.8**	<1	ND	<1	<1	<1	**6.2 U**	<1	<1	**360**	<1	ND	**0.96 J**	<1	<1	<1	<1	<1	**17**	**1.6**	<1	**8.2**	ND	ND
MW-33	6/29/2011	On-Site	Deep	<1	**3.8**	<1	<1	**380 D**	<1	<10	ND	<10	**1.7**	<1	ND	<1	<1 UJ	<1	**2.1**	<1	<1	**380 D**	<1	ND	**1.4**	<1	<1	<1	<1	<1	**19**	**1.4**	<1	**20 D**	ND	ND
MW-33	9/28/2011	On-Site	Deep	<1	**3.4**	<1	<1	**380 D**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	**1.1**	<1	<1	**370 D**	<1	ND	**1.8**	<1	<1	<1	<1	<1	**19 D**	<1 U	<1	**40 D**	ND	ND
MW-33	12/14/2011	On-Site	Deep	<5	**2.7 J**	<5	<5	**440**	<5	<50	ND	<50	<5	<5	ND	<5 UJ	<5	<5	<5	<5	<5 UJ	<5	<5	ND	<5	<5	<5	<5	<5	**17**	<5	<5	**67**	ND	ND
MW-33	3/14/2012	On-Site	Deep	<1	**1.2**	<1	<1	**350**	<1	<10	ND	**5.6 J**	**1.2**	<1	ND	<1	<1	<1	<1	<1	<1	**140**	<1	ND	**0.77 J**	<1	<1	<1	<1	<1	**7.9**	**1.2**	<1	**35**	ND	ND
MW-33	11/6/2012	On-Site	Deep	<5	**3.2 J**	<5	<5	**570**	<5	<50	ND	**<50**	<5	<5	ND	<5	<5	<5	**1.9 J**	<5	<5	**320**	<5	ND	**2.3 J**	<5	**6.0 J**	<5	<5	**16**	<5	<5	**40**	ND	ND
MW-33	7/29/2015	On-Site	Deep	<1	**2**	<1	<1	**690**	<1	<10	ND	<10	**2**	<1	ND	<1	<1	<1	<1	<1	<1	**320**	<1	ND	**1.3**	<1	<1	<1	<1	**15**	**2.2**	<1	**26**	ND	ND
MW-33	5/6/2016	On-Site	Deep	<10	<10	<10	<10	**600**	<10	<100	ND	<100	<10	<10	ND	<10 UJ	<10	<10	<10	<10	<10	**190**	<10	ND	<10	<10	**5.5 J**	<10	<10	**11**	<10	<10	**22**	ND	ND
MW-33	4/5/2017	On-Site	Deep	<10	<10	<10	<10	**780 F1**	<10	<100	ND	<100	<10	<10	ND	<10	<10	<10	<10	<10	<10	**170**	<10	ND	<10	<10	<10	<10 UJ	<10	**10**	<10	<10	**25**	ND	ND
MW-33	5/16/2018	On-Site	Deep	<5	**2.0 J**	<5	<5	**530**	<5	<250 R	ND	<130 R	**1.4 J**	<5	ND	<5	<5	<5	<5 UJ	<5	<5 UJ	**190**	<5	ND	**0.87 J**	<25	<25	<5	<5	**9.3**	**1.5 J**	<5	**22**	ND	ND
MW-33	5/17/2019	On-Site	Deep	<10	**<10**	<10	<10	**690**	<10	<100	ND	<100	<10	<10	ND	<10	<10	<10	<10	<10	<10	**190**	<10	ND	<10	<10	<10	<10	<10	**11**	**<10**	<10	**18**	ND	ND
MW-34S	12/14/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**0.81 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	3/23/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	6/29/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	**0.92 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	9/28/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.77 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	12/14/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	3/14/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**1.1**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	7/30/2015	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1 UJ	**1.6**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	5/6/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	**0.87 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-34S	4/5/2017	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.36 J**	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	ND
MW-34S	5/16/2018	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1 UJ	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-34S	5/14/2019	On-Site	Shallow	<2	<2	<2	<2	<2	<2	<2 J	ND	<20	<2	<2	ND	<2	<2	<2	<2	<2	<2 J	<2	<2	ND	<2	<2	<2	<2	<2	<2	<2	<2	<2	ND	ND
MW-34	12/14/2010	On-Site	Deep	<1	<1	<1	<1	**12**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**0.80 J**	<1	<1	<1	ND	<1	<1	**0.57 J**	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	3/23/2011	On-Site	Deep	<1	<1	<1	<1	**9.1**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	6/29/2011	On-Site	Deep	<1	<1	<1	<1	**9.9**	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	9/28/2011	On-Site	Deep	<1	<1	<1	<1	**22**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	**4.6**	<1	<1	<1	<1	<1	<1 U	<1	<1	ND	ND
MW-34	12/14/2011	On-Site	Deep	<1	<1	<1	<1	**14**	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	**0.36**	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	3/14/2012	On-Site	Deep	<1	<1	<1	<1	**10**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	11/6/2012	On-Site	Deep	<1	<1	<1	<1	**10**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	10/10/2013	On-Site	Deep	<1	<1	<1	<1	**10**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	10/10/2013	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	7/29/2015	On-Site	Deep	<1	<1	<1	<1	**8.7**	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-34	5/10/2016	On-Site	Deep	<1	<1	<1	<1	**11 UJ**	<1	<10 UJ	ND	**3.3 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	**2.4**	<1	<1	<1	<1	<1	**0.54 J**	<1	<1 UJ	ND	ND
MW-34	4/5/2017	On-Site	Deep	<1	<1	<1	<1	**13**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	**1.1**	<1	<1	<1 UJ	<1	<1	<1	<1	ND	ND
MW-34	5/16/2018	On-Site	Deep	<1	<1	<1	<1	**17**	<1	<50 R	ND	<10 UR	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1 UJ	**0.43 J**	**0.98 J**	ND	**3.2**	<5	<5	<1	<1	<1	**0.87 J**	<1	<1	ND	ND
MW-34	5/14/2019	On-Site	Deep	<1	<1	<1	<1	**21**	<1	<1	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	**3.3**	<1	<1	<1	<1	<1	<1	**0.80 J**	<1	<1	ND	ND
MW-35S	12/8/2010	On-Site	Shallow	**1.2**	**0.96 J**	<1	<1	**390 D**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**1.2**	<1	<1	<1	ND	<1	<1	**0.59 J**	<1	<1	<1	**1.6**	<1	<1	ND	ND
MW-35S	3/22/2011	On-Site	Shallow	**1.0**	<1	<1	<1	**260 D**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.3**	<1	<1	ND	ND
MW-35S	6/28/2011	On-Site	Shallow	**1.7**	<1	<1	<1	**68**	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.7**	<1	<1	ND	ND
MW-35S	9/27/2011	On-Site	Shallow	**1.3**	<1	<1	<1	**77**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2.3**	<1	<1	ND	ND
MW-35S	12/13/2011	On-Site	Shallow	**0.55 J**	<1	<1	<1	**16**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.7**	<1	<1	ND	ND
MW-35S	3/13/2012	On-Site	Shallow	**0.69 J**	<1	<1	<1	**6.9**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2**	<1	<1	ND	ND
MW-35S	7/27/2015	On-Site	Shallow	**1.3**	<1	<1	<1	**0.89 J**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.36 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2.2**	<1	<1	ND	ND
MW-35S	5/5/2016	On-Site	Shallow	**0.97 J**	<1	<1	<1	**1.1**	<1	<10	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.1**	<1	<1	ND	ND
MW-35S	4/4/2017	On-Site	Shallow	**0.79 J**	<1	<1	<1	**1.5**	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.3**	<1	<1	ND	ND
MW-35S	5/14/2018	On-Site	Shallow	**0.95 J**	<1	<1	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	**1.3**	<1	<1	ND	ND
MW-35S	5/14/2019	On-Site	Shallow	**1.3**	<1	<1	<1	<1	<1	<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	12/8/2010	On-Site	Deep	<1	<1	<1	<1	**34**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	3/21/2011	On-Site	Deep	<1	<1	<1	<1	**2.6**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	6/28/2011	On-Site	Deep	<1	<1	<1	<1	**4.0**	<1	<10	ND	<10	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	7/1/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	9/27/2011	On-Site	Deep	<1	<1	<1	<1	**4.7**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	12/13/2011	On-Site	Deep	<1	<1	<1	<1	**2.8**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	3/13/2012	On-Site	Deep	<1	<1	<1	<1	**1.1**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	7/27/2015	On-Site	Deep	<1	<1	<1	<1	**1.8**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	5/5/2016	On-Site	Deep	<1	<1	<1	<1	**1.5**	<1	<10	ND	<10 UJ	<1	<1	ND	<1 UJ	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	4/4/2017	On-Site	Deep	<1	<1	<1	<1	**1.4**	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	5/14/2018	On-Site	Deep	<1	<1	<1	<1 UJ	**13**	<1	<50 R	ND	**3.4 J R**	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	<1	<1	<1	ND	ND
MW-35	5/14/2019	On-Site	Deep	<1	<1	<1	<1	**1.1**		<10 J	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1 J	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36S	12/9/2010	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**8.4**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36S	3/24/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.46 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.49 J**	<1	<1	ND	ND
MW-36S	7/6/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 U	<1	<1	ND	<1	<1	<1	<1	**0.63 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.60 J**	<1	<1	ND	ND
MW-36S	9/29/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36S	12/19/2011	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.37**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**0.74**	<1	<1	ND	ND
MW-36S	3/15/2012	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**<1**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36S	10/8/2013	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.63 J**	<1	<1	ND	ND
MW-36S	12/11/2013	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	**0.49 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.52 J**	<1	<1	ND	ND
MW-36S	7/30/2015	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1 UJ	**0.59 J**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.62 J**	<1	<1	ND	ND
MW-36S	5/4/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10 J	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	**<1**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**<1**	<1	<1	ND	ND
MW-36S	8/10/2016	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	<10 J/UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	ND
MW-36S	10/19/2016	On-Site	Shallow	<1	<1 UJ	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	**0.74 J**	<1	<1	ND	ND
MW-36S	4/7/2017	On-Site	Shallow	<1	<1	<1	<1	<1	<1	<10	ND	**21 J**	<1	**0.85 J**	ND	<1 UJ	<1	<1	<1	**10**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36S	5/16/2018	On-Site	Shallow	<1	<1	<1 UJ	<1 UJ	<1	<1	<50 R	ND	<25 R	<1	<1	ND	<1 UJ	<1	<1	<1	**2.4**	<1	<1	<1	ND	<1	<5	<5	<1	<1	<1	**0.35 J**	<1	<1	ND	ND
MW-36S	5/16/2019	On-Site	Shallow	<1	<1	<1	<1	<1	<1	**6.4 J**	ND	<10	<1	<1	ND	<1	<1	<1	<1	**2.5**	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1.0	<1	<1	ND	ND
MW-36	12/9/2010	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.1**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	3/24/2011	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	**1.0**	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-36	3/24/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**0.92 J**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	7/5/2011	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND
MW-36	7/5/2011	On-Site	Deep	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	9/26/2011	On-Site	Deep	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	ND	NA	<0.5	<0.5	ND	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-36	**9/29/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.2**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**12/19/2011**	***On-Site***	***Deep***	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	ND	<0.50	<0.50	<0.50	ND	<0.50	NA	<0.50	<0.50	<0.50	<0.50	**1.7**	<0.50	ND	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND
MW-36	**12/19/2011**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.9**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**3/15/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**0.91**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**3/15/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1.1**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**11/7/2012**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2.1**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**10/8/2013**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**3.3**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**12/10/2013**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**3.2**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**7/30/2015**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1 UJ	<1	<1	<1 UJ	<1	<1	**3.3**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**5/4/2016**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10 UJ	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**8/9/2016**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	**1**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**10/19/2016**	***On-Site***	***Deep***	<1	<1 UJ	<1	<1	<1	<1	<10 UJ	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**2.1**	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**4/7/2017**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10 UJ	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-36	**5/16/2018**	***On-Site***	***Deep***	<1	<1	<1 UJ	<1 UJ	<1	<1	<50 R	ND	<10 R	<1	<1	ND	<1 UJ	<1	<1	<1	<1	<1	**0.60 J**	<1	ND	<1	<5	<5	<1	<1	<1	<1 UJ	<1	ND	ND
MW-36	**5/16/2019**	***On-Site***	***Deep***	<1	<1	<1	<1	<1	<1	<10	ND	<10	<1	<1	ND	<1	<1	<1	<1	<1	<1	**<1**	<1	ND	<1	<1	**0.55 J**	<1	<1	<1	<1	<1	ND	ND
MW-37S	**12/8/2010**	***Off-Site***	***Shallow***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**	<0.5	**4.4**	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.0**	ND	<0.5	<1.0	NA
MW-37S	**12/8/2010**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**1.4**	<1	**3.8**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**3.9**	ND	<1	<2	NA
MW-37S	**3/24/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**0.98 J**	<1	**0.67 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**2.5**	ND	<1	<2	NA
MW-37S	**7/1/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10 UJ	<5	42 UJ	<1	<1	<1	<1	<1	**1.2**	<1	**1.2**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**3.2**	ND	<1	<2	NA
MW-37S	**9/29/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**2.2**	<1	**1.0**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**5.6**	ND	<1	<2	NA
MW-37S	**12/15/2011**	***Off-Site***	***Shallow***	<1 UJ	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	**2**	<1	**0.64 J**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**4.2**	ND	<1	<2	NA
MW-37S	**3/15/2012**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**1.2**	<1	**0.4**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**2.7**	ND	<1	<2	<5 J
MW-37	**12/8/2010**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	**0.89**	ND	NA	NA	NA	**0.52**	<0.5	<0.5	<0.5	<0.5	**800 D**	<0.5	**650 D**	<0.5	**0.39 J**	ND	<0.5	<0.5	<0.5	<0.5	**70 D**	**1.2**	<0.5	**41 D**	ND	<0.5	<1.0	NA
MW-37	**12/8/2010**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<100	<100	<10	<10	<10	<10	<10	**620 D**	<10	**620 D**	<10	<10	ND	<10	<10	<10	<10	**14 D**	<10	<10	**40 D**	ND	<10	<20	NA
MW-37[3]	**3/24/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	**2.4**	<0.5	<0.5	<0.5	<0.5	<0.5	**98 J**	<0.5	**86 J**	<0.5	<0.5	ND	<0.5	<0.5	<0.5	**6.5**	<0.5	<0.5	<0.5	**26**	ND	<0.5	<1.0	NA
MW-37	**3/24/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**86**	<1	**67**	<1	<1	ND	<1	<1	<1	**0.49 J**	<1	<1	<1	**18**	ND	<1	<2	NA
MW-37	**7/1/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	**260 D**	<0.5	**150 D**	<0.5	<0.5	ND	<0.5	<0.5	<0.5	**12 DJ**	<0.5	<0.5	<0.5	**54**	ND	<0.5	<1.0	NA
MW-37	**7/1/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	**280 D**	<1	**180 D**	<1	<1	ND	<1	<1	<1	**2.6**	<1	<1	<1	**52**	ND	<1	<2	NA
MW-37	**9/29/2011**	***Off-Site***	***Deep***	<2.5	<2.5	<2.5	<2.5	<2.5	ND	NA	NA	NA	<2.5	<2.5	<2.5	<2.5	<2.5	**200 D**	<2.5	**94 D**	<2.5	<2.5	ND	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**48 D**	ND	<2.5	<2.5	NA
MW-37	**9/29/2011**	***Off-Site***	***Deep***	<5	<5	<5	<5	<5	ND	<50	<25	<50	<5	<5	<5	<5	<5	**250 D**	<5	**110 D**	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	**59 D**	ND	<5	<10	NA
MW-37	**12/20/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	**2.8**	**4.1**	<0.5	<0.5	<0.5	<0.5	<0.5	**220**	<0.5	**78**	<0.5	<0.5	ND	<0.5	<0.5	<0.5	**0.94**	<0.5	<0.5	<0.5	**48**	ND	<0.5	<1	NA
MW-37	**12/20/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	**2.6 J**	**3.7 J**	<1	<1	<1	<1	<1	**260**	<1	**87**	<1	<1	ND	<1	<1	<1	**1.2**	<1	<1	<1	**54**	ND	<1	<1	NA
MW-37	**3/15/2012**	***Off-Site***	***Deep***	<5	<5	<5	<5	<5	ND	<50	<5	<5	<5	<5	<5	<5	<5	**420**	<5	**150**	<5	<5	ND	<5	<5	<5	<5	<5	<5	<5	**38**	ND	<5	<10	NA
MW-37	**3/15/2012**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<10	<100	<10	<10	<10	<10	<10	**430**	<10	**150**	<10	<10	ND	<10	<10	<10	<10	<10	<10	<10	**42**	ND	<10	<20	NA
MW-37	**11/6/2012**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<10	<100	<10	<10	<10	<10	**2.9 J**	**450**	<10	**280**	<10	<10	ND	<10	<10	<10	**5.5**	<10	<10	<10	**110**	ND	<10	<20	NA
MW-37	**8/12/2013**	***Off-Site***	***Deep***	<8	<8 U	<8	<8	<8	ND	<80	<8	<80	<8	<8	<8	<8	<8	**460**	<8	**250**	<8	<8	ND	<8	<8	<8	**3.7 J**	<8	<8	<8	**56**	ND	<8	<20	NA
MW-37	**10/8/2013**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<10	<100	<10	<10	<10	<10	<10	**960**	<10	**220**	<10	<10	ND	<10	<10	<10	**8.7 J**	<10	<10	<10	**130**	ND	<10	<20	NA
MW-101	**10/8/2013**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<10	<100	<10	<10	<10	<10	<10	**1100**	<10	**250**	<10	<10	ND	<10	<10	<10	**19 J**	<10	<10	<10	**140**	ND	<10	<20	NA
MW-37	**12/10/2013**	***Off-Site***	***Deep***	<8	<8	<8	<8	<8	ND	<8	<8	<80	<8	<8	<8	<8	<8	**590**	<8	**160**	<8	<8	ND	<8	<8	<8	<8	<8	<8	<8	**91**	ND	<8	<16	NA
MW-101	**12/10/2013**	***Off-Site***	***Deep***	<1	<1	<1	<1	**0.40 J**	ND	<10	<1	<10	<1	<1	<1	<1	**0.59 J**	**550**	<1	**160**	<1	<1	ND	<1	<1	<1	**2.1**	<1	<1	<1	**89**	ND	<1	<2	NA
MW-37	**7/15/2014**	***Off-Site***	***Deep***	<8	<8	<8	<8	<8	ND	<80	<8	<80	<8	<8	<8	<8	<8	**410**	<8	**110**	<8	<8	ND	<8	<8	<8	<8	<8	<8	<8	**84**	ND	<8	<16	NA
MW-101	**7/15/2014**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<10	<100	<10	<10	<10	<10	<10	**410**	<10	**110**	<10	<10	ND	<10	<10	<10	<10	<10	<10	<10	**84**	ND	<10	<20	NA
MW-37	**7/29/2015**	***Off-Site***	***Deep***	<4	<4	<4	<4	<4	ND	<40	<4	<40	<4	<4	<4	<4	<4	**310**	<4	**77**	<4	<4	ND	<4	<4	<4	**10**	<4	<4	<4	**75**	ND	<4	<8	NA
MW-37	**7/29/2015**	***Off-Site***	***Deep***	<8	<8	<8	<8	<8	ND	<80	<8	<80	<8	<8	<8	<8	<8	**330**	<5	**93**	<8	<8	ND	<8	<8	<8	**6.0 J**	<8	<8	<8	**91**	ND	<8	<8	NA
MW-37	**5/3/2016**	***Off-Site***	***Deep***	<10	<10	<10	<10	<10	ND	<100	<10	<100	<10	<10	<10	<10	<10	**670**	<10	**98**	<10	<10	ND	<10	<10	<10	**28**	<10	<10	<10	**50**	ND	<10	<10	NA
MW-37	**5/3/2016**	***Off-Site***	***Deep***	<20	<20	<20	<20	<20	ND	<200	<20	<200	<20	<20	<20	<20	<20	**690**	<20	**92**	<20	<20	ND	<20	<20	<20	<20	<20	<20	<20	**46**	ND	<20	<20	<100
MW-37	**8/9/2016**	***Off-Site***	***Deep***	<5.0	<5.0	<5.0	<5.0	<5.0	ND	<50	<25	<50 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	**280**	<5.0	**94**	<5.0	<5.0	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**96**	ND	<5.0	<10	**120**
MW-100	**8/9/2016**	***Off-Site***	***Deep***	<5.0	<5.0	<5.0	<5.0	<5.0	ND	<50	<25	<50 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	**290**	<5.0	**95**	<5.0	<5.0	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**99**	ND	<5.0	<10	**110**
MW-37	**10/20/2016**	***Off-Site***	***Deep***	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<40	<20	<40 UJ	<4.0	<4.0	<4.0	<4.0	<4.0	**160 J**	<4.0	**48**	<4.0 UJ	<4.0	ND	<4.0	<4.0	<4.0	<4.0	<4.0 UJ	<4.0	<4.0	**81**	ND	<4.0	<10	<20
MW-101	**10/20/2016**	***Off-Site***	***Deep***	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<40	<20	<40 UJ	<4.0	<4.0	<4.0	<4.0	<4.0	**170 J**	<4.0	**62**	<4.0 UJ	<4.0	ND	<4.0	<4.0	<4.0	<4.0	<4.0 UJ	<4.0	<4.0	**84**	ND	<4.0	<10	<20
MW-37	**4/13/2017**	***Off-Site***	***Deep***	<2	<2	<2	<2	<2	ND	<2	<2	NA	<2	<2	<2	<2	<2	**28**	<2	**14**	<2	<2	ND	<2	<2	<2	**4.5 J***	<2	<2	<2	**18**	ND	<2	<4	NA
MW-37	**4/13/2017**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<1	**4.0 J**	<1	<1	<1	<1	<1	**28**	<1 UJ	**15**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**19**	ND	<1	<2	NA
MW-37	**5/18/2018**	***Off-Site***	***Deep***	<4	<4	<4	<4	<4	ND	<40	<20	<40 UJ	<4	<4	<4	<4	<4 UJ	<4	**87**	<4	**72**	<4	<4	ND	<4	<4	<4	<4	<4	<4	<4	**45**	ND	<4	<8	<20
MW-37	**5/15/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	<1	**58**	<1	**27**	<1	<1	ND	<1	<1	<1	**0.76 J**	<1	<1	<1	**42**	ND	<1	<2	NA
MW-101	**5/15/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	**0.45 J**	<1	**22**	ND	<1	<1	<1	**0.76 J**	<1	<1	<1	**2.5**	ND	<1	<2	NA
MW-38S	**12/9/2010**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**3/24/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**3/24/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**12/20/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**3/15/2012**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**7/24/2015**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																														
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran
MW-38S	**5/4/2016**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**4/10/2017**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38S	**5/16/2018**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	<1 UJ	ND	<1	<1	<1	<5	<5	<1	<1	<1	ND	<1	<3	<10
MW-38S	**5/15/2019**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	<1	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<5
MW-38	**12/9/2010**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-103	**12/9/2010**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**3/25/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	**0.28 J**	<0.5	<0.5	<0.5	<0.5	**20**	<0.5	<0.5	ND	<0.5	**0.52 J**	NA
MW-38	**3/25/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5 UJ	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	**15**	<1	<1	ND	<1	<2	NA
MW-103	**3/25/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5 UJ	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	ND	<1	<1	<1	<1	<1	<1	**16**	<1	<1	ND	<1	<2	NA
MW-38	**7/5/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1	NA
MW-38	**7/5/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-103	**7/5/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**10/3/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1	NA
MW-38	**10/3/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-103	**10/3/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**12/20/2011**	***Off-Site***	***Deep***	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	NA
MW-38	**12/20/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-103	**12/20/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**3/15/2012**	***Off-Site***	***Deep***	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	**6.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	NA
MW-38	**3/15/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	**1.5 J**	<1	**7.1 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-103	**3/15/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	**1.5 J**	<5	**6.8 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**10/7/2012**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**4.6 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**12/11/2013**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**7/15/2014**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**3.5 J**	<1	<1	<1	<1	<1	**0.33 J**	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**7/30/2015**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1	NA
MW-38	**7/30/2015**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-103	**7/30/2015**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1 UJ	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	NA
MW-38	**5/4/2016**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1	NA
MW-38	**5/4/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10 UJ	<5	<10 UJ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-103	**5/4/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38	**8/10/2016**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 J/UJ	<1	<1	<1	<1	<1	**0.67 J**	<1	<1	<1	<1	ND	<1	<1	<1	<1 UJ	<1	<1	<1	<1	ND	<1	<2	<5
MW-38	**10/19/2016**	***Off-Site***	***Deep***	<1	<1 UJ	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1 UJ	<2	<5
MW-38	**4/10/2017**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**3.6 U**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38	**4/10/2017**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1	NA
MW-103	**4/10/2017**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-38	**5/16/2018**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1	<1	<1	<1	<1	<1 UJ	<1	ND	<1	<1	<5	<5	<1	<1	<1	<1	ND	<1	<3	<10
MW-103	**5/16/2018**	***Off-Site***	***Deep***	<1	<1	<1 UJ	<1 UJ	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<1	<5	<5	<1	<1	<1	<1 UJ	ND	<1	<3	<10
MW-38	**5/16/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-103	**5/16/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	**4.1 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-39S	**4/19/2011**	***Off-Site***	***Shallow***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<1.0	<1.0
MW-39S	**4/19/2011**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1 UJ	ND	<10 UJ	<5 UJ	<10 UJ	<1	<1	<1	<1	<1	**1.8**	<1	<1	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	<1	ND	<1	<2	<2
MW-39S	**5/15/2019**	***Off-Site***	***Shallow***	<1	<1	<1	<1	<1	ND	**15**	<5	**28**	<1	<1	<1	<1	<1	**1.8**	<1	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<1	ND	<1	<2	<5
MW-39	**4/19/2011**	***Off-Site***	***Deep***	<0.5	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	**26 D**	<0.5	**18 D**	<0.5	<0.5	ND	**0.28 J**	<0.5	<0.5	<0.5	**0.42 J**	<0.5	<0.5	**1.1**	ND	<0.5	**0.52 J**	**0.52 J**
MW-39	**4/19/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1 UJ	ND	<10 UJ	<5 UJ	<10 UJ	<1	<1	<1	<1	<1	**21**	<1	**13**	<1	<1	ND	<1	<1 UJ	<1	<1	<1	<1	<1	**1.0**	ND	<1	<2	<2
MW-39	**10/20/2011**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10	<1	<1	<1	<1	<1	**29**	<1	**28**	<1	<1	ND	<1	<1	<1	<1	<1	**0.63 J**	<1	<1	**1.9**	ND	<1	<2	<2
MW-39	**4/12/2017**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<10	<5	<10 UJ	<1	<1	<1	<1	<1	**37**	<1 UJ	**15**	<1 UJ	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.75 J**	ND	<1 UJ	<2	<2
MW-39	**5/17/2018**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	<50 R	<10	<25 R	<1	<1	<1	<1 UJ	<1	**8.9**	<1	**5.8**	<1	<1	ND	<1	<1	<5	<5	<1	<1	<1	**0.65 J**	ND	<1 UJ	<3	<10
MW-39	**5/15/2019**	***Off-Site***	***Deep***	<1	<1	<1	<1	<1	ND	**1.3 J**	<5	**4.2 J**	<1	<1	<1	<1	<1	**16**	<1	**5.7**	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	**0.62 J**	ND	<1	<2	<5

Notes:

Volatile Organic Compound (VOC) analysis via EPA Methods 8260B, 8260C or 524.2 as indicated.

All groundwater analyses conducted via NYSDEC 2005 Analytical Services Protocol.

Bold value indicates detection of constituent above the laboratory reporting limit.

ND = No Tentatively Identified Compounds detected at or above the laboratory reporting limit.

NA = Not analyzed.

Results are reported in micrograms per liter (µg/l) or parts per billion (ppb).

Organic Data Qualifiers

B = Analyte is found in the associated laboratory blank as well as in the sample.

D = Sample was diluted due to high concentration of target analyte(s).

E = Compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

F1 = MS and/or MSD Recovery is outside acceptance limits.

J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Volatile Organic Compounds (VOC's)																																		
Well	Date Sampled	Well Location	Well Depth	1,1,2-Trichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methyl-t-Butyl Ether (MTBE)[7]	Methylcyclohexane	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	Tetrahydrofuran

N = Indicates presumptive evidence of a compound. This flag is used only for TICs, where the identification is based on the mass spectral library search.

R = Presumptive evidence of material.

T = Result is a tentatively identified compound (TIC) and an estimated value.

U = Sample concentrations of target compounds less than 5X (less than 10X for acetone) the concentration detected in equipment blanks are considered undetected, "U".

UJ = Indicates an estimated non-detect value due to an exceedance of quality control limits in the continuing calibration verification (CCV).

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-1S	12/9/2010	On-Site	Shallow	97	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	125
MW-1S	3/22/2011	On-Site	Shallow	68	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73.1
MW-1S	6/29/2011	On-Site	Shallow	67	ND	ND	ND	ND	ND	0.92 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71
MW-1S	9/28/2011	On-Site	Shallow	91	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	98.3
MW-1S	12/13/2011	On-Site	Shallow	75	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.5
MW-1S	3/14/2012	On-Site	Shallow	60	ND	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67.51
MW-1S	7/17/2014	On-Site	Shallow	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63.4
MW-1S	7/28/2015	On-Site	Shallow	24 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5
MW-1S	5/10/2016	On-Site	Shallow	12 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-1S	4/6/2017	On-Site	Shallow	15 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5
MW-1S	5/15/2018	On-Site	Shallow	24	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.4
MW-1S	5/13/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
MW-1	11/14/2006	On-Site	Deep	2000JND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-1A	11/14/2006	On-Site	Deep	1900JND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-1	8/16/2007	On-Site	Deep	910JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55
MW-1	10/8/2007	On-Site	Deep	430JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55
MW-1	10/13/2009	On-Site	Deep	1000	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1043.3
MW-1	12/8/2010	On-Site	Deep	940	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	984.9
MW-1	3/22/2011	On-Site	Deep	580 E	ND	ND	ND	ND	ND	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.78
MW-1	6/29/2011	On-Site	Deep	680 E	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.5
MW-1	9/28/2011	On-Site	Deep	780 E	ND	ND	ND	ND	ND	0.87 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.7
MW-1	12/14/2011	On-Site	Deep	600 E	ND	ND	ND	ND	ND	0.91 J	ND	ND	ND	ND	ND	ND	ND	7.2 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.9
MW-1	3/14/2012	On-Site	Deep	500 E	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.2
MW-1	11/6/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38
MW-1	10/9/2013	On-Site	Deep	790 E	ND	ND	ND	ND	ND	0.99 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41
MW-1	7/17/2014	On-Site	Deep	530 E	ND	ND	ND	ND	ND	0.79 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.8
MW-1	7/28/2015	On-Site	Deep	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	119.3
MW-1	5/10/2016	On-Site	Deep	83 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-1	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-1	5/15/2018	On-Site	Deep	77	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81.3
MW-1	5/15/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-2	11/13/2006	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-2	10/10/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3S	12/16/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28
MW-3S	3/22/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3	11/13/2006	On-Site	Deep	66JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3	8/13/2007	On-Site	Deep	83JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3A	8/13/2007	On-Site	Deep	100JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3	10/8/2007	On-Site	Deep	47JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	620
MW-3	10/13/2009	On-Site	Deep	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	690
MW-3	12/10/2010	On-Site	Deep	ND	ND	ND	58 D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3	3/22/2011	On-Site	Deep	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.2
MW-3	6/28/2011	On-Site	Deep	75 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-3	11/6/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
MW-3	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
MW-3	5/9/2016	On-Site	Deep	7.6 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2
MW-3	4/4/2017	On-Site	Deep	ND	ND	ND	11 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71
MW-3	5/15/2018	On-Site	Deep	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43
MW-4	11/14/2006	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	12/14/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2
MW-5S	3/23/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-5S	6/30/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	9/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	12/14/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	3/15/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	7/29/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	5/5/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	4/6/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5S	5/16/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29
MW-5S	5/16/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5	11/13/2006	On-Site	Deep	18JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-5	8/14/2007	On-Site	Deep	21JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24
MW-5	10/8/2007	On-Site	Deep	11JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	520
MW-5	4/14/2008	On-Site	Deep	19JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5	10/14/2009	On-Site	Deep	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	562.5
MW-5	12/8/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-5	3/23/2011	On-Site	Deep	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	408.7
MW-5	7/5/2011	On-Site	Deep	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.1
MW-5	9/29/2011	On-Site	Deep	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	546
MW-5	12/14/2011	On-Site	Deep	17 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	435.2
MW-5	3/15/2012	On-Site	Deep	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	402.6
MW-5	11/6/2012	On-Site	Deep	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	482.2
MW-5	10/10/2013	On-Site	Deep	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	509.3
MW-5	7/29/2015	On-Site	Deep	8.8 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	483.9
MW-5	5/5/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	331.7
MW-5	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	348.2
MW-5	5/17/2018	On-Site	Deep	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	261.3
MW-5	5/15/2019	On-Site	Deep	0.5 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7 TN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.9
MW-6	11/13/2006	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30
MW-6	8/15/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29
MW-6	10/8/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31
MW-6A	10/8/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31
MW-6	4/14/2008	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28
MW-6	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.1
MW-6	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28
MW-6	12/10/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26
MW-6	3/22/2011	On-Site	Deep	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.3
MW-6	7/1/2011	On-Site	Deep	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.9
MW-6	9/29/2011	On-Site	Deep	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.9
MW-6	12/15/2011	On-Site	Deep	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.7
MW-6	3/15/2012	On-Site	Deep	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.7
MW-6	7/29/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31
MW-6	5/4/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.8
MW-6	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.5
MW-6	5/16/2018	On-Site	Deep	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.5
MW-6	5/14/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.1
MW-7	11/13/2006	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	10/8/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	10/13/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	10/13/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	12/8/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	3/21/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	6/28/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	9/27/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	12/13/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	3/13/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	7/27/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	5/5/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	4/4/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	5/14/2018	On-Site	Deep	0.37 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-7	5/14/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-8	11/14/2006	On-Site	Deep	6JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-8	8/15/2007	On-Site	Deep	10JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260
MW-8	10/10/2007	On-Site	Deep	4JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
MW-8	4/14/2008	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-8	10/14/2009	On-Site	Deep	7.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	237.6
MW-8	12/7/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
MW-8	3/24/2011	On-Site	Deep	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	98.17
MW-8	7/5/2011	On-Site	Deep	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.2
MW-8	9/29/2011	On-Site	Deep	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.7
MW-8	12/19/2011	On-Site	Deep	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	220.51
MW-8	3/15/2012	On-Site	Deep	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	188.6

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	TOtal VOCs
MW-8	11/7/2012	On-Site	Deep	**15**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	278.8
MW-8	10/8/2013	On-Site	Deep	**15**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270.2
MW-8	7/31/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230.3
MW-8	5/4/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	195.5
MW-8	8/10/2016	On-Site	Deep	**8 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.9
MW-8	10/19/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	264.2
MW-8	4/7/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.7
MW-8	5/17/2018	On-Site	Deep	**0.31 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**140**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294
MW-8	5/16/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.8
MW-9S	10/16/2009	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.14
MW-9S	10/16/2009	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	12/8/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	3/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	7/6/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	10/4/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	12/21/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.9 TJN**	**150**	**3.0 TJN**	**430**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	580
MW-9S	3/20/2012	On-Site	Shallow	ND	**2.8 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	11/8/2012	On-Site	Shallow	ND	**ND**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	10/10/2013	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31
MW-9S	12/10/2013	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	7/16/2014	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	7/31/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	5/5/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.3 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	8/9/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	10/19/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	4/12/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	5/17/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**20 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-9S	5/16/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
MW-9	8/15/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
MW-9	10/8/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76
MW-9	4/14/2008	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	105
MW-9	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	102
MW-100	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	105
MW-9	12/7/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65
MW-100	12/7/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	57.9
MW-9	3/28/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.5
MW-100	3/28/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.6
MW-9	7/6/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.3
MW-100	7/6/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.4
MW-9	9/30/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	**26 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37
MW-100	9/30/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.8
MW-9	12/20/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.8
MW-100	12/20/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.8
MW-9	3/16/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48.7
MW-100	3/16/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.8
MW-9	11/7/2012	On-Site	Deep	**0.82 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.4
MW-100	11/7/2012	On-Site	Deep	**0.74 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.3
MW-9	10/9/2013	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	234.1
MW-9	12/10/2013	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	164.1
MW-9	7/16/2014	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	207.7
MW-9	7/30/2015	On-Site	Deep	ND	11 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54.7
MW-100	7/30/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58
MW-9	5/4/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	355.2
MW-100	5/4/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	429
MW-9	8/9/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.3
MW-9	10/19/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.5
MW-9	4/11/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1
MW-100	4/11/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.7 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7
MW-9	5/17/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-100	5/17/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	**86**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	87.7
MW-9	5/16/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.7

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-100	**5/16/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.7
MW-10	**10/8/2007**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MW-10	**4/14/2008**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-10	**10/13/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6
MW-10	**10/13/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.7
MW-10	**12/8/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
MW-10	**3/21/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
MW-10	**6/28/2011**	***On-Site***	***Deep***	ND	**5.6 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
MW-10	**9/28/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
MW-10	**12/13/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2
MW-10	**3/13/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5
MW-10	**11/6/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5
MW-10	**10/9/2013**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6
MW-10	**7/27/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4
MW-10	**5/5/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3
MW-10	**4/4/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.0 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3
MW-10	**5/16/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7
MW-10	**5/14/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
MW-11	**10/8/2007**	***On-Site***	***Deep***	ND	ND	**4.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
MW-11	**10/13/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**10/13/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**12/10/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**3/21/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	**2.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1
MW-11	**6/28/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	**4.6 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-11	**9/27/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	**0.53**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53
MW-11	**12/13/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6
MW-11	**3/13/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	**0.99 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**7/27/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**5/5/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**4/4/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**5/14/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-11	**5/14/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-12	**10/9/2007**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-12	**10/15/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-12	**10/15/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-12	**12/6/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
MW-12	**3/22/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-12	**6/28/2011**	***On-Site***	***Deep***	ND	**6.6 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7
MW-12	**9/27/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.5
MW-12	**12/13/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
MW-12	**3/13/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7
MW-12	**7/27/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8
MW-12	**5/5/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.6
MW-12	**4/4/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
MW-12	**5/14/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15
MW-12	**5/13/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24
MW-13	**11/12/2007**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**10/13/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**10/13/2009**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**12/6/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**3/22/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**6/28/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**9/27/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**12/13/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**3/13/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**7/28/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**5/6/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**4/11/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**5/15/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-13	**5/13/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	**10/9/2007**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	TOtal VOCs
MW-14	10/13/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	10/13/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	12/6/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	3/22/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	6/28/2011	On-Site	Deep	ND	**8.2 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	9/28/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	12/13/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	**0.38 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	3/13/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	11/6/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	10/9/2013	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	5/5/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	5/15/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-14	5/14/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	10/9/2007	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	12/9/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	3/22/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	6/30/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	9/28/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	12/13/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	3/14/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	7/31/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	5/6/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	5/16/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-15	5/13/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-16S	3/16/2012	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-16S	7/24/2015	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
MW-16S	4/12/2017	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-16S	5/16/2018	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-16S	5/14/2019	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.7 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-16	10/11/2007	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17
MW-16	4/14/2008	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-16	10/14/2009	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.9
MW-16	10/14/2009	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6
MW-16	12/7/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.9
MW-16	12/7/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.3
MW-16	3/24/2011	Off-Site	Deep	ND	ND	ND	ND	**0.96 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8
MW-16	7/5/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6
MW-16	10/4/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.8
MW-16	12/15/2011	Off-Site	Deep	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.6
MW-16	3/16/2012	Off-Site	Deep	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.7
MW-16	11/6/2012	Off-Site	Deep	**2.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.6
MW-16	10/9/2013	Off-Site	Deep	**2.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.7
MW-16	12/11/2013	Off-Site	Deep	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.2
MW-16	7/30/2015	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.3
MW-16	5/4/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3
MW-16	8/10/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.9
MW-16	10/19/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9
MW-16	4/7/2017	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6
MW-16	5/16/2018	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8
MW-16	5/14/2019	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9
MW-17S	12/17/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	12/17/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	12/8/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	3/30/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	7/5/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	9/30/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-17S	12/16/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	3/20/2012	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58
MW-17S	7/16/2014	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	7/24/2015	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	5/3/2016	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	4/11/2017	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	5/17/2018	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17S	5/15/2019	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.0 TJN**	ND	ND	ND	ND	ND	18
MW-17	12/8/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	12/8/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	3/28/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8
MW-17	6/30/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.4 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	9/30/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	12/15/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	3/19/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	11/7/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	10/8/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	12/11/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	7/16/2014	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	7/24/2015	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	5/3/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	8/9/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	10/19/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	4/11/2017	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	5/16/2018	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-17	5/15/2019	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	10/15/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53
MW-18S	10/15/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	12/9/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	3/28/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76
MW-18S	6/30/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.3 J**	ND	ND	ND	ND	**1.2 J**	ND	ND	ND	ND	ND	0
MW-18S	9/30/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	12/19/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	3/20/2012	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	10/9/2013	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	12/10/2013	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7
MW-18S	7/16/2014	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	7/30/2015	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19
MW-18S	5/4/2016	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	10/19/2016	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	4/11/2017	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.6 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	5/15/2018	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18S	5/15/2019	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17
MW-18	10/11/2007	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	4/14/2008	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	10/12/2009	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	10/12/2009	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	12/9/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	12/9/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	3/28/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	6/30/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	9/29/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	12/16/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	3/15/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	11/7/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	10/8/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	12/10/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	7/15/2014	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	7/30/2015	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	5/4/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	8/10/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-18	**10/19/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	**4/11/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	**5/16/2018**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-18	**5/16/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-19S	**10/15/2009**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.8
MW-19S	**10/15/2009**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52
MW-19S	**4/8/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.98
MW-19S	**4/8/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39
MW-19S	**12/7/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.8
MW-19S	**3/25/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.5
MW-19S	**7/5/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.7
MW-19S	**10/4/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.9
MW-19S	**12/19/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.23
MW-19S	**3/19/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.7
MW-19S	**11/7/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66.1
MW-19S	**10/9/2013**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73.3
MW-19S	**12/11/2013**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.5
MW-19S	**7/16/2014**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.4
MW-19S	**7/30/2015**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.3
MW-19S	**5/3/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.7
MW-19S	**8/10/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.4
MW-19S	**8/10/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52
MW-19S	**4/11/2017**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.5
MW-19S	**5/15/2018**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.5
MW-19S	**5/16/2019**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.2
MW-19	**10/15/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9
MW-19	**10/15/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-19	**4/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9
MW-19	**4/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-19	**12/7/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.5
MW-19	**3/25/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6
MW-19	**7/5/2011**	***Off-Site***	***Deep***	**0.85 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-19	**10/3/2011**	***Off-Site***	***Deep***	**0.99 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7
MW-19	**12/16/2011**	***Off-Site***	***Deep***	**1.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6
MW-19	**3/15/2012**	***Off-Site***	***Deep***	**0.90 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
MW-19	**11/7/2012**	***Off-Site***	***Deep***	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6
MW-19	**10/9/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.7
MW-19	**12/11/2013**	***Off-Site***	***Deep***	**0.78 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.1
MW-19	**7/16/2014**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2
MW-19	**7/31/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
MW-19	**5/3/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1
MW-19	**8/10/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.7
MW-19	**10/19/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13
MW-19	**4/7/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6
MW-19	**5/17/2018**	***Off-Site***	***Deep***	**0.36 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9
MW-19	**5/16/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.4
MW-20S	**10/16/2009**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**10/16/2009**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**4/8/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**4/8/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**12/9/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
MW-20S	**3/24/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**7/5/2011**	***On-Site***	***Shallow***	**0.73 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**10/4/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**12/21/2011**	***On-Site***	***Shallow***	ND	**4.6 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	1.2
MW-20S	**3/16/2012**	***On-Site***	***Shallow***	**0.76 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**11/6/2012**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**10/9/2013**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**7/30/2015**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**5/4/2016**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	**8/10/2016**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-20S	10/19/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	4/12/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	5/15/2018	On-Site	Shallow	0.40 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20S	5/15/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	10/14/2009	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	4/8/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	4/8/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	12/9/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	3/24/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	7/1/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	9/30/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	12/20/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	3/16/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	11/6/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	10/10/2013	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	7/30/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	5/4/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	8/10/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	10/19/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	5/17/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-20	5/15/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-21S	10/15/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.05
MW-21S	10/15/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-21S	4/7/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.21
MW-21S	4/7/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.6
MW-21S	12/8/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.9
MW-21S	3/29/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9
MW-21S	7/1/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.7
MW-21S	9/30/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.3
MW-21S	12/16/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8
MW-21S	3/20/2012	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.5
MW-21S	11/7/2012	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.3
MW-21	10/15/2009	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7418.78
MW-21	10/15/2009	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7553.2
MW-21	4/7/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7200
MW-21	12/7/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-21	3/28/2011	Off-Site	Deep	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65
MW-21	7/1/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7200
MW-21	9/30/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7400
MW-21	12/15/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5800
MW-21	3/16/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3600
MW-21	11/7/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8300
MW-21	8/20/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6800
MW-21	10/8/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6385
MW-100	10/8/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6765
MW-21	12/10/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5212.1
MW-21	7/14/2014	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2940
MW-21	7/29/2015	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3010
MW-21	5/3/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2680
MW-21	8/9/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4190
MW-21	10/20/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4900
MW-21	4/12/2017	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2640
MW-21	5/17/2018	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2731
MW-21	5/16/2019	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	473
MW-22S	10/16/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	10/16/2009	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	4/8/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	4/8/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	3/25/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-22S	**7/5/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**10/3/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**12/20/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**3/20/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**11/8/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**10/8/2013**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**12/12/2013**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**7/16/2014**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**7/24/2015**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**5/3/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**10/19/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**4/12/2017**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19
MW-22S	**5/16/2018**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22S	**5/15/2019**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-22	**10/14/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.46
MW-22	**10/14/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2
MW-22	**4/7/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.7
MW-22	**4/7/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.9
MW-22	**12/7/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.6
MW-22	**3/25/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.1
MW-22	**6/30/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.3
MW-22	**10/4/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.4
MW-22	**12/20/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.2
MW-22	**3/19/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.4
MW-22	**11/7/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.3
MW-22	**10/9/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.2
MW-22	**12/11/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	54.7
MW-22	**7/16/2014**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.1
MW-22	**7/31/2015**	***Off-Site***	***Deep***	ND	**5.2 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27
MW-22	**5/3/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.8
MW-22	**8/9/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.4
MW-22	**10/19/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38
MW-22	**4/10/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.6
MW-22	**5/16/2018**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.7
MW-22	**5/15/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.8
MW-23S	**10/15/2009**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.6
MW-23S	**10/15/2009**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21
MW-23S	**12/8/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81.7
MW-23S	**3/24/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.6
MW-23S	**7/5/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	59.2
MW-23S	**9/30/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48
MW-23S	**12/20/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67.1
MW-23S	**3/19/2012**	***Off-Site***	***Shallow***	ND	**5.0 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56.2
MW-23S	**11/7/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73.8
MW-23S	**10/9/2013**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.6
MW-23S	**12/12/2013**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62.8
MW-23S	**7/30/2015**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76.2
MW-23S	**5/4/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	64.1
MW-23S	**8/10/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.8
MW-23S	**10/19/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.4
MW-23S	**4/11/2017**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.5
MW-23S	**5/15/2018**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.2
MW-23S	**5/14/2019**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58.5
MW-23	**10/15/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.98
MW-23	**10/15/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
MW-101	**10/15/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.01
MW-101	**10/15/2009**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
MW-23	**12/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.43**	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.23
MW-23	**12/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.9
MW-101	**12/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MW-23	**3/24/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-101	**3/24/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1
MW-23	**7/5/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
MW-101	**7/5/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
MW-23	**9/30/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**34.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	**7.5 J**	ND	2
MW-101	**9/30/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**23.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
MW-23	**12/15/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-101	**12/15/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2
MW-23	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-101	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2
MW-23	**11/7/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MW-101	**11/7/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
MW-23	**10/9/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.2
MW-23	**12/11/2013**	***Off-Site***	***Deep***	**0.75 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	78.4
MW-23	**7/31/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15
MW-101	**7/31/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.1
MW-23	**5/4/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7
MW-101	**5/4/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7
MW-23	**8/10/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.2 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
MW-23	**10/19/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.6
MW-23	**4/7/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.1
MW-101	**4/7/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.2
MW-23	**5/17/2018**	***Off-Site***	***Deep***	**0.44 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-101	**5/17/2018**	***Off-Site***	***Deep***	**0.26 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-23	**5/14/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.8
MW-101	**5/13/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.7
MW-24S	**12/13/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6
MW-24S	**3/22/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24S	**6/29/2011**	***On-Site***	***Shallow***	ND	**7.7 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24S	**9/27/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24S	**7/17/2014**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24S	**7/28/2015**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1
MW-24S	**5/9/2016**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**16 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24S	**4/4/2017**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**16 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8
MW-24S	**5/14/2018**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24S	**5/16/2019**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**9/21/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**140**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
MW-24	**9/21/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**12/10/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
MW-24	**3/22/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**6/28/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**9/27/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36
MW-24	**12/13/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**89**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89
MW-24	**3/13/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**89**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	108
MW-24	**7/17/2014**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**7/28/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**5/9/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**4/4/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**29 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**5/14/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-24	**5/16/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**9/23/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.58
MW-25S	**9/23/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**12/9/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**3/23/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**6/29/2011**	***On-Site***	***Shallow***	**0.82 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.9 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**9/27/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**12/14/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**3/13/2012**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**7/17/2014**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**7/28/2015**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**5/9/2016**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	**4/11/2017**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	TOtal VOCs
MW-25S	5/15/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25S	5/13/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
MW-25	9/21/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.38
MW-25	9/21/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	12/9/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	3/23/2011	On-Site	Deep	**2.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1
MW-25	6/29/2011	On-Site	Deep	**0.81 J**	**11 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5
MW-25	9/27/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	12/14/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	3/13/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	7/17/2014	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	5/9/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	4/11/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-25	5/15/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	9/22/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
MW-26S	9/22/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	12/10/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	3/24/2011	On-Site	Shallow	ND	ND	ND	ND	**0.78 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	6/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	9/28/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	12/14/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	3/13/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	7/17/2014	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	7/28/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	5/10/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	4/11/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26S	5/15/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	9/21/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	9/21/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	12/10/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	3/23/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	6/29/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	10/2/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	12/14/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	3/13/2012	On-Site	Deep	ND	**3.67 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	11/6/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	10/10/2013	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	7/16/2014	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	5/9/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	4/12/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-26	5/15/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	9/22/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3
MW-27S	9/22/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	12/10/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3
MW-27S	3/23/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	6/30/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.6 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2
MW-27S	9/28/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
MW-27S	12/14/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	3/14/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	7/16/2014	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	7/28/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-27S	5/6/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	4/6/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	5/16/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27S	5/13/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-27	9/22/2010	On-Site	Deep	**0.77**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.67
MW-27	9/22/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.7
MW-27	12/10/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26
MW-102	12/10/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.3

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-27	3/23/2011	On-Site	Deep	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.2
MW-102	3/23/2011	On-Site	Deep	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.2
MW-27	6/30/2011	On-Site	Deep	6.4	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	5.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.7
MW-102	6/30/2011	On-Site	Deep	6.1	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.7
MW-27	9/28/2011	On-Site	Deep	5.5	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.2
MW-102	9/28/2011	On-Site	Deep	5.6	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.2
MW-27	12/14/2011	On-Site	Deep	3.7 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.5
MW-102	12/14/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.2
MW-27	3/14/2012	On-Site	Deep	4.4	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.6
MW-102	3/14/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.4
MW-27	11/6/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.7
MW-27	10/10/2013	On-Site	Deep	6.3	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.4
MW-27	7/17/2014	On-Site	Deep	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.9
MW-102	7/17/2014	On-Site	Deep	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.7
MW-27	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.5
MW-102	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.4
MW-27	5/9/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4
MW-102	5/9/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.1
MW-27	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2
MW-102	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8
MW-27	5/16/2018	On-Site	Deep	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6
MW-102	5/16/2018	On-Site	Deep	4.3 J	ND	ND	ND	ND	0.28 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7
MW-27	5/15/2019	On-Site	Deep	3.4 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.6
MW-102	5/15/2019	On-Site	Deep	3.9 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.8
MW-28S	12/14/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
MW-28S	3/22/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28S	6/30/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28S	9/28/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28S	12/14/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28S	3/14/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28S	7/16/2014	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28S	7/28/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.4
MW-28S	5/10/2016	On-Site	Shallow	ND	19 TJN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9
MW-28S	4/6/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-28S	5/14/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-28S	5/13/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	12/14/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	3/22/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2
MW-28	3/22/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	6/30/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	9/29/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	12/14/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	3/14/2012	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	7/16/2014	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	7/28/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	5/10/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	4/6/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	5/14/2018	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-28	5/13/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29S	12/7/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.6
MW-29S	3/23/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-29S	6/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-29S	9/27/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9
MW-29S	12/13/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	0.42 J	ND	ND	ND	ND	ND	ND	ND	0.79 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29S	3/14/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29S	7/17/2014	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-29S	7/28/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3
MW-29S	5/10/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-29S	4/4/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29S	5/15/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29S	5/14/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-29	**12/7/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-29	**3/23/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
MW-29	**6/29/2011**	***On-Site***	***Deep***	ND	**7.2 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29	**9/28/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.7 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29	**12/13/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
MW-29	**3/14/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.8 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
MW-29	**11/6/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
MW-29	**7/17/2014**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	94
MW-29	**7/28/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	79
MW-29	**5/10/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-29	**4/4/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12.7 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36
MW-29	**5/15/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47
MW-29	**5/14/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	4.0TJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56
MW-30S	**12/9/2010**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
MW-30S	**3/22/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**6/28/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.2 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**9/27/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.2 J**	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-30S	**12/13/2011**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3
MW-30S	**3/13/2012**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**7/27/2015**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**5/5/2016**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**4/4/2017**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**5/14/2018**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30S	**5/14/2019**	***On-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**28.2TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
MW-30	**12/9/2010**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30	**3/22/2011**	***On-Site***	***Deep***	**5.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.57**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.27
MW-30	**3/22/2011**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8
MW-30	**6/28/2011**	***On-Site***	***Deep***	**4.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9
MW-30	**9/27/2011**	***On-Site***	***Deep***	**6.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
MW-30	**12/13/2011**	***On-Site***	***Deep***	**1.1**	ND	ND	ND	ND	ND	ND	ND	**0.45**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.55
MW-30	**3/13/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30	**11/6/2012**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30	**10/10/2013**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30	**7/27/2015**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-30	**5/5/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8
MW-30	**4/4/2017**	***On-Site***	***Deep***	**3.1 TJN**	**22.0 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.7 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5
MW-30	**5/14/2018**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	**0.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
MW-30	**5/14/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9.5 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3
MW-31S	**12/9/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	**0.73**	ND	**0.92**	ND	ND	5.05
MW-31S	**12/9/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2
MW-31S	**3/23/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**6/30/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**9/28/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**12/15/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**3/14/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**7/30/2015**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**5/4/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**4/10/2017**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**5/15/2018**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31S	**5/15/2019**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31	**12/9/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.25
MW-31	**12/9/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.9
MW-31	**3/23/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-31	**6/30/2011**	***Off-Site***	***Deep***	**0.79 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1
MW-31	**9/28/2011**	***Off-Site***	***Deep***	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29
MW-31	**12/15/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
MW-31	**3/14/2012**	***Off-Site***	***Deep***	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.3
MW-31	**11/6/2012**	***Off-Site***	***Deep***		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.1
MW-31	**10/10/2013**	***Off-Site***	***Deep***	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.8
MW-31	**7/30/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.2
MW-31	**5/4/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-31	4/6/2017	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.8
MW-31	5/16/2018	Off-Site	Deep	**0.30 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-31	5/15/2019	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46.8
MW-32S	12/9/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.57**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.57
MW-32S	12/9/2010	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9
MW-32S	3/24/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.60 J**	**2.9**
MW-32S	6/30/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32S	9/29/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32S	12/15/2011	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32S	3/15/2012	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5**	ND	**1.2**	**19.7**
MW-32S	7/31/2015	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32S	5/5/2016	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32S	4/10/2017	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43
MW-32S	5/15/2018	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32S	5/15/2019	Off-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32	12/9/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.61
MW-32	12/9/2010	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9
MW-32	3/24/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
MW-32	6/30/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32	9/29/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8
MW-32	12/15/2011	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-32	3/15/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2
MW-32	11/6/2012	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4
MW-32	10/10/2013	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.91
MW-32	7/31/2015	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2
MW-32	5/5/2016	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-32	4/10/2017	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5
MW-32	5/16/2018	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-32	5/15/2019	Off-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2
MW-33S	12/13/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.8
MW-33S	3/23/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	117.1
MW-33S	6/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	191.2
MW-33S	9/28/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9
MW-33S	12/14/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	374.6
MW-33S	3/14/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	151
MW-33S	11/6/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	371
MW-33S	7/29/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	313
MW-33S	5/6/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	193
MW-33S	4/5/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	177
MW-33S	5/16/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55
MW-33S	5/14/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.5
MW-33	12/13/2010	On-Site	Deep	**39**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.9
MW-33	3/23/2011	On-Site	Deep	**41**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	662.7
MW-33	6/29/2011	On-Site	Deep	**36**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65.4
MW-33	9/28/2011	On-Site	Deep	**40 D**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3
MW-33	12/14/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	548
MW-33	3/14/2012	On-Site	Deep	**4.36**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	553.86
MW-33	11/6/2012	On-Site	Deep	**42**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	988
MW-33	7/29/2015	On-Site	Deep	**14 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1058.5
MW-33	5/6/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	823
MW-33	4/5/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	205
MW-33	5/16/2018	On-Site	Deep	**31**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	782.3
MW-33	5/17/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	909
MW-34S	12/14/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	3/23/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	6/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.9 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	9/28/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	12/14/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	3/14/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.3**	ND	ND	ND	**0.61**	ND	ND	ND	ND	ND	ND	5.01
MW-34S	7/30/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6
MW-34S	5/6/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-34S	4/5/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	5/16/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34S	5/14/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.0 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34	12/14/2010	On-Site	Deep	**8.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.8
MW-34	3/23/2011	On-Site	Deep	**6.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.5
MW-34	6/29/2011	On-Site	Deep	**6.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.6
MW-34	9/28/2011	On-Site	Deep	**33**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	59.6
MW-34	12/14/2011	On-Site	Deep	ND	ND	ND	**6.1 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.36
MW-34	3/14/2012	On-Site	Deep	**5.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.7
MW-34	11/6/2012	On-Site	Deep		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MW-34	10/10/2013	On-Site	Deep	**5.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.4
MW-34	10/10/2013	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-34	7/29/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7
MW-34	5/10/2016	On-Site	Deep	**5.2 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4
MW-34	4/5/2017	On-Site	Deep	**6.2 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.6 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.1
MW-34	5/16/2018	On-Site	Deep	**24**	ND	ND	ND	ND	**0.58 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.2
MW-34	5/14/2019	On-Site	Deep	**10 TJN**	**30 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.5 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.3
MW-35S	12/8/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.4
MW-35S	3/22/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3
MW-35S	6/28/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.4
MW-35S	9/27/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.6
MW-35S	12/13/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.7
MW-35S	3/13/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9
MW-35S	7/27/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5
MW-35S	5/5/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2
MW-35S	4/4/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8
MW-35S	5/14/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-35S	5/14/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
MW-35	12/8/2010	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34
MW-35	3/21/2011	On-Site	Deep	**3.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3
MW-35	6/28/2011	On-Site	Deep	**2.57 JN**	**4.1 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
MW-35	7/1/2011	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-35	9/27/2011	On-Site	Deep	**5.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8
MW-35	12/13/2011	On-Site	Deep	**6.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9
MW-35	3/13/2012	On-Site	Deep	**1.91**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.01
MW-35	7/27/2015	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8
MW-35	5/5/2016	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
MW-35	4/4/2017	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
MW-35	5/14/2018	On-Site	Deep	**1.9 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13
MW-35	5/14/2019	On-Site	Deep	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-36S	12/9/2010	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4
MW-36S	3/24/2011	On-Site	Shallow	ND	ND	ND	ND	**0.78 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	7/6/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	9/29/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	12/19/2011	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11
MW-36S	3/15/2012	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	10/8/2013	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	12/11/2013	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	7/30/2015	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	5/4/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.6 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	8/10/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	10/19/2016	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36S	4/7/2017	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MW-36S	5/16/2018	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4
MW-36S	5/16/2019	On-Site	Shallow	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5
MW-36	12/9/2010	On-Site	Deep	**7.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1
MW-36	3/24/2011	On-Site	Deep	**5.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6
MW-36	3/24/2011	On-Site	Deep	**4.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
MW-36	7/5/2011	On-Site	Deep	**11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.74 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.1
MW-36	7/5/2011	On-Site	Deep	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
MW-36	9/26/2011	On-Site	Deep	**4.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.74 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-36	**9/29/2011**	***On-Site***	***Deep***	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.2
MW-36	**12/19/2011**	***On-Site***	***Deep***	**9.2**	**1.9 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9
MW-36	**12/19/2011**	***On-Site***	***Deep***	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.9
MW-36	**3/15/2012**	***On-Site***	***Deep***	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.71
MW-36	**3/15/2012**	***On-Site***	***Deep***	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5
MW-36	**11/7/2012**	***On-Site***	***Deep***	**11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.1
MW-36	**10/8/2013**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3
MW-36	**12/10/2013**	***On-Site***	***Deep***	**15**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.2
MW-36	**7/30/2015**	***On-Site***	***Deep***	**4.2 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3
MW-36	**5/4/2016**	***On-Site***	***Deep***	**3.5 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
MW-36	**8/9/2016**	***On-Site***	***Deep***	**5.4 TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
MW-36	**10/19/2016**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1
MW-36	**4/7/2017**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36	**5/16/2018**	***On-Site***	***Deep***	**3.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-36	**5/16/2019**	***On-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-37S	**12/8/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.1
MW-37S	**12/8/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.1
MW-37S	**3/24/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	**0.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5
MW-37S	**7/1/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6
MW-37S	**9/29/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8
MW-37S	**12/15/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2
MW-37S	**3/15/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.34
MW-37	**12/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.61
MW-37	**12/8/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4
MW-37[3]	**3/24/2011**	***Off-Site***	***Deep***	**0.65**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.9**	ND	ND	ND	ND	ND	ND	**0.53**	ND	ND	39.98
MW-37	**3/24/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	**0.82 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	174.4
MW-37	**7/1/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**063 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	54
MW-37	**7/1/2011**	***Off-Site***	***Deep***	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	55.8
MW-37	**9/29/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-37	**9/29/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-37	**12/20/2011**	***Off-Site***	***Deep***	**0.66**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	354.5
MW-37	**12/20/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	402.2
MW-37	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	608
MW-37	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	622
MW-37	**11/6/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	845.5
MW-37	**8/12/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	766
MW-37	**10/8/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
MW-101	**10/8/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1490
MW-37	**12/10/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	841
MW-101	**12/10/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	801.1
MW-37	**7/15/2014**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	604
MW-101	**7/15/2014**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	604
MW-37	**7/29/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.6 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	472
MW-37	**7/29/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	514
MW-37	**5/3/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	846
MW-37	**5/3/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	828
MW-37	**8/9/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	590
MW-100	**8/9/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	594
MW-37	**10/20/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	129
MW-101	**10/20/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	146
MW-37	**4/13/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
MW-37	**4/13/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62
MW-37	**5/18/2018**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	204
MW-37	**5/15/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	127
MW-101	**5/15/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.0TJN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.5
MW-38S	**12/9/2010**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**3/24/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**3/24/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**12/20/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**3/15/2012**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**7/24/2015**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs
MW-38S	**5/4/2016**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.2 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**4/10/2017**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.2 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**5/16/2018**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38S	**5/15/2019**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**12/9/2010**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7
MW-103	**12/9/2010**	***Off-Site***	***Deep***	ND	**7.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.6
MW-38	**3/25/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MW-38	**3/25/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15
MW-103	**3/25/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
MW-38	**7/5/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**7/5/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**7/5/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**10/3/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**10/3/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**10/3/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**12/20/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**12/20/2011**	***Off-Site***	***Deep***	ND	**6.2 JN**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**12/20/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3
MW-38	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**3/15/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**10/7/2012**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**12/11/2013**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**7/15/2014**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**7/30/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.98 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**7/30/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**7/30/2015**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**5/4/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.89 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**5/4/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**5/4/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**8/10/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.2 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**10/19/2016**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**4/10/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**4/10/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.68 TJ**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**4/10/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**5/16/2018**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**5/16/2018**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-38	**5/16/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-103	**5/16/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
MW-39S	**4/19/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.41**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.11
MW-39S	**4/19/2011**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8
MW-39S	**5/15/2019**	***Off-Site***	***Shallow***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.8
MW-39	**4/19/2011**	***Off-Site***	***Deep***	ND	**1.8 D**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.1 D**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
MW-39	**4/19/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35
MW-39	**10/20/2011**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58.9
MW-39	**4/12/2017**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52
MW-39	**5/17/2018**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.7
MW-39	**5/15/2019**	***Off-Site***	***Deep***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.7

Notes:

Volatile Organic Compound (VOC) analysis via EPA Methods 8260B, 8260C or 524.2 as indicated.

All groundwater analyses conducted via NYSDEC 2005 Analytical Services Protocol.

Bold value indicates detection of constituent above the laboratory reporting limit.

ND = No Tentatively Identified Compounds detected at or above the laboratory reporting limit.

NA = Not analyzed.

Results are reported in micrograms per liter (µg/l) or parts per billion (ppb).

Organic Data Qualifiers

B = Analyte is found in the associated laboratory blank as well as in the sample.

D = Sample was diluted due to high concentration of target analyte(s).

E = Compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

F1 = MS and/or MSD Recovery is outside acceptance limits.

J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

Table 4-5
Groundwater Monitoring Results (2006-2019)
Wyeth Pharmaceuticals LLC
Rouses Point, NY

				Tentatively Identified Compounds (TIC's)																								Total VOCs
Well	Date Sampled	Well Location	Well Depth	Ethyl ether	Trimethylsilanol	Benzene (2-methyl-1-butenyl	Ethyloxyethene	2-Methylthiophene	Chlorodifluoromethane	Isopropyl ether	Acetonitrile	Hexachlorobutadiene	Ethanol	Isopropyl Alcohol	1-Propanol	n-Butanol	Octamethyl-cyclotetrasiloxane	Total Unknown TICs	Naphthalene	3-Chloro-1-propene	Dicyclopentadiene	2,2-Dichloropropane	Acrylonitrile	Benzene (1-methyl-1-propenyl	Benzene (2-methyl-1-butenyl	Naphthalene, 1,2,3,4-tetrahdyro-1-methyl	Silane, fluorotrimethyl	1,2,3-Trimethylbenzene	Total VOCs

N = Indicates presumptive evidence of a compound. This flag is used only for TICs, where the identification is based on the mass spectral library search.

R = Presumptive evidence of material.

T = Result is a tentatively identified compound (TIC) and an estimated value.

U = Sample concentrations of target compounds less than 5X (less than 10X for acetone) the concentration detected in equipment blanks are considered undetected, "U".

UJ = Indicates an estimated non-detect value due to an exceedance of quality control limits in the continuing calibration verification (CCV).

Table 4-6
2020-2022 Groundwater Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Well	Sample Date	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
NYSDEC Groundwater Quality Standard/Guidance		0.6	1	5	7	5	10	5	5	2
MW 5	**10/12/20**	**130**	< 4.0	< 4.0	< 4.0	**220**	**0.71J**	**10**	< 4.0	**17**
MW-5	**4/19/21**	**79**	< 2.0	< 2.0	< 2.0	**150**	**0.53J**	**7.3**	< 2.0	**9.7**
MW-5	**7/13/22**	**99**	< 1.0	< 1.0	< 1.0	**180**	**0.50J**	**8.3**	**0.75J**	**13**
MW 6	**10/12/20**	**10**	< 1.0	< 1.0	< 1.0	**13**	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	**4/20/21**	**7.8**	< 1.0	< 1.0	< 1.0	**9.4**	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	**7/13/22**	**8.6**	< 1.0	< 1.0	< 1.0	**11**	< 1.0	< 1.0	< 1.0	< 1.0
MW 8	**10/13/20**	< 2.0	< 2.0	< 2.0	**0.69J**	**130**	< 2.0	**3.2**	**27**	< 2.0
MW-8	**4/20/21**	< 2.0	< 2.0	< 2.0	< 2.0	**94**	< 2.0	**2.8**	**27**	< 2.0
MW-8	**7/14/22**	< 2.0	< 2.0	< 2.0	< 2.0	**74**	< 2.0	**2.3**	**20**	< 2.0
MW 9	**10/13/20**	< 1.0	< 1.0	**5.6**	**0.39J**	< 1.0	< 1.0	< 1.0	**0.71J**	< 1.0
MW-9	**4/20/21**	< 1.0	< 1.0	**28**	**9**	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0
MW-9	**7/13/22**	< 1.0	< 1.0	**6.9**	**1.1**	<1.0	< 1.0	< 1.0	**0.49J**	< 1.0
MW 9S	**10/13/20**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9S	**4/20/21**	< 1.0	< 1.0	**0.27J**	**0.77J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9S	**7/13/22**	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 15	**10/12/20**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-15	**4/19/21**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-15	**7/12/22**	<1.0 J-	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 16	**10/13/20**	**0.78J**	< 1.0	< 1.0	**0.35J**	**2.1**	< 1.0	< 1.0	**0.86J**	< 1.0
MW-16	**4/20/21**	< 1.0	< 1.0	< 1.0	< 1.0	**2.9**	< 1.0	< 1.0	**0.99J**	< 1.0
MW-16	**7/14/22**	<1.0	<1.0	<1.0	<1.0	**3.0**	< 1.0	< 1.0	**0.98J**	< 1.0
MW 16S	**10/13/20**	< 1.0	< 1.0	< 1.0	**0.44J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-16S	**4/20/21**	< 1.0	< 1.0	**0.43J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-16S	**7/14/22**	<1.0	< 1.0	**0.36J**	**0.44J**	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW 17	**10/15/20**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-17	**4/20/21**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-17S	**7/14/22**	<1.0 J-	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW-18	**7/14/22**	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW-18S	**7/14/22**	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 19	**10/14/20**	< 1.0	< 1.0	< 1.0	< 1.0	**15**	< 1.0	< 1.0	**1.4**	**1.1**
MW-19	**4/22/21**	< 2.0	< 2.0	< 2.0	**1.0J**	**7.9**	< 2.0	< 2.0	**1.4J**	< 2.0
MW-19	**7/13/22**	<2.0	<2.0	<2.0	<2.0	**5.2**	< 2.0	< 2.0	**4.1**	< 2.0
MW 19S	**10/14/20**	**0.26J**	< 1.0	**7.1**	**6.9**	**6.9**	< 1.0	< 1.0	**8.8**	< 1.0
MW-19S	**4/22/21**	< 1.0	< 1.0	**7.1**	**6.7**	**5.3**	< 1.0	< 1.0	**7.1**	< 1.0
MW 21	**10/15/20**	< 40	< 40	**2900 J**	**590**	< 40	< 40	< 40	**19J**	< 40
MW 101(MW-21)[(1)]	**10/15/20**	< 1.0	< 1.0	**2100 J**	**460**	**1.1**	< 1.0	< 1.0	**13**	< 1.0
MW-21	**4/22/21**	< 50	< 50	**2400**	**410**	< 50	< 50	< 50	< 50	< 50
MW-101[(1)]	**4/22/21**	**0.33J**	< 1.0	**2100**	**380**	< 1.0	< 1.0	< 1.0	**12**	< 1.0
MW-21	**7/14/22**	<50	< 50	**3100**	**560**	< 50	< 50	< 50	< 50	< 50
MW 101(MW-21)[(1)]	**7/14/22**	<50	< 50	**3200**	**570**	<50	< 50	<50	<50	<50
MW 22	**10/13/20**	< 1.0	< 1.0	**2.1**	**1.1**	**4.5**	< 1.0	< 1.0	**2.1**	< 1.0
MW-22	**4/21/21**	< 1.0	< 1.0	**1.6**	**0.89J**	**3.3**	< 1.0	< 1.0	**1.5**	< 1.0
MW-22	**7/14/22**	<1.0	< 1.0	**1.6**	**0.83J**	**3.2**	< 1.0	< 1.0	**1.7**	< 1.0

Table 4-6
2020-2022 Groundwater Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Well	Sample Date	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
NYSDEC Groundwater Quality Standard/Guidance		0.6	1	5	7	5	10	5	5	2
MW 22S	10/13/20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-22S	4/21/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-22S	7/14/22	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 23	10/13/20	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**	< 1.0	< 1.0	< 1.0	**2.5**
MW-23	4/19/21	< 1.0	< 1.0	< 1.0	< 1.0	**9.2**	< 1.0	< 1.0	**0.82J**	**1.9**
MW-23	7/14/22	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 23S	10/13/20	< 1.0	< 1.0	**0.93J**	**1.3**	**61**	< 1.0	**1.4**	**13**	< 1.0
MW-23S	4/19/21	< 1.0	< 1.0	**0.72J**	**0.98J**	**48**	< 1.0	**1.3**	**9.8**	< 1.0
MW-23S	7/14/22	<1.0	< 1.0	**0.64J**	**0.73J**	**37**	< 1.0	**1.2**	**9.7**	< 1.0
MW 27	10/12/20	**2.4**	< 1.0	**0.40J**	**1.5**	**1.2**	< 1.0	< 1.0	**6.1**	< 1.0
MW-27	4/20/21	**3.7**	< 1.0	< 1.0	**0.62J**	**1.7**	< 1.0	< 1.0	**12**	**1.2**
MW-27	7/12/22	**1.0**	< 1.0	**1.0**	**1.8**	<1.0	< 1.0	< 1.0	**2.9**	< 1.0
MW 27S	10/12/20	< 1.0	< 1.0	**0.74J**	**0.56J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-27S	4/20/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-27S	7/12/22	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 29S	10/12/20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-29S	4/20/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-29S	7/12/22	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW-30	7/12/22	<1.0	<1.0	<1.0	<1.0	<1.0	**0.81J**	<1.0	<1.0	<1.0
MW 30S	10/12/20	< 1.0	< 1.0	< 1.0	**0.45J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30S	4/21/21	< 1.0	< 1.0	< 1.0	**0.57J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30S	7/12/22	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
MW 31	10/14/20	**13**	< 1.0	< 1.0	< 1.0	**24**	< 1.0	**1**	**0.86J**	**2.8**
MW-31	4/19/21	**9**	< 1.0	< 1.0	< 1.0	**16**	< 1.0	< 1.0	**0.46J**	**1.1**
MW-31	7/12/22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW 31S	10/14/20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-31S	4/19/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-31S	7/12/22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW 32	10/14/20	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-32	4/22/21	**0.93J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-32	7/13/22	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW 32S	10/14/20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-32S	4/22/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-32S	7/13/22	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
MW 33	10/12/20	**760**	< 10	< 10	< 10	**97**	< 10	< 10	< 10	**14**
MW 102(MW-33)[1]	10/12/20	**730 J**	**1.4**	< 1.0	< 1.0	**100**	**0.33J**	**6.5**	**1.7**	**16**
MW-33	4/21/21	**550**	< 10	< 10	< 10	**180**	< 10	**9.5J**	< 10	**15**
MW-102[1]	4/21/21	**510**	**1.1**	< 1.0	< 1.0	**150**	**0.41J**	**7.5**	**1.9**	**12**
MW-33	7/13/22	**550 J-**	< 10	< 10	< 10	**170**	< 10	< 10	< 10	**17**
MW-102[1]	7/13/22	**500 J-**	**1.3**	< 1.0	< 1.0	**160**	**0.42J**	**8.7**	**1.4**	**17**
MW 33S	10/12/20	**5.4**	< 1.0	< 1.0	< 1.0	**8.6**	< 1.0	< 1.0	**40**	< 1.0
MW-33S	4/21/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0
MW-33S	7/12/22	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**2.6 J**	<4.0

Table 4-6
2020-2022 Groundwater Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Well	Sample Date	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
NYSDEC Groundwater Quality Standard/Guidance		0.6	1	5	7	5	10	5	5	2
MW 34	10/12/20	**11**	< 1.0	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	**0.49J**	< 1.0
MW-34	4/21/21	**10**	< 1.0	< 1.0	< 1.0	< 1.0	**0.95J**	< 1.0	< 1.0	< 1.0
MW-34	7/15/22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW 35S	10/13/20	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0
MW-35S	4/21/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.76 J**	< 1.0
MW-35S	7/12/22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.99 J**	<1.0
MW 36S	10/13/20	< 1.0	< 1.0	< 1.0	**0.70 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-36S	4/20/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-36S	7/13/22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW 37	10/14/20	**0.44J**	< 1.0	**300**	**110**	< 1.0	< 1.0	< 1.0	**92**	< 1.0
MW-37	4/22/21	**0.24J**	< 1.0	**220**	**73**	< 1.0	< 1.0	< 1.0	**53**	< 1.0
MW-37	7/14/22	< 5.0	< 5.0	**230**	**84**	< 5.0	< 5.0	< 5.0	**61**	< 5.0
MW 38	10/13/20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-38	4/21/21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-38	7/14/22	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-103[(1)]	7/14/22	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW 40	10/15/20	**690J**	< 1000	< 1000	< 1000	**9000**	< 1000	< 1000	**24000**	< 1000
MW-40	4/22/21	**740**	< 500	< 500	< 500	**9600**	< 500	< 500	**37000**	< 500
MW-40	7/13/22	**840J**	< 1000	< 1000	< 1000	**9700**	< 1000	< 1000	**41000**	< 1000
MW 40S	10/15/20	**63J**	< 130	< 130	< 130	**300**	< 130	< 130	**4700**	< 130
MW-40S	4/22/21	**12J**	< 20	< 20	< 20	**63**	< 20	< 20	**710**	< 20
MW-40S	7/13/22	**3.9J**	< 10	< 10	< 10	**18**	< 10	< 10	**510**	< 10
MW 41	10/15/20	**41**	< 1.0	< 1.0	**0.50J**	**1**	< 1.0	< 1.0	< 1.0	< 1.0
MW-41	4/22/21	**270**	**0.58J**	< 1.0	< 1.0	**6.8**	**1.1**	< 1.0	**1.2**	**2**
MW-41	7/13/22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW 41S	10/14/20	**1.3J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
MW-41S	4/22/21	**47**	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0
MW-41S	7/13/22	**4.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW 42	10/14/20	< 2.0 UJ	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
MW-42	4/21/21	**4.2**	< 1.0	< 1.0	< 1.0	**5.2**	< 1.0	< 1.0	< 1.0	< 1.0
MW-42	7/13/22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW 43	10/15/20	**3.9**	< 1.0	< 1.0	**2.4**	< 1.0	**0.46J**	< 1.0	< 1.0	< 1.0
MW-43	4/21/21	**3.5**	< 1.0	< 1.0	**1.0**	< 1.0	**0.38J**	< 1.0	< 1.0	< 1.0
MW-43	7/13/22	**22**	<1.0	<1.0	<1.0	<1.0	**1.9**	<1.0	<1.0	<1.0

Notes:

Results are reported in micrograms per liter (µg/l) or parts per billion (ppb).

(1) = Duplicate sample.

"MW-XX" = Deeper monitoring well screened in the lower glacial till.

"MW-XXS" = Shallow monitoring well screened in the upper glacial till.

Volatile Organic Compound (VOC) analysis via EPA Methods 8260C.

All groundwater analyses conducted via NYSDEC 2005 Analytical Services Protocol.

Bold value indicates detection of constituent above the laboratory reporting limit.

= Concentration is above applicable NYSDEC Groundwater Quality Standard or guidance value (6 NYCRR Part 703) for water class GA.

Samples were qualified by the laboratory and/or data validation.

Data Qualifiers

J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimate.

Table 4-6
2020-2022 Groundwater Analytical Results
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Well	Sample Date	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
NYSDEC Groundwater Quality Standard/Guidance		0.6	1	5	7	5	10	5	5	2

UJ = Indicates an estimated non-detect value due to an exceedance of quality control limits in the continuing calibration verification (CCV).

Table 6-1
Screening of Remedial Technologies – Soil

Technology	Description	Implementability	Effectiveness	Relative Costs	Screening Comments
Institutional Controls	Physical and administrative measures to control access or exposure to impacted soil. Administrative measures include placement of an environmental easements on the property.	Technically implementable.	Reliable conventional administrative measures.	Capital: low O&M: low	Retained. Does not accomplish corrective action objections as stand-alone alternative. Applicable in combination with other technologies.
Monitored Natural Attenuation (MNA)	Naturally occurring physical, chemical, and biological processes that reduce constituents mobility or concentration.	Technically implementable, but timeframe may not be acceptable for hot spots.	May not be effective for treatment of source areas and/or hot spots because of high concentrations. Limited effectiveness in vadose zone soil.	Capital: low O&M: low	Retained. Very long remediation timeframe for source areas and/or hot spots compared with other applicable technologies. Applicable in combination with other technologies.
Capping	Placement of an impermeable cap or soil cover to minimize infiltration and prevent direct contact.	Common technology that is easily implementable using standard practices.	Proven technology that can successfully prevent direct contact.	Capital: medium O&M: low	Retained. Effective technology. May not support reaching corrective action objectives for hot spots.
Excavation and Offsite Disposal	Removal of impacted soil using common excavation techniques. Excavated soil sent off site for disposal.	Common technology that is easily implementable using standard practices. Excavation below the water table would require additional measures such as shoring and dewatering.	Proven technology that is very effective. Excavation would achieve cleanup levels by removing impacted soil. Cleanup levels achieved in short restoration times.	Capital: high O&M: low	Retained for comparison purposes. Most certain way to reach soil screening levels. As depth of excavation increases, cost, and complexity increases. Requires substantial earthworks presence and disturbance of existing site infrastructure (e.g., slab). High costs for disposal of listed hazardous waste. May be used for shallow soils in conjunction with other technologies.
Soil Vapor Extraction	Removal of volatile constituents through venting and/or vacuum extraction in the vadose (unsaturated) zone of subsurface.	Common technology that is readily implementable. Onsite treatment of vapors may be required.	Proven technology that is effective for vadose zone volatile constituents.	Capital: medium O&M: medium	Eliminated. Not generally effective for glacial till formations and not effective for saturated soils where most of the constituent mass is located.
In Situ Chemical Oxidation	Placement of oxidant into the subsurface via injections or other means. Oxidation chemically converts constituents to less toxic compounds that are more stable, less mobile, and/or inert. Common oxidants include hydrogen peroxide, potassium permanganate, sodium persulfate, and ozone.	Previously implemented on site.	Effectiveness depends on ability to maximize contact between constituent and oxidants. Less effective in vadose zone.	Capital: medium O&M: low to medium	Eliminated. Difficult to provide adequate contact between oxidant and constituents in vadose zone. More effective in saturated zone where majority of constituent mass is located. Multiple injections events would be necessary.

Table 6-1
Screening of Remedial Technologies – Soil

Technology	Description	Implementability	Effectiveness	Relative Costs	Screening Comments
In Situ Chemical Reduction	Placement of a reductant or reductant generating material in the subsurface for the purpose of degrading toxic organic compounds to potentially nontoxic or less toxic compounds. The most commonly used reductant/reductant generating materials include zero valent iron (ZVI) and fermentable carbon.	Can be directly injected similar to in situ chemical oxidation that was previously implemented on site. Use of emulsified ZVI product enables reductive chemistry to be applied in vadose soils.	Effective at treating tetrachloroethene (TCE). 1,2-dichloroethane (1,2- DCA) is less reactive with ZVI but will degrade via anaerobic bioremediation. Other reductive reagents can treat 1,2-DCA. The remediation efficacy benefits from a combination of abiotic and biotic reaction processes, occurring simultaneously.	Capital: medium O&M: low to medium	Retained. More effective in vadose zone than ISCO. Drives aquifer into reducing conditions that can enhance monitored natural attenuation. Multiple injections events may be necessary.
Soil Mixing	Soil mixing equipment used to mix reagents with impacted soil to physically and/or chemically treat and/or decrease the mobility of constituents.	Implementable with specialized excavator equipment/buckets, large diameter auger or other available equipment.	More effective than injection for low permeability soil and in soils with highly contrasting permeabilities. Maximizes contact between constituent and chemical.	Capital: medium to high O&M: low	Retained. Soil mixing allows for optimal contact between oxidant/reductant and constituents. Delivery method reduces likelihood of additional treatment events. Stabilization or removal of soils necessary to allow for future development.
Thermal	Application of heat by subsurface steam injection, electrical resistive heating, or other method to remove strippable constituents. Volatilized compounds captured and treated at surface.	Onsite treatment of vapors likely required.	Would likely achieve cleanup levels. Relatively short cleanup time.	Capital: high O&M: low	Eliminated. While possible to achieve cleanup goals, more costly than other technologies and results in higher energy usage.

Table 6-2
Screening of Remedial Technologies - Groundwater

Technology	Description	Implementability	Effectiveness	Relative Cost	Screening Comments
Institutional Controls	Physical and administrative measures to control access or exposure to impacted groundwater l. Administrative measures include placement of an environmental easements on the property.	Technically implementable.	Reliable conventional administrative measures. Would not achieve remedial objectives without other actions.	Capital: Low O&M: Low	Retained. Does not accomplish corrective action objections as stand-alone alternative. Applicable in combination with other technologies.
Monitored Natural Attenuation	Naturally occurring physical, chemical, and biological processes that reduce constituents mobility or concentration.	Environmental monitoring is readily implemented.	Could potentially achieve remedial objectives but would have a long restoration timeframe without additional soil treatment/mass removal.	Capital: Low O&M: Low	Retained. Applicable in combination with soil remedial alternative.
Groundwater Extraction and Treatment	Configuration of extraction wells installed perpendicular to direction of groundwater flow designed to capture flow and prevent constituents migration. Extracted water is treated ex situ using a variety of technologies tailored to the constituents. Pre-treatment for non-site COCs may be required.	Technologies are well developed and would require standard construction techniques.	Groundwater extraction would hydraulically contain groundwater. Long-term effectiveness of conventional pumping systems in achieving media cleanup criteria is not proven.	Capital: High O&M: Medium	Eliminated. Because it only isolates the source, it would not have any advantageous effect over natural attenuation processes in achieving media cleanup criteria or shortening the restoration timeframe.
Air Sparge and Soil Vapor Extraction	Removal of volatile constituents through mass transfer to air that is injected into the ground and then captured via vacuum extraction	AS/SVE activities are common and readily implementable.	The wide-spread nature of impact limits the ability to effectively implement the technology.	Capital: Medium O&M: Medium	Eliminated. Inadequate benefit or cost savings compared to other technologies.
Enhanced Bioremediation	Enhanced biodegradation through addition of nutrients and electron acceptors to stimulate microbial growth and breakdown of constituents.	Treatment amendments available to implement this technology. Can be direct inject similar to in situ chemical oxidation that was previously implemented on site.	Effective in the long term to remove constituent mass of dissolved VOCs in the influence of the treatment area.	Capital: Medium O&M: Low	Retained.

Table 6-2
Screening of Remedial Technologies - Groundwater

Technology	Description	Implementability	Effectiveness	Relative Cost	Screening Comments
In situ Chemical Oxidation (ISCO)	Placement of oxidant into the subsurface via injections or other means. Oxidation chemically converts constituents to less toxic compounds that are more stable, less mobile, and/or inert. Common oxidants include hydrogen peroxide, potassium permanganate, sodium persulfate, and ozone.	Treatment amendments available to implement this technology. Previously implemented on the Site.	Effective in the long term to remove constituent mass of dissolved VOCs in the influence of the application.	Capital: Medium O&M: Low	Retained.
In situ Chemical Reduction (ISCR)	Placement of a reductant or reductant generating material in the subsurface for the purpose of degrading toxic organic compounds to potentially nontoxic or less toxic compounds. The most commonly used reductant/reductant generating materials include zero valent iron (ZVI) and fermentable carbon.	Can be direct inject similar to in situ chemical oxidation that was previously implemented on site. Use of emulsified ZVI product enables reductive chemistry to be applied in vadose soils.	Effective at treating tetrachloroethene (TCE). 1,2-dichloroethane (1,2- DCA) is less reactive with ZVI but will degrade via anaerobic bioremediation. Other reductive reagents can treat 1,2-DCA. The remediation efficacy benefits from a combination of abiotic and biotic reaction processes, occurring simultaneously.	Capital: Medium O&M: Low	Eliminated as a groundwater only remedy. The groundwater in the Building 18/27 area will be incidentally treated by ISCR treatment of soil

Table 7-1
Comparative Evaluation of Alternatives – Soil

Selection Criteria	Alternative S1: Excavation and Disposal	Alternative S2: In Situ Chemical Reduction	Alternative S3: Soil Mixing
THRESHOLD CRITERIA			
Overall Protection of Human Health and the Environment	Protective of human health and the environment by actively removing constituent mass from the soils above cleanup standards. Reduces the risk to site workers and removes a potential on-going constituent source to groundwater.	Protective of human health and the environment by reducing the mass of VOCs in situ. Reduces the risk to site workers and removes a potential on-going constituent source to groundwater. Additional rounds of injections may be required to meet corrective action objectives.	Protective of human health and the environment by reducing the constituent mass of VOCs in situ. Reduces the risk to site workers and removes a potential on-going constituent source to groundwater.
Compliance with Media Cleanup Standards	Would achieve media cleanup standards for soil.	Would actively remediate the concentrations of VOCs in the influence of the ISCR reagents. Additional rounds of injections may be required to reach cleanup standards.	Would actively remediate the concentrations of VOCs in the influence of the reagents.
BALANCING CRITERIA			
Long-Term Effectiveness	Effective in the long term because this alternative would remove constituent mass from the Site. Soil would be transported to a permitted, lined landfill for disposal. Most effective alternative in the long term because constituent mass is removed from the Site.	Effective in the long term because this alternative will treat VOCs using abiotic and biotic reaction processes. Additional rounds of injections may be required to meet corrective action objectives. ISCR treatment creates reducing conditions that are synergistic with the processes involved with monitored natural attenuation of mass in the groundwater.	Effective in the long term because this alternative will treat constituent mass VOCs in the influence of the reagents. Increased effectiveness over Alternative 2 because of greater degree of contact between constituent and reagents.
Reduction of Toxicity, Mobility, or Volume of Wastes	Excavated soils would be disposed offsite at a lined permitted landfill. No destruction of VOCs will occur.	Reduces the toxicity of Site VOCs by reductive dechlorination processes that occur in situ. Expected to treat 99 percent of the targeted mass in situ. Drives aquifer into ISCR treatment creates reducing conditions that are synergistic with the processes involved with monitored natural attenuation of mass in groundwater.	Reduces the toxicity of VOCs by treating them in situ. Expected to treat 99 percent of the targeted mass in situ.
Short-Term Effectiveness	If properly conducted, would have no adverse effects on the local community or the environment. Controls would be required to minimize impacts from transportation of material over public roads. Short-term risks would be limited to short implementation period.	If properly conducted, would have no adverse effects on the local community or the environment. Health and safety controls would be required to manage handling of chemical reagents during injections.	If properly conducted, would have no adverse effects on the local community or the environment. Health and safety controls would be required to manage handling of chemical reagents during injections.
Implementability	Common technology that is easily implementable using standard practices. Excavation below the water table would require additional measures such as shoring and dewatering. Excavations at depths greater than 20 feet are typically more difficult to implement.	In situ chemical reduction is readily implementable. Can be installed using direct injection similar to in situ chemical oxidation that was previously implemented on site.	Implementable with specialized excavator equipment/buckets, large diameter auger or other available equipment.
Cost	**Capital**: $1,990,000 **Range (-30% to +50%):** $1,400,000 to $3,000,000	**Capital**: $890,000 **Range (-30% to +50%):** $630,000 to $1,340,000	**Capital**: $1,300,000 **Range (-30% to +50%)**: $910,000 to $1,950,000
ADDITIONAL CRITERIA			
Green and Sustainable Remediation	High energy use for remedy implementation compared to Alternative S2. Potential for air pollution from dust during excavation and transportation. Transportation to disposal facility produces greenhouse gases. Excavated material is managed as a hazardous waste.	Lowest energy use for implementation. Limited greenhouse gas emissions and waste generation. Improves downgradient groundwater concentrations by creating reducing conditions in the subsurface. Utilizes and enhances naturally occurring processes as a component of remediation treatment.	High energy use and greenhouse gas emissions for remedy implementation compared to Alternative S2. Limited waste generation.

Table 7-2
Comparative Evaluation of Alternatives – Groundwater

Selection Criteria	Alternative GW1: Institutional Controls and Monitored Natural Attenuation	Alternative GW2: In Situ Chemical Oxidation	Alternative GW3: Enhanced Biological Remediation
THRESHOLD CRITERIA			
Overall Protection of Human Health and the Environment	Currently no exposure to receptor population exists at the site due to the presence of COCs in groundwater. Over time, natural attenuation processes would reduce concentrations of COCs in groundwater.	Experience with this technology has indicated that it is effective in reducing the constituent mass of dissolved VOCs.	Experience with this technology has indicated that it is effective in reducing the constituent mass of dissolved VOCs.
Compliance with Media Cleanup Standards	May, over time, achieve media cleanup standards. A waiver based on technical impracticability may be considered.	Would actively remediate the concentrations of dissolved VOCs in the influence of the application.	Would actively remediate the concentrations of dissolved VOCs in the influence of the application and create reducing conditions that may enhance biological reduction downgradient.
BALANCING CRITERIA			
Long-Term Effectiveness	Over time, natural attenuation would provide permanent reduction of concentrations of COCs.	Effective in the long term to remove constituent mass of dissolved VOCs in the influence of the application.	Effective in the long term to remove constituent mass of dissolved VOCs in the influence of the application and enhance downgradient reduction.
Reduction of Toxicity, Mobility, or Volume of Wastes	No reduction through active treatment. Natural biological processes will reduce constituent mass.	Reduces the toxicity of VOCs be treating them in situ.	Reduces the toxicity of VOCs be treating them in situ.
Short-Term Effectiveness	Impacts to community and site worker health and safety during environmental monitoring would be unlikely. No adverse impacts to the environment would be expected.	Application would need to consider overall environmental benefit of constituent removal verses chemical addition to the subsurface. If properly applied, would have no adverse effects on the local community or the environment.	If properly conducted, would have no adverse effects on the local community or the environment. Health and safety controls would be required to manage handling of chemical reagents during injections.
Implementability	Environmental monitoring is readily implemented.	In situ chemical oxidation is readily implementable; however, the wide-spread nature of impact will limit the ability to effectively implement the technology.	Enhanced biological remediation is readily implementable.
Cost	Relatively low-cost treatment alternative.	Relatively moderate cost treatment alternative.	Relatively moderate cost treatment alternative.
ADDITIONAL CRITERIA			
Green and Sustainable Remediation	Lowest energy use for implementation. Limited greenhouse gas emissions and waste generation.	Limited greenhouse gas emissions and waste generation. Uses more water than Alternative GW1.	Limited greenhouse gas emissions and waste generation. Uses more water than Alternative GW1.

Table 8-1: Recommended Corrective Action Cost

In Situ Chemical Reduction and Monitored Natural Attenuation

COST SUMMARY

CAPITAL COSTS		
Construction Activities		
Pre-Design Investigation	$	130,000
Site Preparation	$	30,000
In Situ Injections	$	352,000
New Well Installation	$	100,000
Institutional Controls	$	25,000
Confirmation Sampling	$	130,000
SUBTOTAL - In Situ Injections	$	767,000
Contingency (30%)	$	230,000
TOTAL In Situ Injections	**$**	**997,000**
Professional/ Technical Services		
Project Management	$	46,000
Remedial Design	$	92,000
Construction Management	$	61,000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**199,000**
TOTAL CAPITAL COSTS		**$1,200,000**
ANNUAL OPERATION, MAINTENANCE, AND MONITORING COSTS		
Long Term Monitoring	$	30,000
Vapor Mitigation Operation & Maintenance	$	45,000
TOTAL OM&M (30 YEARS)		**$2,250,000**
TOTAL		**$3,450,000**
Total Range (-30 %)		**$2,420,000**
Total Range (+50 %)		**$5,180,000**

Table 8-1: Recommended Corrective Action Cost

In Situ Chemical Reduction and Monitored Natural Attenuation

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis	1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 50,000	$ 50,000	
SUBTOTAL:				**$ 130,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 15,000	$ 15,000	
Permitting/UIC	1	LS	$ 15,000	$ 15,000	
SUBTOTAL:				**$ 30,000**	
In Situ Injections					
ISCR/eZVI	1,500	CY	$ 210	$ 315,700	includes product, vendor to implement, and driller
Restore Slab	1	LS	$ 15,000	$ 15,000	
Oversight Labor	1	LS	$ 21,600	$ 21,600	11 days injection and 1 day mob/demob
SUBTOTAL:				**$ 352,000**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
Institutional Controls					
Environmental Easement	1	LS	$ 25,000	$ 25,000	
SUBTOTAL:				**$ 25,000**	
Confirmation Sampling					
Drilling	1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis	1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor	1	LS	$ 50,000	$ 50,000	
SUBTOTAL:				**$ 130,000**	
	SUBTOTAL - In Situ Injections			$ 767,000	
	Contingency		30%	$ 230,000	
TOTAL In Situ Injections				**$ 997,000**	
Professional/ Technical Services					
Project Management	6%			$ 46,000	6% per USACE and USEPA, 2000
Remedial Design	12%			$ 92,000	12% per USACE and USEPA, 2000
Construction Management	8%			$ 61,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 199,000**	
TOTAL - CAPITAL COSTS				**$ 1,200,000**	

Table 8-1: Recommended Corrective Action Cost

In Situ Chemical Reduction and Monitored Natural Attenuation

OPERATION AND MAINTENANCE COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Long Term Monitoring	1	LS	$ 30,000	$ 30,000	
Vapor Mitigation Operation & Maintenance	1	LS	$ 45,000	$ 45,000	
Subtotal				$ 75,000	
TOTAL OM&M (30 YEARS)				**$ 2,250,000**	
TOTAL PRESENT VALUE OM&M (30 YEARS) (PV 5%)				**$ 1,152,900**	

FIGURES

Figure 1-1: Site Location Map

Figure 1-2: Site Plan

Figure 2-1: SWMU and AOC Locations and Status

Figure 2-2: Geologic Cross-Section A-A′

Figure 2-3: Geologic Cross-Section B-B′

Figure 2-4: Geologic Cross-Section C-C′

Figure 2-5: Geologic Cross-Section D-D′

Figure 2-6: Site Plan and Monitoring Well Network

Figure 2-7: Groundwater Contours – Lower Till

Figure 4-1: SWMU-7D TCE Concentrations

Figure 4-2: 2022 Deep Till Aquifer 1,2-Dichloroethane Concentration Isopleths

Figure 4-3: 2022 Deep Till Aquifer Carbon Tetrachloride Concentration Isopleths

Figure 4-4: 2022 Deep Till Aquifer Cis-1,2-Dichloroethene Concentration Isopleths

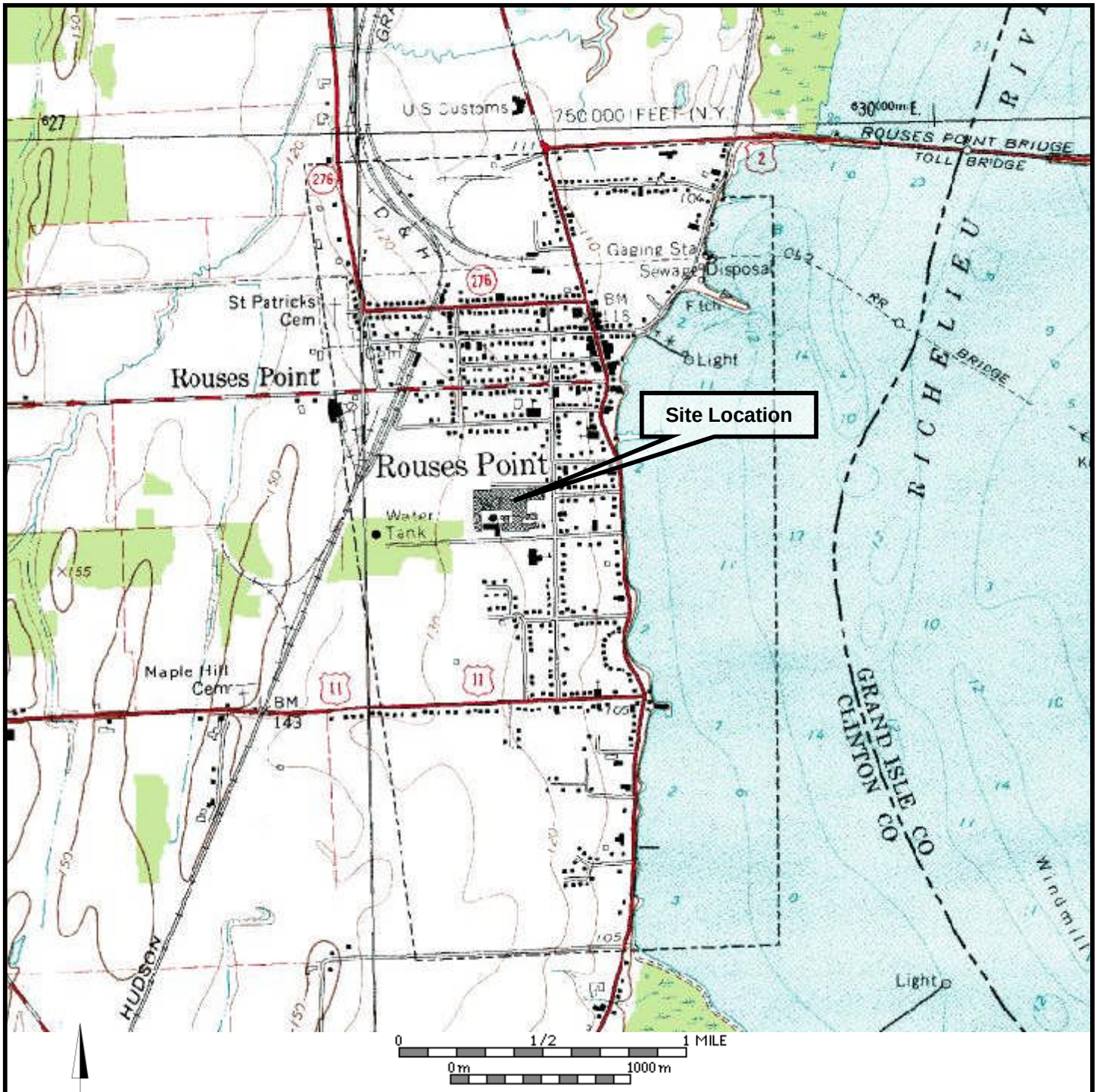
Figure 4-5: 2022 Deep Till Aquifer Trichloroethene Concentration Isopleths

Figure 5-1: Approximate Treatment Areas for Unrestricted and Restricted Use Soil Cleanup Objectives

Figure 6-1: Conceptual Plan for Alternative S1 Excavation and Disposal

Figure 6-2: Conceptual Plan for Alternative S2 - In Situ Chemical Reduction

Figure 8-1: Conceptual Plan for Soil Recommended Corrective Measure



QUADRANGLE LOCATION

Figure 1-1 SITE LOCATION MAP
Wyeth Pharmaceuticals LLC
Rouses Point, NY

Woodard & Curran
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APPROXIMATE FORMER CHEMICAL DEVELOPMENT PLANT

Clinton Street

Academy Street

ACADEMY STREET EXTENSION

EMPLOYEE PARKING

White Avenue

Pearl Street

Maple Street

RECEIVING

CONSTRUCTION TRAILERS

BUILDING 25

BUILDING 21

BUILDING 37

BLDG 21A

BUILDING 35

BUILDING 19

BUILDING 13

BUILDING 9

BUILDING 11

BUILDING 15

SHIPPING

BUILDING 10

BUILDING 8

BUILDING 3A2

BUILDING 4A

BUILDING 32

BLDG 27

BUILDING 18

BUILDING 14

BUILDING 6

BLDG 38

BUILDING 7

BUILDING 3AI

BUILDING 20

BUILDING 12

BUILDING 5

BUILDING 2

BUILDING 1A

BUILDING 22

BLDG 20B

BLDG 17C

BLDG 34

BLDG 17A

BLDG 40

BLDG 26

BLDG 24

BLDG 31A

BLDG 31

BLDG 23A

TANK FARM

BLDG 23

BLDG 16

BLDG 43

BUTLER BLDG. 1987

BUTLER BLDG. 1992

BUTLER BUILDING 1976

BUILDING 36

BLDG 41

BLDG 35

BLDG 33

WATER TANK

WATER TANK

LEGEND:

APPROXIMATE SITE BOUNDARIES

NOTE:
1. ALL BUILDINGS AT THE FACILITY HAVE BEEN DEMOLISHED WITH THE EXCEPTION OF THE RECIEVING BUILDINGS 21 AND 25

0 100 200
SCALE IN FEET

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REV	DESCRIPTION	DATE

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FIGURE 1 SITE PLAN.dwg

SITE PLAN

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

MAIN PLANT SWMU 2020
SUPPLEMENTAL INVESTIGATION

JOB NO:	206910.27
DATE:	NOVEMBER 2020
SCALE:	AS NOTED
SHEET:	1 OF 1

FIGURE 1-2

\\woodardcurran.net\shared\Projects\206910 Wyeth Rouses Point - Environmental\Site Assess\wip\RCRA\Main Plant SWMU SAP\Supplemental Sampling and Analysis Report\Figures\CAD-b18_27\Figure 2 Site Plan.dwg, Nov 06, 2020 - 3:41pm PFILLMORE



LEGEND

- APPROXIMATE SITE BOUNDARIES
- AOC-7 NO FURTHER ACTION STATUS APPROVED
- SWMU-7D SWMU/AOC

SOLID WASTE MANAGEMENT UNITS (SWMUs)

SWMU-1	INTERIM DRUM STORAGE AREA
SWMU-2	BUILDING 20A ACCUMULATION AREA
SWMU-3	BUILDING 20 ACCUMULATION AREA
SWMU-4	FORMER CONTAINER STORAGE AREA
SWMU-5	CONTAINER STORAGE AREA
SWMU-6	TANK FARM
SWMU-7	PROCESS SEWER
SWMU-8	WASTE NEUTRALIZATION USTs
SWMU-9	LABORATORY WASTE MANAGEMENT AREA
SWMU-10	NORTH FIELD
SWMU-11	SUMPS AND CATCHMENTS IN SOLVENT USE AREAS (MULTIPLE LOCATIONS)
SWMU-12	BUILDING 16 FORMER DRYWELL
SWMU-13	BUILDING 16 FORMER SANITARY SEWER HOLDING TANKS
SWMU-14	WASTE TOLUENE MANAGEMENT EAST OF TANK FARM
SWMU-15	BUILDING 24 WASTEWATER TREATMENT PLANT
SWMU-16	FORMER FIRE FIGHTING TRAINING AREAS 3 AND 4
SWMU-17	BUILDING 40 WASTEWATER STEAM STRIPPER BUILDING
SWMU-18	BUILDING 41 PROCESS WASTEWATER AST
SWMU-19	PROCESS EQUIPMENT SOLVENT RECOVERY UNITS (MULTIPLE LOCATIONS)
SWMU-20	PROCESS DUST COLLECTION DRUM-OUTS (MULTIPLE LOCATIONS)
SWMU-21	BUILDING 25 ACTIVE PHARMACEUTICAL INGREDIENT WASTE STORAGE AREA
SWMU-22	BUILDING 20 COURT YARD WASTE OIL STORAGE SHED
SWMU-23	BUILDING 16 FORMER WASTE STORAGE AREA IN NORTHWEST CORNER
SWMU-24	BUILDING 31 SOLVENT CONDENSATE SYSTEM
SWMU-25	BUILDING 11 INACTIVE SPRAY PAINT BOOTH
SWMU-26	CHEMICAL DEVELOPMENT REACTOR BAY DRUMMING AREAS (MULTIPLE LOCATIONS)

AREAS OF CONCERN (AOCs)

AOC-1	FORMER PCB-CONTAINING TRANSFORMER, STAINING ON CONCRETE PAD
AOC-2	STAINED SOIL NEAR CONTRACTOR AST
AOC-3	PETROLEUM STAINED SOIL – BUILDING 6 FORMER 30,000 GALLON UST
AOC-4	PETROLEUM AST WITHOUT BASE CONTAINMENT – BUILDING 6
AOC-5	ETHYLENE DICHLORIDE RELEASE NEAR BUILDING 23 LOADING DOCK
AOC-6	PETROLEUM AND DICHLOROMETHANE RELEASE FROM BUILDING 25 LOADING DOCK
AOC-7	NO. 6 FUEL OIL RELEASES TO CONCRETE TRENCH NORTH OF BUILDING 6
AOC-8	RELEASE OF ACETONITRILE TO THE CONCRETE AT CHEMICAL DEVELOPMENT
AOC-9	BUILDING 34 LOADING DOCK MIXED ALCOHOL WASTE RELEASE
AOC-10	BUILDING 23 THERMINOL RELEASE TO SOIL
AOC-11	OFFSITE GROUNDWATER

100' 0 100' 200'

BAR SCALE
1" = 100'
CHECK GRAPHIC SCALE BEFORE USING

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Fig. 2-1.dwg

SWMU AND AOC LOCATIONS AND STATUS

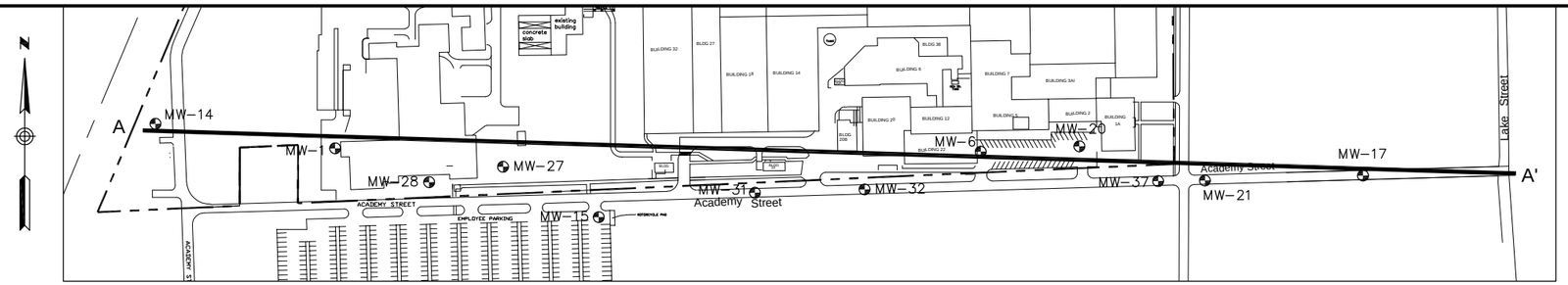
WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

CORRECTIVE MEASURES STUDY

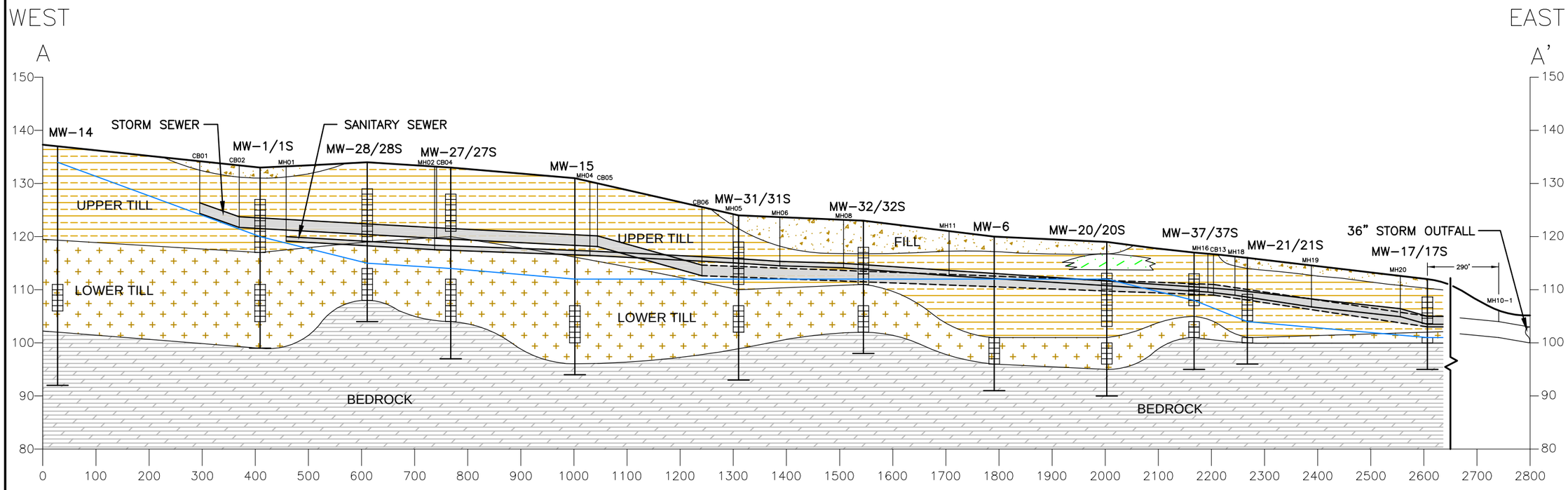
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DATE: NOVEMBER 2024
SCALE: AS NOTED
SHEET: OF

FIGURE 2-1

C:\Users\abuatse\appdata\local\temp\AcPublish_12296\Fig. 2-1.dwg, Oct 31, 2024 - 7:16pm



CROSS-SECTION LOCATION MAP



LEGEND

A ——— A' HYDROGEOLOGIC SECTION LOCATION AND IDENTIFIER

MW-1 SECTION VIEW OF MONITORING WELL LOCATION AND IDENTIFIER

MONITORING WELL SCREEN DEPTH INTERVAL AND BOTTOM OF BORING

EL. 99 ELEVATION OF BEDROCK SURFACE

APPROXIMATE ELEVATION OF THE POTENTIOMETRIC SURFACE ON 12/12/11 IN LOWER TILL WELLS

APPROXIMATE GEOLOGIC CONTACT BASED ON INTERPRETATION FROM SOIL BORING LOGS

FILL, LOOSE FINE TO COARSE SAND, LITTLE SILT, TRACE GRAVEL

UPPER TILL, MEDIUM DENSE TO DENSE FINE TO COARSE SAND, SOME TO LITTLE SILT, TRACE GRAVEL AND CLAY

SILT AND CLAY, STIFF CLAY AND SILT, TRACE TO SOME FINE TO MEDIUM GRAVEL

LOWER TILL, VARIABLE AMOUNTS OF COBBLES AND BOULDERS, SAND, SILT, AND ROCK FRAGMENTS

BEDROCK, STONY POINT SHALE

0 200 400
HORIZONTAL SCALE IN FEET

0 20 40
VERTICAL SCALE IN FEET

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GEOLOGIC CROSS-SECTION A-A'

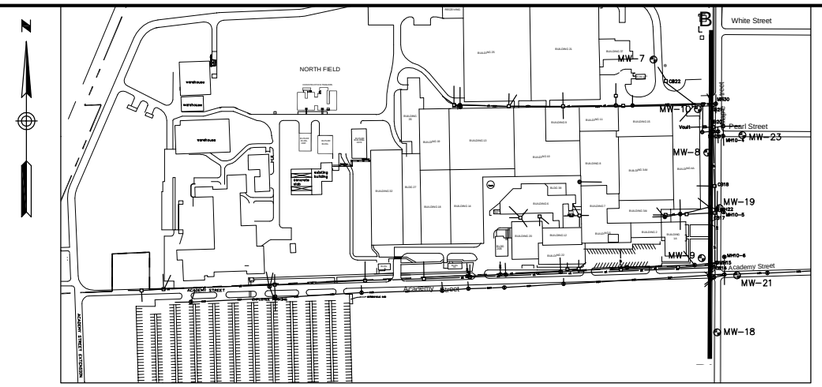
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DRAWN BY: EVR
206910_Fig. 2-1.dwg

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ROUSES POINT, NEW YORK

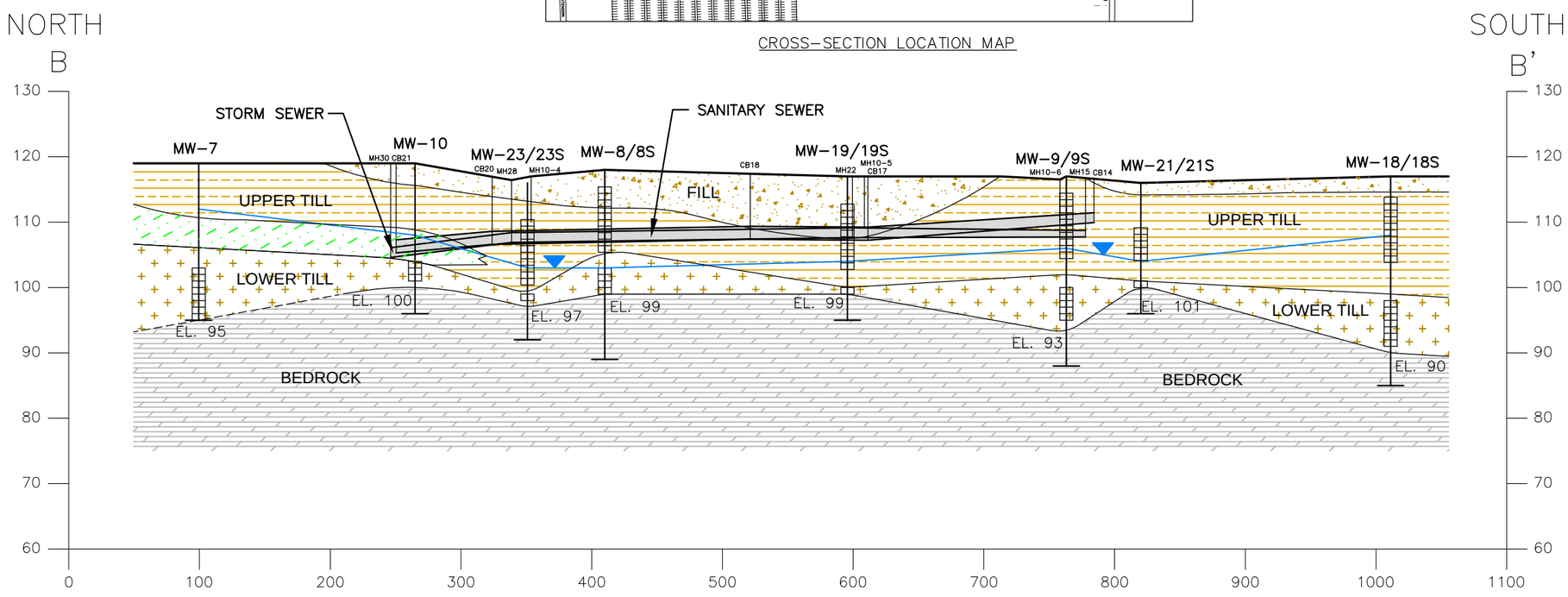
CORRECTIVE MEASURES STUDY REPORT

JOB NO: 206910
DATE: MARCH 2013
SCALE: AS NOTED

FIGURE 2-2



CROSS-SECTION LOCATION MAP



LEGEND

B — B' HYDROGEOLOGIC SECTION LOCATION AND IDENTIFIER

MW-7 SECTION VIEW OF MONITORING WELL LOCATION AND IDENTIFIER

MONITORING WELL SCREEN DEPTH INTERVAL AND BOTTOM OF BORING

APPROXIMATE ELEVATION OF THE POTENTIOMETRIC SURFACE ON 12/12/11 IN LOWER TILL WELLS

EL. 93 ELEVATION OF BEDROCK SURFACE

APPROXIMATE GEOLOGIC CONTACT BASED ON INTERPRETATION FROM SOIL BORING LOGS

FILL, LOOSE FINE TO COARSE SAND, LITTLE SILT, TRACE GRAVEL

UPPER TILL, MEDIUM DENSE TO DENSE FINE TO COARSE SAND, SOME TO LITTLE SILT, TRACE GRAVEL AND CLAY

SILT AND CLAY, STIFF CLAY AND SILT, TRACE TO SOME FINE TO MEDIUM GRAVEL

LOWER TILL, VARIABLE AMOUNTS OF COBBLES AND BOULDERS, SAND, SILT, AND ROCK FRAGMENTS

BEDROCK, STONY POINT SHALE

0 200 400
HORIZONTAL SCALE IN FEET

0 20 40
VERTICAL SCALE IN FEET

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GEOLOGIC CROSS-SECTION B-B'

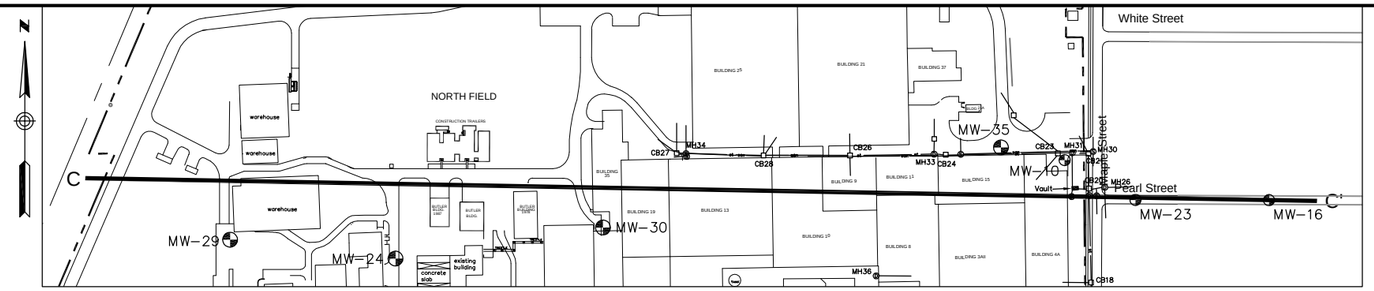
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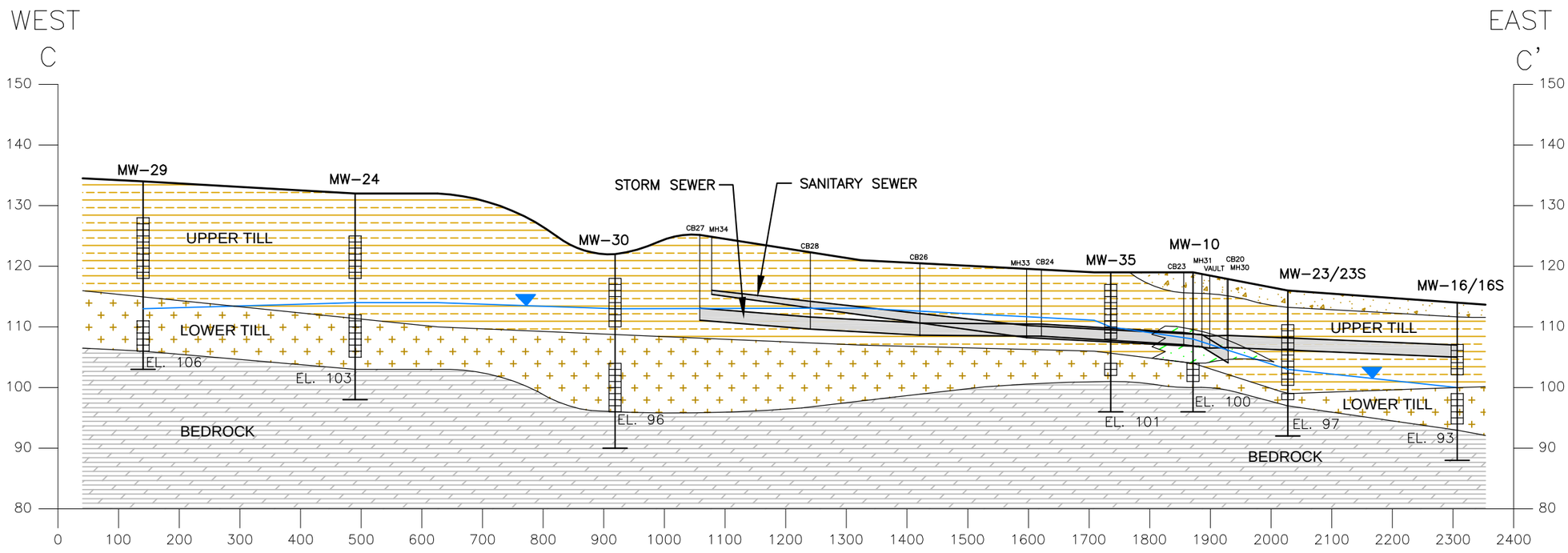
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DATE: MARCH 2013
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FIGURE 2-3



CROSS-SECTION LOCATION MAP



LEGEND

C —— C' HYDROGEOLOGIC SECTION LOCATION AND IDENTIFIER

MW-7 SECTION VIEW OF MONITORING WELL LOCATION AND IDENTIFIER

MONITORING WELL SCREEN DEPTH INTERVAL AND BOTTOM OF BORING

APPROXIMATE ELEVATION OF THE POTENTIOMETRIC SURFACE ON 12/12/11 IN LOWER TILL WELLS

EL. 95 ELEVATION OF BEDROCK SURFACE

APPROXIMATE GEOLOGIC CONTACT BASED ON INTERPRETATION FROM SOIL BORING LOGS

FILL, LOOSE FINE TO COARSE SAND, LITTLE SILT, TRACE GRAVEL

UPPER TILL, MEDIUM DENSE TO DENSE FINE TO COARSE SAND, SOME TO LITTLE SILT, TRACE GRAVEL AND CLAY

SILT AND CLAY, STIFF CLAY AND SILT, TRACE TO SOME FINE TO MEDIUM GRAVEL

LOWER TILL, VARIABLE AMOUNTS OF COBBLES AND BOULDERS, SAND, SILT, AND ROCK FRAGMENTS

BEDROCK, STONY POINT SHALE

0 200 400
HORIZONTAL SCALE IN FEET

0 20 40
VERTICAL SCALE IN FEET

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GEOLOGIC CROSS-SECTION C-C'

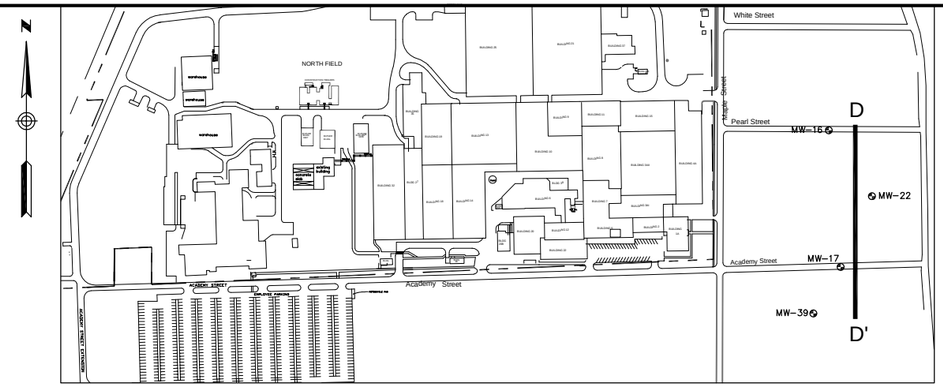
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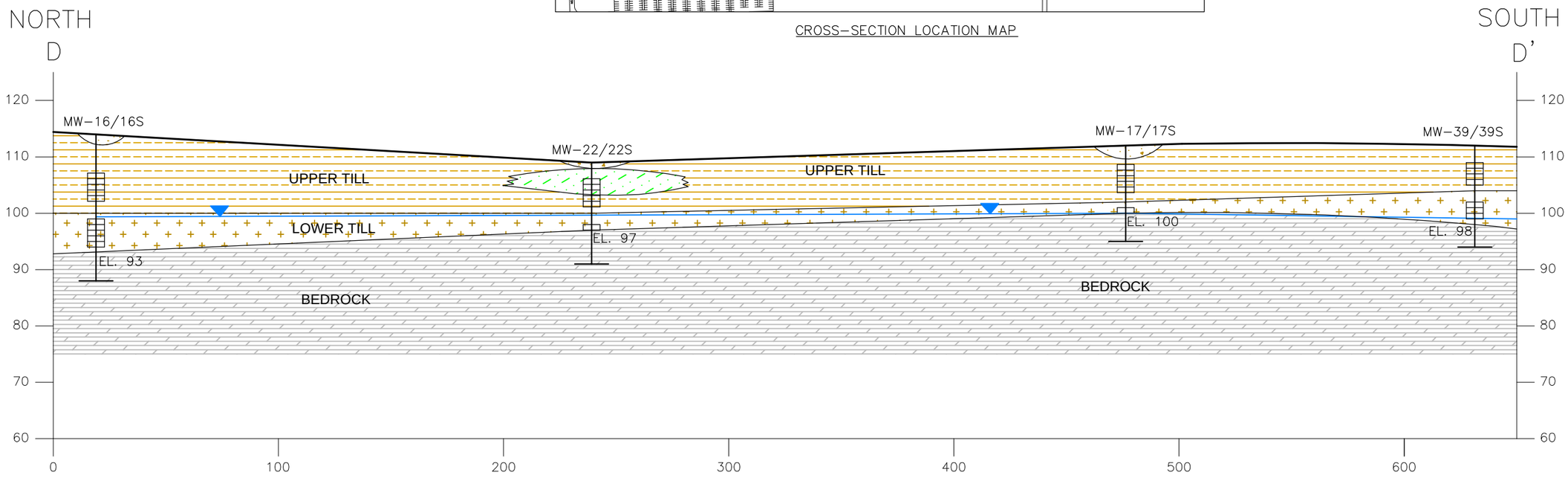
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FIGURE 2-4



CROSS-SECTION LOCATION MAP



LEGEND

D —— D' HYDROGEOLOGIC SECTION LOCATION AND IDENTIFIER

MW-17 SECTION VIEW OF MONITORING WELL LOCATION AND IDENTIFIER

MONITORING WELL SCREEN DEPTH INTERVAL AND BOTTOM OF BORING

APPROXIMATE ELEVATION OF THE POTENTIOMETRIC SURFACE ON 12/12/11 IN LOWER TILL WELLS. MW-39 DRY ON 12/12/11. WATER LEVEL USED FROM 9/26/11.

EL. 96 ELEVATION OF BEDROCK SURFACE

APPROXIMATE GEOLOGIC CONTACT BASED ON INTERPRETATION FROM SOIL BORING LOGS

FILL, LOOSE FINE TO COARSE SAND, LITTLE SILT, TRACE GRAVEL

UPPER TILL, MEDIUM DENSE TO DENSE FINE TO COARSE SAND, SOME TO LITTLE SILT, TRACE GRAVEL AND CLAY

SILT AND CLAY, STIFF CLAY AND SILT, TRACE TO SOME FINE TO MEDIUM GRAVEL

LOWER TILL, VARIABLE AMOUNTS OF COBBLES AND BOULDERS, SAND, SILT, AND ROCK FRAGMENTS

BEDROCK, STONY POINT SHALE

0 50 100
HORIZONTAL SCALE IN FEET

0 20 40
VERTICAL SCALE IN FEET

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GEOLOGIC CROSS-SECTION D-D'

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ROUSES POINT, NEW YORK

CORRECTIVE MEASURES STUDY REPORT

JOB NO: 206910
DATE: MARCH 2013
SCALE: AS NOTED

FIGURE 2-5

N

Clinton Street

Clinton Street

APPROXIMATE CHEMICAL DEVELOPMENT PLANT PROPERTY BOUNDARY

MW-11

MW-12

MW-4 (DECOMMISSIONED)

MW-13

MW-2 (DECOMMISSIONED)

MW-7

MW-35S MW-35

MW-10

MW-23S MW-23 MW-16S MW-16

MW-8S MW-8

MW-30S MW-30

MW-43

MW-34S MW-34

MW-40S MW-40

MW-41S MW-41

MW-29 MW-29S

MW-24 MW-24S

MW-25 MW-25S

MW-26 MW-26S

MW-3 MW-3S (DECOMMISSIONED)

MW-14

MW-1 MW-1S

MW-28 MW-28S

MW-27 MW-27S

MW-42

MW-33S MW-33

MW-5 MW-5S

MW-32 MW-32S

MW-31 MW-31S

MW-6

MW-20S MW-20

MW-9S MW-9

MW-37S (DECOMMISSIONED) MW-37

MW-21S (DECOMMISSIONED) MW-21

MW-17S MW-17

MW-36 MW-36S

MW-19 MW-19S

MW-38S MW-38

MW-22S MW-22

MW-15

MW-39 MW-39S

MW-18S MW-18

White Avenue

Pearl Street

Maple Street

Lake Street

Academy Street

ACADEMY STREET

EMPLOYEE PARKING

ACADEMY STREET EXTENSION

RECEIVING

BUILDING 25

BUILDING 21

BUILDING 37

BUILDING 35

BUILDING 19

BUILDING 13

BUILDING 9

BUILDING 11

BUILDING 15

SHIPPING

BUILDING 10

BUILDING 8

BUILDING 3A2

BUILDING 4A

BUILDING 32

BUILDING 18

BUILDING 14

BUILDING 6

BUILDING 38

BUILDING 7

BUILDING 3AI

BUILDING 20

BUILDING 12

BUILDING 5

BUILDING 2

BUILDING 1A

BUILDING 22

BUILDING 34

BUILDING 16

BUILDING 23

BUILDING 43

BUILDING 26

BUILDING 31

CONSTRUCTION TRAILERS

existing building

concrete slab

TANK FARM

WATER TANK

LEGEND

APPROXIMATE SITE BOUNDARIES

MONITORING WELL (LOWER TILL)

MONITORING WELL (UPPER TILL)

0 100 200

SCALE IN FEET

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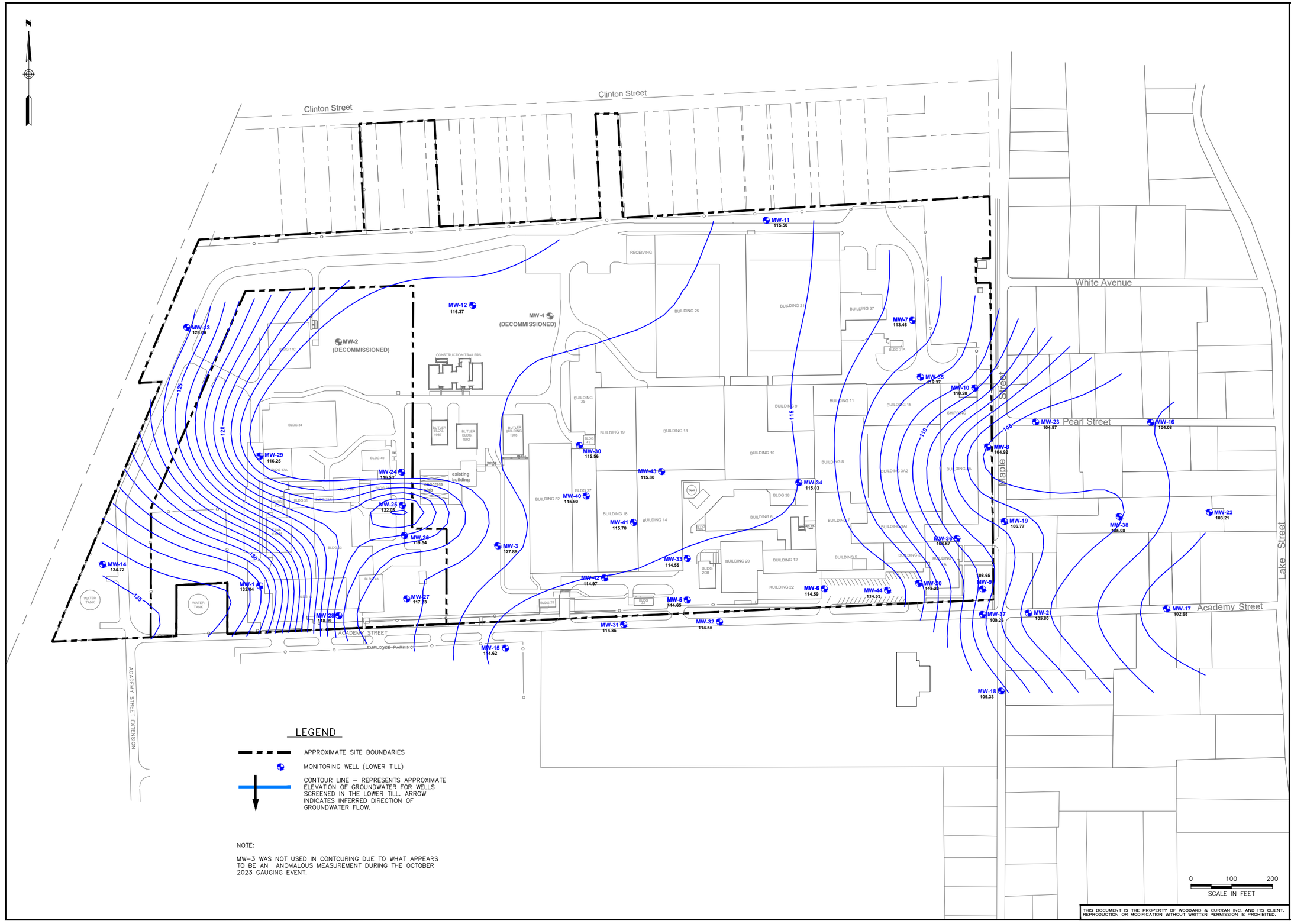
SITE PLAN AND MONITORING WELL NETWORK

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

GROUNDWATER SAMPLING PROGRAM

JOB NO.: 209610
DATE: July 2021
SCALE: AS NOTED
SHEET: OF

FIGURE 2-6



LEGEND

- APPROXIMATE SITE BOUNDARIES
- MONITORING WELL (LOWER TILL)
- CONTOUR LINE – REPRESENTS APPROXIMATE ELEVATION OF GROUNDWATER FOR WELLS SCREENED IN THE LOWER TILL. ARROW INDICATES INFERRED DIRECTION OF GROUNDWATER FLOW.

NOTE:

MW–3 WAS NOT USED IN CONTOURING DUE TO WHAT APPEARS TO BE AN ANOMALOUS MEASUREMENT DURING THE OCTOBER 2023 GAUGING EVENT.

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GROUNDWATER CONTOURS – LOWER TILL OCTOBER 16, 2023

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

CORRECTIVE MEASURES STUDY REPORT

JOB NO.: 206910
DATE: MARCH 2013
SCALE: AS NOTED
SHEET: OF

FIGURE 2-7

TCE-SB11	
Depth	TCE
5	1.7J
8	< 4.9
9	< 4.1
14	< 4.4
17	< 4.3
21	< 4.3

19-2704-1-01	
Depth	TCE
1.5-2'	< 4.7

7-2701-1-02	
Depth	TCE
4-5'	12

TCE-SB03	
Depth	TCE
7	6600
11	< 92
15	110000
19	75000
22	110000

7-2701-1-03	
Depth	TCE
4-5'	< 5.1
0.0	< 4.9

11-2705-1-01	
Depth	TCE
9.5'	< 4.9

TCE-SB10	
Depth	TCE
8	< 4.3
12	< 4.3
18	< 4.4
22	53000

11-1801C-01	
Depth	TCE
6-7'	< 5.1

19-1801C-01	
Depth	TCE
1.5-2'	< 5.2

7-1801C-01	
Depth	TCE
4'	5.6 UJ

TCE-SB09	
Depth	TCE
5	< 5.0
5	< 4.4
8	< 4.2
12	< 4.6
14	< 4.4
22	94J

TCE-SB02	
Depth	TCE
7	1800
11	1.0J
14	50000
16	120000
16 DUP	110000
19	230000
23	3.9J

7-1801-1-09	
Depth	TCE
1	4.7J
7	2300
13	2800
15	67000
21	170000
23	12000

7-2701-1-01	
Depth	TCE
4.5-5'	51

TCE-SB04	
Depth	TCE
5	5700
10	4700
10	91000
18	1100
21	71000

7-2701-1-04	
Depth	TCE
3-4'	3.5 J

7-2702-1-03	
Depth	TCE
4	130
8 DUP	120
8	3500
12	47000
16	3700

7-2702-1-01	
Depth	TCE
3-4'	2000

7-2702-1-07	
Depth	TCE
3	120
10	69000
23	18000

TCE-SB12	
Depth	TCE
5	2800
8	8100
9	24000
10	35000
11	12000
11	7700
16	< 4.7
18	< 5.0
23	< 4.1

7-2702-1-06	
Depth	TCE
5	3.9J

7-2702-1-05	
Depth	TCE
4	6100
9	150000
10	79000
18	110000
23	660000

7-2702-1-08B	
Depth	TCE
5	6400
7	30000

7-2702-1-08A	
Depth	TCE
4	1300
6	110000
12	220000
14	110000E
18	183000E
25	188000

TCE-SB13	
Depth	TCE
4	65000
6	65000
9	56000
10	52000
12	2.3J
16	2400
18	< 4.9
21	< 5.6

TCE-SB05	
Depth	TCE
6	36000
6	33000
8	44000
9	37000
10	37000
12	< 2100
15	110000
19	150000
23	190000

TCE-SB01	
Depth	TCE
7	650
9	60000
12	69000
17	63000
21	56000

TCE-SB06	
Depth	TCE
9	3600
12	510
18	150000
20	50000
23	640

TCE-SB14	
Depth	TCE
7	< 4.5
9	< 4.5
13	31000
15	31000
18	< 7.1

7-1801-1-08	
Depth	TCE
2	1200
9	45000
9 DUP	50000
12	80000
19	30000
22	57000
24	21000

7-1801-1-07	
Depth	TCE
5	300
8	28000
11	30000
19	< 4.1
23	< 1800

TCE-SB07	
Depth	TCE
4	< 4.3
9	< 4.1
12	< 4.5
17	< 4.1
21	< 4.3

7-1801-1-01	
Depth	TCE
5'	1100
6'	1400

7-1801-1-03	
Depth	TCE
5	760
8	12000
17	< 4.1
19	< 4.5
21	< 4.8
23	< 4.8

7-1801-1-10	
Depth	TCE
3	73
7	82
15	68000

7-1801-1-04	
Depth	TCE
1	280
8	40000
8	40000

TCE-SB08	
Depth	TCE
5	< 4.3
9	< 4.5
11	< 61
14	45J
21	1600

7-1801-1-02	
Depth	TCE
2'	740
4.5'	720
6.5'	4200

7-1801-1-11	
Depth	TCE
3	1.0J
12	8400

7-1801-1-05	
Depth	TCE
2	160
7	14000
14	56000E

7-1801-1-06B	
Depth	TCE
1	1.3J

7-1801-1-06A	
Depth	TCE
5	20
9	< 4.9
17	< 4.3
17 DUP	< 4.2
22	< 5.2

TCE-SB15	
Depth	TCE
5	< 4.3
8	< 4.6
12	< 4.5
17	< 4.5
21	150

-11 -10 -09 -12 -13 -01 -14 -15 -08 -05 -06 -07 -04 -03 -02

19-2704-1-01 (1.5-2')
7-2701-1-02 (4-5')
7-2701-1-03 (4-5')
11-2705-1-01 (9.5')
11-1801C-01 (6-7')
19-1801C-01 (1.5-2')
7-1801C-01 (4')
7-2701-1-01 (4.5-5')
7-2701-1-04 (3-4')
7-2702-1-03
7-2702-1-07
7-2702-1-04
7-2702-1-01 (3-4')
7-2702-1-02
7-2702-1-06
7-2702-1-05
7-1801-1-09
7-1801-1-01 (5')
7-1801-1-01 (6')
7-1801-1-03
7-1801-1-08
7-1801-1-10
7-1801-1-04
7-1801-1-02 (2')
7-1801-1-02 (4.5')
7-1801-1-02 (6.5')
7-1801-1-05
7-1801-1-11
7-1801-1-07
7-1801-1-06A
7-1801-1-06B
MW-40S
7-2702-1-8B
7-2702-1-8A
MW-40

RM 2704-1
RM 2705-1
RM 2703-1
RM 2701-1
RM 2702-1
RM 1801C-1
RM 1801D-1
RM 1801B-1
RM 1801E-1
RM 1803-1
RM 1804A-1
RM 1801-1
RM 1804-1

BUILDING 27
BUILDING 18

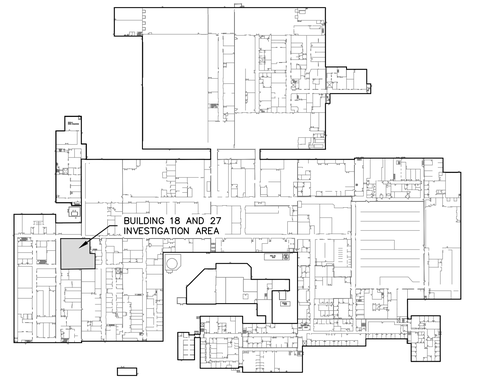
SWMU-11
PAL-4
SUMP
(PUMPED TO BLDG. 41)

SWMU-11
GLATT-1
SUMP
PUMPED TO BLDG. 41)

GLYCOL SPILL AREA
1801C-1-TR-1

FD (DOES NOT DRAIN TO SUMP)

2701-1-C0-1 (LEAK DETECTION SYSTEM)
2701-1-C0-2 (LEAK DETECTION SYSTEM)
2702-1-C0-1 (LEAK DETECTION SYSTEM)
2702-1-C0-3 (LEAK DETECTION SYSTEM)



KEY MAP

LEGEND

- 2018 MAIN PLANT SWMU INVESTIGATION SOIL BORING
- 2019 SUPPLEMENTAL INVESTIGATION SOIL BORING
- 2020 SUPPLEMENTAL INVESTIGATION SOIL BORING
- AREA OF CONCERN (AOC) SWMU 7 AREA

Exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375-6.8(a)) and Exceeds NYSDEC Protection of Groundwater Objectives (6 NYCRR Part 375-6.8(b))
Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Residential (6 NYCRR Part 375-6.8(b))
Exceeds NYSDEC Restricted Use Soil Cleanup Objectives - Commercial (6 NYCRR Part 375-6.8(b))

0 6' 12'
SCALE IN FEET

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Woodard & Curran COMMITMENT & INTEGRITY DRIVE RESULTS
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REV	DESCRIPTION	DATE

DESIGNED BY: GR
DRAWN BY: MRM
CHECKED BY: ZS
FIGURE 5 BLDG 18_27 T7.dwg

BUILDING 18 AND 27 AREA TCE CONCENTRATIONS

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

MAIN PLANT SWMU 2020 SUPPLEMENTAL INVESTIGATION

JOB NO: 206910.23
DATE: NOVEMBER 2020
SCALE: 1" = 6'
SHEET: 1 OF 1

FIGURE 4-1

\\woodardcurran.net\shares\Projects\206910 Wyeth Rouses Point - Environmental Site Assess\wip\RCRA\Main Plant SWMU SAP\B18_27 Supplemental Work\Figures\CAD\FIGURE 3-BLDG 18_27 TCE Areas.dwg, Nov 03, 2020 - 8:29pm PFILLMORE

22x34

Clinton Street

Clinton Street

APPROXIMATE CHEMICAL DEVELOPMENT PLANT PROPERTY BOUNDARY

White Avenue

Pearl Street

Main Street

ACADEMY STREET

ACADEMY STREET EXTENSION

EMPLOYEE PARKING

ROUSES POINT ELEMENTARY SCHOOL

MW-11 MW-12 MW-13 MW-14 MW-1 MW-1S MW-3 MW-7 MW-10 MW-15 <1.0

MW-23S 9.7 MW-23 <1.0 MW-16S <1.0 MW-16 0.98J

MW-8S NS MW-8 20

MW-35S 0.99J MW-35

MW-30S <1.0 MW-30 <1.0 MW-43 <1.0

MW-40 41000 MW-40S 510 MW-41 <1.0 MW-41S <1.0

MW-34S NS MW-34 <1.0

MW-33S 2.6J MW-33 1.4 MW-42 <1.0

MW-5 0.75J MW-5S NS MW-31 <2.0 MW-31S <2.0 MW-32 <1.0 MW-32S <4.0

MW-6 <1.0 MW-20S NS MW-20 MW-9 0.49J MW-9S <1.0

MW-37 6.1 MW-21 <50 MW-17 NS MW-17S <1.0

MW-19 4.1 MW-19S NS

MW-36 MW-36S <1.0

MW-38S MW-38 <1.0 MW-22S <1.0 MW-22 1.7

MW-18S <1.0 MW-18 <1.0

MW-39 NS MW-39S NS

MW-29 MW-29S <1.0 MW-24 MW-24S MW-25 MW-25S MW-26 MW-26S MW-27 2.9 MW-27S <1.0 MW-28 MW-28S

5 ug/L 5000 ug/L 5 ug/L

BUILDING 25 BUILDING 21 BUILDING 37 BUILDING 35 BUILDING 19 BUILDING 13 BUILDING 9 BUILDING 11 BUILDING 15 BUILDING 10 BUILDING 8 BUILDING 3A2 BUILDING 6 BUILDING 7 BUILDING 3AI BUILDING 20 BUILDING 12 BUILDING 5 BUILDING 2 BUILDING 22 BUILDING 18 BUILDING 14

RECEIVING SHIPPING CONSTRUCTION TRAILERS existing building concrete slab TANK FARM WATER TANK WATER TANK

BLDG 17C BLDG 34 BLDG 40 BLDG 17A BLDG 26 BLDG 24 BLDG 31 BLDG 23A BLDG 31A BLDG 23 BLDG 43 BLDG 16 BLDG 41 BLDG 27 BLDG 38 BLDG 6 BLDG 7 BLDG 3A1 BLDG 20B BLDG 12 BLDG 5 BLDG 2 BLDG 1A BLDG 22 BLDG 28 BLDG 33 BLDG 21A BLDG 4A BLDG01

BUTLER BLDG. 1987 BUTLER BLDG. 1992 BUTLER BUILDING 1976

LEGEND

- APPROXIMATE SITE BOUNDARIES
- 5 CONCENTRATION ISOPLETH (ug/L)
- 5 INFERRED CONCENTRATION ISOPLETH (ug/L)
- MONITORING WELL (LOWER TILL)
- MONITORING WELL (UPPER TILL)
- MONITORING WELL (LOWER TILL), NOT SAMPLED
- MONITORING WELL (UPPER TILL), NOT SAMPLED
- MW-5 <4.0 CONCENTRATIONS ARE SHOWN IN ug/l
- MW-32 <1.0 < INDICATES NOT DETECTED AT REPORTING LIMIT
- MW-39 NS NOT SAMPLED

5000 ug/L

5 ug/L

0 100 200

SCALE IN FEET

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CLIENT INFO:

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

GROUNDWATER SAMPLING PROGRAM

REV	MM/DD/YY	DESCRIPTION

JOB NO:	209610
DATE:	JULY 2022
SCALE:	1:2
DESIGNED BY:	CJ
DRAWN BY:	JAR
CHECKED BY:	GSR
FILENAME:	2022 206910 FIGURE-3.3 *.dwg

DRAWING TITLE:

2022 DEEP TILL AQUIFER TRICHLOROETHANE CONCENTRATION ISOPLETHS

DRAWING NO:

FIGURE 4-2

22x34

APPROXIMATE CHEMICAL DEVELOPMENT PLANT PROPERTY BOUNDARY

Clinton Street

White Avenue

Pearl Street

Academy Street

ACADEMY STREET

ACADEMY STREET EXTENSION

EMPLOYEE PARKING

ROUSES POINT ELEMENTARY SCHOOL

MW-11 MW-12 MW-13 MW-14 MW-1 MW-1S MW-3 MW-7 MW-10 MW-20 MW-20S MW-24 MW-24S MW-25 MW-25S MW-26 MW-26S MW-27 MW-27S MW-28 MW-28S MW-29 MW-29S MW-30 MW-30S MW-31 MW-31S MW-32 MW-32S MW-33S MW-34 MW-34S MW-35 MW-35S MW-36 MW-36S MW-37 MW-38 MW-38S MW-39 MW-39S MW-41 MW-42 MW-43 MW-6 MW-8S MW-9 MW-9S MW-15 MW-16 MW-16S MW-17 MW-17S MW-18 MW-18S MW-19 MW-19S MW-21 MW-22 MW-22S MW-23

MW-30S <1.0
MW-30 <1.0
MW-43 <1.0
MW-34S MW-34 <1.0
MW-41 <1.0
MW-42 <1.0
MW-6 11
MW-35S <1.0
MW-9 <1.0
MW-9S <1.0
MW-36S <1.0
MW-38 <1.0
MW-22S <1.0
MW-22 3.2
MW-19 5.2
MW-19S NS
MW-23 <1.0
MW-16S <1.0
MW-16 3.0
MW-17 NS
MW-37 <5.0
MW-21 <50
MW-31 <2.0
MW-32 <1.0
MW-32S <4.0
MW-27 <1.0
MW-27S <1.0
MW-15 <1.0
MW-18S <1.0
MW-18 <1.0
MW-39 NS

5 ug/L
2000 ug/L
5 ug/L
5 ug/L

BUILDING 25, BUILDING 21, BUILDING 37, BUILDING 35, BUILDING 19, BUILDING 13, BUILDING 9, BUILDING 11, BUILDING 15, BUILDING 10, BUILDING 8, BUILDING 3A2, BUILDING 4A, BUILDING 38, BUILDING 6, BUILDING 7, BUILDING 3AI, BUILDING 14, BUILDING 18, BUILDING 5, BUILDING 2, BUILDING 1A, BUILDING 33, BUILDING 41, BUILDING 34, BUILDING 17C, BUILDING 17A, BUILDING 40, BUILDING 24, BUILDING 26, BUILDING 31, BUILDING 23A, BUILDING 23, BUILDING 16, BUILDING 43, BUILDING 28, BUILDING 21A, BUILDING 3A1, BUILDING 3C, BUILDING 3A, BLDG001, RECEIVING, SHIPPING, CONSTRUCTION TRAILERS, BUTLER BLDG. 1987, BUTLER BLDG. 1992, BUTLER BUILDING 1976, concrete slab, existing building, TANK FARM, WATER TANK, WATER TANK

LEGEND

- APPROXIMATE SITE BOUNDARIES
- 5 — CONCENTRATION ISOPLETH (ug/L)
- 5 — INFERRED CONCENTRATION ISOPLETH (ug/L)
- MONITORING WELL (LOWER TILL)
- MONITORING WELL (UPPER TILL)
- MONITORING WELL (LOWER TILL), NOT SAMPLED
- MONITORING WELL (UPPER TILL), NOT SAMPLED
- MW-5 220 — CONCENTRATIONS ARE SHOWN IN ug/l
- MW-32 <1 — < INDICATES NOT DETECTED AT REPORTING LIMIT
- MW-39 NS — NOT SAMPLED

2000 ug/L
5 ug/L

0 100 200
SCALE IN FEET

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PE SEAL:

CLIENT INFO:

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

GROUNDWATER SAMPLING PROGRAM

REV	MM/DD/YY	DESCRIPTION

JOB NO:	209610
DATE:	JULY 2022
SCALE:	1:2
DESIGNED BY:	CJ
DRAWN BY:	JAR
CHECKED BY:	GSR
FILENAME:	2022 206910 FIGURE-3.4 *.dwg

DRAWING TITLE:

2022 DEEP TILL AQUIFER CIS-1,2-DICHLOROETHANE CONCENTRATION ISOPLETHS

DRAWING NO:

FIGURE 4-3

22x34

Clinton Street

Clinton Street

APPROXIMATE CHEMICAL DEVELOPMENT PLANT PROPERTY BOUNDARY

MW-11

MW-12

MW-13

MW-14

MW-1

MW-1S

MW-2

MW-2S

MW-3

MW-4

MW-4S

MW-5 99

MW-6 8.6

MW-7

MW-8 <2.0

MW-8S

MW-9 <1.0

MW-9S <1.0

MW-10

MW-15 <1.0 J-

MW-16 <1.0

MW-16S <1.0

MW-17 <1.0J-

MW-17S <1.0J-

MW-18 <1.0

MW-18S <1.0

MW-19 <2.0

MW-19S NS

MW-20

MW-20S

MW-21 <50

MW-22 <1.0

MW-22S <1.0

MW-23 <1.0

MW-23S <1.0

MW-24

MW-24S

MW-25

MW-25S

MW-26

MW-26S

MW-27 1.0

MW-27S <1.0

MW-28

MW-28S

MW-29

MW-29S <1.0

MW-30 < 1.0

MW-30S <1.0

MW-31 <2.0

MW-31S <2.0

MW-32 1.3

MW-32S <4.0

MW-33 500 J-

MW-33S <4.0

MW-34 <1.0

MW-34S

MW-35 <1.0

MW-35S <1.0

MW-36 <1.0

MW-36S <1.0

MW-37 <5.0

MW-38 <1.0

MW-38S

MW-39 NS

MW-39S NS

MW-40 840J

MW-40S 3.9J

MW-41 4.3

MW-41S <1.0

MW-42 <1.0

MW-43 22

0.6 ug/L

500 ug/L

0.6 ug/L

500 ug/L

0.6 ug/L

0.6 ug/L

White Avenue

Pearl Street

Maple Street

ACADEMY STREET

ACADEMY STREET EXTENSION

EMPLOYEE PARKING

RECEIVING

CONSTRUCTION TRAILERS

existing building

concrete slab

TANK FARM

WATER TANK

WATER TANK

BUILDING 25

BUILDING 21

BUILDING 37

BUILDING 35

BUILDING 19

BUILDING 13

BUILDING 9

BUILDING 11

BUILDING 15

BUILDING 10

BUILDING 8

BUILDING 3A2

BUILDING 4A

BUILDING 3A1

BUILDING 7

BUILDING 6

BUILDING 14

BUILDING 12

BUILDING 20

BUILDING 22

BUILDING 5

BUILDING 2

BUILDING 1A

BUILDING 3A

BUILDING 3

BUILDING 4

BUILDING 16

BUILDING 23

BUILDING 26

BUILDING 31

BUILDING 34

BUILDING 40

BUILDING 43

BUILDING 28

BUILDING 27

BUILDING 41

BUILDING 17C

BUILDING 17A

BUILDING 21A

BUILDING 20B

BUTLER BLDG. 1987

BUTLER BLDG. 1992

BUTLER BUILDING 1976

SHIPPING

BLDG001

ROUSES POINT ELEMENTARY SCHOOL

LEGEND

- APPROXIMATE SITE BOUNDARIES
- 0.6 — CONCENTRATION ISOPLETH ug/L
- 0.6 — INFERRED CONCENTRATION ISOPLETH ug/L
- MONITORING WELL (LOWER TILL)
- MONITORING WELL (UPPER TILL)
- MONITORING WELL (LOWER TILL), NOT SAMPLED
- MONITORING WELL (UPPER TILL), NOT SAMPLED
- MW-5 130 — CONCENTRATIONS ARE SHOWN IN ug/L
- MW-32 <1 — < INDICATES NOT DETECTED AT REPORTING LIMIT
- MW-39 NS — NOT SAMPLED

500 ug/L

0.6 ug/L

0 100 200

SCALE IN FEET

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CLIENT INFO:

WYETH PHARMACEUTICALS LLC
ROUSES POINT, NEW YORK

GROUNDWATER SAMPLING PROGRAM

REV	MM/DD/YY	DESCRIPTION

JOB NO:	209610
DATE:	JULY 2022
SCALE:	1:2
DESIGNED BY:	CJ
DRAWN BY:	JAR
CHECKED BY:	GSR
FILENAME:	2022 206910 FIGURE-3.2 *.dwg

DRAWING TITLE:

2022 DEEP TILL AQUIFER 1,2-DICHLOROETHANE CONCENTRATION ISOPLETHS

DRAWING NO:

FIGURE 4-4

22x34

Clinton Street

Clinton Street

APPROXIMATE CHEMICAL DEVELOPMENT PLANT PROPERTY BOUNDARY

MW-11

MW-12

MW-13

MW-14

MW-7

MW-10

MW-8S

MW-8 <2.0

MW-9 6.9

MW-9S <1.0

MW-35S <1.0

MW-35

MW-23S 0.64J

MW-23 <1.0

MW-16S 0.36J

MW-16 <1.0

MW-17S <1.0

MW-17 NS

MW-18S <1.0

MW-18 <1.0

MW-19 <2.0

MW-19S NS

MW-20S

MW-20

MW-21 3200

MW-22S <1.0

MW-22 1.6

MW-24

MW-24S

MW-25

MW-25S

MW-26

MW-26S

MW-27 1.0

MW-27S <1.0

MW-28

MW-28S

MW-29

MW-29S <1.0

MW-30S <1.0

MW-30 <1.0

MW-31 <2.0

MW-31S <2.0

MW-32 <1.0

MW-32S <4.0

MW-33 <1.0

MW-33S <4.0

MW-34 <1.0

MW-34S

MW-36 <1.0

MW-36S <1.0

MW-37 230

MW-38 <1.0

MW-38S

MW-39 NS

MW-39S NS

MW-40 <1000

MW-40S <10

MW-41 <1.0

MW-41S <1.0

MW-42 <1.0

MW-43 <1.0

MW-1

MW-1S

MW-3

MW-5 <1.0

MW-5S

MW-6 <1.0

MW-15 <1.0

5 ug/L

5 ug/L

White Avenue

Pearl Street

Academy

Maple Street

ACADEMY STREET

ACADEMY STREET EXTENSION

EMPLOYEE PARKING

ROUSES POINT ELEMENTARY SCHOOL

BLDG01

RECEIVING

BUILDING 25

BUILDING 21

BUILDING 37

BUILDING 35

BUILDING 9

BUILDING 11

BUILDING 15

BUILDING 19

BUILDING 13

BUILDING 10

BUILDING 8

BUILDING 3A2

BUILDING 4A

SHIPPING

BUILDING 14

BUILDING 6

BUILDING 7

BUILDING 3AI

BUILDING 2

BUILDING 1A

BUILDING 20

BUILDING 12

BUILDING 5

BUILDING 22

BUILDING 32

BUILDING 18

BLDG 17C

BLDG 34

BLDG 40

BLDG 26

BLDG 24

BLDG 31

BLDG 23A

BLDG 31A

BLDG 23

TANK FARM

BLDG 43

BLDG 16

BLDG 41

BLDG 27

BLDG 38

BLDG 20B

BLDG 21A

BLDG 28

BLDG 33

CONSTRUCTION TRAILERS

BUTLER BLDG. 1987

BUTLER BLDG. 1992

BUTLER BUILDING 1976

existing building

concrete slab

WATER TANK

WATER TANK

TANK

TANK

LEGEND

	APPROXIMATE SITE BOUNDARIES
5	CONCENTRATION ISOPLETH ug/L
5	INFERRED CONCENTRATION ISOPLETH ug/L
	MONITORING WELL (LOWER TILL)
	MONITORING WELL (UPPER TILL)
	MONITORING WELL (LOWER TILL), NOT SAMPLED
	MONITORING WELL (UPPER TILL), NOT SAMPLED
MW-5 <4.0	CONCENTRATIONS ARE SHOWN IN ug/L
MW-32 <1.0	< INDICATES NOT DETECTED AT REPORTING LIMIT
MW-39 NS	NOT SAMPLED

2000 ug/L

5 ug/L

0 100 200

SCALE IN FEET

\\woodardcurran.net\shared\Projects\209810 Wyeth Rouses Point - Environmental Site Assess\wip\RCRA\CMS\Groundwater Sampling\2022 Sampling Event\Report\Figures\2022 206910 FIGURE-3.1 CCI4 New Logo.dwg, Sep 29, 2023 - 2:20pm KBURRELL

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PE SEAL:

CLIENT INFO:

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ROUSES POINT, NEW YORK

GROUNDWATER SAMPLING PROGRAM

REV	MM/DD/YY	DESCRIPTION

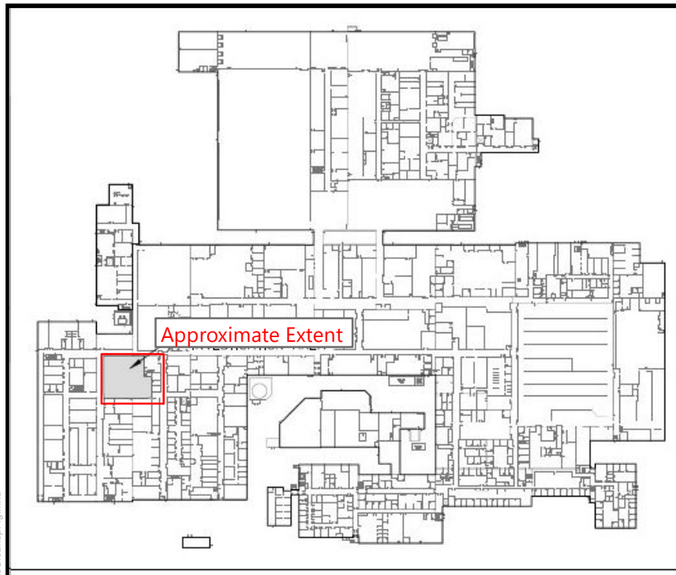
JOB NO:	209610
DATE:	JULY 2022
SCALE:	1:2
DESIGNED BY:	CJ
DRAWN BY:	JAR
CHECKED BY:	GSR
FILENAME:	2022 206910 FIGURE-3.1 *.dwg

DRAWING TITLE:

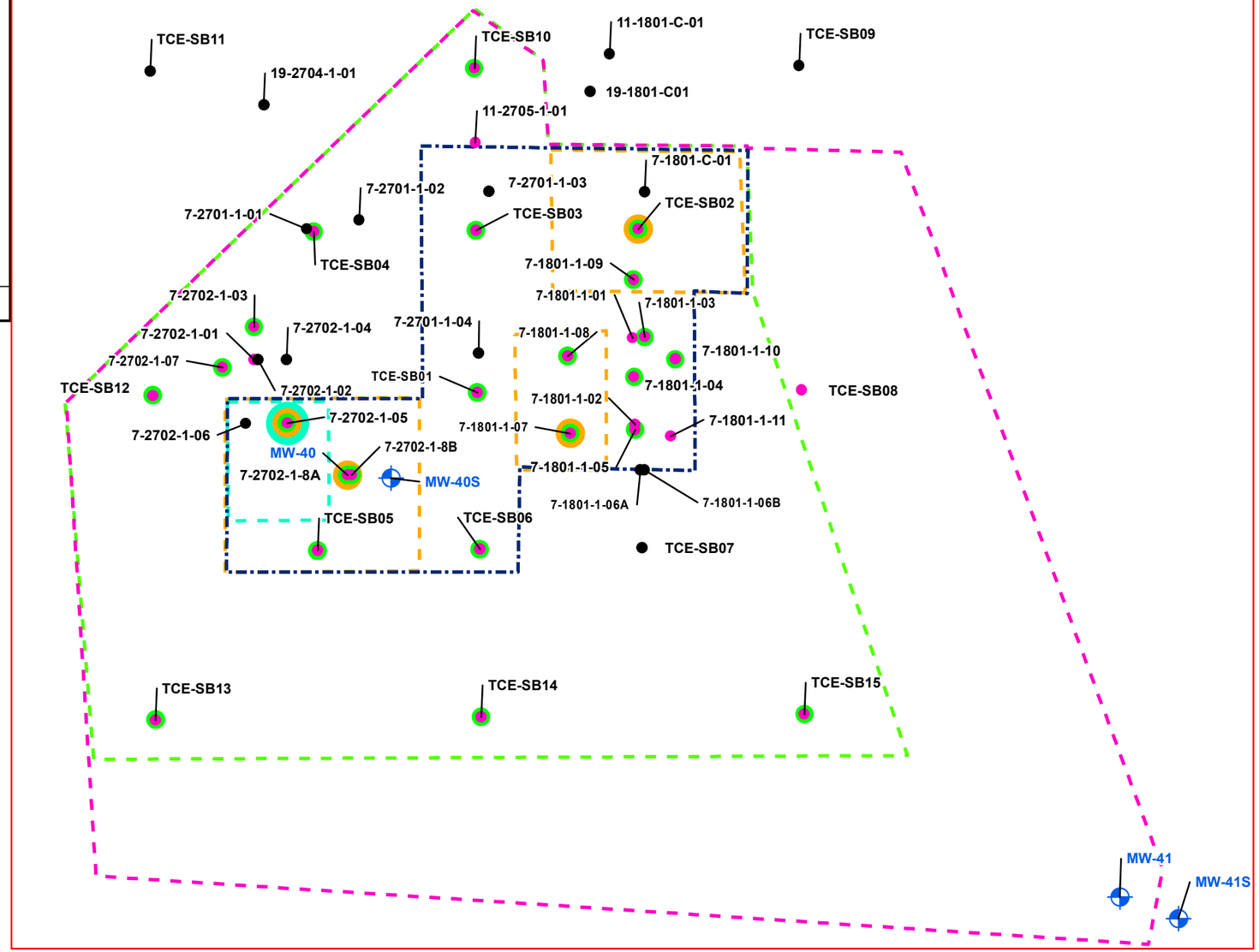
2022 DEEP TILL AQUIFER CARBON TETRACHLORIDE CONCENTRATION ISOPLETHS

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FIGURE 4-5



KEY MAP



Approximate Treatment Areas for Unrestricted and Restricted Use Soil Cleanup Objectives

Former Buildings 18 and 27
Wyeth
Rouses Point, NY

Figure 5-1

N

- Soil Borings with No Concentrations Above Unrestricted Use Standards
- Soil Borings with Concentrations Above Unrestricted Use Standards
- Soil Concentration Above Residential and Restricted Residential Standards
- Soil Concentration Above Restricted Use Commercial Standards
- Soil Concentration Above Restricted Use Industrial Standards
- Monitoring Well

Approximate Treatment Areas

- Area Above Unrestricted Use Standards
- Area Above Residential and Restricted Residential Standards
- Area Above Restricted Use Commercial Standards
- Area Above Residential and Restricted Use Industrial Standards
- Area Above 50 Percent of Restricted Use Commercial Standards

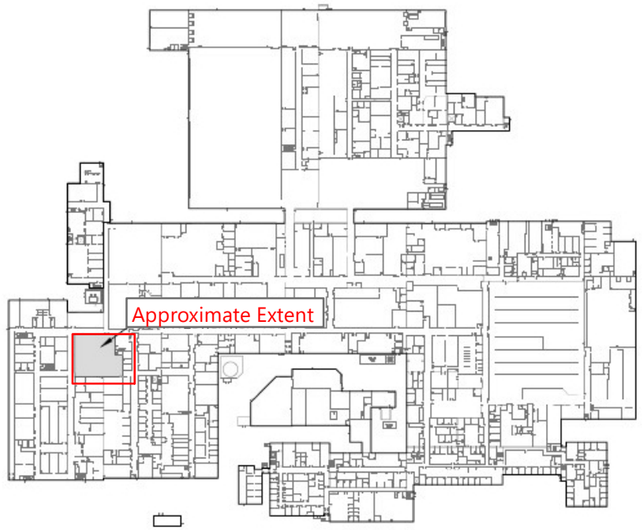
0 10 20 Feet

Woodard & Curran

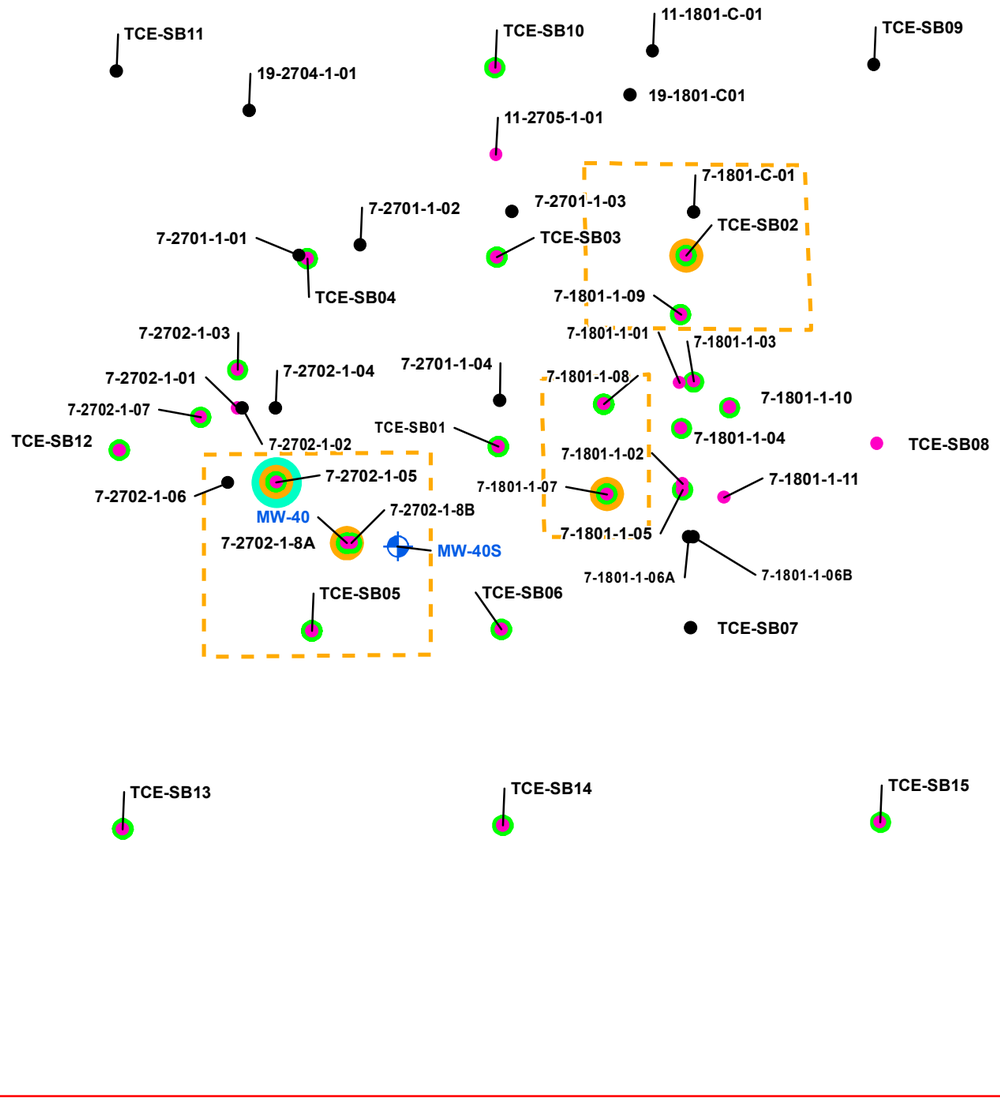
Project #: 206910
Map Created: February 2024

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Figure Exported: 2/12/2024 By: klambek Using: \\woodardcurran.net\shared\Projects\206910 Wyeth Rouses Point - Environmental Site Assess\wip\GIS\Project Files\2021 09 TCE Area FS\Figure 5-1 TreatmAreasCleanupFig.mxd



KEY MAP



Conceptual Plan for Alternative S1 Excavation and Disposal

Former Buildings 18 and 27
Wyeth
Rouses Point, NY

Figure 6-1

N

- Approximate Excavation Area
- Soil Borings with No Concentrations Above Unrestricted Use Standards
- Soil Borings with Concentrations Above Unrestricted Use Standards
- Soil Concentration Above Residential and Restricted Residential Standards
- Soil Concentration Above Restricted Use Commercial Standards
- Soil Concentration Above Restricted Use Industrial Standards
- Monitoring Well

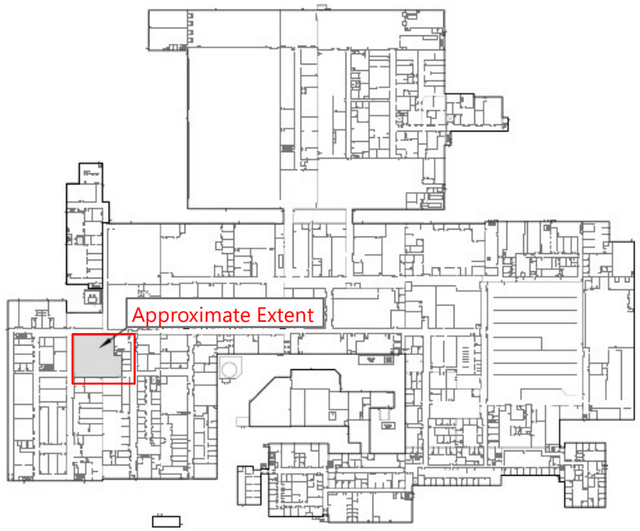
0 10 20 Feet

Woodard & Curran

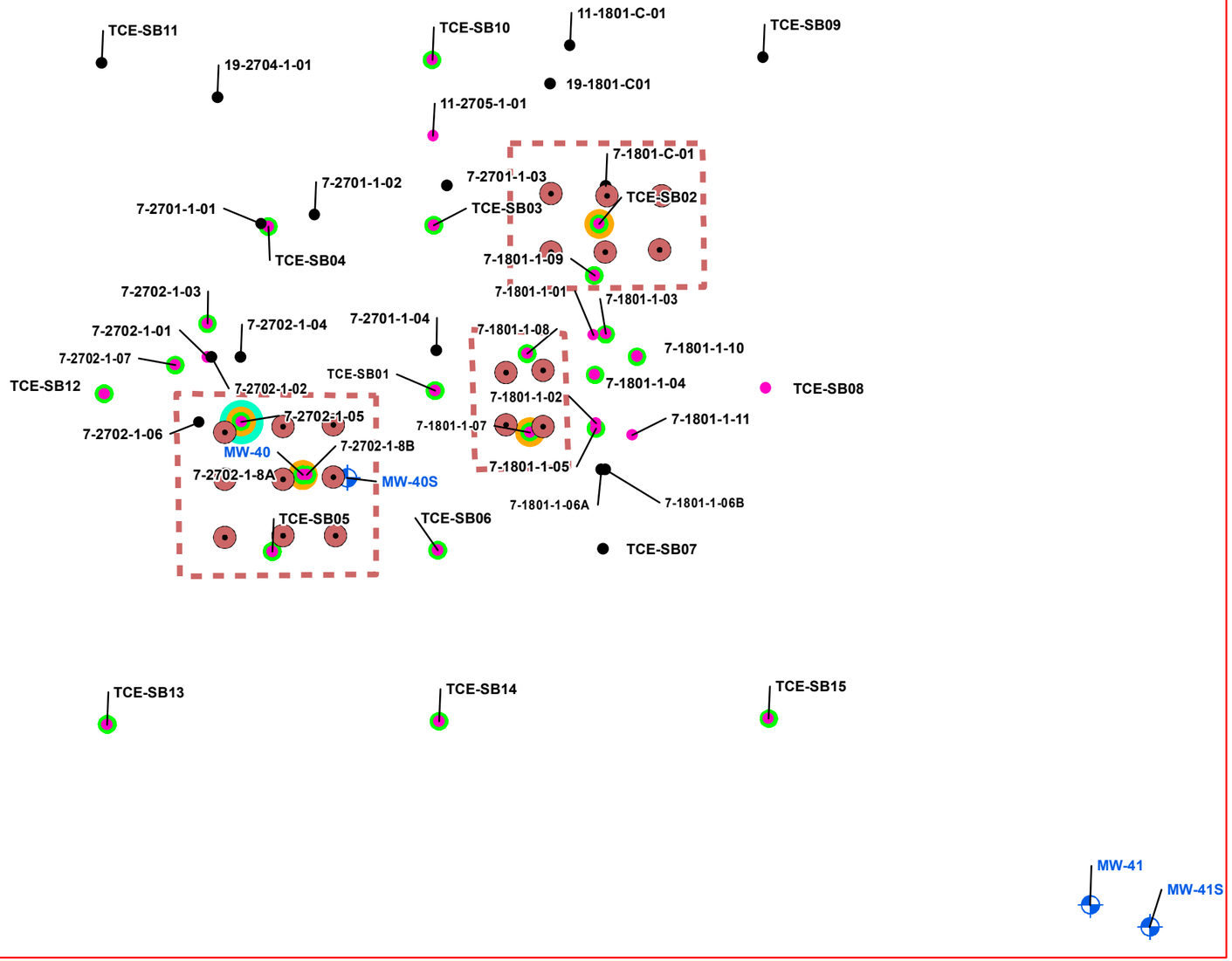
Project #: 206910
Map Created: September 2022

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KEY MAP



Conceptual Plan for Alternative S2 - In Situ Chemical Reduction

Former Buildings 18 and 27
Wyeth
Rouses Point, NY

Figure 6-2

N

- Proposed Injection Location
- Approximate Injection Areas
- Soil Borings with No Concentrations Above Unrestricted Use Standards
- Soil Borings with Concentrations Above Unrestricted Use Standards
- Soil Concentration Above Residential and Restricted Residential Standards
- Soil Concentration Above Restricted Use Commercial Standards
- Soil Concentration Above Restricted Use Industrial Standards
- Monitoring Well

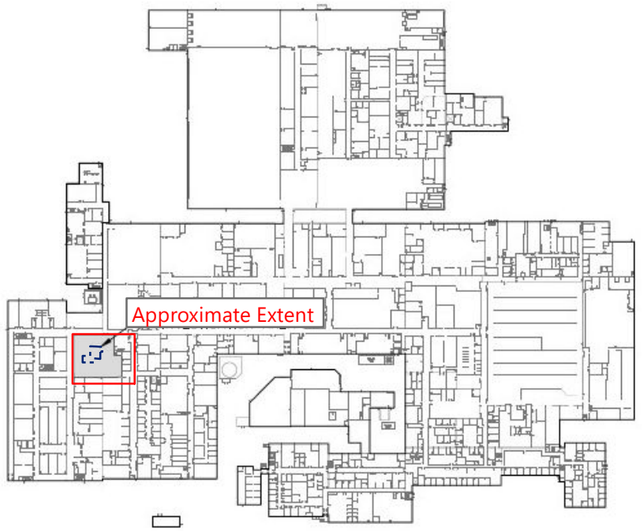
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Woodard & Curran

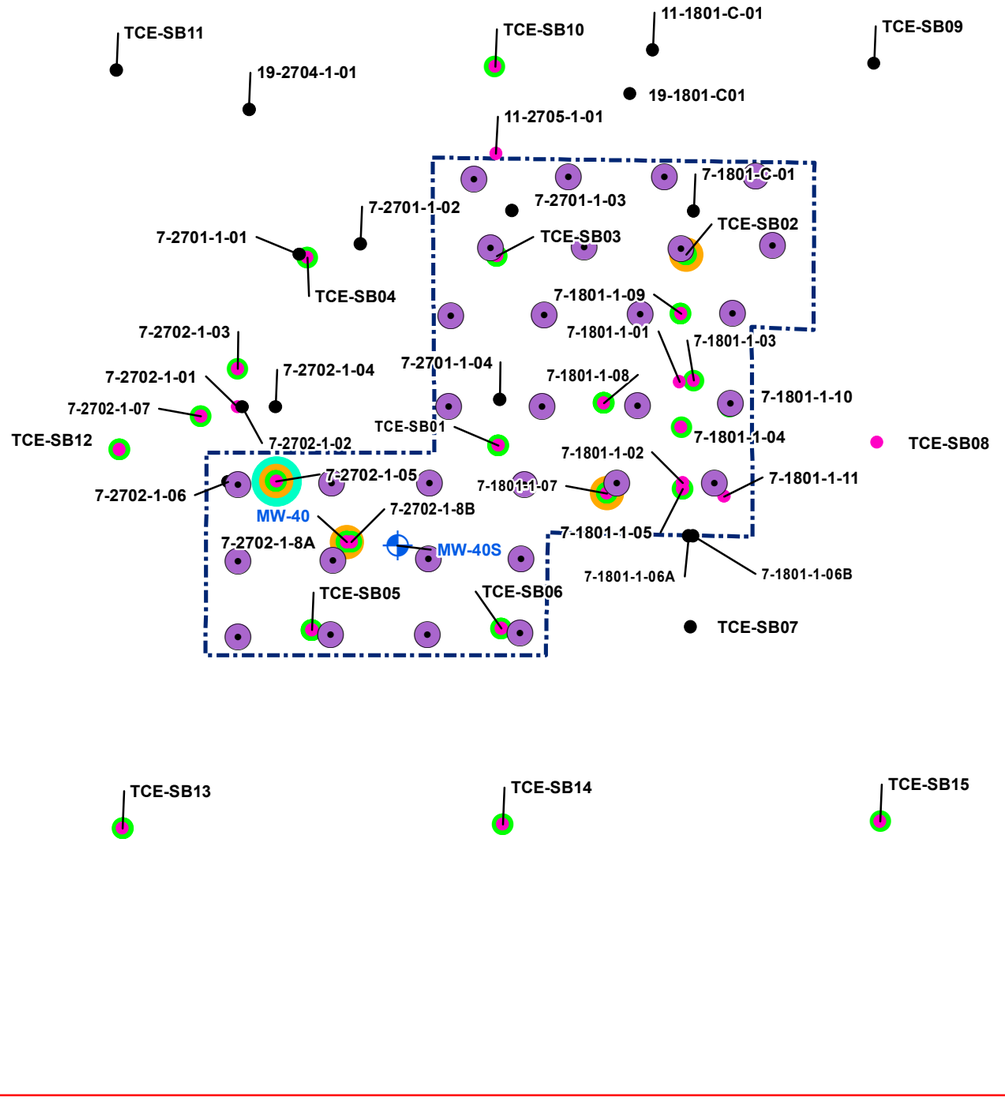
Project #: 206910
Map Created: September 2022

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KEY MAP



Conceptual Plan for Soil Recommended Corrective Measure

Former Buildings 18 and 27
Wyeth
Rouses Point, NY

Figure 8-1

N

- Approximate Treatment Area
- Proposed Injection Location
- Soil Borings with No Concentrations Above Unrestricted Use Standards
- Soil Borings with Concentrations Above Unrestricted Use Standards
- Soil Concentration Above Residential and Restricted Residential Standards
- Soil Concentration Above Restricted Use Commercial Standards
- Soil Concentration Above Restricted Use Industrial Standards
- Monitoring Well

0 10 20 Feet

Woodard & Curran

Project #: 206910
Map Created: February 2024

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Figure Exported: 2/14/2024 By: klambek Using: \\woodardcurran.net\shared\Projects\206910 Wyeth Rouses Point - Environmental Site Assess\wip\GIS\Project Files\2021 09 TCE Area FS\Figure 8-1 Conceptual Plan for Soil.mxd

APPENDIX A: GROUNDWATER FLOW MODEL REPORT

GROUNDWATER MODELING REPORT

Pfizer
Rouses Point, New York

Woodard & Curran
709 Westchester Avenue, Suite L2
White Plains, NY 10604
www.woodardcurran.com

206910
Pfizer, Inc.
April 2012

TABLE OF CONTENTS

SECTION		PAGE NO.
1.	**INTRODUCTION**	**1-1**
1.1	PURPOSE	1-1
1.2	OBJECTIVES	1-1
2.	**SITE HYDROGEOLOGY AND CONCEPTUAL MODEL**	**2-1**
2.1.1	Geology	2-1
2.1.1.1	Regional Geology	2-1
2.1.1.2	Site Geology	2-2
2.1.2	Groundwater Flow	2-3
3.	**GROUNDWATER MODEL DEVELOPMENT**	**3-1**
3.1	NUMERICAL MODEL SELECTION	3-1
3.2	MODEL DESIGN AND DEVELOPMENT	3-1
3.2.1	Model Grid and Layer Construction	3-1
3.2.2	Boundary Conditions	3-2
3.2.3	Model Parameters	3-2
3.2.4	Recharge	3-3
3.2.5	River Nodes	3-3
3.2.6	Storage Properties	3-9
3.3	MODEL CALIBRATION AND VERIFICATION	3-9
3.3.1	Calibration Data Collection Activities	3-10
3.3.2	Model Calibration and Verification	3-10
3.4	SENSITIVITY ANALYSIS	3-14
3.5	PARTICLE TRACKING	3-17
4.	**GROUNDWATER MODEL USE**	**4-1**
4.1	FORWARD PARTICLE TRACKING RESULTS	4-1
4.2	REVERSE PARTICLE TRACKING RESULTS	4-1
5.	**SUMMARY AND CONCLUSIONS**	**5-1**
6.	**REFERENCES**	**6-1**

LIST OF TABLES

TABLE		PAGE NO.
Table 3-1:	Hydraulic Conductivities for Kx and Ky	3-3
Table 3-2:	Calibration Targets	3-10

LIST OF FIGURES

FIGURE		PAGE NO.
Figure 1-1:	Site Location Map	1-2
Figure 2-1:	Surficial Geologic Map	2-4
Figure 2-2:	Bedrock Geologic Map	2-5
Figure 2-3:	Bedrock Contour Map	2-6
Figure 2-4:	Groundwater Potentiometric Map – February 2010	2-7
Figure 2-5:	Groundwater Potentiometric Map – July 2011	2-8
Figure 3-1:	Groundwater Model Space and Boundary Conditions	3-4
Figure 3-2:	Layer 1 Bottom Elevations	3-5
Figure 3-3:	Layer 2 Bottom Elevations	3-6
Figure 3-4:	Layer 3 Bottom Elevations	3-7
Figure 3-5:	Hydraulic Conductivity Values and Distribution for Calibrated Model	3-8
Figure 3-6:	Lake Champlain Elevations 2010 and 2011	3-9
Figure 3-7:	Observed Versus Modeled Heads, Calibration Dataset	3-12
Figure 3-8:	Simulated Groundwater Contours for Steady State Dataset	3-13
Figure 3-9:	Observed Versus Modeled Heads, Verification Dataset	3-14
Figure 3-10:	Simulated Flow Field and Posted Residuals for July 2011 Monitoring Round	3-15
Figure 3-11:	Zone 6 Sensitivity Analysis	3-16
Figure 3-12:	Zone 7 Sensitivity Analysis	3-16
Figure 4-1:	Forward Particle Tracking Results	4-2
Figure 4-2:	Reverse Particle Tracking Results	4-3

1. INTRODUCTION

This groundwater modeling report has been prepared for the Pfizer facility located at 64 Maple Street in Rouses Point, New York (the "Site"). The location of the Site is shown on **Figure 1-1**. This report is presented in order to better understand the movement of groundwater and to provide a means to evaluate potential remedial alternatives. This report is organized as follows:

- Section 1: Introduction including purpose and objectives for the groundwater modeling effort.
- Section 2: A discussion of the Site hydrogeology and conceptual model for the Site.
- Section 3: Description of the groundwater model, its construction, calibration, and verification.
- Section 4: Description of model particle tracking completed using the calibrated model.
- Section 5: Summary and conclusions of the groundwater model.

1.1 PURPOSE

The purpose of this report is to present the initial site conceptual model for the Site and to provide an update on the progress of the numerical groundwater flow modeling effort for the Site. This update provides a current status of the calibration progress for the model and the sensitivity analyses conducted to date.

1.2 OBJECTIVES

The primary objectives of the groundwater modeling effort for the Site are as follows:

- Develop insights into the flow of water through the complex geologic setting at the Site;
- Understand the interaction of groundwater and surface water at the Site;
- Use particle tracking to determine travel paths at various locations throughout the site and to evaluate the adequacy of the monitoring network;
- Evaluate the effectiveness of the current monitoring well network; and
- Use the results of the model to aid in evaluation of potential remedial alternatives.

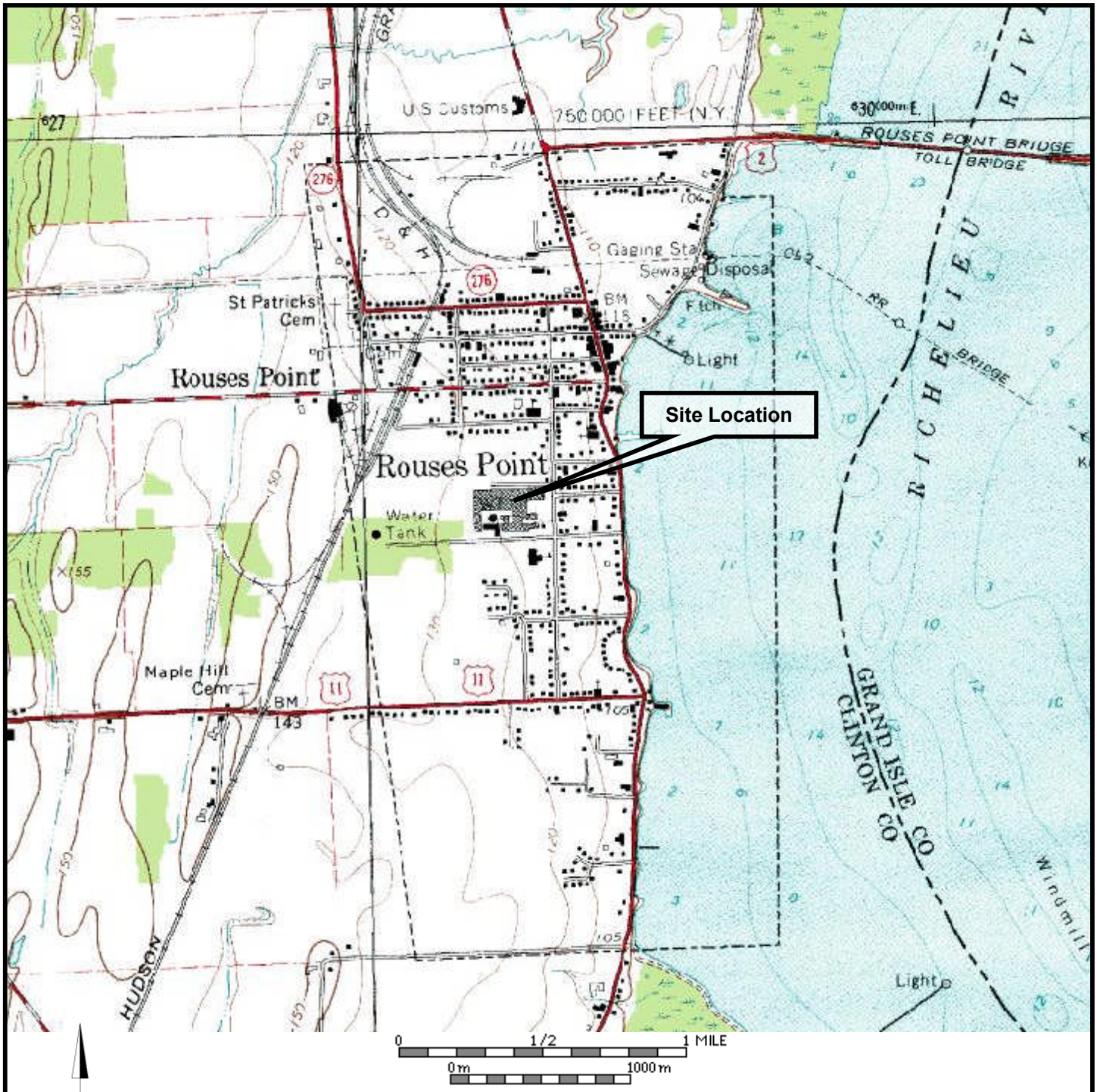


Figure 1-1 SITE LOCATION MAP

Pfizer, Inc.

Rouses Point, NY

WOODARD &CURRAN

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2. SITE HYDROGEOLOGY AND CONCEPTUAL MODEL

The geology and hydrogeology of the Site and general area is discussed in this section. A site conceptual model is presented that will form the basis for the development of the numerical groundwater flow model. The conceptual model of the flow system is generally characterized based on the geology, groundwater flow, aquifer parameters (hydraulic conductivity, storage, thickness, etc.), the interaction of groundwater with surface water, and the boundaries of the flow domain. A discussion of the Site geology and groundwater flow relevant to the groundwater model is summarized below.

2.1.1 Geology

The discussion of the geology provided below is divided into an overview of the regional and Site specific geology. The Site specific geology is presented as an overview but is discussed in greater detail in the following documents:

- Sampling and Analysis Report (Woodard & Curran, 2007)
- Supplemental Sampling and Analysis Report (Woodard & Curran, 2010)
- Corrective Measures Study (CMS) Progress Reports (Woodard & Curran, 2011).

2.1.1.1 Regional Geology

Rouses Point is situated in the northern Champlain valley. Generally, the valley exhibits little relief located on glacial lake and marine sediments (Fisher, 1968). Other materials of glacial origin are discussed below. These glacial deposits are located above bedrock materials generally Cambrian and Ordovician in Age (Fisher, 1968).

Lake Champlain drains to the north through the Richelieu River located eastward from the Site. The water in the lake is at an approximate mean elevation of 95 feet above mean sea level. The lake is relatively shallow in the vicinity of the Site.

The geology of the area consists of surficial geologic materials of glacial, glacial lake, and marine origin as depicted on **Figure 2-1**. The surficial geologic units in the area consist of till, marine and/or lacustrine silt and clay deposits, and swamp deposits. These deposits were laid down as a result of the sequence of glaciation and deglaciation of the area (Denny, 1974). The most prevalent surficial unit in the area is the glacial till which is described as poorly sorted, sand rich, with variable content of boulders to silt sized particles generally deposited beneath the glacial ice. This is the unit predominantly found beneath the Site. The marine and/or silt and clay deposits are described as generally laminated to massive silt and clay which may include fossil shells is generally of low permeability. Earlier maps depict a lobe of the silt and clay extending southwestward toward the area of the Site (Denny, 1974). The swamp deposits are generally located well south of the Site and are described as peat and muck with organic silt and sand in poorly drained areas.

The bedrock geology in the area shown on **Figure 2-2** is part of the Middlebury Synclinorium. The geology within the Middlebury Synclorium consists of metamorphosed sandstone, dolomite, limestone, and shales. The oldest formation outcropping in the area is the Potsdam Sandstone of Cambrian age located to the west of the Site. The Beekmantown Group and Chazyan carbonates, generally limestones and dolomites, are the next oldest rocks also located to the west and southwest of the Site and are of Ordovician to Cambrian age. The Theresa Formation is part of the Beekmantown Group and is exposed to

the west of the Site and is described as a sandy dolomite with interbedded weak sandstones and is of late Cambrian Age. The Site is underlain by the Stony Point Shale which is a black shale formation meaning it has a relatively high organic content and is locally sulfide rich. The Stony Point Shale is also of Ordovician age.

2.1.1.2 Site Geology

The topographic high point on-site occurs along the railroad tracks on the western Site boundary at an elevation of approximately 140 feet above mean sea level (msl). The Site is generally flat, with a gentle drop in elevation to the east and southeast to a low point of roughly 118 feet above msl in the southeast corner of the Site.

The Site soils are mapped by the United States Department of Agriculture (USDA) Soil Conservation Service as Malone gravelly loam with 0 to 3 percent slopes. Malone gravelly loam is described by the USDA as a very deep, somewhat poorly drained, loamy soil found in high lime glacial till. Permeability is moderate in the surface soil, and moderately slow to slow in the subsoil.

The surficial geology at the Site consists primarily of glacial till. Till commonly consists of poorly sorted, generally non-stratified mixtures of grain-sizes ranging from clay to boulders. Based on Site observations from the soil boring and test pit excavation logs, it appears that the generalized soil lithology for the shallow, unconsolidated overburden underlying the Site includes three primary stratigraphic units as follows:

- Upper till unit – consisting of a brown to gray, medium dense to dense, fine to coarse sand with little silt and varying amounts of clay, gravel, cobbles, and boulders.
- Lower till unit - consists of a dense to very dense sand and silt with lower amounts of clay and a higher percentage of cobbles and boulders.
- Undifferentiated silt and clay – consists of a stiff gray to brown clay and silt with trace to some fine to medium gravel. This layer is laterally discontinuous and fine sand is found in the vicinity of MW-7, MW-10 and MW-22.

Other ancillary units encountered include topsoil and fill. The topsoil generally is of minimal thickness <1 foot located in areas that are typically undisturbed. The fill is generally sand and gravel and varies in thickness from 0 to 5 feet where present. The fill is found in areas where buildings and roads have been constructed. In addition, utility corridors contain various amounts of fill or excavated and replaced native materials. The utility corridors have been observed to generally contain less dense and more permeable materials. The utility corridors may serve as enhanced pathways for contaminant migration.

The undifferentiated silt and clay deposit may be related to the undifferentiated marine and glacial lake sediments depicted on the regional surficial geologic map of the area.

Along the southern portion of the Site, the upper till unit was generally first encountered near the ground surface and ranges in thickness from approximately 18 feet at the western end of the Site and thins to a thickness of approximately 15 feet at the eastern property boundary of the Site, and further thins off-site to a thickness of approximately 10 feet at MW-17 in Academy Street. Along the northern portion of the Site, the upper till unit was generally first encountered near the ground surface and ranges in thickness from approximately 18 feet at the western end of the Site and thins to a thickness of between 7 and 14 feet at the eastern property boundary, and is found at a thickness of 14 feet off-site at MW-16 in Pearl Street.

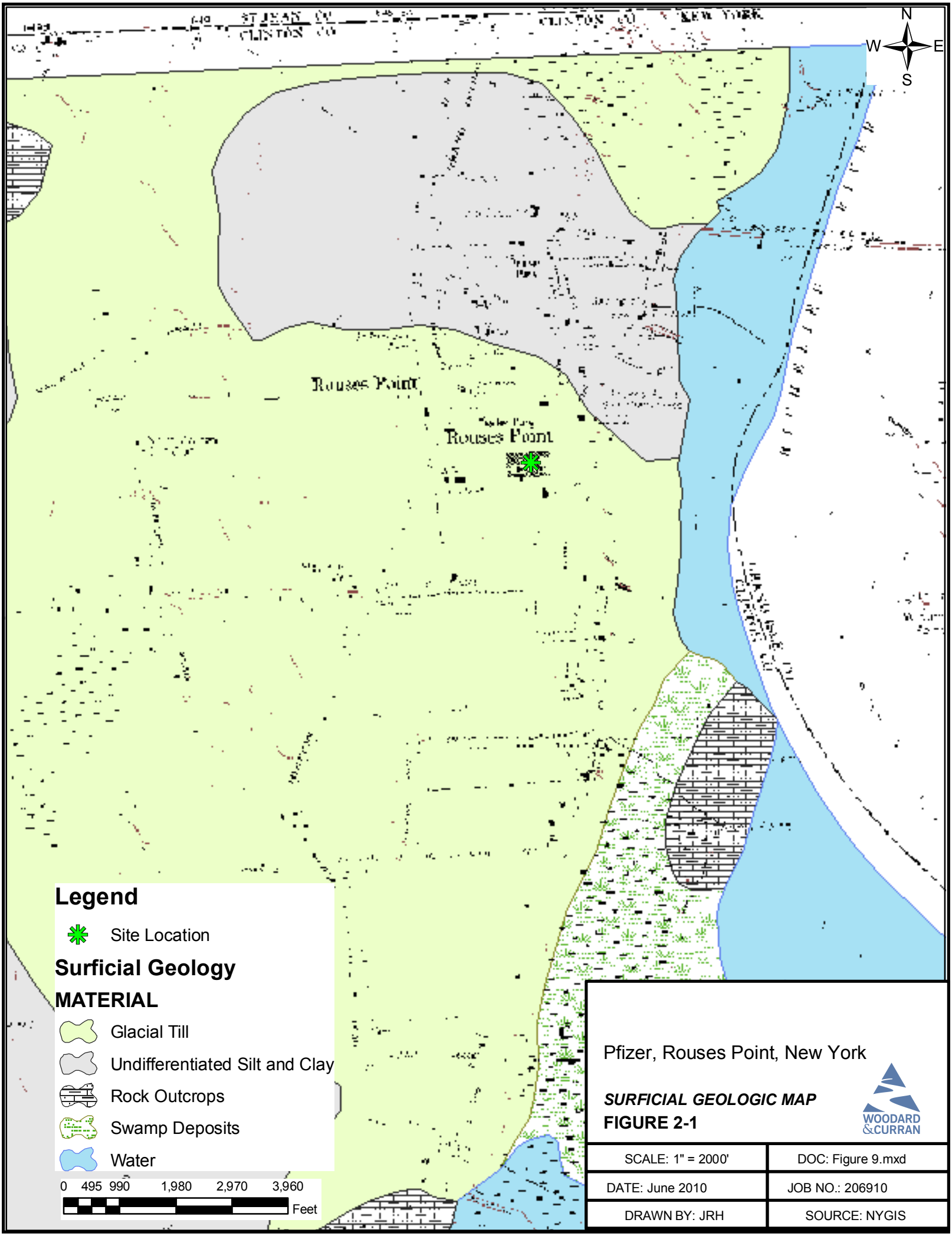
In general, the lower underlying till unit has thinning characteristics moving from west to east along the southern portion of the Site. At MW-17 in Academy Street, the lower till unit is approximately 2 feet thick and was confirmed to be underlain by bedrock. The lower till was approximately 4 feet thick at MW-22 which is the easternmost boring at the Site. At the western end of the Site, the lower till unit is approximately 17 feet thick at MW-14 and was confirmed to be underlain by bedrock. Several 5-foot rock core runs were completed at each monitoring well location in the lower till unit, which indicated the presence of competent bedrock.

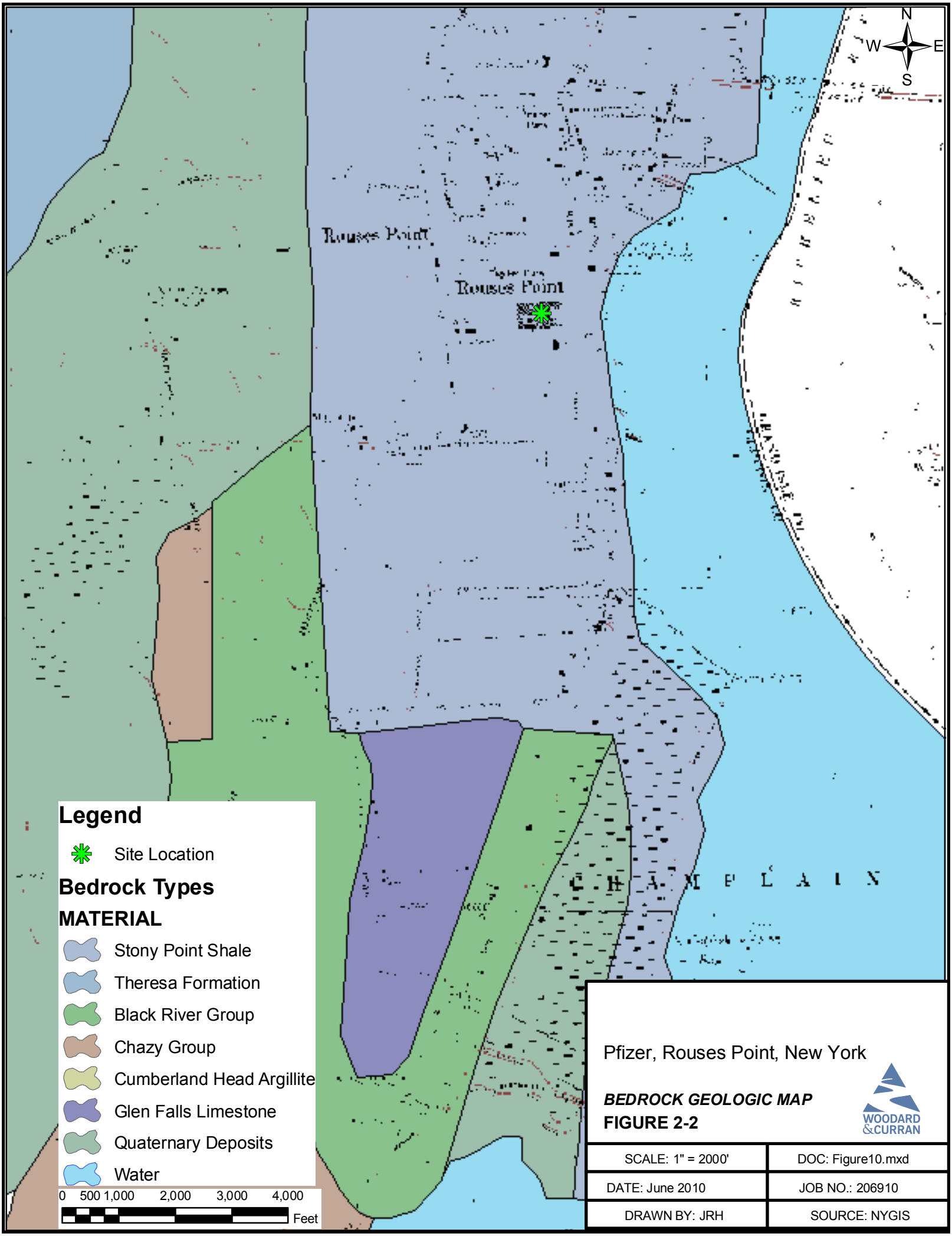
Site bedrock is mapped as the Stony Point Shale, a black, fissile, carbonaceous, calcareous shale. The depth to bedrock ranges from approximately 35 feet below grade on the southwest portion of the Site to between 18 and 20 feet below grade in the northeastern portion of the Site, and 24 feet below grade in the southeast corner of the Site. The bedrock elevation appears to rise moving off-site to the southeast, with bedrock occurring at 12 feet below grade at MW-17 in Academy Street. A map depicting the bedrock topography in terms of elevation relative to mean sea level is provided as **Figure 2-3**. Bedrock geology was confirmed by collecting rock cores from the monitoring well locations. Competent rock cores were obtained from each of the monitoring well locations. These rock cores were generally described as hard, slightly weathered, fractured black, calcareous shale.

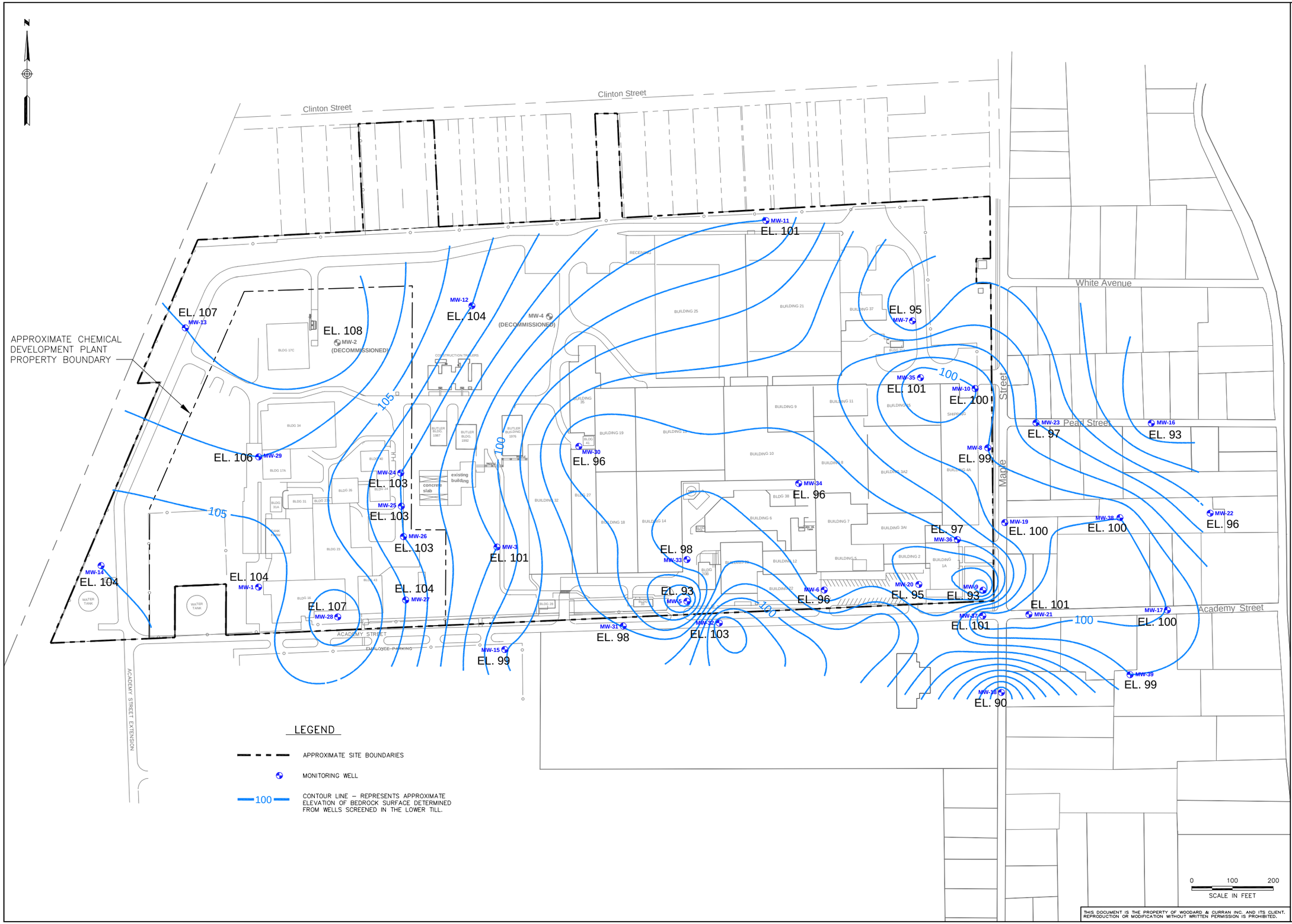
2.1.2 Groundwater Flow

The map provided as **Figure 2-4** depicts groundwater table conditions in February of 2010. This was the most complete round of data available for contouring groundwater flow prior to undertaking the groundwater modeling efforts. Groundwater flow is generally from west to east toward Lake Champlain. Based on observations of the upper till made during drilling and through observations of temporary and permanent wells constructed in the upper till, water movement in this unit is slow and or non-existent. Based on the observations made during drilling of the bedrock, the bedrock at the Site is competent and does not readily transmit water. The lower till appears to be the primary unit through which groundwater flow occurs. Groundwater was also observed in utility corridors and excavations containing non-native fill. A more recent representation of groundwater flow is presented in **Figure 2-5** depicting the groundwater flow in July of 2011. The flow directions are consistent with the flow observed in February 2010.

Recharge to the groundwater flow system is likely to originate primarily in unpaved portions of the area upgradient of the facility and in some of the drainage swales on and around the facility. Groundwater discharges to Lake Champlain. There are several closed contour ditches on the Site which likely serve as areas of enhanced recharge to the flow system during wet times of the year. Additionally, a small surface pond is located upgradient of the Site on the nearby property to the southwest. This pond appears to be clay-lined, however, it was included in the model for the Site.


N
W
E
S
Rouses Point
Rouses Point
Legend
Site Location
Surficial Geology
MATERIAL
Glacial Till
Undifferentiated Silt and Clay
Rock Outcrops
Swamp Deposits
Water
0 495 990 1,980 2,970 3,960
Feet
Pfizer, Rouses Point, New York
SURFICIAL GEOLOGIC MAP
FIGURE 2-1
WOODARD &CURRAN
SCALE: 1" = 2000'
DOC: Figure 9.mxd
DATE: June 2010
JOB NO.: 206910
DRAWN BY: JRH
SOURCE: NYGIS


N
W
E
S
Rouses Point
Rouses Point
C H A M P L A I N
Legend
Site Location
Bedrock Types
MATERIAL
Stony Point Shale
Theresa Formation
Black River Group
Chazy Group
Cumberland Head Argillite
Glen Falls Limestone
Quaternary Deposits
Water
0 500 1,000 2,000 3,000 4,000
Feet
Pfizer, Rouses Point, New York
BEDROCK GEOLOGIC MAP
FIGURE 2-2
WOODARD &CURRAN
SCALE: 1" = 2000'
DOC: Figure10.mxd
DATE: June 2010
JOB NO.: 206910
DRAWN BY: JRH
SOURCE: NYGIS



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WHITE PLAINS, NEW YORK 10604
914.448.2266 | www.woodardcurran.com
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WOODARD & CURRAN

REV	DESCRIPTION	DATE
	DESIGNED BY: JE CHECKED BY: DW	
	DRAWN BY: SH 206910_fig-2-3 BR Cont ver2.dwg	

BEDROCK CONTOUR MAP

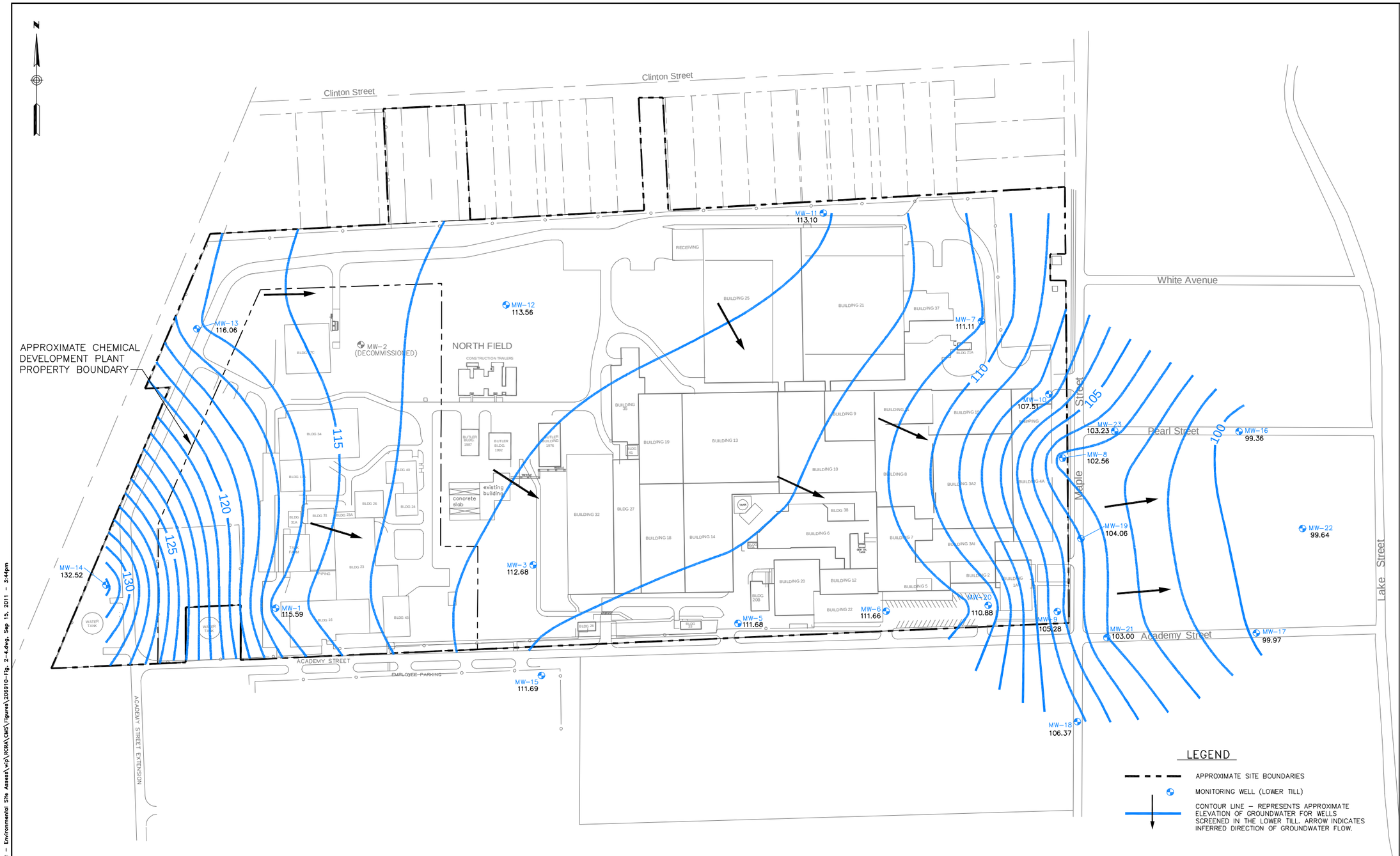
PFIZER, INC.
ROUSES POINT, NEW YORK

CORRECTIVE MEASURES STUDY

JOB NO.: 206910
DATE: SEPTEMBER 2011
SCALE: AS NOTED
SHEET: OF

FIGURE 2-3

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LEGEND

- APPROXIMATE SITE BOUNDARIES
- MONITORING WELL (LOWER TILL)
- CONTOUR LINE – REPRESENTS APPROXIMATE ELEVATION OF GROUNDWATER FOR WELLS SCREENED IN THE LOWER TILL. ARROW INDICATES INFERRED DIRECTION OF GROUNDWATER FLOW.

NOTES:

1. BASEMAP DRAWN BY DEAN H. LASHWAY, L.S., P.C. (Map No. 06-096GP).
2. WATER LEVEL MEASUREMENTS COLLECTED ON 2/22/10.

0 100 200
SCALE IN FEET

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GROUNDWATER CONTOUR MAP FEBRUARY 22, 2010

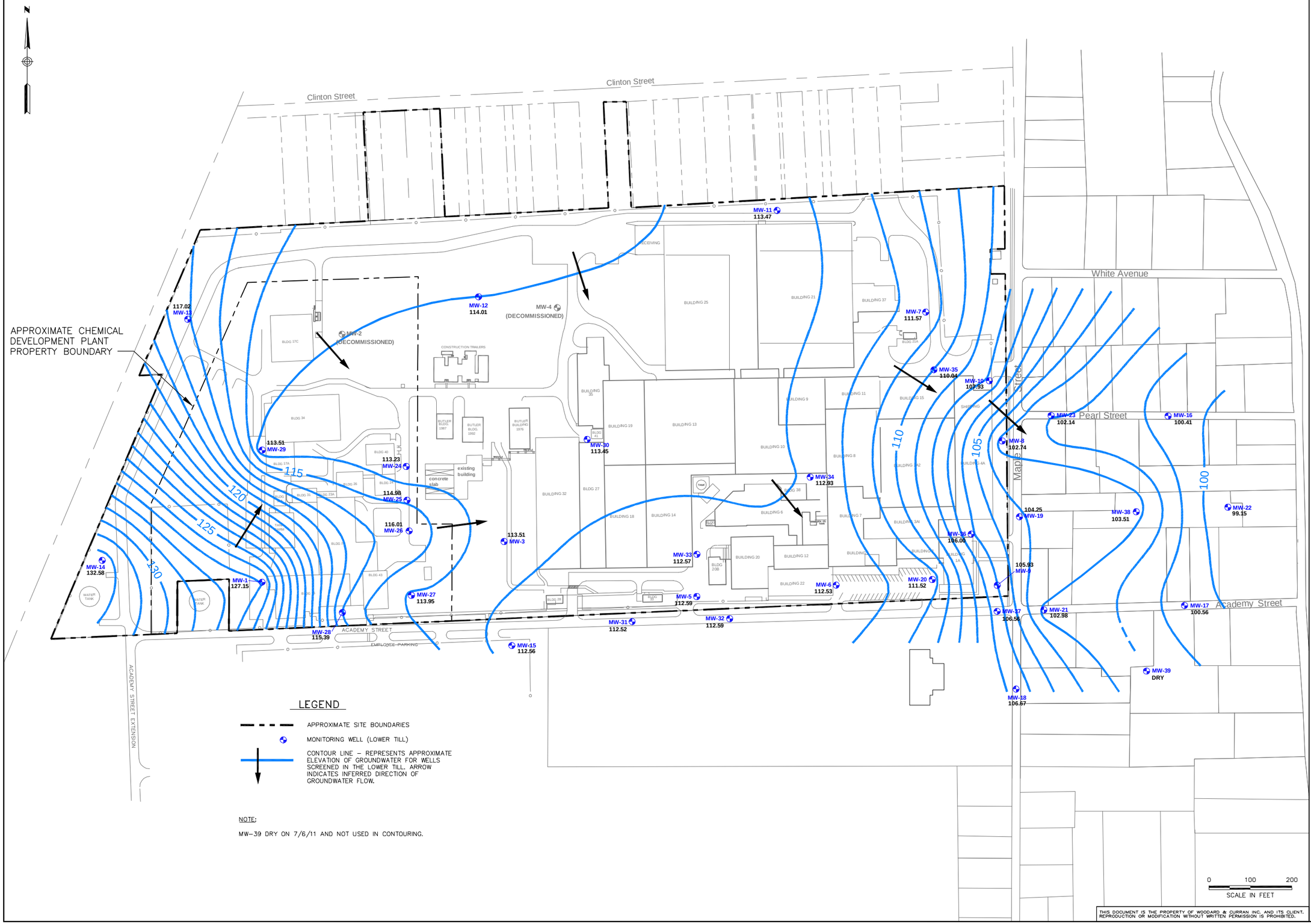
WYETH PHARMACEUTICALS, INC.
ROUSES POINT, NEW YORK

SUPPLEMENTAL SAMPLING AND ANALYSIS REPORT

JOB NO.: 206910
DATE: JUNE 2010
SCALE: AS NOTED
SHEET: OF

FIGURE 2-4

\\Cheshire\projects\206910 Wyeth Rouses Point - Environmental Site Assess\wip\RCRA\CMS\figures\206910-Fig. 2-4.dwg, Sep 15, 2011 - 3:44pm



LEGEND

- APPROXIMATE SITE BOUNDARIES
- MONITORING WELL (LOWER TILL)
- CONTOUR LINE – REPRESENTS APPROXIMATE ELEVATION OF GROUNDWATER FOR WELLS SCREENED IN THE LOWER TILL. ARROW INDICATES INFERRED DIRECTION OF GROUNDWATER FLOW.

NOTE:

MW–39 DRY ON 7/6/11 AND NOT USED IN CONTOURING.

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DESIGNED BY:	JE	DW
DRAWN BY:	SH	CHECKED BY:

206910_Fig. 2 GW Cont 7.11.dwg

GROUNDWATER CONTOURS – LOWER TILL JULY 06, 2011

PFIZER, INC.
ROUSES POINT, NEW YORK

CORRECTIVE MEASURES STUDY

JOB NO.: 206910
DATE: AUGUST 2011
SCALE: AS NOTED
SHEET: OF

FIGURE 2-5

3. GROUNDWATER MODEL DEVELOPMENT

The groundwater model for the Site was developed as discussed in this section of the report. This section also provides a discussion of the calibration of the model.

3.1 NUMERICAL MODEL SELECTION

MODFLOW was used for the groundwater flow simulation. Documentation of MODFLOW is described by McDonald and Harbaugh (1988). MODFLOW is an industry standard for modeling the flow of groundwater through porous media.

The code or computer program solves a set of algebraic equations generated by approximating the partial differential equations (governing equation, boundary conditions, and initial conditions) that form the mathematical model. The finite difference technique transforms the mathematical model into a matrix equation that can be solved efficiently by a computer. Finite difference methods compute the potentiometric head at the center of each grid block (node). The location of each node is identified in MODFLOW with i, j, k notation, where i represents the column, j the row, and k, the layer. The equation for the head at node i, j, k includes the head at the node itself as well as the heads at the six surrounding nodes.

The modeling approach will be to develop the model to be a reasonable representation of the major physical and hydraulic features of the flow system based on existing hydrogeologic data from reports and field measurements.

3.2 MODEL DESIGN AND DEVELOPMENT

The conceptual model was developed based on the results of the studies already completed at the Site and will be incorporated into a numerical model of groundwater flow at the Site. The development of the numerical model includes the design and assignment of physical parameters for the following:

- Model grid;
- Layer construction;
- Boundary conditions;
- Recharge;
- River nodes; and
- Storage coefficients.

3.2.1 Model Grid and Layer Construction

The finite-difference grid in the model is defined by a set of rows in the y direction (following the Cartesian coordinate system), a set of columns in the x direction, and 3 layers in the z direction. The model boundaries and grid settings are provided in Figure 3-1. The model domain is approximately 5,600 feet in the x direction and 2,200 feet in the y direction.

The area between adjacent rows and columns is defined as a cell. The initial cell size is anticipated to be 50 by 50 feet in the x and y directions. If necessary, the grid will be refined in the area of the Site

monitoring wells to adequately represent the changes in layers observed and to refine the representation of the flow field in this area. It is anticipated that the grid will be rotated slightly to ensure that the x-direction of the grid is aligned parallel to the principal groundwater flow direction that is toward Lake Champlain (the Richelieu River). Nodes where potentiometric head is to be calculated are centered in each cell (the block centered formulation in MODFLOW).

Given the geology of the Rouses Point Area, simplifying assumptions were necessary to model groundwater flow at the Site. The geology was simplified to include three hydrostratigraphic units with lateral variations in each. The upper layer (Layer 1) of the model represents the upper till unit. The middle layer (Layer 2) of the model represents the lower till, which typically overlies bedrock in the region. The lowest layer is the upper portion of the bedrock. This represents the limited portion of the upper bedrock that is weathered.

Layers were designed based on borehole data for the Site. Elevations of the respective hydrostratigraphic units interpreted from the boreholes were subjected to a geostatistical analysis and subsequent kriging to produce a surface for Layers 1 and 2 in the model. The surfaces for each layer were imported into the model domain and unit thicknesses were verified against borehole data. The third layer was created by subtracting 10 feet from the elevation of the bottom of Layer 2.

The bottom elevations for Layers 1 and 2 are provided in **Figures 3-2** and **Figure 3-3** respectively. Layer 3 bottom elevations are depicted in **Figure 3-4**.

3.2.2 Boundary Conditions

The boundary conditions for the model are based on observations made in the field, topographic maps, and surface geological mapping for the Site. No-flow, constant head, and river boundaries will be used in the model to represent conditions at the Site. The types, numbers, and locations of the boundary conditions are depicted in **Figure 3-1**. A discussion of the boundary conditions is presented below.

The no-flow boundaries depicted in **Figure 3-1** correspond to areas which have parallel flow lines or represent interpreted groundwater divides based on surface topography and hydrology.

The low lying till ridge to the west of the Site is interpreted as a groundwater divide and therefore a no-flow boundary based on the topography and the presence of small stream located just to the west of the hill crest. The northern and southern boundaries are also interpreted as no flow boundary as it approximately parallels mapped groundwater flow direction at the Site. Lake Champlain, which transitions to the Richelieu River directly east of the Site as depicted on the USGS topographic map provided as **Figure 1-1**, is modeled using the river boundary package in MODFLOW in order to have a boundary condition that will allow water to flow out of the model through this boundary. The small upgradient pond will be included as a small constant head boundary.

3.2.3 Model Parameters

Hydraulic conductivities were assigned as zones in the software based on field observations, borehole log interpretations, slug test data results, and surficial mapping. Horizontal (Kh) and vertical (Kv) hydraulic conductivities have been assigned with differing values to mirror formation anisotropy. Horizontal hydraulic conductivities in model have been kept equal in both the x and y directions.

A listing of the types of deposits used in the model and initial hydraulic conductivity ranges is provided in **Table 3-1**. The table contains horizontal hydraulic conductivities in the x (Kx) and y (Ky) directions based on observed ranges presented previously in the Supplemental SAR (Woodard & Curran, 2010). Additional hydraulic conductivity testing was completed during the CMS study and are also included within the ranges presented below. For initial calibration purposes it was assumed that the Kz value is an order of magnitude lower than the Kx and Ky values. The values were adjusted within these ranges during calibration to achieve the best fit with the observed data. Final calibration values and zone distribution for hydraulic conductivity are presented in **Figure 3-5**. In the groundwater modeling user interface software, hydraulic conductivities are represented by zones. The zones generally correspond to areas of similar lithologies and represent areas of equal hydraulic conductivity.

Table 3-1: Hydraulic Conductivities for Kx and Ky (in feet per day)

Kx-Ky Low Value	Kx-Ky High Value	Description
50	640	Fill deposits (including utility corridors)
0.1	60	Upper glacial till deposits
1	120	Lower glacial till overlying bedrock

3.2.4 Recharge

The MODFLOW recharge package was used to simulate aerial recharge from precipitation to the active nodes in the top layer of the model. The aerial recharge applied was initially set at 5% of the average annual precipitation. Experience at other dense-till sites has shown this percentage to be appropriate for initial modeling efforts. This is an appropriate estimate for this area given the low topographic relief, the nature of the surficial materials, and the relative density of development in the area modeled. Recharge was not applied to wetland or river boundary condition areas as these are assumed to be areas of groundwater discharge.

The recharge was increased slightly over the drainage swales observed on and adjacent to the Site as these swales are believed to serve as areas of enhanced recharge due to their relatively lower elevations and closed nature of their contours.

3.2.5 River Nodes

Lake Champlain (Richelieu River) is modeled using the river package in MODFLOW. The river package requires the input of the stage, vertical hydraulic conductivity of the riverbed, and the elevation of the riverbed for each cell of the model occupied by the river. The stage elevation was assigned based on topographic maps of the area and pertinent data regarding Lake Champlain levels. Two historic lake level gauges were used to estimate stage of the lake near the Site. A graphic depicting these stages is shown in **Figure 3-6**. The value used for the Lake Champlain Stage in the steady-state calibration of the model was 96.5 feet.

NOT TO SCALE

Legend

Site Wells	Boundaries	
Screen Depth	Type	
Deep	Active	Model Limits
Shallow	Noflow	
	River	

300 150 0 300 Feet

Figure 3-1: Groundwater Model Grid and Boundary Conditions
Pfizer, Inc.
Rouses Point, New York

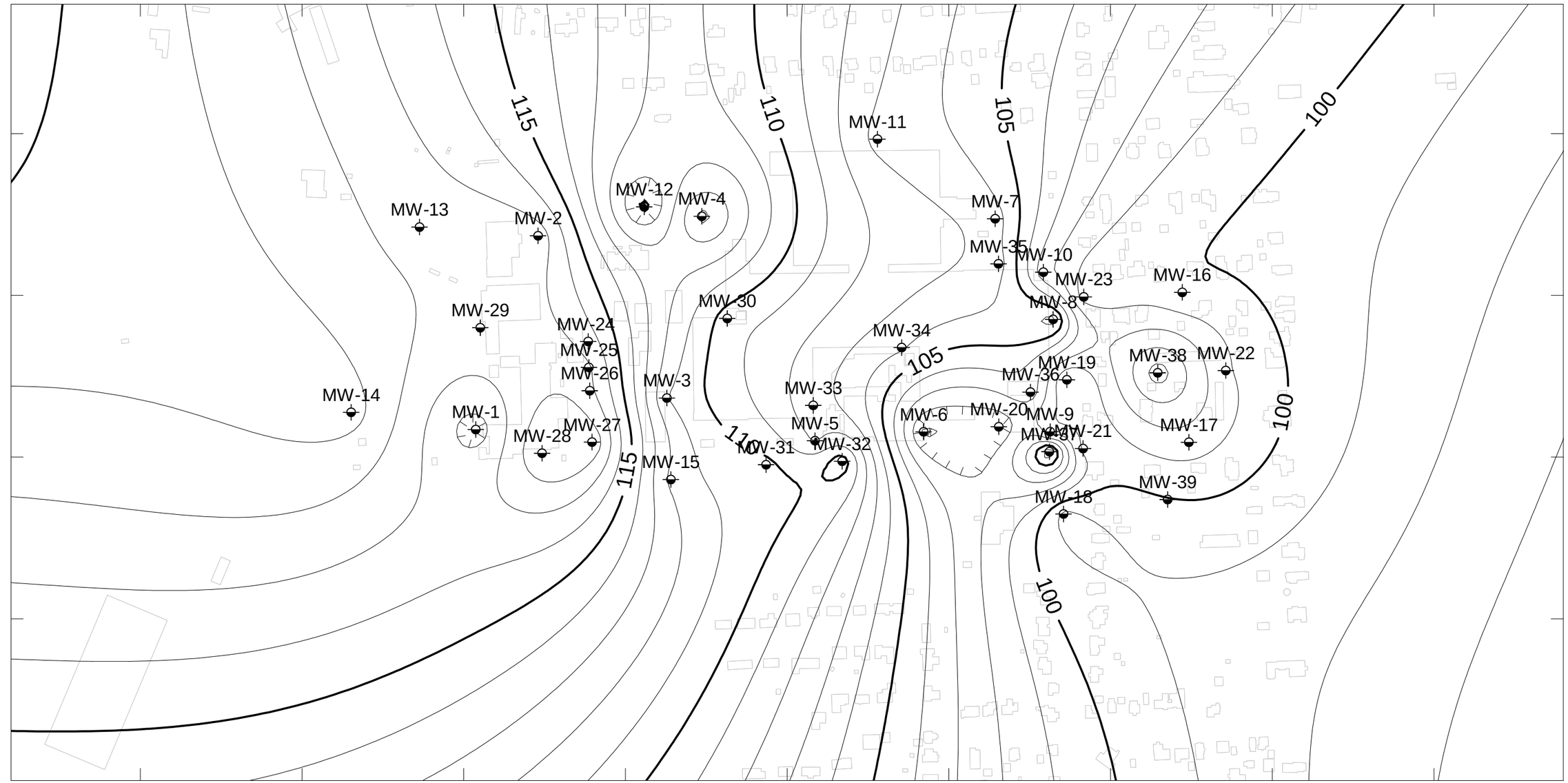


Figure 3-2: Bottom Elevation - Model Layer 1

Pfizer, Inc.
Rouses Point, New York

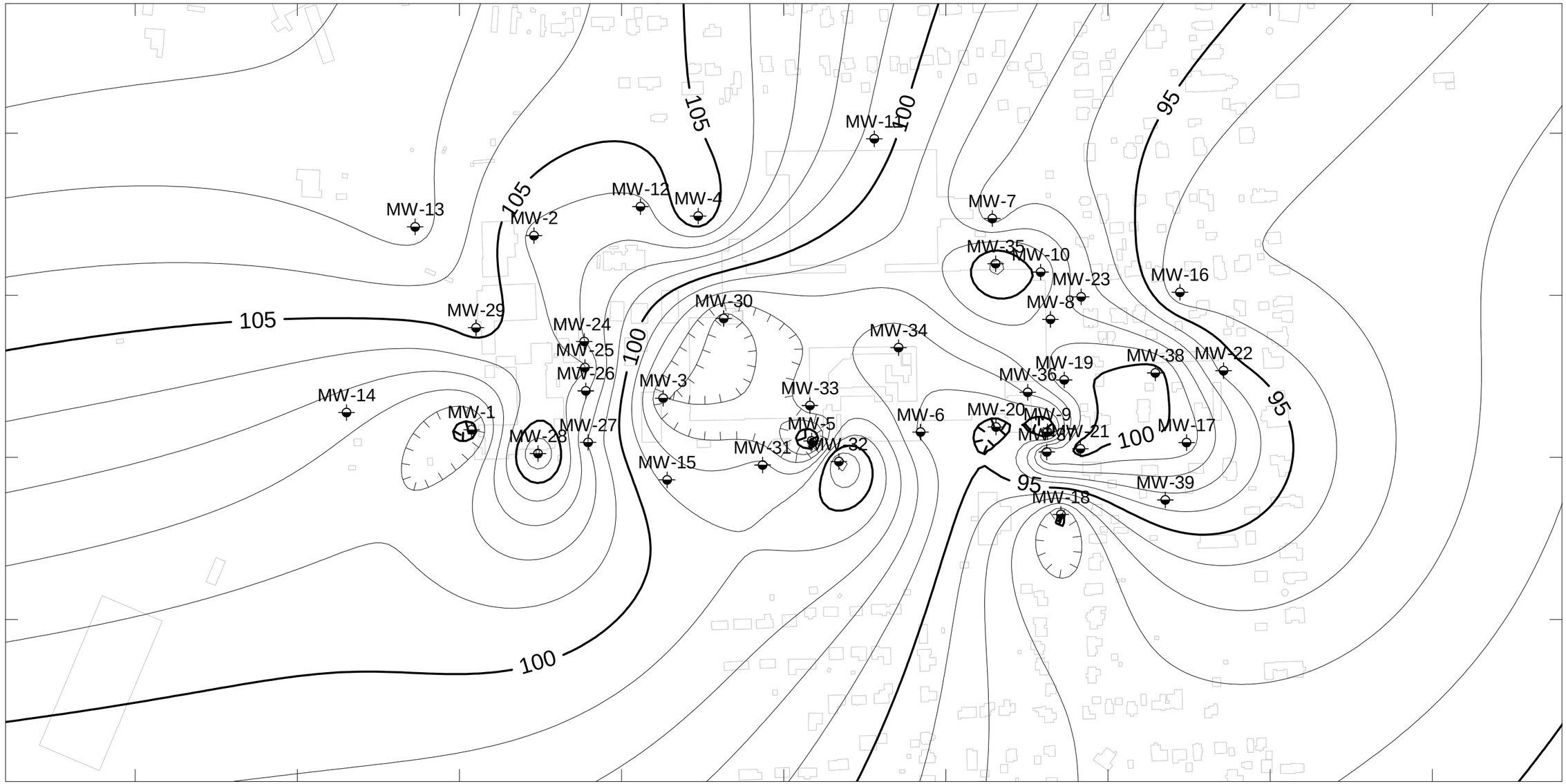


Figure 3-3: Bottom Elevation - Model Layer 2

Pfizer, Inc.
Rouses Point, New York

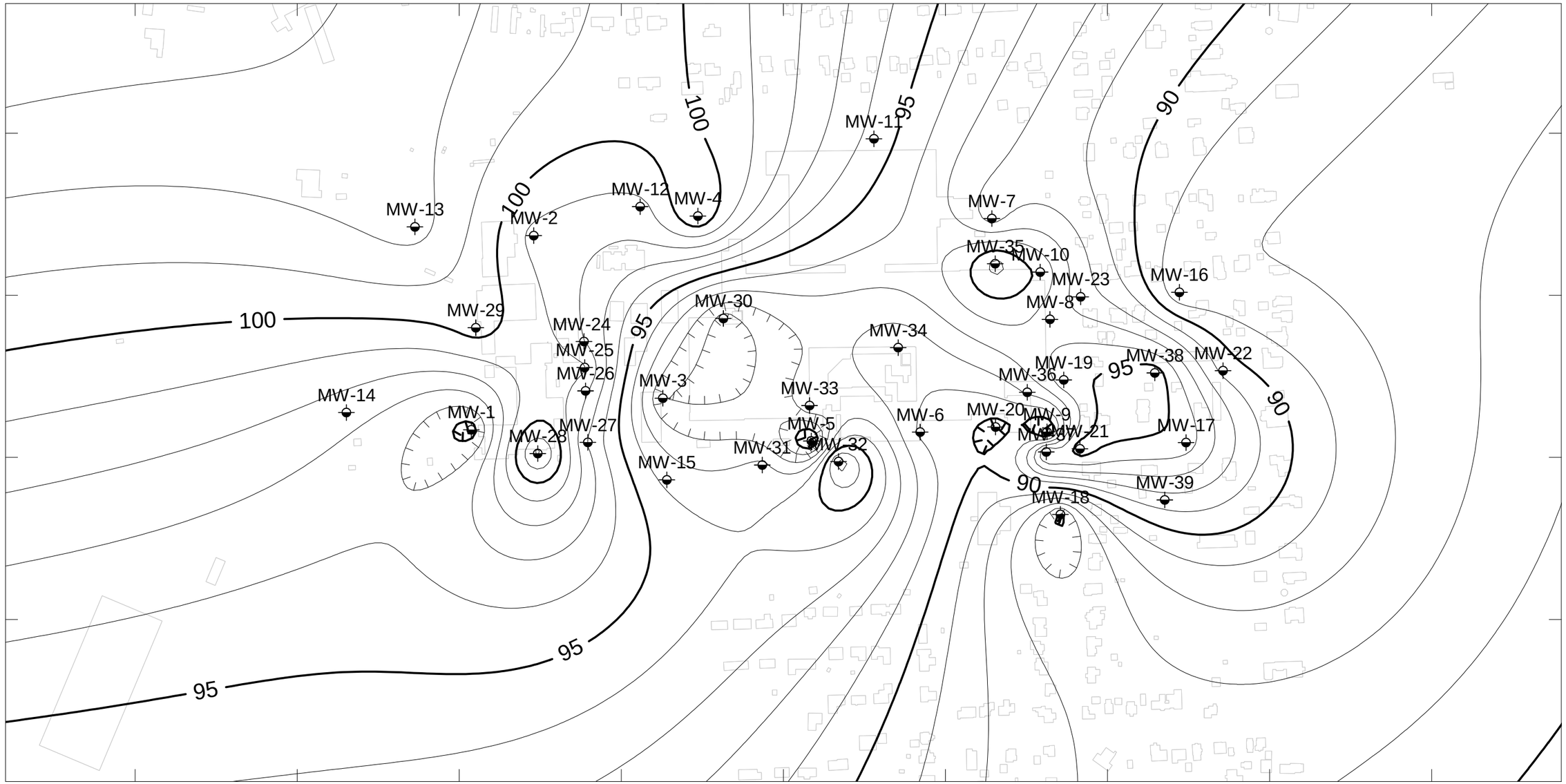


Figure 3-4: Bottom Elevation - Model Layer 3

Pfizer, Inc.
Rouses Point, New York

Legend

Hydraulic Conductivity Zone
Kx-Ky

- 0.9 ft/day, Zone 1, Low Perm. Till
- 3.72 ft/day, Zone 2, Till
- 15 ft/day Zone 3,Till
- 21 ft/day, Zone 4, Lower Till
- 55 ft/day, Zone 5, Lower Till
- 231 ft/day, Zone 6, Border Utilities Fill
- 445 ft/day, Zone 7, Core Utilities
- 0.518 ft/day, Zone 9, Upper Bedrock

300 150 0 300 Feet

Figure 3-5: Hydraulic Conductivity Values and Distribution for Calibrated Model
Pfizer, Inc.
Rouses Point, New York

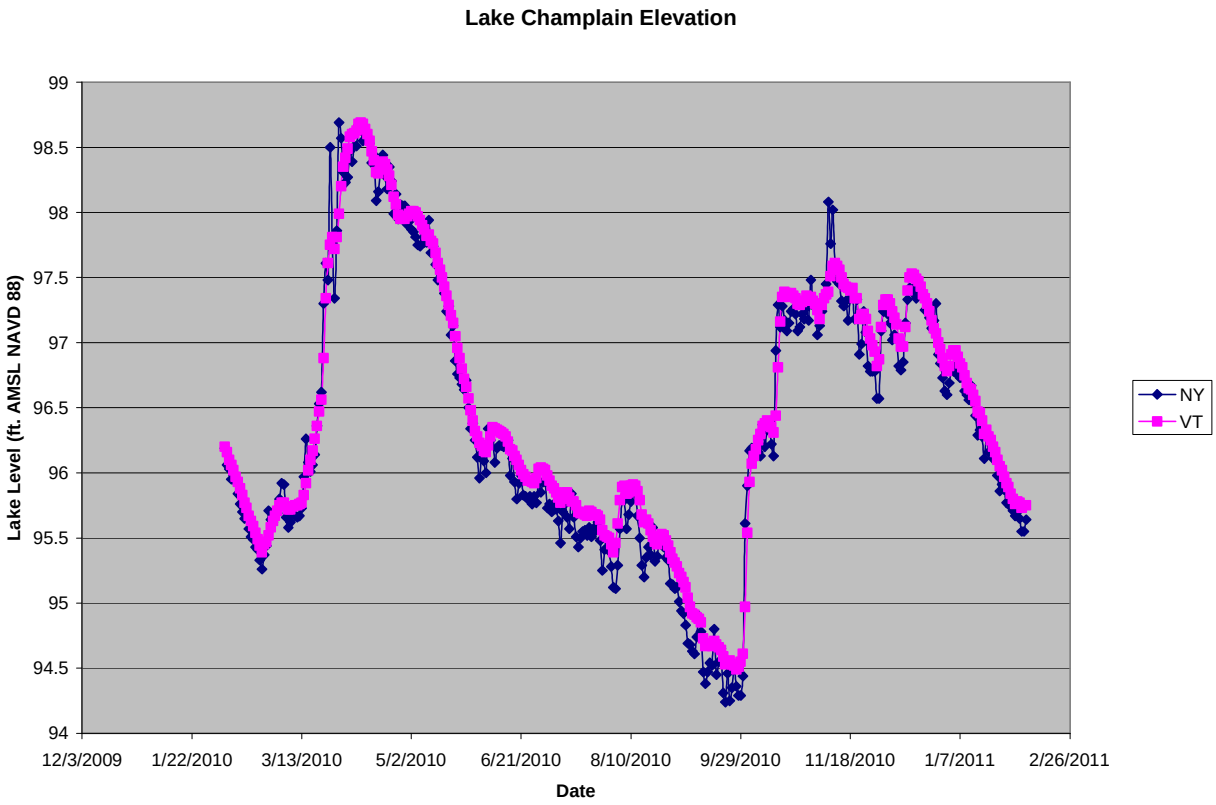


Figure 3-6: Lake Champlain Elevations 2010 and 2011

The vertical hydraulic conductivity of the riverbeds was assigned based on mapped surficial geologic units and field reconnaissance surveys of the shoreline of the lake. The elevations of the lake bed were based on field reconnaissance of the shoreline noting the approximate depth of the lake, bathymetric data shown on the USGS topographic map for Rouses Point and allowing for variation in stage and bed thickness.

3.2.6 Storage Properties

The porosity used in the model for particle tracking purposes was 10% which is a reasonable value for the mix of sort sands, silts, clays, and gravels simulated in model layer 1 and 2. The porosity for the shale bedrock was set much lower at a value of 1% to reflect the nature of the bedrock materials beneath the site.

3.3 MODEL CALIBRATION AND VERIFICATION

Following construction, the model was calibrated to observed field groundwater conditions. The calibration process involves determining a set of boundary conditions, stresses, and hydrogeologic properties that produces a result that most closely matches a set of field data.

3.3.1 Calibration Data Collection Activities

In order to provide time series data for water levels at the Site, Woodard & Curran completed the installation of water level data loggers in eight wells at the Site and periodically completed rounds of water level measurements. The data used in calibration are provided in **Table 3-2**.

Table 3-2: Calibration Targets

Name	Target Value (Head ft. MSL)	Layer
MW-1	115.53	2
MW-2	113.95	2
MW-3	112.87	2
MW-5	112.01	2
MW-6	111.98	2
MW-7	111.73	2
MW-8	103.31	2
MW-9	105.44	2
MW-10	108.08	2
MW-11	113.25	2
MW-12	113.75	2
MW-13	119.73	2
MW-14	132.79	2
MW-15	112.01	2
MW-16	100.55	2
MW-17	101.31	2
MW-18	107.6	2
MW-19	104.43	2
MW-20	111.55	2
MW-21	103.21	2
MW-22	99.59	2

3.3.2 Model Calibration and Verification

A selected number of the monitoring wells and the corresponding water level data collected in them were used in computing calibration statistics. The calibration statistics of interest consist of the residual (defined as the difference between the target and modeled heads); the residual mean; the residual standard deviation, residual sum of squares; the absolute residual mean (ARM); the minimum and maximum residuals; the observed range in head; and the residual standard deviation divided by the range. The goal of the calibration is for the residual mean to be close to zero indicating that the model is not overly biased in either the positive or the negative direction. The residual standard deviation provides an indication of the spread of the residuals and should be as low as possible. The residual standard deviation should vary much less than the total changes in head across the model, perhaps 10 to 15 percent. The ARM is

calculated by averaging the absolute value of the residuals with the objective in calibration of minimizing this value. The residuals are posted on a head contour map for evaluating spatial bias in the residuals.

A calibration is considered acceptable when the calibration statistics indicated that:

- Spatial bias is minimized;
- Absolute residual mean (ARM) is minimized;
- Residual standard deviation is within the standard deviation of the calibration target heads;
- Residual mean is close to zero; and,
- Residual standard deviation divided by the range is less than 15 percent of the total head change across the model.

The Site's groundwater model is considered adequately calibrated when:

- The potentiometric surface simulated by MODFLOW is a reasonable, close approximation of the Site potentiometric surface; and
- The calibration statistics indicate a good calibration.

The current calibration statistics show that the ARM is 0.76 indicating that this statistical measure is relatively low and that on average the majority of modeled heads are within 1 foot of observed heads. The total head change across the steady state model space is approximately 33.2 feet. The standard deviation of the residuals is 1.01. The residual standard deviation is approximately 3% of the total head change across the model indicating that this calibration criterion is met. The residual mean is 0.20 feet meeting the criterion of the residual mean being close to zero.

The calibration of the groundwater model for the Site is depicted in **Figures 3-7** and **Figure 3-8**. **Figure 3-7** plots the modeled heads versus the observed heads for the model calibration. The majority of the heads are adjacent to the line representing modeled head equal to observed head. This indicates a close calibration. **Figure 3-8** depicts the modeled groundwater flow field and the posted residuals for the calibration dataset. The posted residuals and the contours indicate that the flow field is a good match to observed conditions at the site. **Figure 3-8** also indicates that the spatial bias in the model is minimal.

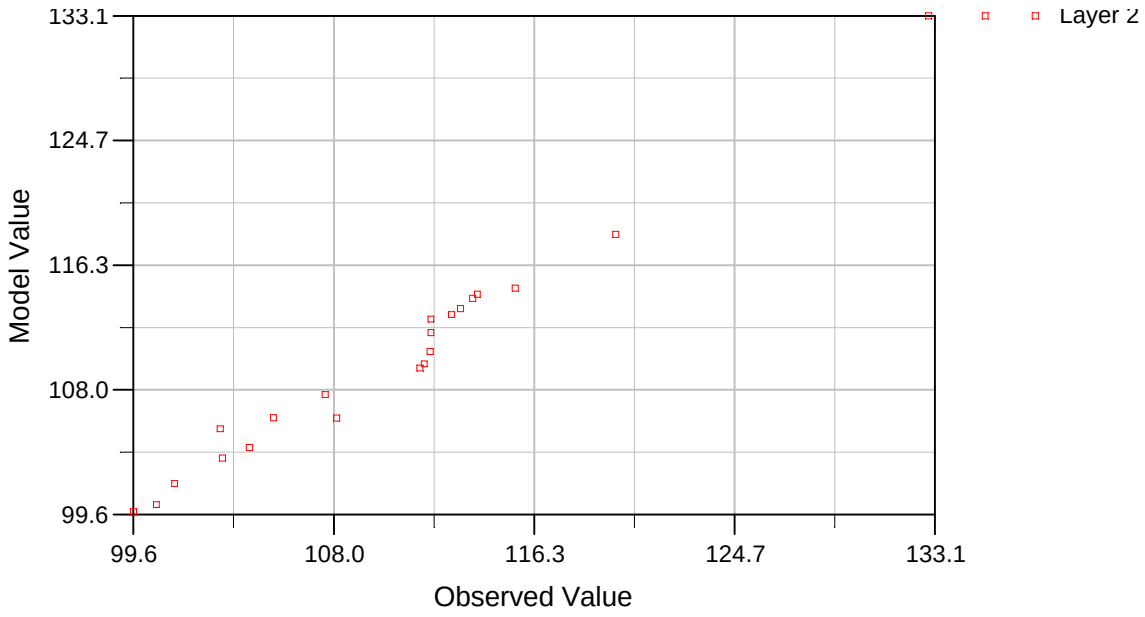
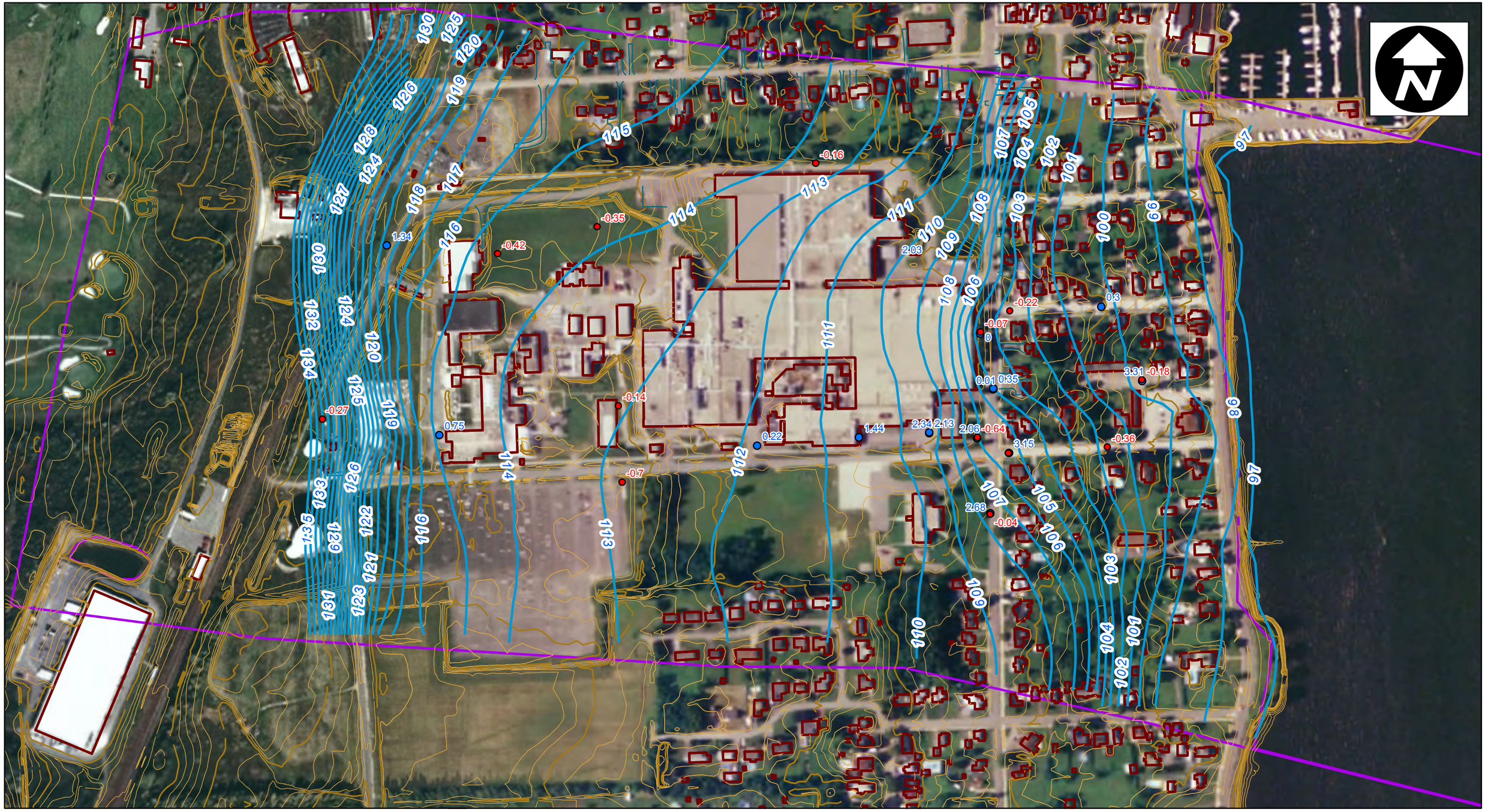


Figure 3-7: Observed Versus Modeled Heads, Calibration Dataset

A second, independent set of data that is representative of different flow conditions (i.e. high water flow versus average conditions) not used in the calibration was used to verify the model calibration. The model verification dataset corresponds to the water level round completed during July of 2011. The observed versus modeled heads for this round of data are provided in **Figure 3-9**. This graphic indicates a good match between observed and modeled heads and indicates that the model can independently simulate a second set of data. **Figure 3-10** shows the simulated flow field and posted residuals for the July 2011 monitoring round. The flow field is substantially similar to the observed flow field as evidenced by the posted residuals. The model is considered calibrated and benchmarked by virtue of the reproducibility of the simulation results.



Legend

Modeled Groundwater Contours

Model Limits

Model Targets

Residual

- -2.13 - 0.00
- 0.01 - 3.31

300 150 0 300 Feet

Figure 3-8: Modeled Contours and Posted Residuals
Pfizer, Inc.
Rouses Point, New York

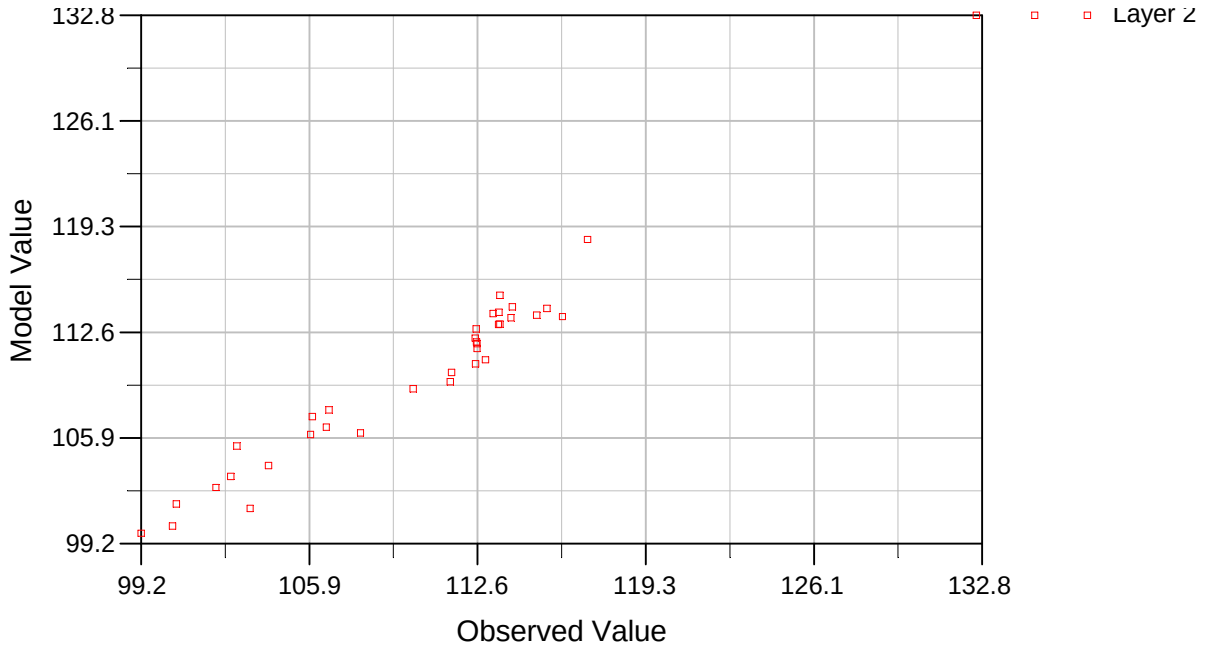
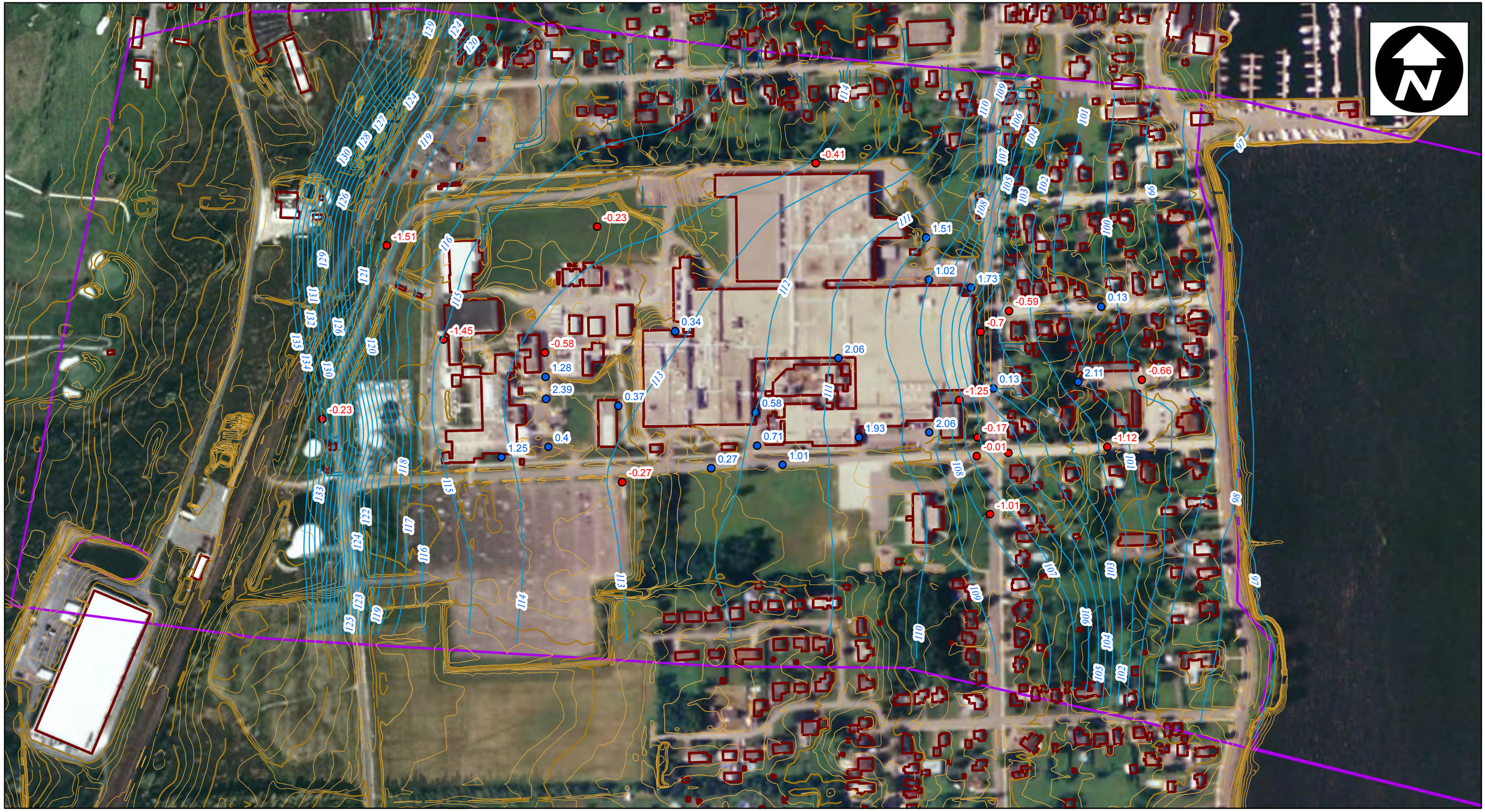


Figure 3-9: Observed Versus Modeled Heads, Verification Dataset

3.4 SENSITIVITY ANALYSIS

A sensitivity analysis was conducted on the groundwater model to determine the effects of changing various model parameters (i.e. hydraulic conductivity, recharge) on the calibration statistics and the computed flow field. Sensitivity analyses were performed by changing model parameters by discrete multiplication factors and gauging the effects of these changes on the model calibration statistics. Sensitivity analyses were also used to test various geological conditions to evaluate if special conditions may be affecting the flow of groundwater at the Site.

In general the model is most sensitive to the distribution of hydraulic conductivity in Layer 2. In particular, changing the hydraulic conductivity associated with the high conductivity materials making up Layer 2 (Zones 6 and 7 in the model) beneath the facility and along utility corridors appears to have the greatest impact on the calibration statistics. As described in Section 3.2.3, zones are used to represent areas in the model space that have similar hydraulic conductivities. This is depicted in **Figure 3-11** and **Figure 3-12** respectively. The sensitivity analyses suggest that the appropriate values for the hydraulic conductivity was selected for these materials given that the residual mean is minimized and the model was benchmarked via transient simulation.



300 150 0 300 Feet

Legend

Simulated Groundwater Contours - July 2011

Posted Residuals

- -2.390258 - 0.000000
- 0.000001 - 2.393141

Figure 3-10: Simulated Flow Field and Posted Residuals - July 2011 Monitoring Round
Pfizer, Inc.
Rouses Point, New York

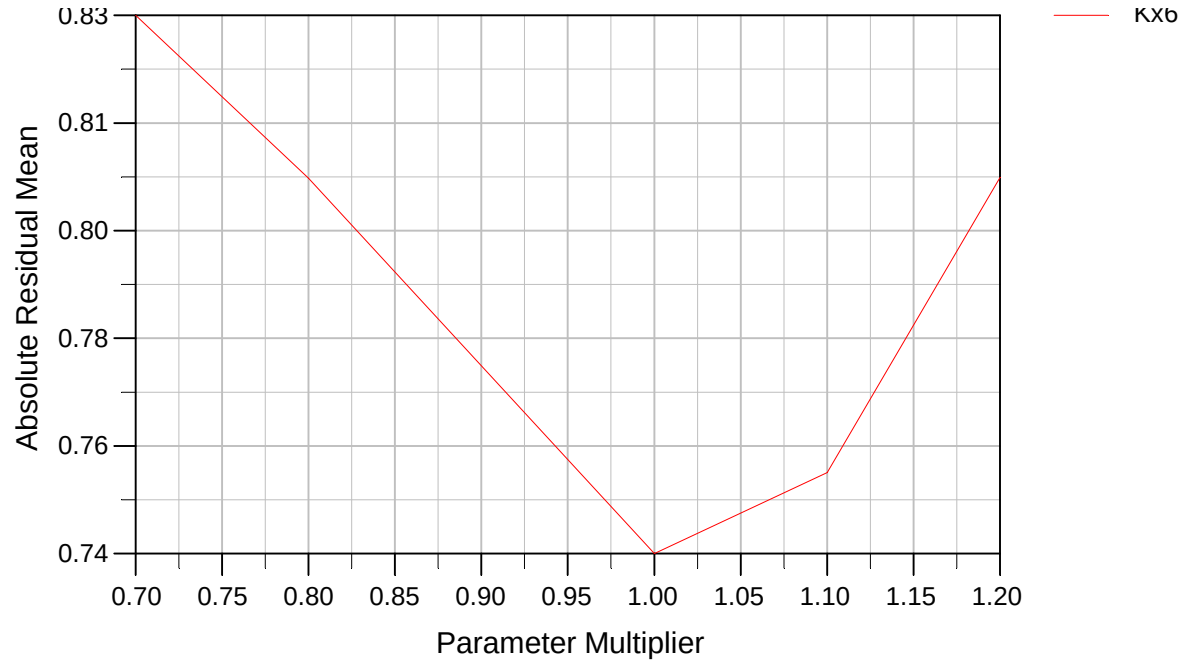


Figure 3-11: Zone 6 Sensitivity Analysis

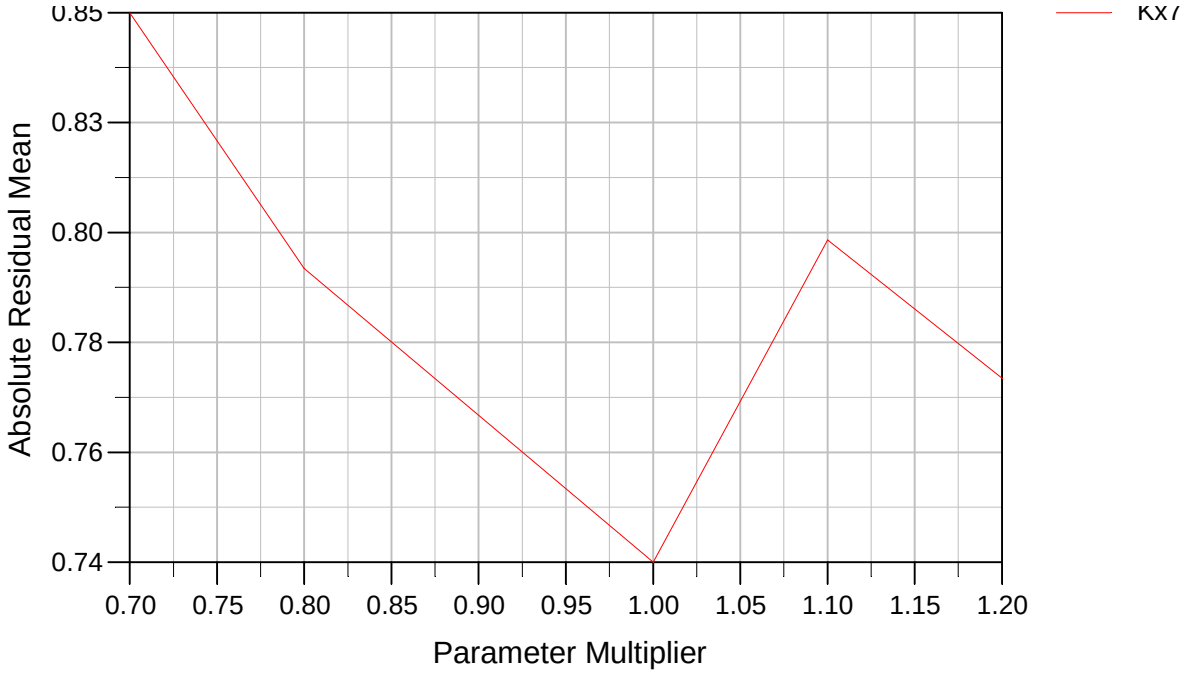


Figure 3-12: Zone 7 Sensitivity Analysis

3.5 PARTICLE TRACKING

The particle track model known as MODPATH (Pollock, 1989) was used for completing particle tracking through the modeled flow system. MODPATH simulates flowpaths through porous media models by releasing a simulated particle at a specific point in the flow system and tracking its movements through the simulated three-dimensional flow field. The results are then depicted graphically on Site maps to show the paths for groundwater movement. Particle tracking results are presented and discussed in Section 4.

4. GROUNDWATER MODEL USE

Once the groundwater model was calibrated, it was used to evaluate groundwater flow conditions at the Site. The primary method of evaluation used at the site was particle tracking to assist in identification of source areas and to evaluate the adequacy of the existing groundwater monitoring network. Particle tracking was completed in both forward and reverse tracking modes. The results of each of these are discussed in the sections below.

4.1 FORWARD PARTICLE TRACKING RESULTS

In the case of the forward particle tracking effort, particles were placed in areas at the top of Layer 2 and tracked forward. The results of these efforts are presented in **Figure 4-1**. As indicated in **Figure 4-1**, the particle tracks flow toward Lake Champlain. Particles released farthest to the west, track slightly southeasterly before turning back to the northeast to ultimately discharge to Lake Champlain (Richelieu River). Particles released on the eastern side of the facility begin flowing northeasterly and then turn toward the north-northeast as they approach the influence of the Lake Champlain (Richelieu River) discharge area.

4.2 REVERSE PARTICLE TRACKING RESULTS

The reverse particle track starting locations were placed at downgradient wells (see **Figure 4-2**). They were positioned in the lower 20% of Layer 2 to simulate starting in the screened portion of the formation. The particles were then tracked backwards through the simulated flow-field to evaluate their potential origins. In the case of reverse particle tracking, the particles are tracked backwards to the locations where they originated as recharge to the model. The majority of tracks released at the depths described above originate in the till upland area west of the facility adjacent to the nearby golf course.

Legend

Site Wells

Model Limits

Screen Depth

- Deep
- Shallow
- RevRP_forwardTracks
- Modeled Groundwater Contours

300 150 0 300 Feet

Figure 4-1: Forward Particle Tracking Results
Pfizer, Inc.
Rouses Point, New York

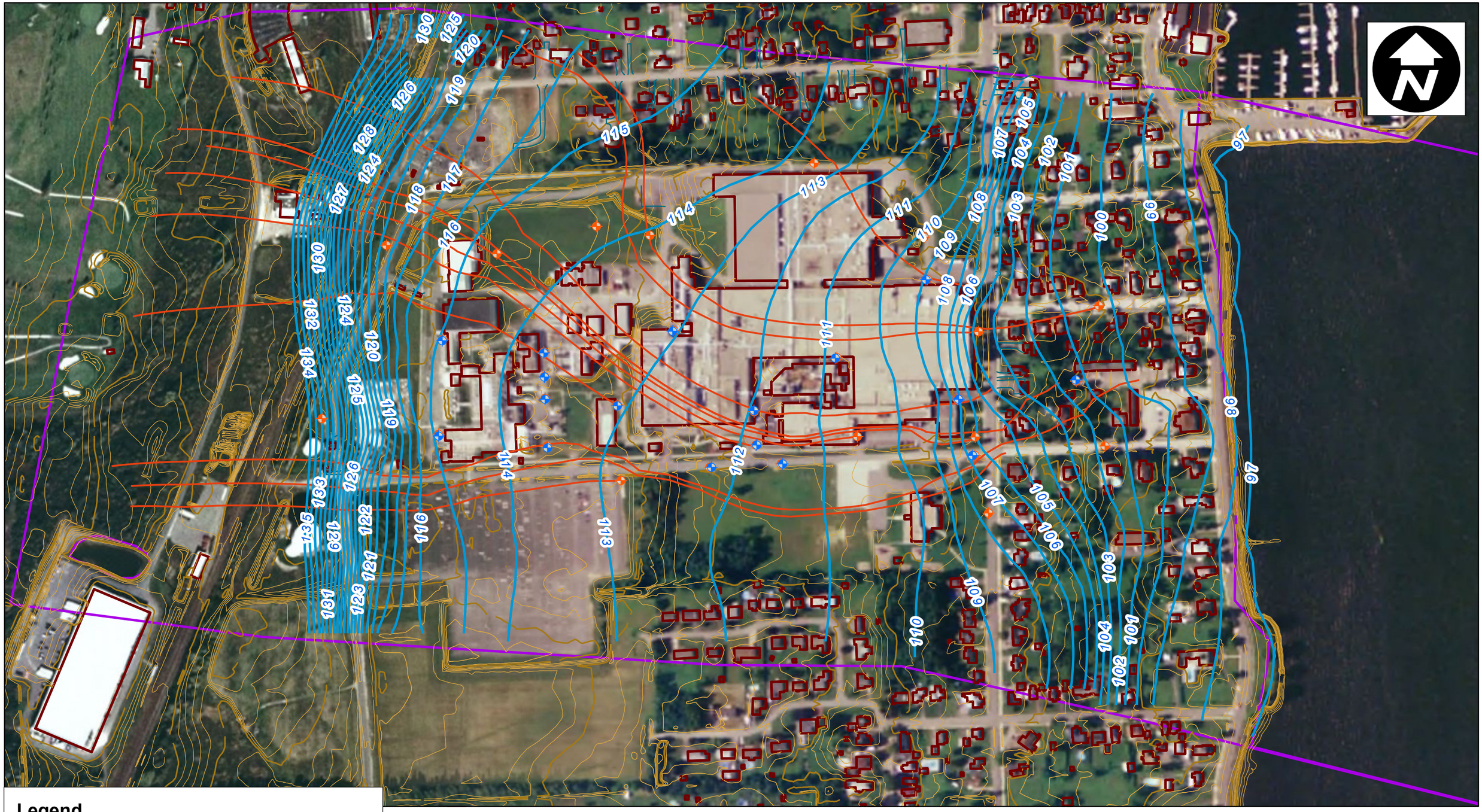


Figure 4-2: Reverse Particle Tracking Results
Pfizer, Inc.
Rouses Point, New York

5. SUMMARY AND CONCLUSIONS

A groundwater model for the Pfizer facility in Rouses Point, New York was completed as part of the CMS for the Site. The model was calibrated to steady state conditions and verified by a second independent set of data for heads measured at the Site. The following are conclusions from the modeling conducted at the Site:

- Calibration statistics met the criteria for calibration and the modeled flow fields closely resembled observed flow conditions.
- Particle tracking was completed to determine travel paths at various locations throughout the site and to evaluate the adequacy of the monitoring network. The particle tracking results indicate a correlation between particle paths starting from well locations and groundwater contour maps developed from seasonal potentiometric monitoring.
- The monitoring well network appears to be adequate to evaluate the groundwater conditions on and downgradient from the Pfizer facility.

6. REFERENCES

Fisher, Donald W.: Geology of the Plattsburgh and Rouses Point, New York-Vermont Quadrangles: Map and Chart Series Number 10; New York State Museum and Science Service, 1968.

McDonald, M.G. and A.W. Harbaugh, 1988. A modular three-dimensional finite-difference flow model. Techniques of Water Resources Investigations, Book 6. USGS.

Pollock, D.W., Documentation of computer programs to compute and display pathlines using results from the U.S.Geological Survey modular three-dimensional finite-difference ground-water flow model, USGS Open File Report 89-391. 1989

Woodard & Curran, "Solid Waste Management Unit (SWMU) and Area of Concern (AOC) Sampling and Analysis Report", Wyeth Pharmaceuticals, 64 Maple Street, Rouses Point, New York, April 2007.

Woodard & Curran, "Supplemental Sampling and Analysis Report", Wyeth Pharmaceuticals, Rouses Point, New York, June 2010.

APPENDIX B: MONITORING WELL COMPLETION LOGS

Woodard & Curran
709 Westchester Avenue, Suite L2
White Plains, New York 10604
Telephone: 800.807.4080
Fax: 914.448.0147

BORING/WELL NO.: MW-1S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/17/10 **COMPLETED** 11/17/10
SURFACE ELEVATION 133.28 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244580.29 **EASTING** 783537.688
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 6 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 6 ft. to 16 ft.
WATER LEVEL 124.39 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM
0		Feet BGS / Feet AMSL	Casing Type: PVC
2	NS	Vacuum extracted for utility clearance on 10/25/10 to 11 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 16 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser
4	NS		Bentonite Seal
6	NS	See Boring/Well Log No. MW-1 for Geologic Description.	No. 00 Fine Sand Filter
8	NS		No. 1 Sand Filter
10	NS		
12	NS		2" Schedule 40 PVC 10 Slot Screen
14	NS		
16	NS	16.0 / 117.3	

Bottom of borehole at 16.0 feet.

Woodard & Curran
709 Westchester Avenue, Suite L2
White Plains, New York 10604
Telephone: 800.807.4080
Fax: 914.448.0147

BORING/WELL NO.: MW-5S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/1/10 **COMPLETED** 12/1/10
SURFACE ELEVATION 122.33 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244549.289 **EASTING** 784589.722
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 5 ft. to 14.5 ft.
WATER LEVEL 117.30 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/27/10 to 10.25 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 11 ft bgs. Rollerbit to 14.5 ft bgs. No samples collected.	Roadbox Cement 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-5 for Geologic Description.	No. 00 Fine Sand Filter	6
8	NS		No. 1 Sand Filter	8
10	NS		2" Schedule 40 PVC 10 Slot Screen	10
12	NS			12
14	NS			14
		14.5 / 107.8		

Bottom of borehole at 14.5 feet.

Woodard & Curran
709 Westchester Avenue, Suite L2
White Plains, New York 10604
Telephone: 800.807.4080
Fax: 914.448.0147

BORING/WELL NO.: MW-24

PROJECT Pfizer - Rouses Point, NY | **PROJECT NUMBER** 206910

DATE STARTED 9/2/10 | **COMPLETED** 9/3/10 | **SURFACE ELEVATION** 131.5 ft | **DATUM** NAVD88

CONTRACTOR Parratt-Wolff | **DRILLER** Joe Percy | **NORTHING** 2244856.989 | **EASTING** 783885.156

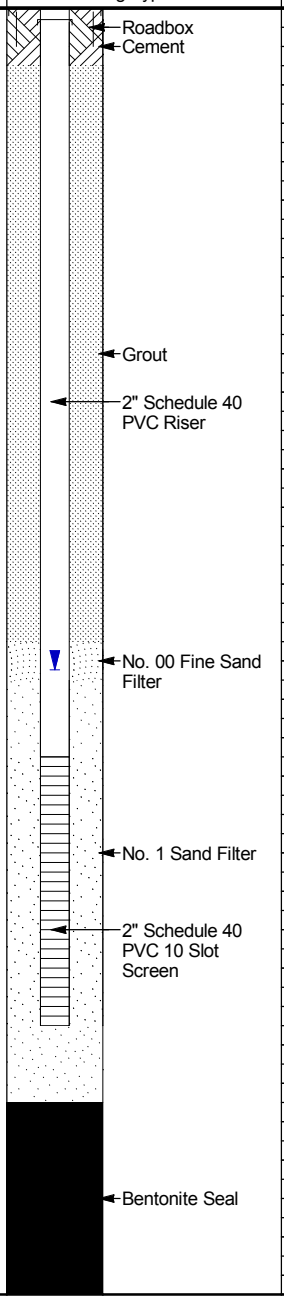
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing | **WELL CASING:** **INTERVAL** 0 ft. to 19.5 ft.

SAMPLING METHOD Split Spoon / NX Core | **TYPE** PVC | **DIAMETER** 2 in.

GEOLOGIST/ENGINEER Josh Bowe | **WELL SCREEN:** **INTERVAL** 19.5 ft. to 26.5 ft.

WATER LEVEL 114.21 ft | **DATE MEASURED** 12/15/2010 | **TYPE** PVC Slotted | **DIAMETER** 2 in. | **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 8/23/10 to 10 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 5 " casing to 10 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	10-12	5-10-20-20 (30)	90	Dense, brown fine SAND, some coarse sand and silt, little clay, moist (Till)	0.0
14	12-14	14-25-30-30 (55)	100	Very dense, brown fine SAND, some coarse sand, fine gravel and silt, little clay (Till)	0.0
				14.0 / 117.5	
	14-15	29-50	58	Very dense, grey fine to coarse SAND, some gravel and clay (Till)	0.0
16	NS			Rollerbit, drive and wash 4" casing to 25 ft bgs.	
18	NS				
20	NS			Till with Cobbles and Boulders	
22	NS				
24	NS				
26	25-25.2 NS	50/3"	100	Very dense, grey fine to coarse SAND, some gravel, silt and clay (Till)	0.0
28	NS			Rollerbit, drive and wash 4" casing to 28.5 ft bgs.	
				28.5 / 103.0	
30	28.5-33.5		86	R-1: 28.5 ft bgs to 33.5 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 86%, RQD = 100%	
32					



Bottom of borehole at 33.5 feet.

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BORING/WELL NO.: MW-24S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 9/7/10 **COMPLETED** 9/7/10
SURFACE ELEVATION 131.62 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244853.383 **EASTING** 783885.261
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 7 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Chris Miller
WELL SCREEN: **INTERVAL** 7 ft. to 14 ft.
WATER LEVEL 119.00 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 8/24/10 to 9.5 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 4" casing to 14.8 ft bgs. No samples collected.	Roadbox; Cement	2
4	NS		2" Schedule 40 PVC Riser	4
6	NS	See Boring/Well Log No. MW-24 for Geologic Description.	Bentonite Seal	6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS		2" Schedule 40 PVC 10 Slot Screen	12
14	NS			14
	NS	14.8 / 116.8		

Bottom of borehole at 14.8 feet.

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BORING/WELL NO.: MW-25

PROJECT Pfizer - Rouses Point, NY | **PROJECT NUMBER** 206910

DATE STARTED 9/9/10 | **COMPLETED** 9/9/10 | **SURFACE ELEVATION** 131.16 ft | **DATUM** NAVD88

CONTRACTOR Parratt-Wolff | **DRILLER** Joe Percy | **NORTHING** 2244776.799 | **EASTING** 783887.361

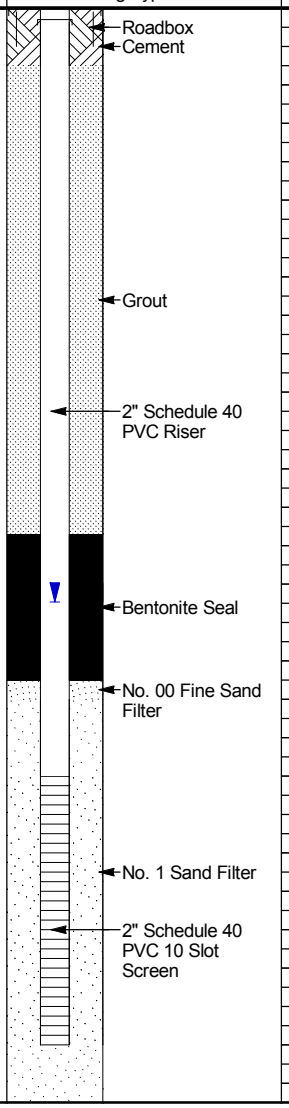
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing | **WELL CASING:** **INTERVAL** 0 ft. to 20 ft.

SAMPLING METHOD Split Spoon / NX Core | **TYPE** PVC | **DIAMETER** 2 in.

GEOLOGIST/ENGINEER Josh Bowe | **WELL SCREEN:** **INTERVAL** 20 ft. to 27 ft.

WATER LEVEL 115.33 ft | **DATE MEASURED** 12/15/2010 | **TYPE** PVC Slotted | **DIAMETER** 2 in. | **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 8/25/10 to 8.75 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 5" casing to 9.5 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	10-12	9-25-25-25 (50)	38	Dense, brown fine SAND and SILT, some coarse sand, trace clay (Till)	0.0
14	12-14	24-50	42	Very dense, brown/gray SILT, with some fine sand, and trace medium to coarse sand (Till)	0.0
				14.0 / 117.2	
16	NS			Rollerbit, drive and wash 4" casing to 28.5 ft bgs.	
18	NS				
20	NS				
22	NS				
24	NS				
26	NS			Till with Cobbles and Boulders	
				27.0 / 104.2	
28	NS			Bedrock	
				28.5 / 102.7	



Bottom of borehole at 28.5 feet.

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BORING/WELL NO.: MW-25S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 9/10/10 **COMPLETED** 9/10/10
SURFACE ELEVATION 131.23 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244773.622 **EASTING** 783887.283
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 6 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Josh Bowe
WELL SCREEN: **INTERVAL** 6 ft. to 13 ft.
WATER LEVEL 125.38 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 8/25/10 to 9.5 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 4" casing to 13 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-25 for Geologic Description.	No. 00 Fine Sand Filter	6
8	NS			8
10	NS		No. 1 Sand Filter; 2" Schedule 40 PVC 10 Slot Screen	10
12	NS			12
	NS	13.0 / 118.2		

Bottom of borehole at 13.0 feet.

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BORING/WELL NO.: MW-26

PROJECT Pfizer - Rouses Point, NY | **PROJECT NUMBER** 206910

DATE STARTED 9/8/10 | **COMPLETED** 9/8/10 | **SURFACE ELEVATION** 131.22 ft | **DATUM** NAVD88

CONTRACTOR Parratt-Wolff | **DRILLER** Joe Percy | **NORTHING** 2244704.9 | **EASTING** 783889.644

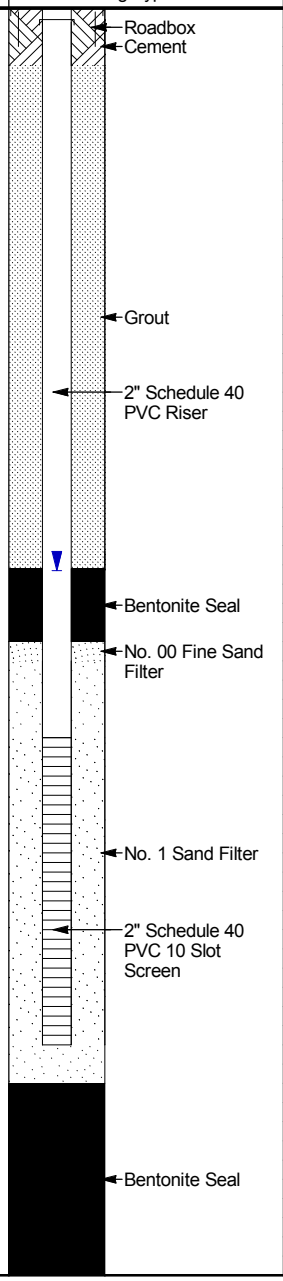
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing | **WELL CASING:** **INTERVAL** 0 ft. to 19 ft.

SAMPLING METHOD Split Spoon / NX Core | **TYPE** PVC | **DIAMETER** 2 in.

GEOLOGIST/ENGINEER Chris Miller | **WELL SCREEN:** **INTERVAL** 19 ft. to 27 ft.

WATER LEVEL 116.11 ft | **DATE MEASURED** 12/15/2010 | **TYPE** PVC Slotted | **DIAMETER** 2 in. | **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 8/26/10 to 9 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 5" casing to 8 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	10-12	15-17-25-31 (42)	29	Dense, gray SILT, some sand, trace clay, moist (Till)	0.0
14	12-14	17-21-25-25 (46)	54	Dense, gray SILT, some sand, trace clay, moist (Till)	0.0
16	NS			14.0 / 117.2 Rollerbit, drive and wash 4 " casing to 28 ft bgs.	
18	NS			Till with Cobbles and Boulders	
20	NS				
22	NS				
24	NS				
26	NS				
28	NS			28.0 / 103.2	
30	28-33		100	R-1: 28 ft bgs to 33 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 99.6%, RQD = 100%	
32					



Bottom of borehole at 33.0 feet.

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BORING/WELL NO.: MW-26S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 9/9/10 **COMPLETED** 9/9/10
SURFACE ELEVATION 131.09 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244700.897 **EASTING** 783889.844
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 6 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Chris Miller
WELL SCREEN: **INTERVAL** 6 ft. to 13 ft.
WATER LEVEL 126.15 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 8/26/10 to 9 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 4" casing to 13 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-26 for Geologic Description.	No. 00 Fine Filter Sand	6
8	NS			8
10	NS		No. 1 Sand Filter; 2" Schedule 40 PVC 10 Slot Screen	10
12	NS			12
	NS	13.0 / 118.1		

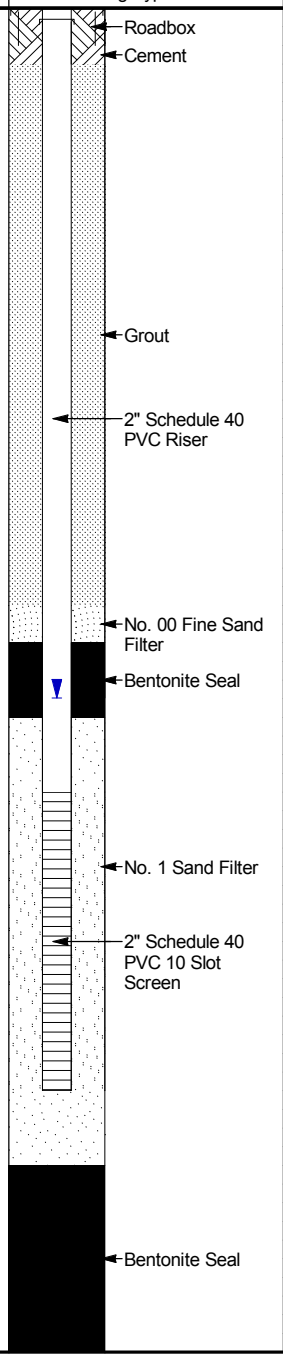
Bottom of borehole at 13.0 feet.

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Monitoring Well No.: MW-27

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 8/31/10 **COMPLETED** 9/1/10
SURFACE ELEVATION 132.86 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244545.85 **EASTING** 783897.025
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 21 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Josh Bowe
WELL SCREEN: **INTERVAL** 21 ft. to 29 ft.
WATER LEVEL 113.94 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL (Feet BGS / Feet AMSL)	PID (ppm)
0					
2	NS			Vacuum extracted for utility clearance on 8/25/10 to 9.5 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 5" casing to 9.5 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	10-12	2-12-18-18 (30)	29	Medium dense, brown fine SAND, some silt, trace coarse sand and fine gravel, moist (Till)	0.0
14	12-14	18-22-25-40 (47)	38	Dense, brown fine SAND, some silt and clay, trace fine gravel, moist (Till)	0.0
				14.0 / 118.9	
	14-16	38-50/3"	89	Very dense, gray fine to coarse SAND and fine GRAVEL, some silt, trace clay, moist (Till w/ Cobbles and Boulders)	0.0
16	NS				
	16-18	80	67	Very dense, gray fine to coarse SAND and fine GRAVEL, some silt, trace clay, moist (Till w/ Cobbles and Boulders)	0.0
18	NS				
20	18-20 NS	60	25	Very dense, gray fine to coarse SAND, some fine gravel and silt, trace clay, moist (Till w/ Cobbles and Boulders)	0.0
	20-22	50	83	Very dense, gray fine to coarse SAND, some fine gravel and silt, trace clay (Till w/ Cobbles and Boulders)	0.0
	20.5-22.5 NS	50/2"	0		
22				Rollerbit, drive and wash 4" casing to 24 ft bgs.	
24	NS				
	24-26	50/2"	83	Very dense, gray fine to coarse SAND, some silt and clay, moist (Till w/ Cobbles and Boulders)	0.0
26	NS				
28	NS				
	28.5-30.5	50/1"	83	Very dense, gray fine to coarse SAND, some silt and clay, moist (Till w/ Cobbles and Boulders)	0.0
30	NS			Rollerbit to 31 ft bgs. Lost drilling water.	
				31.0 / 101.9	
32				R-1: 31 ft bgs to 36 ft bgs	
34	31-36		84	Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 84%, RQD = 46%	
36					



Bottom of borehole at 36.0 feet.

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BORING/WELL NO.: MW-27S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 9/1/10 **COMPLETED** 9/1/10
SURFACE ELEVATION 132.72 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244541.281 **EASTING** 783897.647
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 6 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Josh Bowe
WELL SCREEN: **INTERVAL** 6 ft. to 13 ft.
WATER LEVEL 125.92 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 8/25/10 to 9.5 ft bgs and backfilled with No. 1 Sand to ground surface. Rollerbit, drive and wash 4" casing to 13 ft bmp. No samples collected.	Roadbox; Cement	2
4	NS		2" Schedule 40 PVC Riser; Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-27 for Geologic Description.	No. 00 Fine Sand Filter	6
8	NS			8
10	NS		No. 1 Sand Filter; 2" Schedule 40 PVC 10 Slot Screen	10
12	NS			12
	NS	13.0 / 119.7		

Bottom of borehole at 13.0 feet.

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BORING/WELL NO.: MW-28

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/2/10 **COMPLETED** 12/3/10
SURFACE ELEVATION 133.92 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244511.468 **EASTING** 783742.228
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 20 ft.
SAMPLING METHOD NX Core **TYPE** PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Sean Driscoll
WELL SCREEN: **INTERVAL** 20 ft. to 26 ft.
WATER LEVEL 116.01 ft **DATE MEASURED** 12/15/2010 **TYPE** PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM
0		Feet BGS / Feet AMSL	Casing Type: PVC
2	NS	Vacuum extracted for utility clearance on 10/26/10 to 10 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 15 ft bgs. No samples collected.	Roadbox, Cement
4	NS		
6	NS		
8	NS	Till	
10	NS		Grout
12	NS		2" Schedule 40 PVC Riser
14	NS		
16	NS	15.0 / 118.9 Rollerbit, drive and wash 4" casing to 24 ft bgs. No samples collected.	
18	NS		Bentonite Seal
20	NS	Till with Cobbles and Boulders	No. 00 Fine Sand Filter
22	NS		No. 1 Sand Filter
24	NS	Rollerbit to 24.5 ft bgs.	2" Schedule 40 PVC 10 Slot Screen
26		R-1: 24.5 ft bgs to 30 ft bgs. Run Length = 5.5 ft, Recovery = 91%, RQD = 60%	
28		26.5 / 107.4 Competent Bedrock at 26.5 ft bgs. Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock)	Bentonite Seal
30		30.0 / 103.9	

Bottom of borehole at 30.0 feet.

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BORING/WELL NO.: MW-28S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/6/10 **COMPLETED** 12/6/10
SURFACE ELEVATION 133.98 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244512.396 **EASTING** 783747.05
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Sean Driscoll
WELL SCREEN: **INTERVAL** 5 ft. to 15 ft.
WATER LEVEL 126.68 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/26/10 to 10.5 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 15.5 ft bgs. No samples collected.	Roadbox Cement 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-28 for Geologic Description.	N. 00 Find Sand Filter	6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS		2" Schedule 40 PVC 10 Slot Screen	12
14	NS			14
	NS	15.5 / 118.5		

Bottom of borehole at 15.5 feet.

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BORING/WELL NO.: MW-29

PROJECT Pfizer - Rouses Point, NY | **PROJECT NUMBER** 206910

DATE STARTED 11/12/10 | **COMPLETED** 11/16/10 | **SURFACE ELEVATION** 134.46 ft | **DATUM** NAVD88

CONTRACTOR Parratt-Wolff | **DRILLER** Joe Percy | **NORTHING** 2244899.723 | **EASTING** 783551.174

DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing | **WELL CASING:** **INTERVAL** 0 ft. to 23.5 ft.

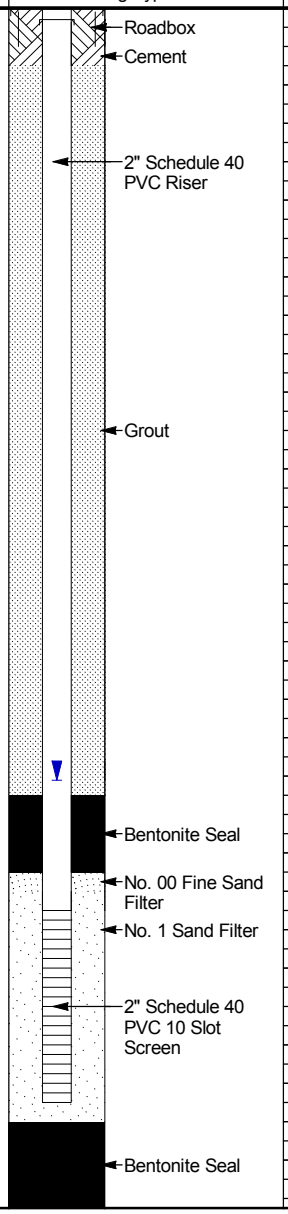
SAMPLING METHOD Split Spoon / NX Core | **TYPE** PVC | **DIAMETER** 2 in.

GEOLOGIST/ENGINEER Scott Soricelli | **WELL SCREEN:** **INTERVAL** 23.5 ft. to 28.5 ft.

WATER LEVEL 113.67 ft | **DATE MEASURED** 12/15/2010 | **TYPE** PVC Slotted | **DIAMETER** 2 in. | **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 10/26/10 to 10.2 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 11 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	11-13	19-36-33-26 (69)	88	Very dense, brown fine to coarse SAND, little silt and fine to medium gravel, saturated (Till)	0.0
14	13-15	14-17-18-30 (35)	75	Dense, brown fine to coarse SAND, little silt and fine to medium gravel, saturated (Till)	25.6
16	15-17	19-26-33-30 (59)	88	Very dense, brown fine to coarse SAND, little silt and fine to medium gravel, saturated (Till)	26.0
				17.0 / 117.5	
18	17-19	50-50	38	Very dense, brown fine to coarse SAND, some fine to medium gravel, little silt, saturated (Till)	14.0
20	19-21	38-43-50 (93)	63	Very dense, brown fine to coarse SAND, some fine to medium gravel, little silt, saturated (Till)	22.0
22	21-23	60	25	Very dense, brown fine to coarse SAND, some fine to medium gravel, little silt, saturated (Till)	20.2
24	NS			Rollerbit, drive and wash 4" casing to 29 ft bgs.	
26	NS			Till with Cobbles and Boulders	
28	NS				
				29.0 / 105.5	
30	29-31.25		100	R-1: 29 ft bgs to 31.25 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 2.25 ft, Recovery = 100%, RQD = 100%	
				31.3 / 103.2	

Bottom of borehole at 31.3 feet.



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BORING/WELL NO.: MW-29S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/16/10 **COMPLETED** 11/16/10
SURFACE ELEVATION 134.16 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244895.175 **EASTING** 783549.844
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 6 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 6 ft. to 16 ft.
WATER LEVEL 128.73 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/25/10 to 10.5 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 16 ft bgs. No samples collected.	Roadbox Cement	2
4	NS		2" Schedule 40 PVC Riser Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-29 for Geologic Description.	No. 00 Fine Sand Filter	6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS		2" Schedule 40 PVC 10 Slot Screen	12
14	NS			14
16	NS	16.0 / 118.2		16

Bottom of borehole at 16.0 feet.

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BORING/WELL NO.: MW-30

PROJECT Pfizer - Rouses Point, NY | **PROJECT NUMBER** 206910

DATE STARTED 11/18/10 | **COMPLETED** 11/19/10 | **SURFACE ELEVATION** 122.49 ft | **DATUM** NAVD88

CONTRACTOR Parratt-Wolff | **DRILLER** Joe Percy | **NORTHING** 2244928.062 | **EASTING** 784315.108

DRILLING METHOD Drive and Wash - 3 in., 4 in. and 5 in. casing | **WELL CASING:** **INTERVAL** 0 ft. to 18.5 ft.

SAMPLING METHOD Split Spoon / NX Core | **TYPE** PVC | **DIAMETER** 2 in.

GEOLOGIST/ENGINEER Scott Soricelli | **WELL SCREEN:** **INTERVAL** 18.5 ft. to 26.5 ft.

WATER LEVEL 113.74 ft | **DATE MEASURED** 12/15/2010 | **TYPE** PVC Slotted | **DIAMETER** 2 in. | **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	Feet BGS	PHYSICAL DESCRIPTION OF SOIL	Feet AMSL	PID (ppm)
0							
2	NS				Vacuum extracted for utility clearance on 10/26/10 to 9.75 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 8 ft bgs. Rollerbit to 11 ft bgs. No samples collected.		
4	NS						
6	NS						
8	NS						
10	NS						
12	11-13	22-50	25	13.0	Very dense, gray fine to coarse SAND, some fine to medium gravel and silt, saturated (Till)	109.5	2.3
14	13-18		40		R-1: 13 ft bgs to 18 ft bgs Very dense, gray fine to coarse SAND, some fine to medim gravel and silt, interbedded with cobbles and boulders, saturated (Till)		NS
16							
18							
20	NS						
22	NS						
24	22-24	36-50	25		Very dense, gray fine to coarse SAND, some fine to medim gravel and silt, saturated (Till)		6.3
26	NS				Till with Cobbles and Boulders Rollerbit, drive and wash 4" casing to 25 ft bgs. Rollerbit, drive and wash 3" casing to 27 ft bgs.		
28	NS			27.0	Lost drilling water at 26 ft bgs.	95.5	
30	27-32		100		R-2: 27 ft bgs to 32 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 90%, RQD = 94%		
32							

WELL DIAGRAM — Casing Type: PVC

- Roadbox
- Cement
- Grout
- 2" Schedule 40 PVC Riser
- Bentonite Seal
- No. 00 Fine Sand Filter
- No. 1 Sand Filter
- 2" Schedule 40 PVC 10 Slot Screen
- Bentonite Seal

Bottom of borehole at 32.0 feet.

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BORING/WELL NO.: MW-30S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/29/10 **COMPLETED** 11/29/10
SURFACE ELEVATION 122.63 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244927.027 **EASTING** 784311.084
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 5 ft. to 13 ft.
WATER LEVEL 117.42 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/26/10 to 9.75 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 8 ft bgs. Rollerbit to 13.5 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser; Bentonite Seal	2
4	NS		No. 00 Fine Sand Filter	4
6	NS	See Boring/Well Log No. MW-30 for Geologic Description.		6
8	NS		No. 1 Sand Filter	8
10	NS		2" Schedule 40 PVC 10 Slot Screen	10
12	NS			12
	NS	13.5 / 109.1		

Bottom of borehole at 13.5 feet.

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BORING/WELL NO.: MW-31

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/15/10 **COMPLETED** 12/16/10
SURFACE ELEVATION 124.3 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244475.85 **EASTING** 784434.86
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 17.5 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Tom Wollen
WELL SCREEN: **INTERVAL** 17.5 ft. to 22.5 ft.
WATER LEVEL 112.47 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)	WELL DIAGRAM
0				Feet BGS / Feet AMSL		Casing Type: PVC
2	NS			Vacuum extracted for utility clearance on 11/1/10 to 10.75 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 10 ft bgs. No samples collected.	NS	Roadbox, Cement
4	NS					
6	NS					
8	NS					Grout
10	NS					2" Schedule 40 PVC Riser
12	10-12	8-16-16-15 (32)	25	Dense, gray very fine SAND and SILT, some fine gravel, trace clay (Till)		
14	12-14	18-21-28-40 (49)	46	Dense, gray very fine SAND and SILT, some fine gravel, trace clay (Till)		Bentonite Seal
14.0				110.3		
16	14-16	46-50-50 (100)	46	Very dense, gray very fine SAND and SILT, some fine gravel, trace clay (Till)		No. 00 Fine Sand Filter
18	16-18	49-50	21	Very dense, gray very fine SAND and SILT, trace gravel and clay (Till) Rollerbit, drive and wash 4" casing to 18 ft bgs.		No. 1 Sand Filter
20	18-20	67-63-42-68 (105)	58	Very dense, gray very fine SAND and SILT, trace gravel and clay (Till)		
22	NS			Rollerbit, drive and wash 4" casing to 25 ft bgs. Rollerbit to 26 ft bgs.		2" Schedule 40 PVC 10 Slot Screen
24	NS			Till with Cobbles and Boulders		
26	NS					
26.0				98.3		
28	26-31		95	R-1: 26 ft bgs to 31 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 95%, RQD = 100%		Bentonite Seal
30						

Bottom of borehole at 31.0 feet.

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BORING/WELL NO.: MW-31S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/17/10 **COMPLETED** 12/17/10
SURFACE ELEVATION 124.35 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244476.578 **EASTING** 784439.52
DRILLING METHOD Drive and Wash - 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Tom Wollen
WELL SCREEN: **INTERVAL** 5 ft. to 13 ft.
WATER LEVEL 117.62 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 11/1/10 to 9.5 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 10 ft bgs. Rollerbit, drive and wash 4" casing to 13 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser; Bentonite Seal	2
4	NS			4
6	NS	See Boring/Well Log No. MW-31 for Geologic Description.		6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS		2" Schedule 40 PVC 10 Slot Screen	12
	NS	13.0 / 111.4		

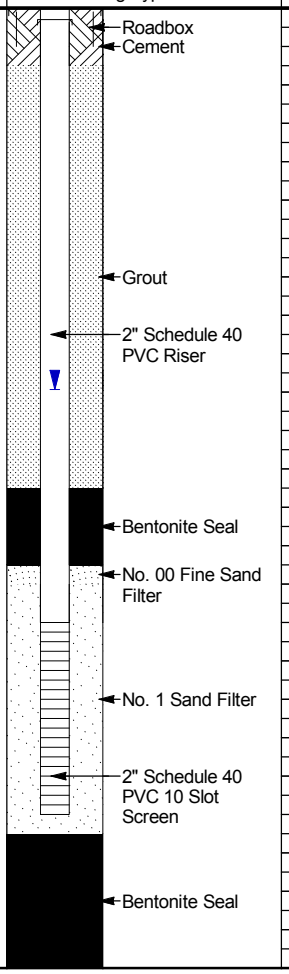
Bottom of borehole at 13.0 feet.

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BORING/WELL NO.: MW-32

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/29/10 **COMPLETED** 11/30/10
SURFACE ELEVATION 122.69 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244486.594 **EASTING** 784670.108
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 16 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Sean Driscoll
WELL SCREEN: **INTERVAL** 16 ft. to 21 ft.
WATER LEVEL 112.54 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	Feet BGS	Feet AMSL	PID (ppm)
0							
2	NS			Vacuum extracted for utility clearance on 11/2/10 to 10 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 10 ft bgs. No samples collected.			NS
4	NS						
6	NS						
8	NS						
10	NS						
12	10-12	21-9-19-20 (28)	42	Medium dense, gray fine SAND and SILT, trace fine to medium gravel and clay (Till)	12.0	110.7	
14	12-14	31-27-26-30 (53)	88	Very dense, gray SAND and SILT, trace coarse gravel (Till)			
16	NS			Rollerbit, drive and wash 4" casing to 18 ft bgs. Rollerbit to 20 ft bgs.			
18	NS			Till with Cobbles and Boulders			
20	NS				20.0	102.7	
22	20-25		90	R-1: 20 ft bgs to 25 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 90%, RQD = 100%			
24							



Bottom of borehole at 25.0 feet.

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BORING/WELL NO.: MW-32S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/30/10 **COMPLETED** 11/30/10
SURFACE ELEVATION 122.69 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244487.05 **EASTING** 784675.1
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Sean Driscoll
WELL SCREEN: **INTERVAL** 5 ft. to 12 ft.
WATER LEVEL 113.59 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 11/1/10 to 9.75 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 10.5 ft bgs. Rollerbit to 12 ft bgs. No samples collected.	Roadbox, Cement, Grout	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-32 for Geologic Description.	2" Schedule 40 PVC Riser	6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS	12.0 / 110.7	2" Schedule 40 PVC 10 Slot Screen	12

Bottom of borehole at 12.0 feet.

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BORING/WELL NO.: MW-33

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/30/10 **COMPLETED** 12/1/10
SURFACE ELEVATION 122.4 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244659.47 **EASTING** 784581.068
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 18 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 18 ft. to 24 ft.
WATER LEVEL 112.54 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
	NS			Vacuum extracted for utility clearance on 10/28/10 to 10 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 14.5 ft bgs. Rollerbit to 15 ft bgs. No samples collected.	
2					
	NS				
4					
	NS				
6					
	NS				
8					
	NS				
10					
	NS				
12					
	NS				
14					
	NS			15.0 Split spoons driven with 300 lbs. hammer. 107.4	
16	15-17	2-14-30-40 (44)	50	Dense, gray fine to coarse SAND, some silt, trace fine to medium gravel, saturated (Till)	7.8
18	17-19	31-33-31-50 (64)	100	Very dense, gray fine to coarse SAND, some silt and fine to medium gravel, saturated (Till)	7.1
20	NS			Lost drilling water at 21 ft bgs. Rollerbit, drive and Wash 4" casing to 23 ft bgs. Rollerbit to 24.5 ft bgs.	
22	NS			Till with Cobbles and Boulders	
24	NS			24.5 97.9	
26	24.5-29.5		50	R-1: 24.5 ft bgs to 29.5 ft bgs. Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock). Run Length = 5 ft, Recovery = 50%, RQD = 100%	
28					

WELL DIAGRAM — Casing Type: PVC

- Roadbox
- Cement
- Grout
- 2" Schedule 40 PVC Riser
- Bentonite Seal
- No. 00 Fine Sand Filter
- No. 1 Sand Filter
- 2" Schedule 40 PVC 10 Slot Screen
- Bentonite Seal

Bottom of borehole at 29.5 feet.

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BORING/WELL NO.: MW-33S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/1/10 **COMPLETED** 12/1/10
SURFACE ELEVATION 122.42 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244663.866 **EASTING** 784580.881
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 5 ft. to 14 ft.
WATER LEVEL 115.02 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/27/10 to 10 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 10 ft bgs. Rollerbit to 14.5 ft bgs. No samples collected.	Roadbox Cement 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-33 for Geologic Description.	No. 00 Fine Sand Filter	6
8	NS		No. 1 Sand Filter	8
10	NS		2" Schedule 40 PVC 10 Slot Screen	10
12	NS			12
14	NS			14
		14.5 / 107.9		

Bottom of borehole at 14.5 feet.

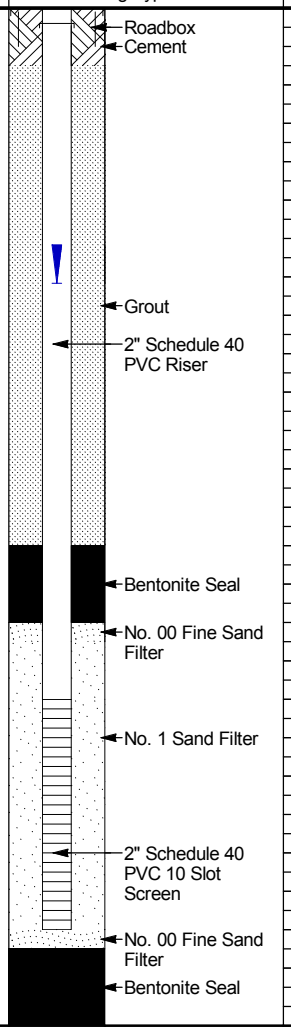
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Monitoring Well No.: MW-34

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/2/10 **COMPLETED** 12/3/10
SURFACE ELEVATION 120.14 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244838.421 **EASTING** 784854.351
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 18 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 18 ft. to 24 ft.
WATER LEVEL 112.97 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 10/28/10 to 10 ft bgs and backfilled with No.1 sand to ground surface. Rollerbit, drive and wash 5" casing to 11 ft bgs. Rollerbit to 12 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	NS			Split spoons driven with 300 lbs. hammer.	
14	12-14	25-55	25	Very Dense, gray fine to coarse SAND, some silt, trace fine to medium gravel, saturated (Till) 14.0 / 106.1	0.0
16	14-16	13-50	25	Very dense, gray fine to coarse SAND, some fine to medium gravel and silt, saturated (Till)	0.0
18	NS			Rollerbit, drive and wash 4" casing to 24 ft bgs.	
20	NS				
22	NS			Lost drilling water at 20 ft bgs. Till with Cobbles and Boulders	
24	NS			24.0 / 96.1	
26	24-26.5		100	R-1: 24 ft bgs to 26.5 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 2.5 ft, Recovery = 100%, RQD = 100%	

Bottom of borehole at 26.5 feet.



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BORING/WELL NO.: MW-34S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/3/10 **COMPLETED** 12/3/10
SURFACE ELEVATION 120.2 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244838.042 **EASTING** 784849.781
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5.5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 5.5 ft. to 14.5 ft.
WATER LEVEL 118.50 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM
0		Feet BGS / Feet AMSL	Casing Type: PVC
2	NS	Vacuum extracted for utility clearance on 10/28/10 to 10 ft bgs and backfilled with No.1 sand to ground surface. Rollerbit, drive and wash 4" casing to 11 ft bgs. Rollerbit to 14.5 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser
4	NS		Bentonite Seal
6	NS	See Boring/Well Log No. MW-34 for Geologic Description.	No. 00 Fine Sand Filter
8	NS		No. 1 Sand Filter
10	NS		2" Schedule 40 PVC 10 Slot Screen
12	NS		
14	NS		
		14.5 / 105.7	

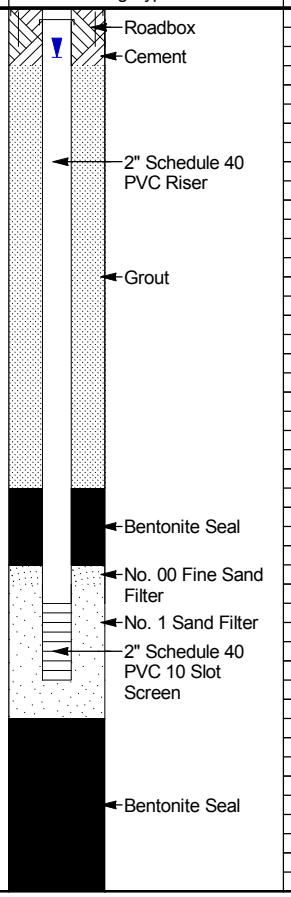
Bottom of borehole at 14.5 feet.

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Monitoring Well No.: MW-35

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/10/10 **COMPLETED** 11/11/10
SURFACE ELEVATION 119.43 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2245097.45 **EASTING** 785153.603
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 15.5 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 15.5 ft. to 17.5 ft.
WATER LEVEL 110.42 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL (Feet BGS / Feet AMSL)	PID (ppm)
0					
2	NS			Vacuum extracted for utility clearance on 10/27/10 to 10.5 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 11 ft bgs. No samples collected.	
4	NS				
6	NS				
8	NS				
10	NS				
12	11-13	11-11-44-17 (55)	25	Very dense, grey fine to medium SAND and SILT, some coarse gravel, trace clay, shale fragments (Till) 13.0 / 106.4	0.0
14	NS			Rollerbit, drive and wash 5" casing to 18 ft bgs. (Till with Cobbles and boulders)	
16	NS				
18	NS			18.0 / 101.4	
20	18-24		90	Installed 3" casing at 18 ft bgs for rock coring. R-1: 18 ft bgs to 23 ft bgs. Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock). Run Length = 5 ft, Recovery = 90%, RQD = 95%	
22					



Bottom of borehole at 23.0 feet.

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BORING/WELL NO.: MW-35S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/11/10 **COMPLETED** 11/11/10
SURFACE ELEVATION 119.65 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2245097.065 **EASTING** 785149.518
DRILLING METHOD Drive and Wash - 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 3 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 3 ft. to 12 ft.
WATER LEVEL 111.63 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/27/10 to 10.5 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 12 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser; Bentonite Seal; No. 00 Fine Sand Filter	2
4	NS			4
6	NS	See Boring/Well Log No. MW-35 for Geologic Description.	2" Schedule 40 PVC 10 Slot Screen	6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS	12.0 / 107.7		12

Bottom of borehole at 12.0 feet.

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BORING/WELL NO.: MW-36

PROJECT Pfizer - Rouses Point, NY | **PROJECT NUMBER** 206910

DATE STARTED 12/1/10 | **COMPLETED** 12/1/10 | **SURFACE ELEVATION** 118.7 ft | **DATUM** NAVD88

CONTRACTOR Parratt-Wolff | **DRILLER** Mickey Marshall | **NORTHING** 2244700.539 | **EASTING** 785252.912

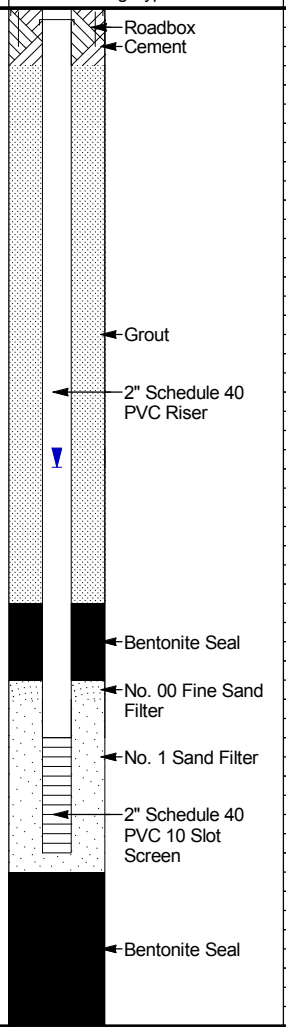
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing | **WELL CASING:** **INTERVAL** 0 ft. to 19 ft.

SAMPLING METHOD Split Spoon / NX Core | **TYPE** PVC | **DIAMETER** 2 in.

GEOLOGIST/ENGINEER Sean Driscoll | **WELL SCREEN:** **INTERVAL** 19 ft. to 22 ft.

WATER LEVEL 106.50 ft | **DATE MEASURED** 12/15/2010 | **TYPE** PVC Slotted | **DIAMETER** 2 in. | **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 10/29/10 to 11 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 10 ft bgs. No samples collected.	NS
4	NS				
6	NS				
8	NS				
10	NS				
12	10-12	3-4-4-10 (8)	50	Loose, brown coarse GRAVEL, wet Loose, brown fine SAND and SILT, some clay, trace coarse sand and gravel, wet	
14	12-14	7-12-12-10 (24)	75	Medium dense, brown fine SAND and SILT, some clay, trace coarse sand and gravel, wet (Till)	
16	14-16	20-21-16-12 (37)	0	Medium dense, gray fine SAND and SILT, trace coarse sand and gravel, wet (Till) 15.0 / 103.7 Rock in tip of split spoon	
18	16-18	21-20-12-12 (32)	63	Dense, gray fine SAND and SILT, trace coarse sand and gravel, wet (Till)	
20	18-20	42-20-18-57 (38)	50	Dense, gray fine SAND and SILT, trace coarse sand and gravel, wet (Till)	
22	NS			Rollerbit, drive and wash 4" casing to 21.5 ft bgs. 21.5 / 97.2 Till with Cobbles and Boulders	
24	21.5-26.5		80	R-1: 21.5 ft bgs to 26.5 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 80%, RQD = 100%	
26					



Bottom of borehole at 26.5 feet.

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BORING/WELL NO.: MW-36S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 12/1/10 **COMPLETED** 12/2/10
SURFACE ELEVATION 118.71 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244700.542 **EASTING** 785257.124
DRILLING METHOD Drive and Wash - 4 in. casing
WELL CASING: **INTERVAL** 0 ft. to 5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Sean Driscoll
WELL SCREEN: **INTERVAL** 5 ft. to 15 ft.
WATER LEVEL 108.29 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 10/28/10 to 10.25 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 4" casing to 12 ft bgs. Rollerbit to 15.5 ft bgs. No samples collected.	Roadbox Cement 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-36 for Geologic Description.		6
8	NS		No. 1 Sand Filter	8
10	NS			10
12	NS		2" Schedule 40 PVC 10 Slot Screen	12
14	NS			14
	NS	15.5 / 103.2		

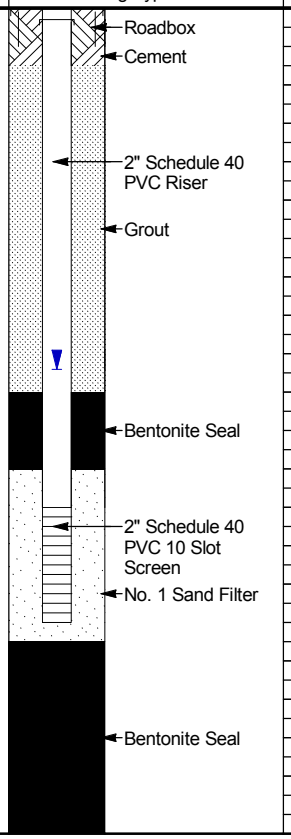
Bottom of borehole at 15.5 feet.

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BORING/WELL NO.: MW-37

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/17/10 **COMPLETED** 11/18/10
SURFACE ELEVATION 117.05 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244516.312 **EASTING** 785311.189
DRILLING METHOD Drive and Wash - 4 in. and 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 13 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Tom Wollen
WELL SCREEN: **INTERVAL** 13 ft. to 16 ft.
WATER LEVEL 107.36 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)
0				Feet BGS / Feet AMSL	
2	NS			Vacuum extracted for utility clearance on 11/2/10 to 10 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 10 ft bgs. No samples collected.	NS
4	NS				
6	NS				
8	NS				
10	NS				
10.3 / 106.8				Very dense, brown SAND, SILT, and GRAVEL (Till)	
12	10-12	19-27-50-65 (77)	63	Very dense, GRAVEL, SILT, and fine SAND (Till)	
14	NS			Rollerbit, drive and wash 4" casing to 16.5 ft bgs.	
16	NS			Till with Cobbles and Boulders	
16.5 / 100.6					
18	16.5-21.5		95	R-1: 16.5 ft bgs to 21.5 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 95%, RQD = 95%	
20					



Bottom of borehole at 21.5 feet.

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BORING/WELL NO.: MW-37S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/18/10 **COMPLETED** 11/19/10
SURFACE ELEVATION 117.17 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244515.787 **EASTING** 785303.802
DRILLING METHOD Drive and Wash - 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 4 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Tom Wollen
WELL SCREEN: **INTERVAL** 4 ft. to 10 ft.
WATER LEVEL 111.50 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 11/2/10 to 9.5 ft bgs and backfilled with native material to ground surface. Rollerbit, drive and wash 5" casing to 10 ft bgs. No samples collected.	Roadbox; Cement; 2" Schedule 40 PVC Riser	2
4	NS		Bentonite Seal	4
6	NS	See Boring/Well Log No. MW-37 for Geologic Description.	2" Schedule 40 PVC 10 Slot Screen	6
8	NS		No. 1 Sand Filter	8
10	NS	10.0 / 107.2		10

Bottom of borehole at 10.0 feet.

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BORING/WELL NO.: MW-38

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/9/10 **COMPLETED** 11/9/10
SURFACE ELEVATION 113.63 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244760.456 **EASTING** 785646.229
DRILLING METHOD Hollow Stem Auger
WELL CASING: **INTERVAL** 0 ft. to 10.5 ft.
SAMPLING METHOD Split Spoon / NX Core
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 10.5 ft. to 12.5 ft.
WATER LEVEL 104.66 ft **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	PHYSICAL DESCRIPTION OF SOIL	PID (ppm)	WELL DIAGRAM	DEPTH (ft)
0				Feet BGS / Feet AMSL		Casing Type: PVC	0
2	NS			Vacuum extracted for utility clearance on 11/3/10 to 8.75 ft bgs and backfilled with native material to ground surface. Auger to 9 ft bgs. No samples collected.	NS	Roadbox; Cement	2
4	NS						4
6	NS					Grout; 2" Schedule 40 PVC Riser	6
8	NS						8
	NS			9.0 / 104.6		Bentonite Seal	
10	9-11	100	0	Rock in tip of split spoon		No. 00 Fine Sand Filter; No. 1 Sand Filter	10
12	11-13	100	0	Rock in tip of split spoon		2" Schedule 40 PVC 10 Slot Screen	12
	13-15	100/2"	0	Till with Cobbles and Boulders 13.2 / 100.4 Rock in tip of split spoon		No. 00 Fine Sand Filter	
14							14
16	13.2-18.2		100	R-1 13.2 ft bgs to 18.2 ft bgs Hard, slightly weathered, aphanitic black SHALE, horizontal foliation (Bedrock) Run Length = 5 ft, Recovery = 100%, RQD = 90%		Bentonite Seal	16
18							18

Bottom of borehole at 18.2 feet.

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BORING/WELL NO.: MW-38S

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 11/9/10 **COMPLETED** 11/9/10
SURFACE ELEVATION 113.67 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Joe Percy
NORTHING 2244764.815 **EASTING** 785645.505
DRILLING METHOD Hollow Stem Auger
WELL CASING: **INTERVAL** 0 ft. to 3 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Scott Soricelli
WELL SCREEN: **INTERVAL** 3 ft. to 8 ft.
WATER LEVEL Dry @ 8.06 ft bmp **DATE MEASURED** 12/15/2010
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	Vacuum extracted for utility clearance on 11/3/10 to 8.5 ft bgs and backfilled with native material to ground surface. Auger to 8 ft bgs. No samples collected.	Roadbox, Cement, 2" Schedule 40 PVC Riser, Bentonite Seal, No. 00 Fine Sand Filter	2
4	NS			4
6	NS	See Boring/Well Log No. MW-38 for Geologic Description.	2" Schedule 40 PVC 10 Slot Screen	6
8	NS	8.0 / 105.7	No. 1 Sand Filter	8

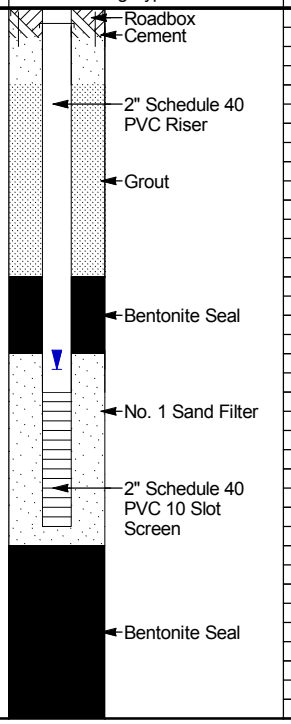
Bottom of borehole at 8.0 feet.

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BORING/WELL NO.: MW-39

PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 4/4/11 **COMPLETED** 4/5/11
SURFACE ELEVATION 112.38 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244368.487 **EASTING** 785676.856
DRILLING METHOD Drive and Wash - 5 in. casing
WELL CASING: **INTERVAL** 0 ft. to 10 ft.
SAMPLING METHOD 2 in. Split Spoon
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Jordan Coleman
WELL SCREEN: **INTERVAL** 10 ft. to 13.5 ft.
WATER LEVEL 9.41 ft **DATE MEASURED** 4/6/2011
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	BLOW COUNTS (N VALUE)	RECOVERY %	Feet BGS	PHYSICAL DESCRIPTION OF SOIL	Feet AMSL	PID (ppm)
0							
2	0-2	1-1-2-3 (3)	54	2.0	Very loose, brown fine SAND and SILT, little clay and organic material (grass/roots)	110.4	0
4	2-4	3-3-5-5 (8)	83	3.0	Loose, moist, brown SILT and fine SAND	109.4	
				4.0	Loose, brown, fine to medium SAND, little fine to medium gravel, trace silt	108.4	
6	4-6	3-6-9-10 (15)	100	6.0	Medium dense, brown fine to medium SAND, some silt, little fine to coarse gravel, trace clay	106.4	
8	6-8	8-10-12-16 (22)	92	8.0	Medium dense, moist, brown fine to medium SAND, some silt, little fine to medium gravel, trace clay	104.4	
10	8-10	44-27-17-19 (44)	50	10.0	Dense, brown, fine to medium SAND, some silt, little fine to medium gravel, trace clay, grey shale fragments (Till with cobbles and boulders)	102.4	
12	10-12	6-6-5-9 (11)	42	12.0	Medium dense, grey fine to coarse SAND, some silt, little fine to coarse gravel (Till with cobbles and boulders)	100.4	
14	12-14	12-50	33	14.0	Very dense, Grey fine to coarse SAND, some silt, little fine to coarse gravel, shale fragments in tip (Till with cobbles and boulders)	98.4	
16	14-16	50-0	0		R-1: 14 ft bgs to 18.5 ft bgs (bedrock) Hard, slightly weathered, aphanitic black SHALE, horizontal foliation Run Length = 4.5 ft, Recovery = 93%, RQD = 59.7 %		
18				18.5		93.9	



Bottom of borehole at 18.5 feet.

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BORING/WELL NO.: MW-39S

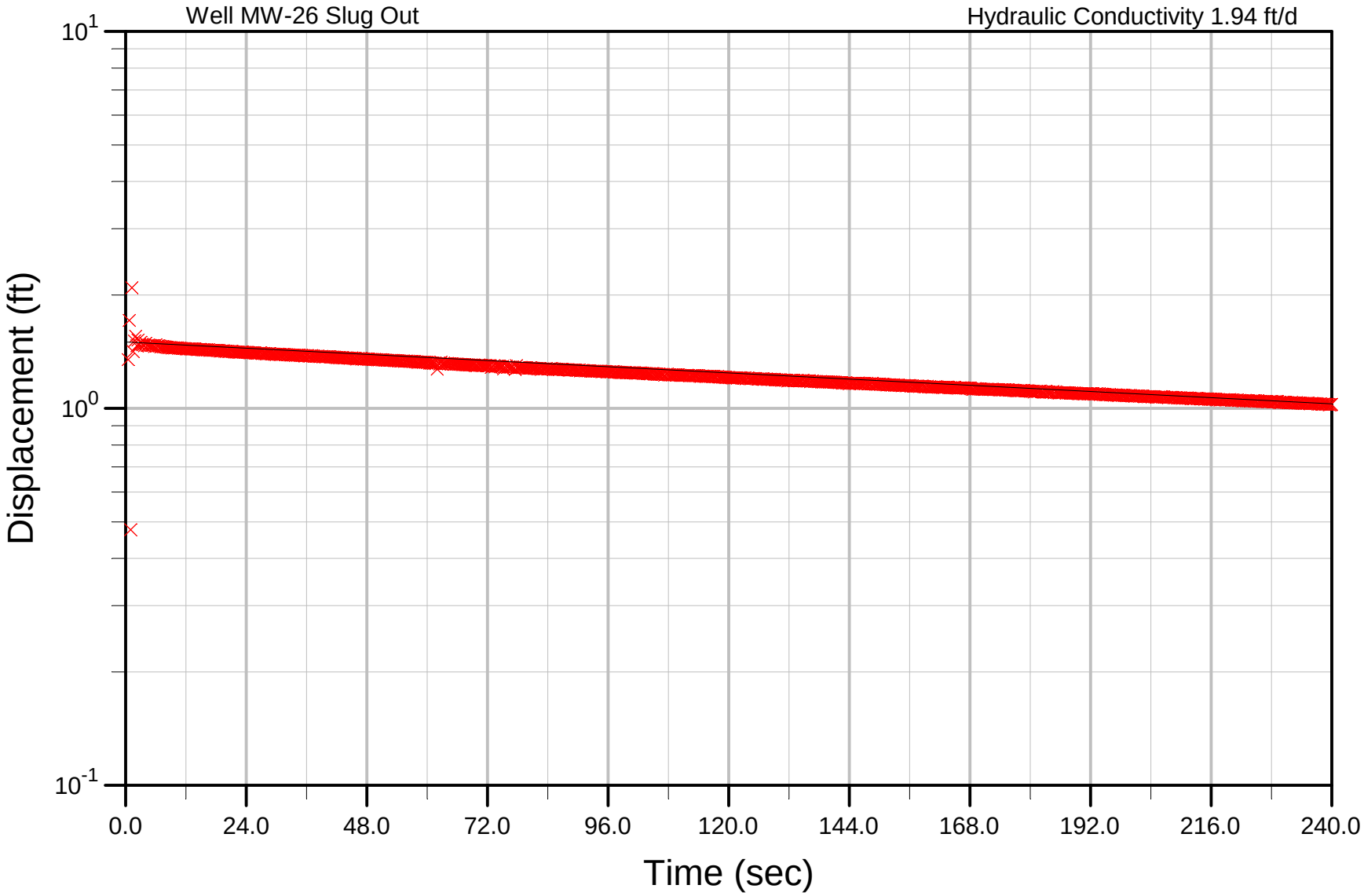
PROJECT Pfizer - Rouses Point, NY
PROJECT NUMBER 206910
DATE STARTED 4/5/11 **COMPLETED** 4/5/11
SURFACE ELEVATION 112.34 ft **DATUM** NAVD88
CONTRACTOR Parratt-Wolff **DRILLER** Mickey Marshall
NORTHING 2244369.41 **EASTING** 785682.318
DRILLING METHOD 4.25 in. Hollow Stem Auger
WELL CASING: **INTERVAL** 0 ft. to 3.5 ft.
SAMPLING METHOD Not Sampled
TYPE PVC **DIAMETER** 2 in.
GEOLOGIST/ENGINEER Jordan Coleman
WELL SCREEN: **INTERVAL** 3.5 ft. to 7.5 ft.
WATER LEVEL DRY **DATE MEASURED** 4/6/2011
TYPE PVC Slotted **DIAMETER** 2 in. **SIZE** 0.010 in.

DEPTH (ft)	SAMPLE INTERVAL (ft)	PHYSICAL DESCRIPTION OF SOIL	WELL DIAGRAM	DEPTH (ft)
0		Feet BGS / Feet AMSL	Casing Type: PVC	0
2	NS	See Boring/Well Log No. MW-39 for Geologic Description.	Roadbox Cement 2" Schedule 40 PVC Riser Bentonite Seal	2
4	NS			4
6	NS		No. 1 Sand Filter	6
8	NS	8.0 / 104.3	2" Schedule 40 PVC 10 Slot Screen	8

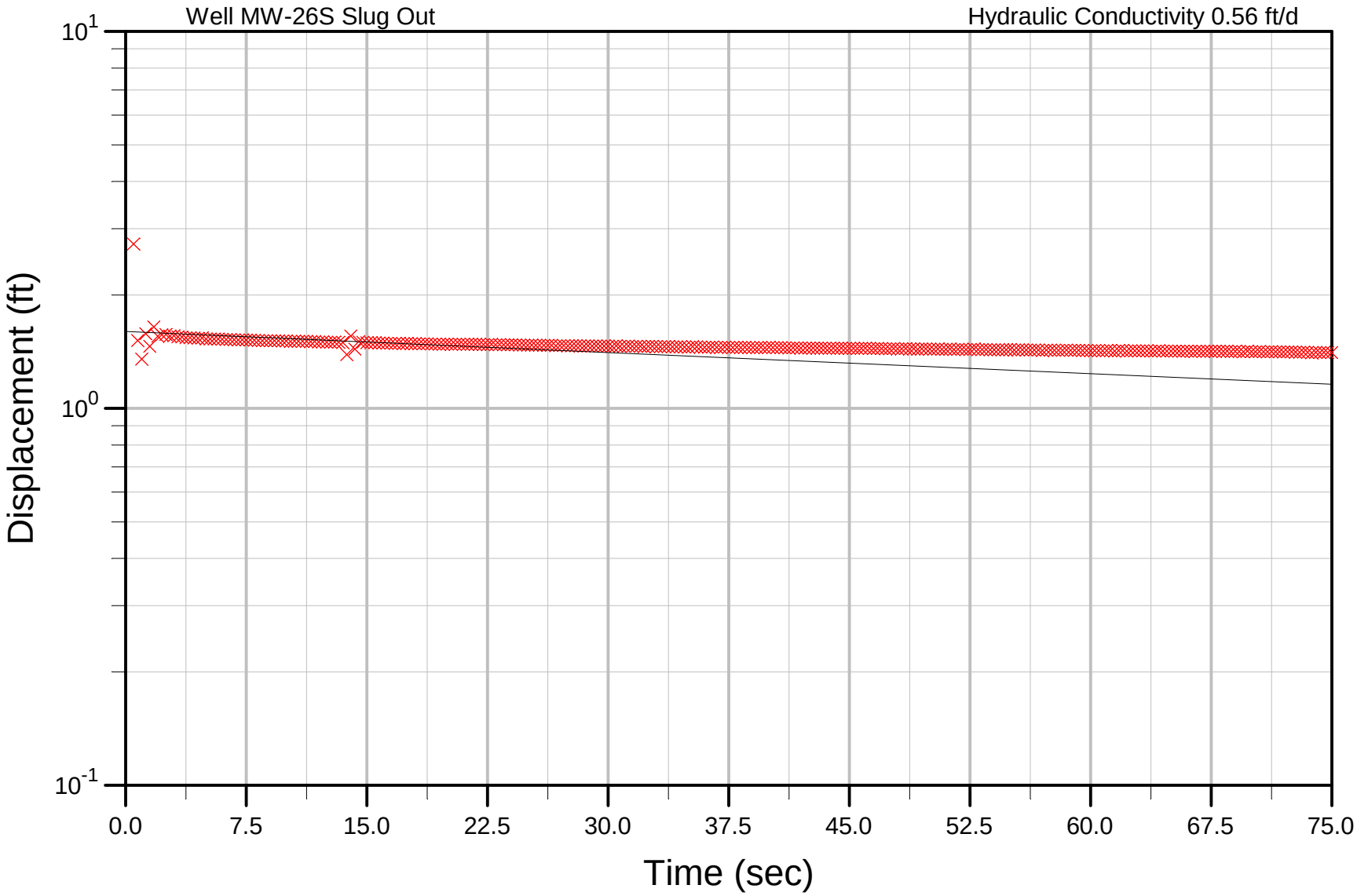
Bottom of borehole at 8.0 feet.

APPENDIX C: HYDRAULIC CONDUCTIVITY TESTING RESULTS

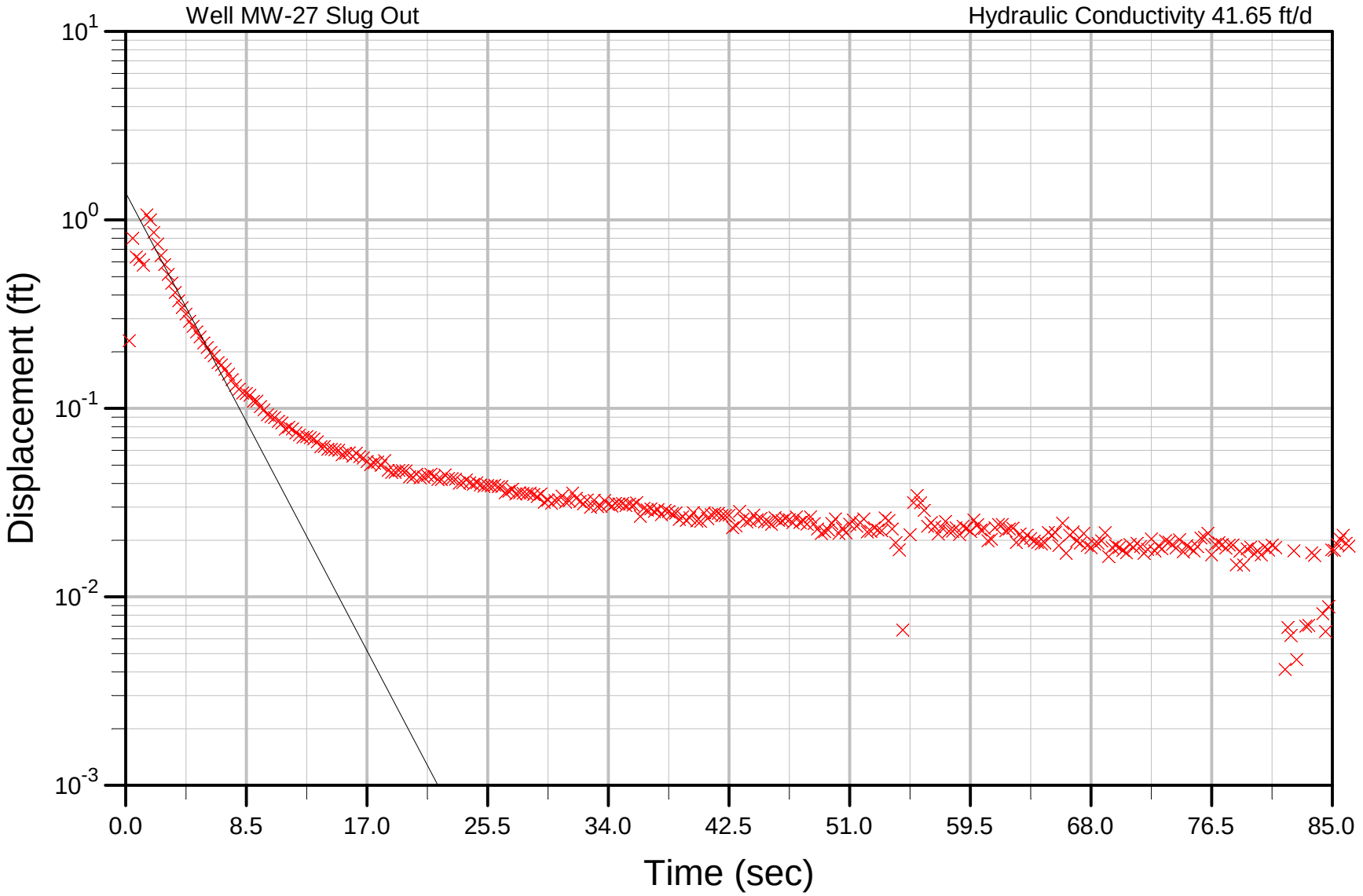
Bouwer & Rice


Well MW-26 Slug Out
Hydraulic Conductivity 1.94 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
24.0
48.0
72.0
96.0
120.0
144.0
168.0
192.0
216.0
240.0
Time (sec)

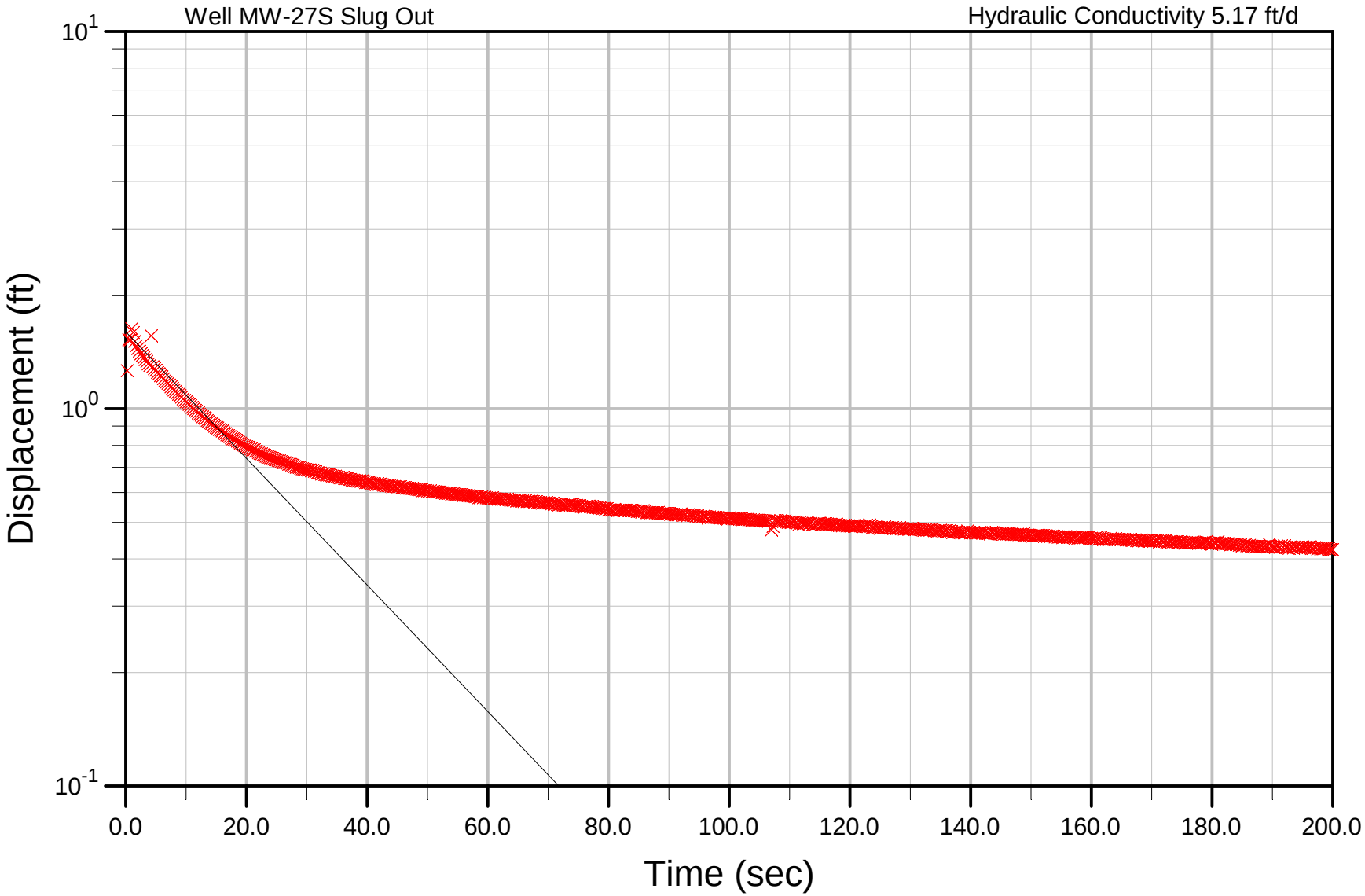
Bouwer & Rice


Well MW-26S Slug Out
Hydraulic Conductivity 0.56 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
7.5
15.0
22.5
30.0
37.5
45.0
52.5
60.0
67.5
75.0
Time (sec)

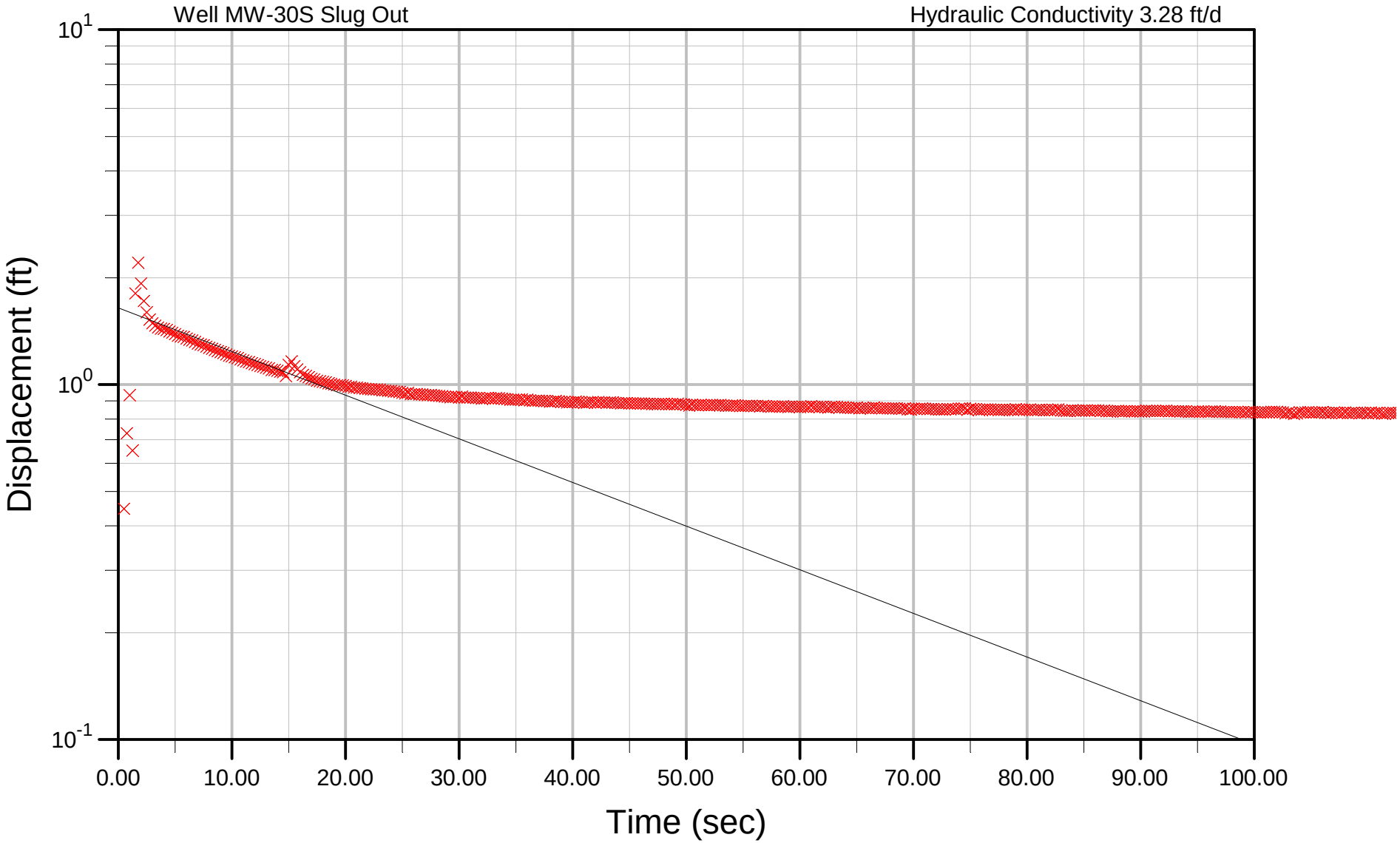
Bouwer & Rice


Well MW-27 Slug Out
Hydraulic Conductivity 41.65 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
10^-3
0.0
8.5
17.0
25.5
34.0
42.5
51.0
59.5
68.0
76.5
85.0
Time (sec)

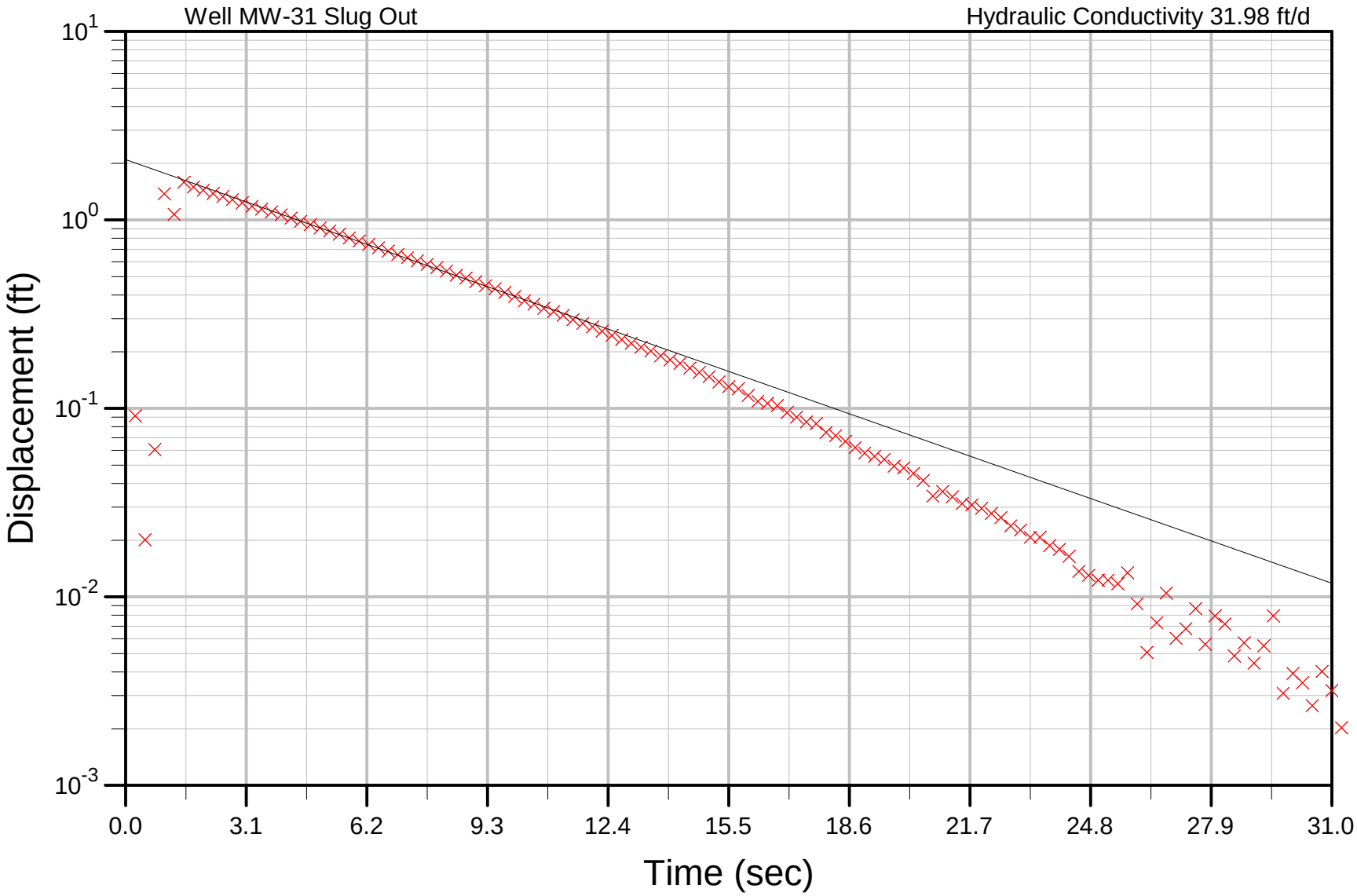
Bouwer & Rice


Well MW-27S Slug Out
Hydraulic Conductivity 5.17 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
200.0
Time (sec)

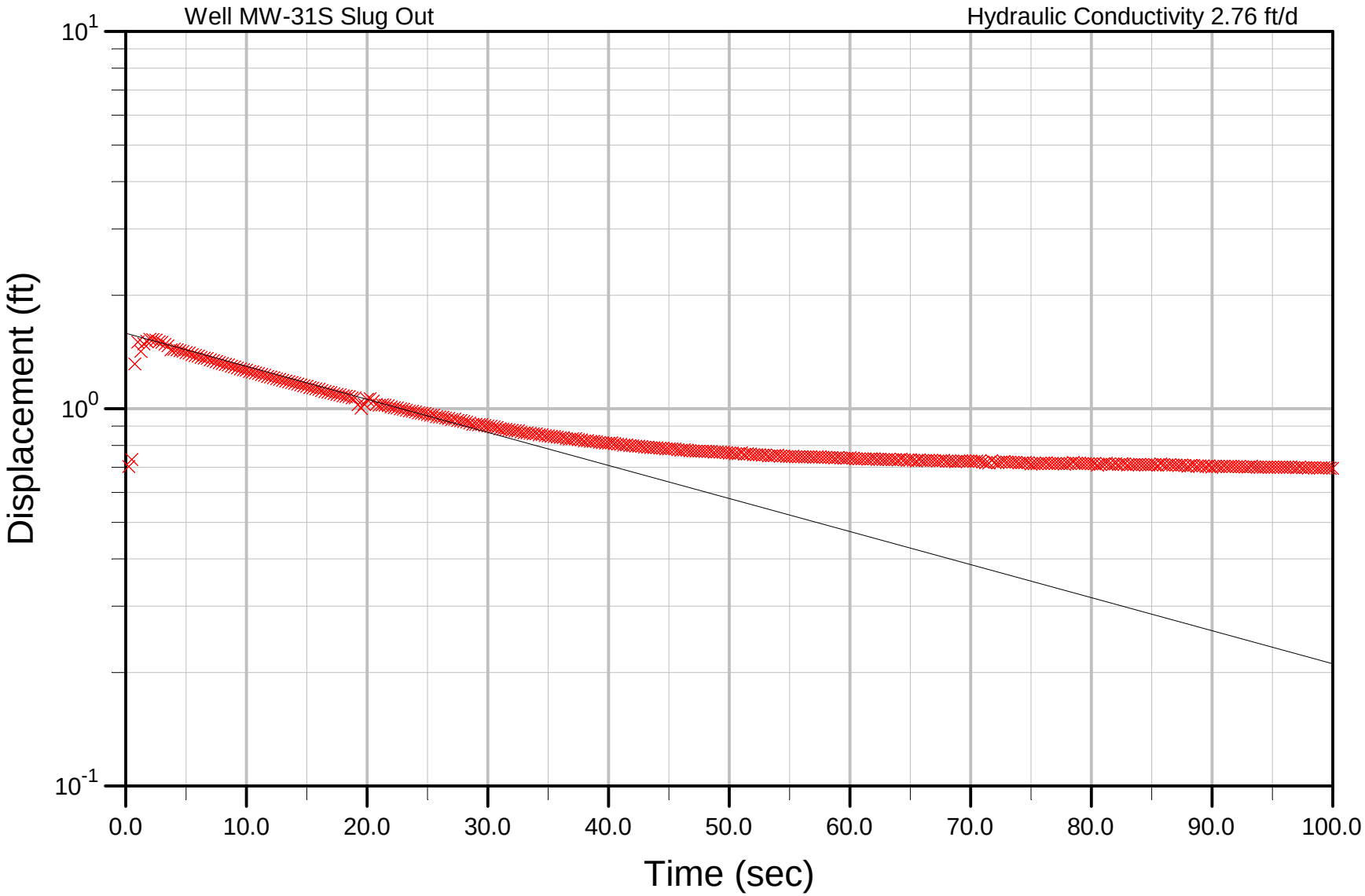
Bouwer & Rice


Well MW-30S Slug Out
Hydraulic Conductivity 3.28 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00
Time (sec)

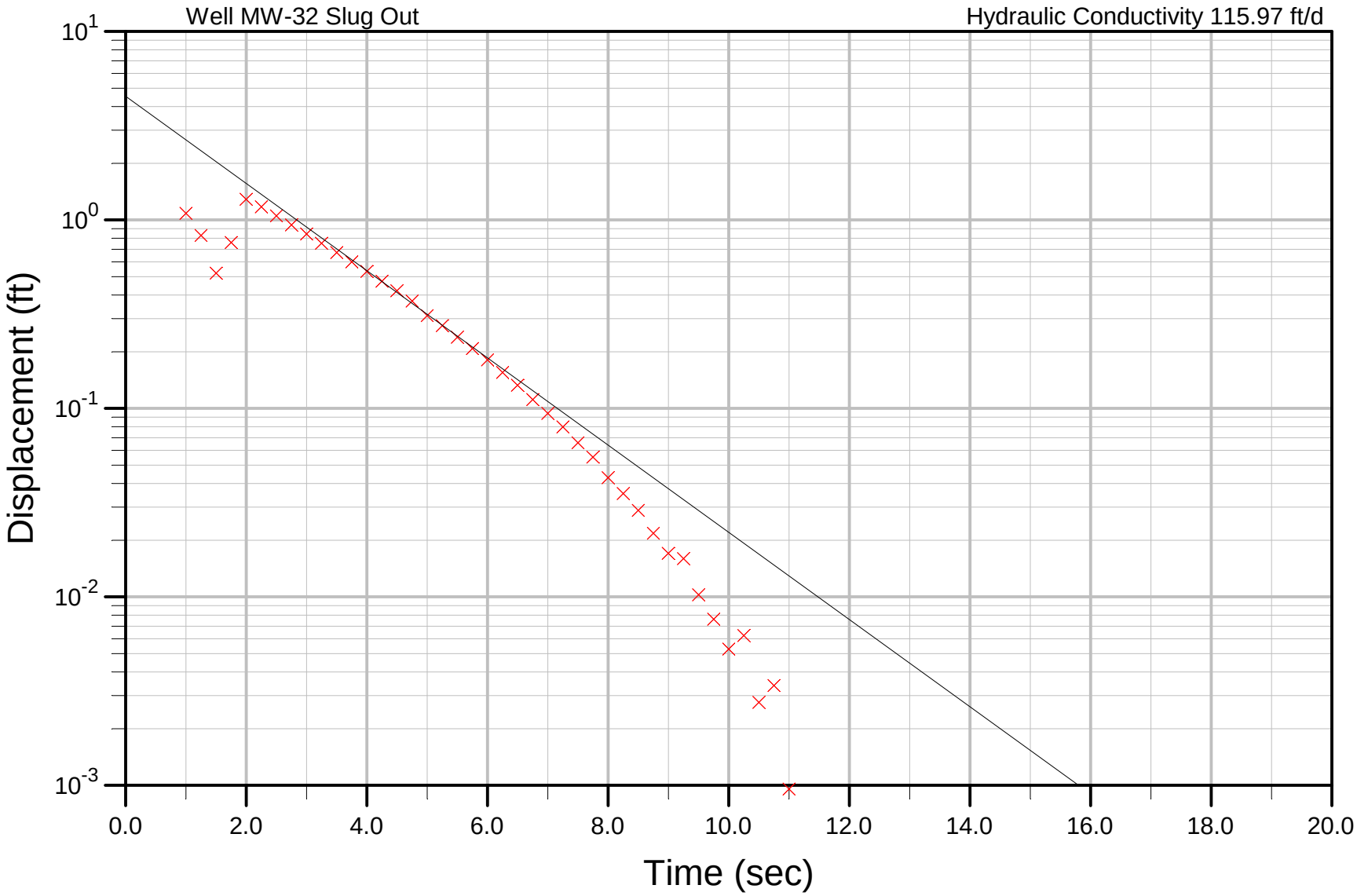
Bouwer & Rice


Well MW-31 Slug Out
Hydraulic Conductivity 31.98 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
10^-3
0.0
3.1
6.2
9.3
12.4
15.5
18.6
21.7
24.8
27.9
31.0
Time (sec)

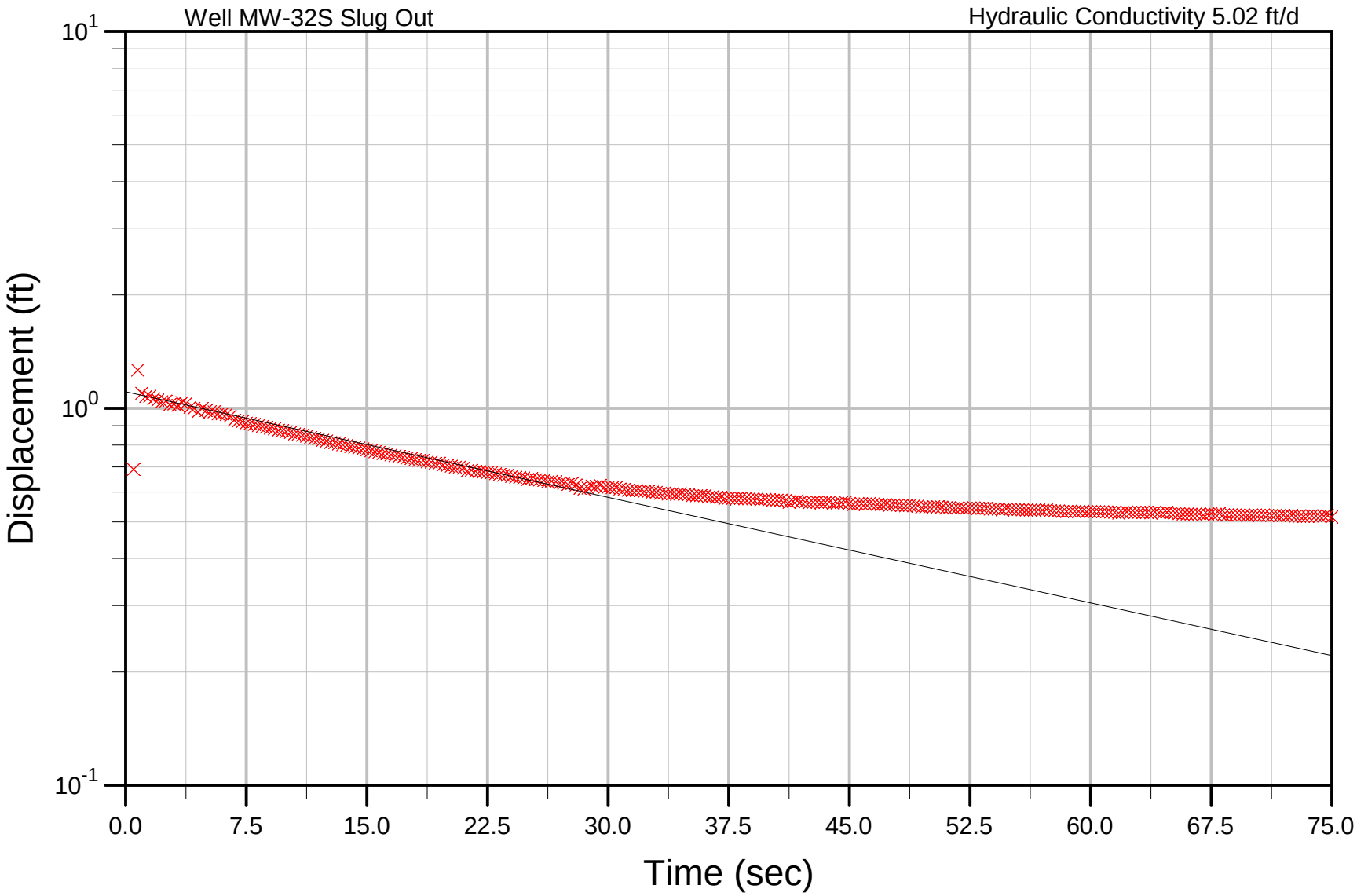
Bouwer & Rice


Well MW-31S Slug Out
Hydraulic Conductivity 2.76 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

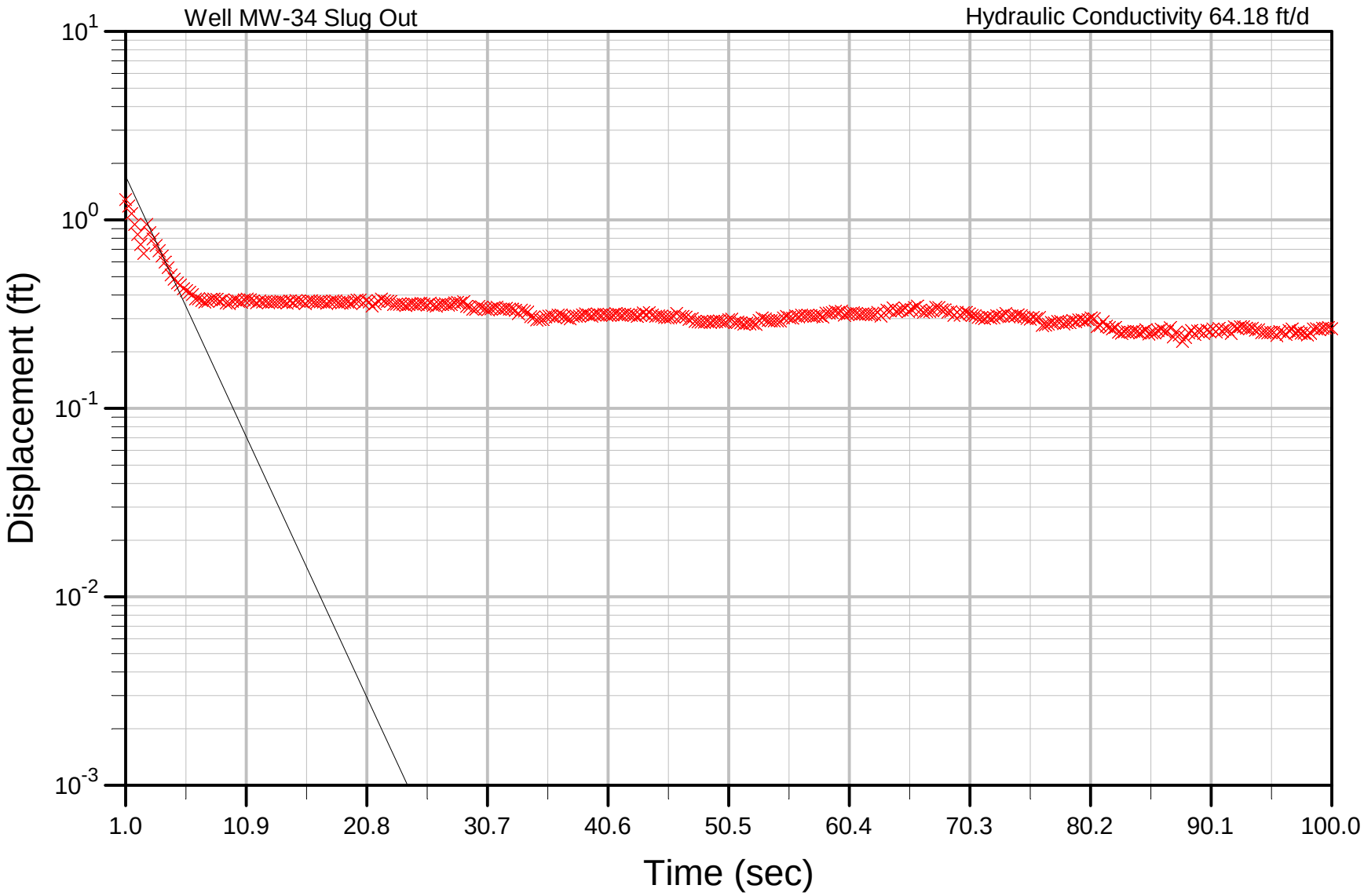
Bouwer & Rice


Well MW-32 Slug Out
Hydraulic Conductivity 115.97 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
10^-3
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
20.0
Time (sec)

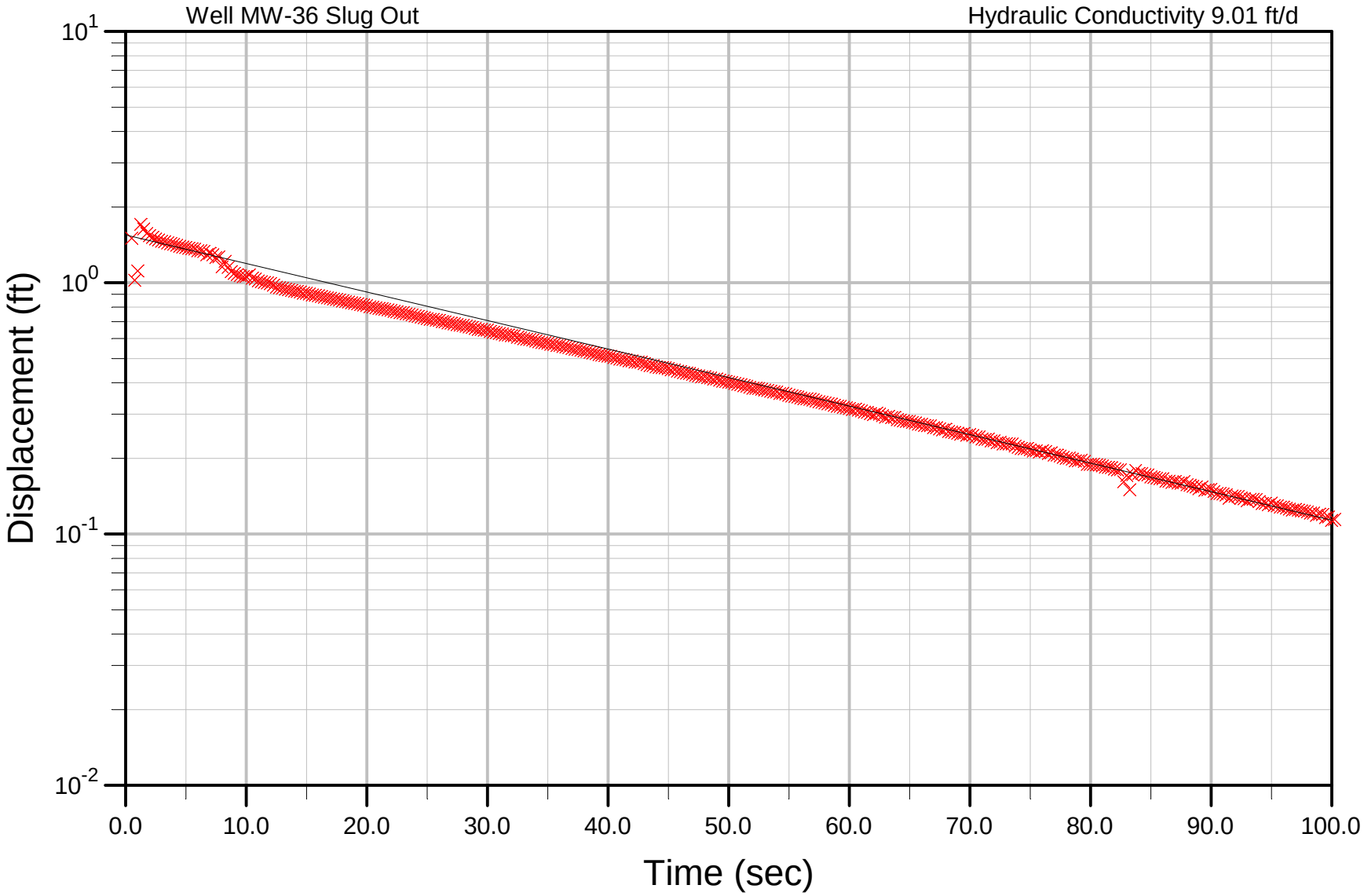
Bouwer & Rice


Well MW-32S Slug Out
Hydraulic Conductivity 5.02 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
7.5
15.0
22.5
30.0
37.5
45.0
52.5
60.0
67.5
75.0
Time (sec)

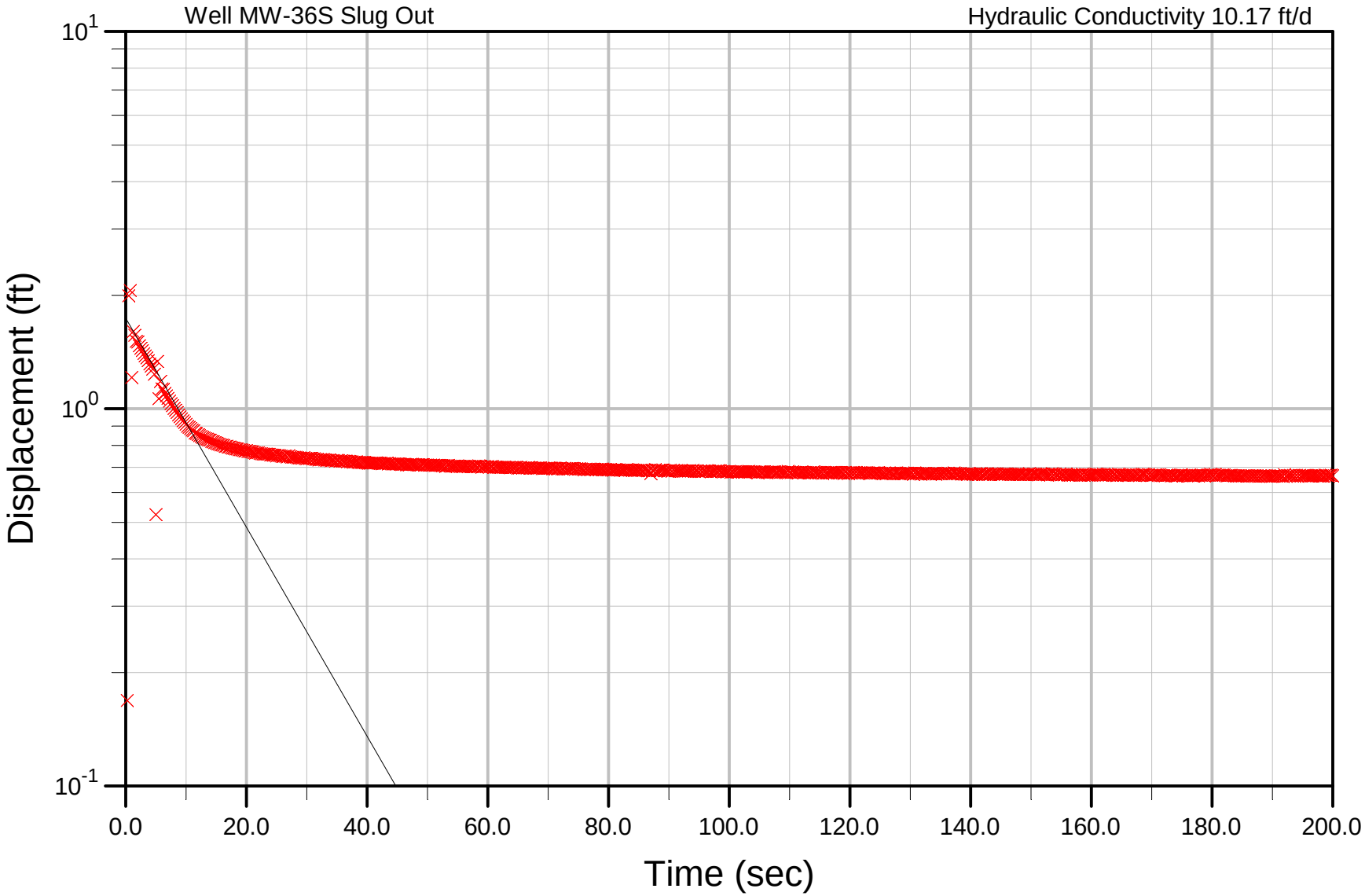
Bouwer & Rice


Well MW-34 Slug Out
Hydraulic Conductivity 64.18 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
10^-3
1.0
10.9
20.8
30.7
40.6
50.5
60.4
70.3
80.2
90.1
100.0
Time (sec)

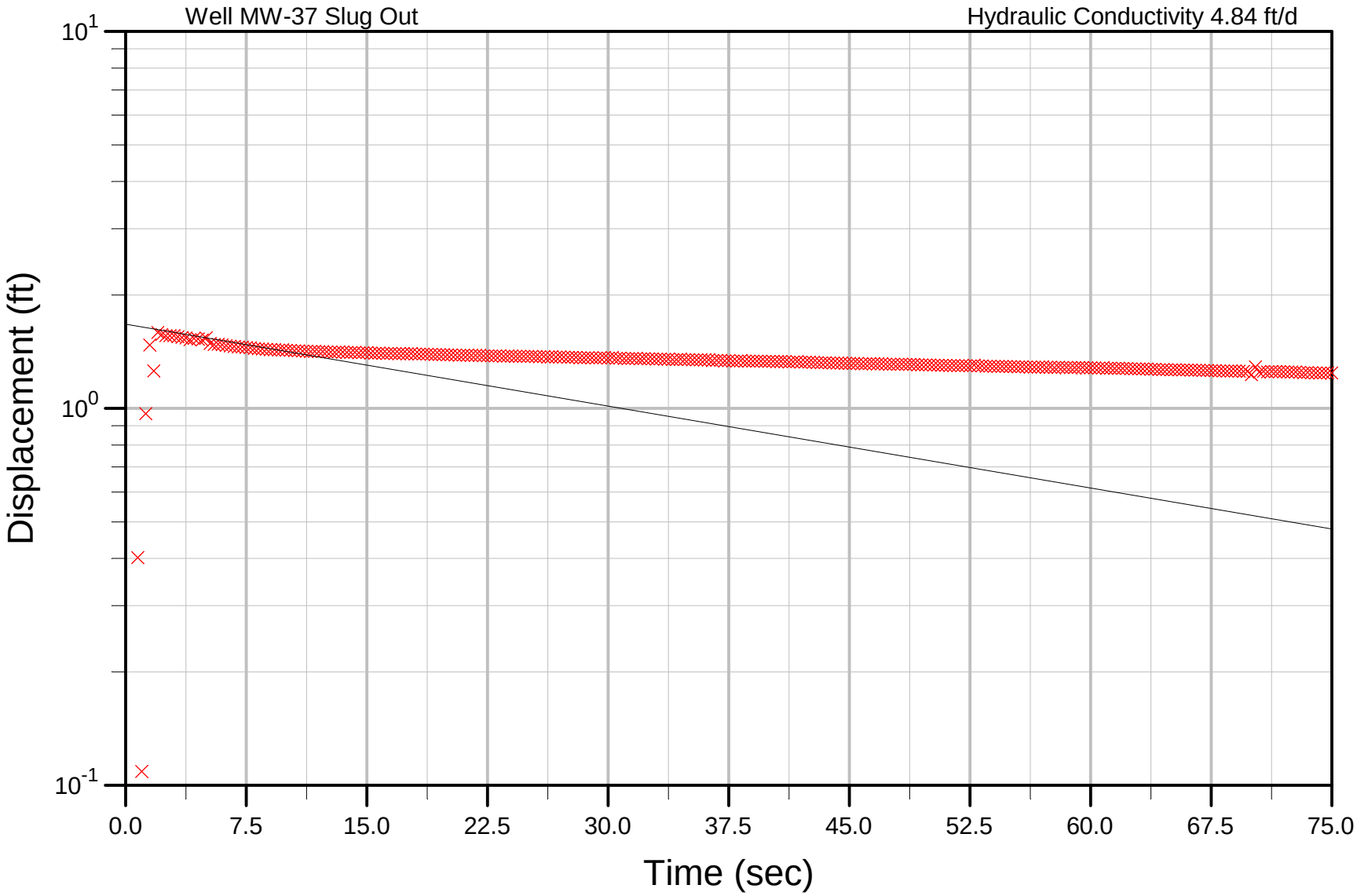
Bouwer & Rice


Well MW-36 Slug Out
Hydraulic Conductivity 9.01 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

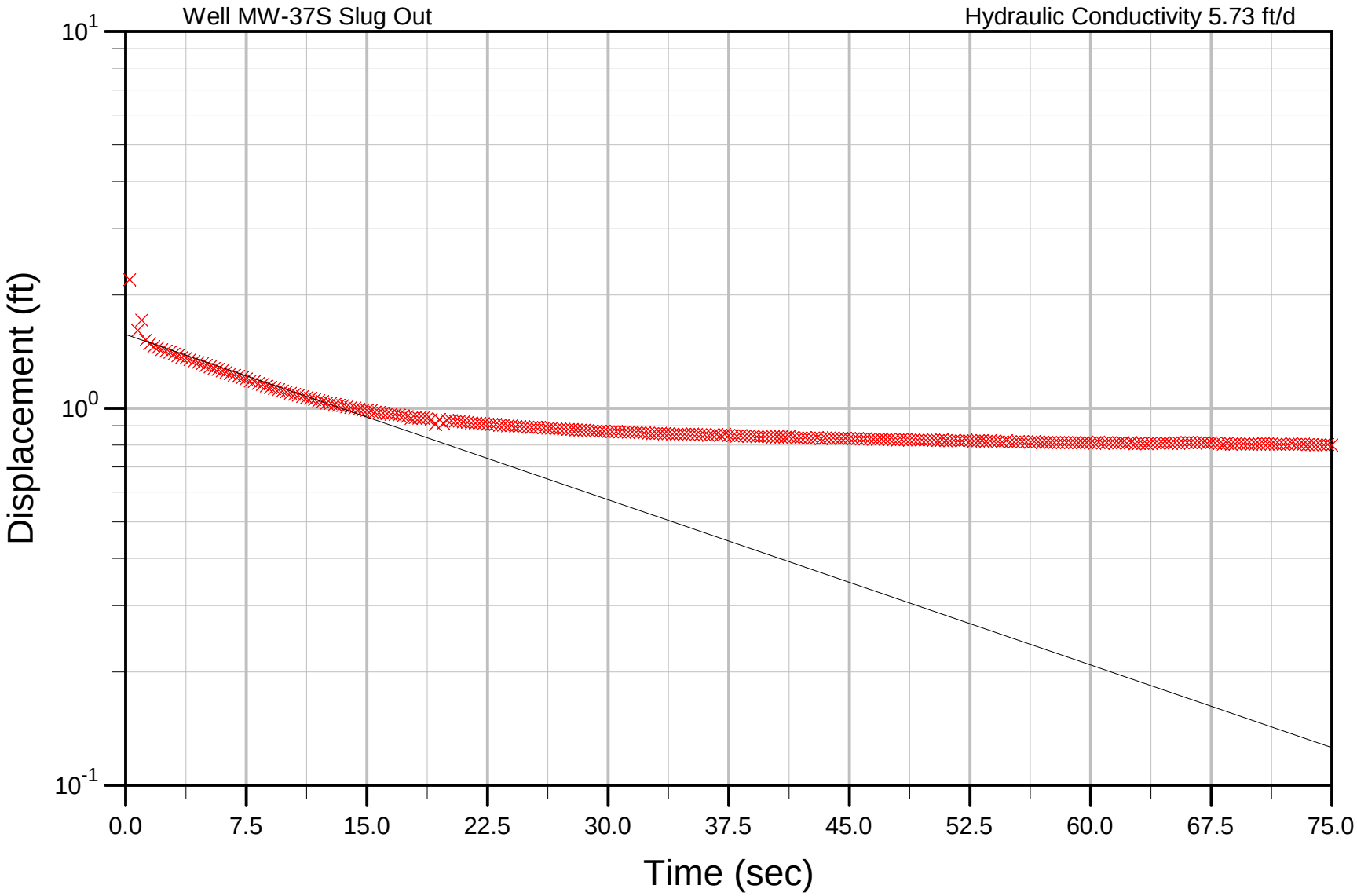
Bouwer & Rice


Well MW-36S Slug Out
Hydraulic Conductivity 10.17 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
200.0
Time (sec)

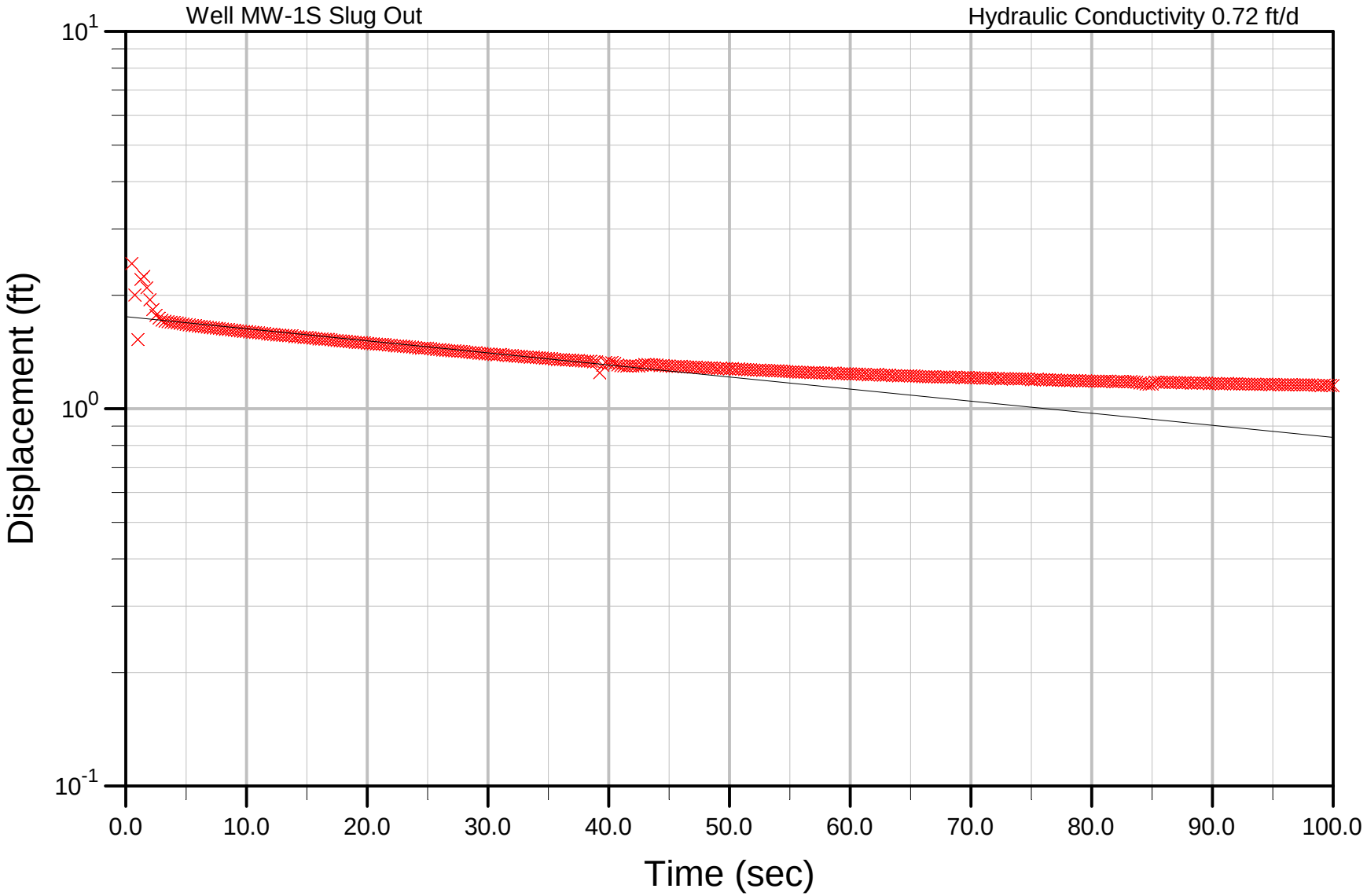
Bouwer & Rice


Well MW-37 Slug Out
Hydraulic Conductivity 4.84 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
7.5
15.0
22.5
30.0
37.5
45.0
52.5
60.0
67.5
75.0
Time (sec)

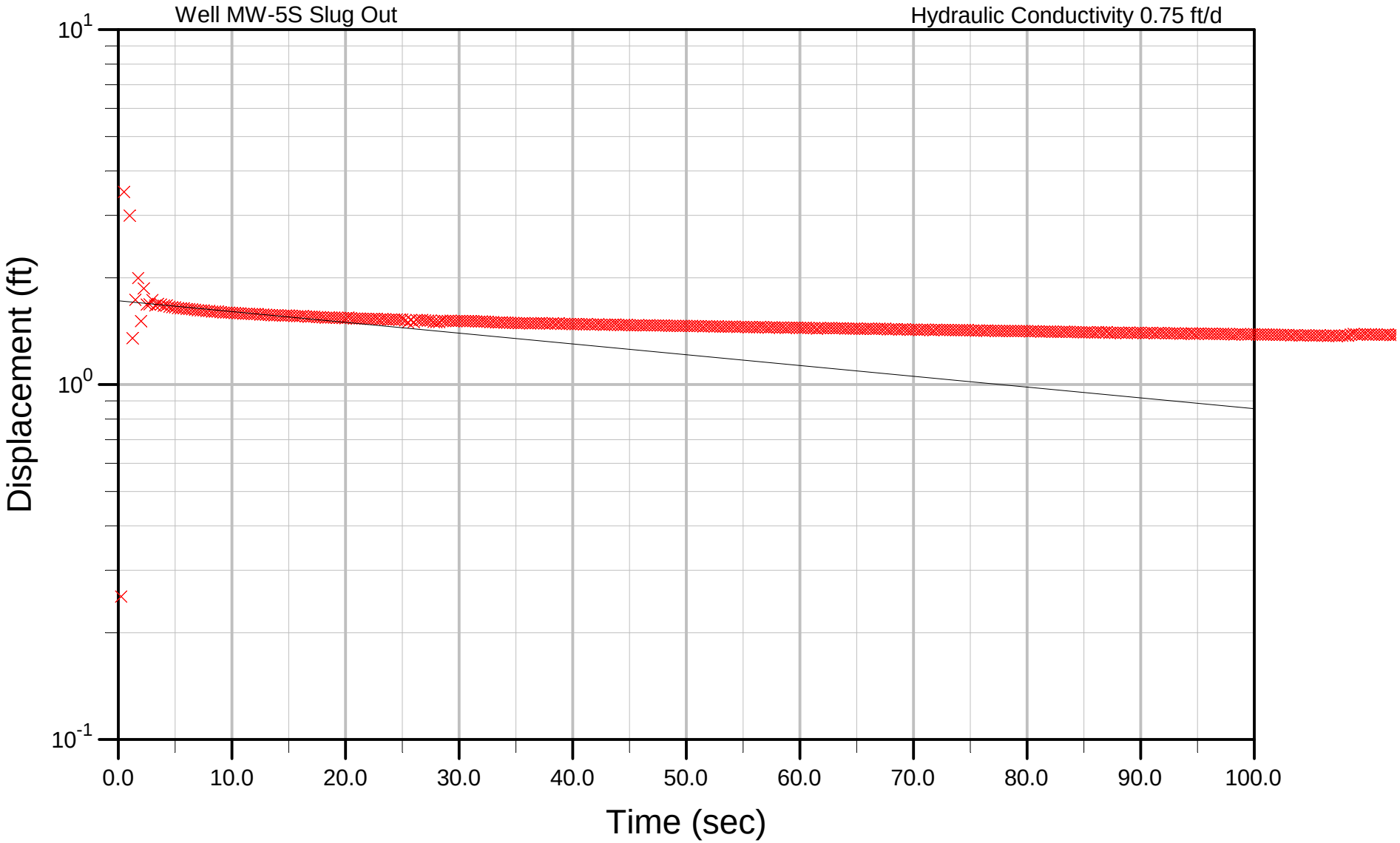
Bouwer & Rice


Well MW-37S Slug Out
Hydraulic Conductivity 5.73 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
7.5
15.0
22.5
30.0
37.5
45.0
52.5
60.0
67.5
75.0
Time (sec)

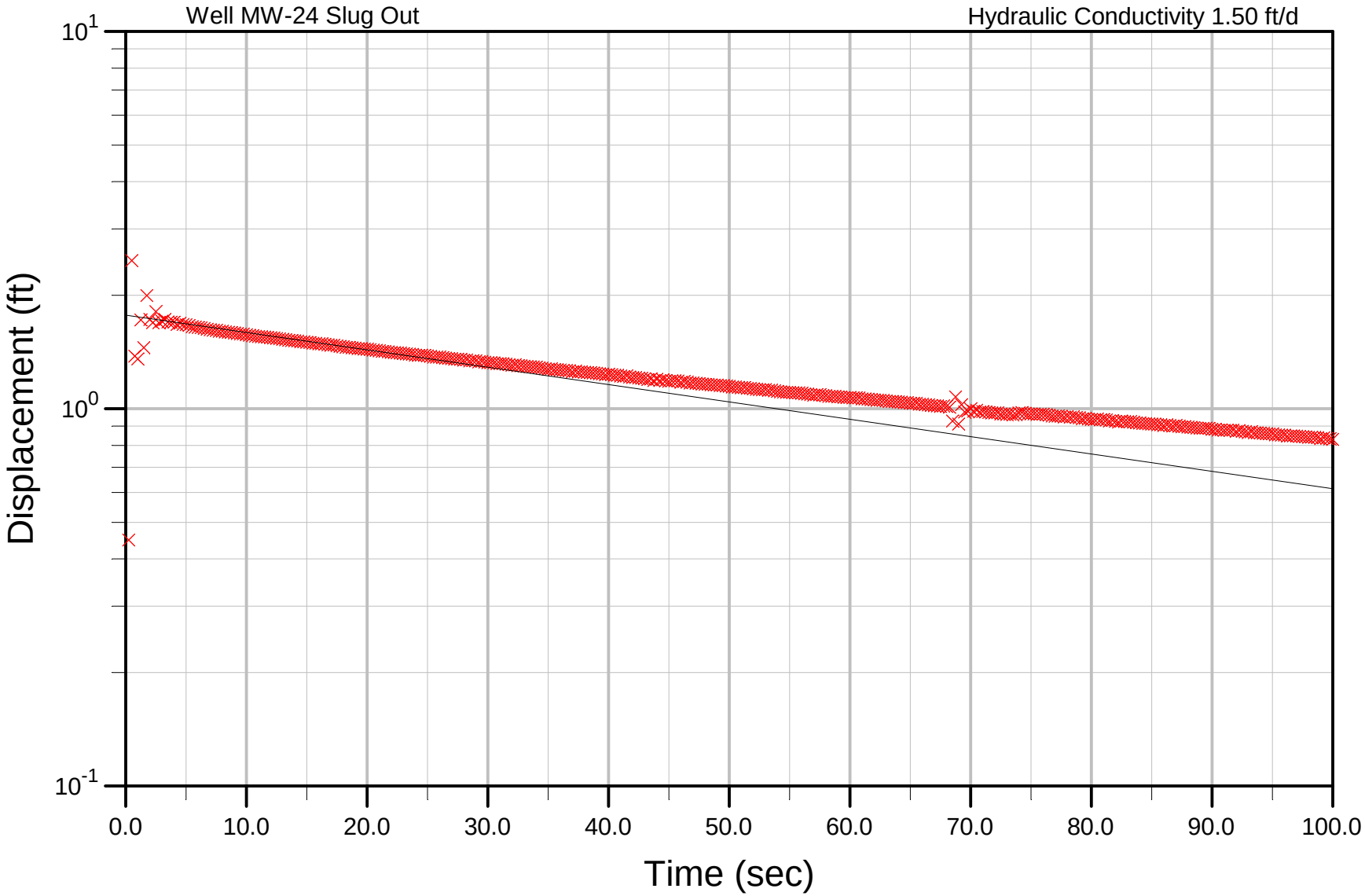
Bouwer & Rice


Well MW-1S Slug Out
Hydraulic Conductivity 0.72 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

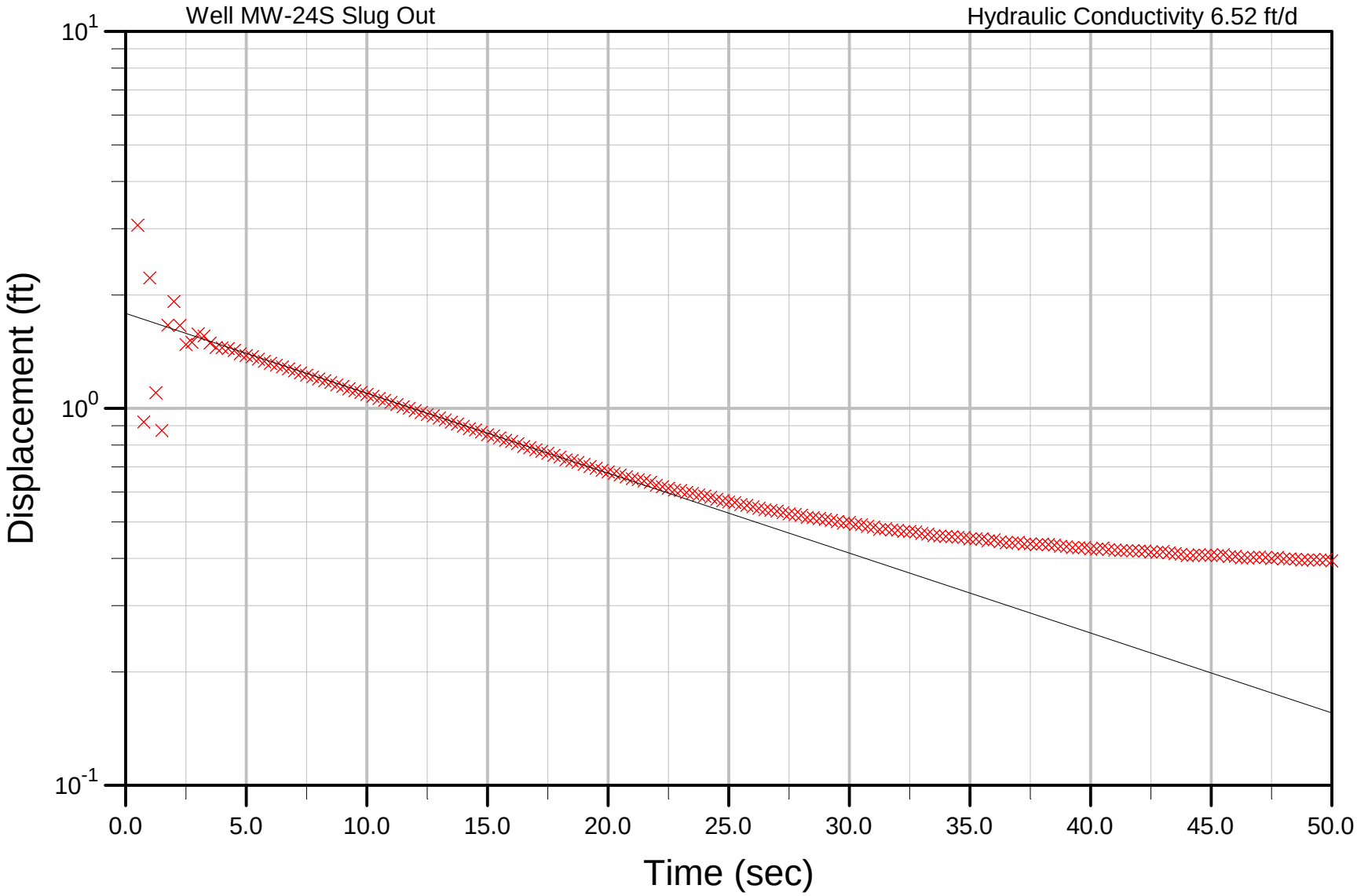
Bouwer & Rice


Well MW-5S Slug Out
Hydraulic Conductivity 0.75 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

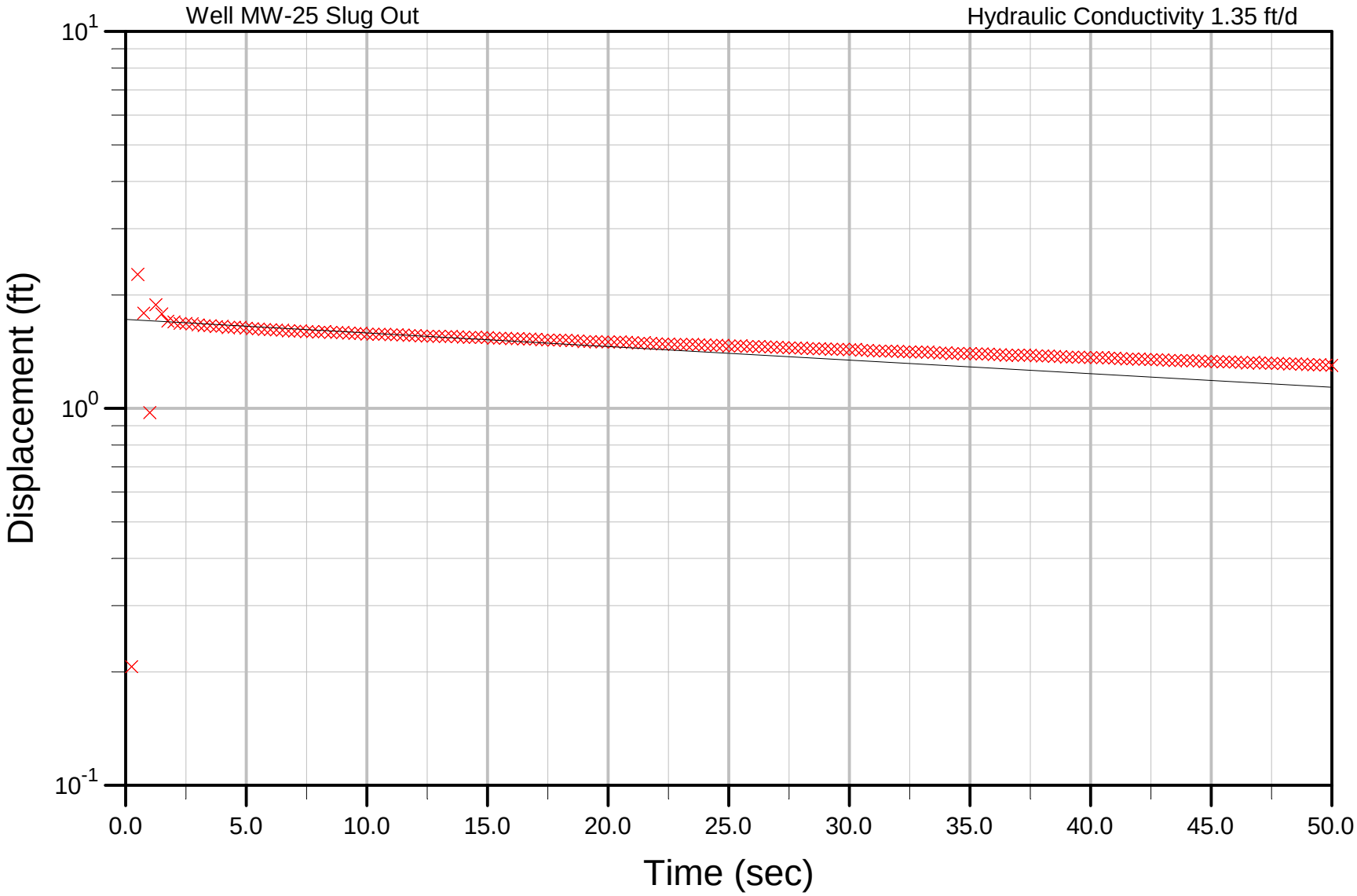
Bouwer & Rice


Well MW-24 Slug Out
Hydraulic Conductivity 1.50 ft/d
Displacement (ft)
10^{1}
10^{0}
10^{-1}
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

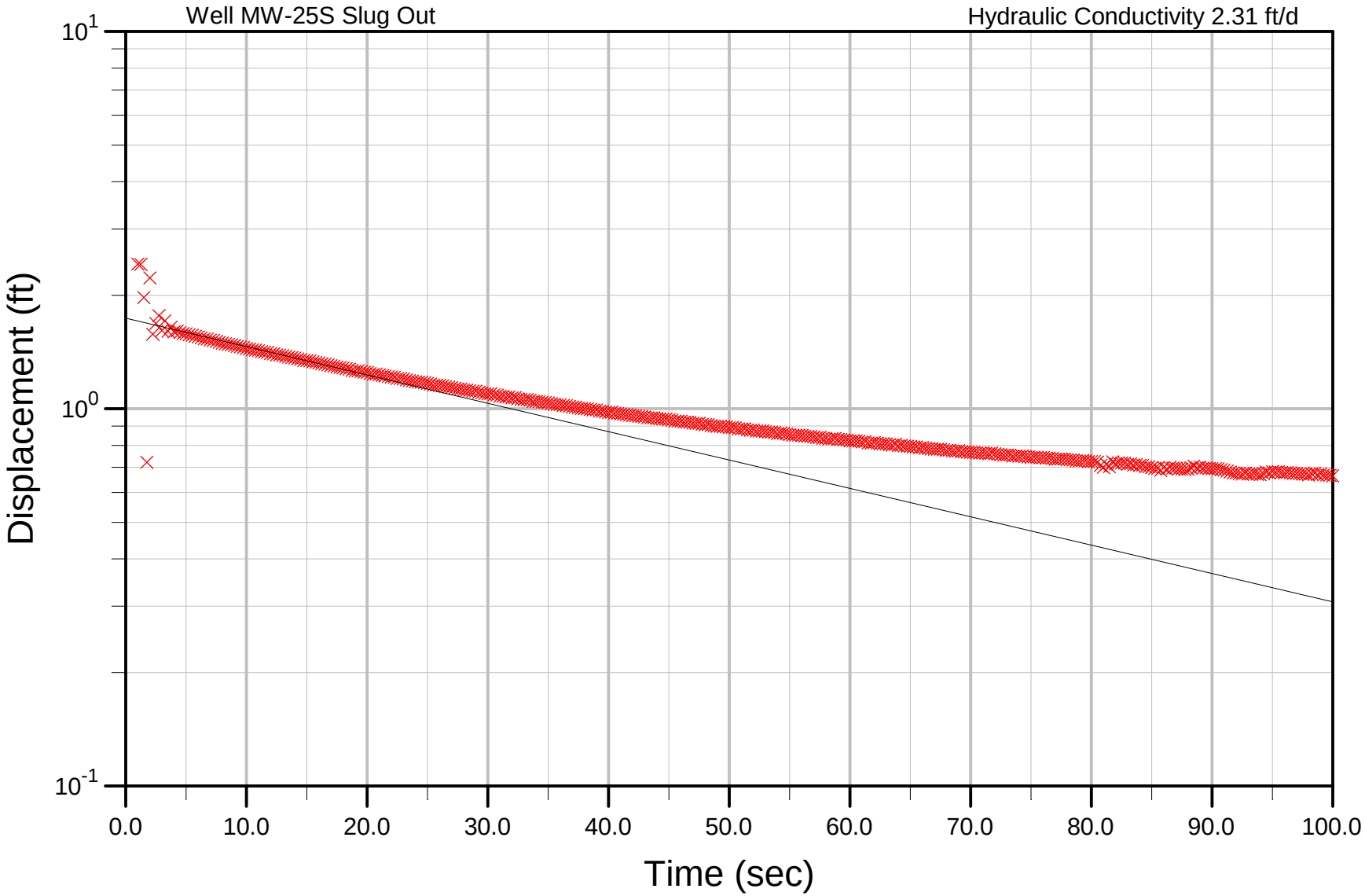
Bouwer & Rice


Well MW-24S Slug Out
Hydraulic Conductivity 6.52 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

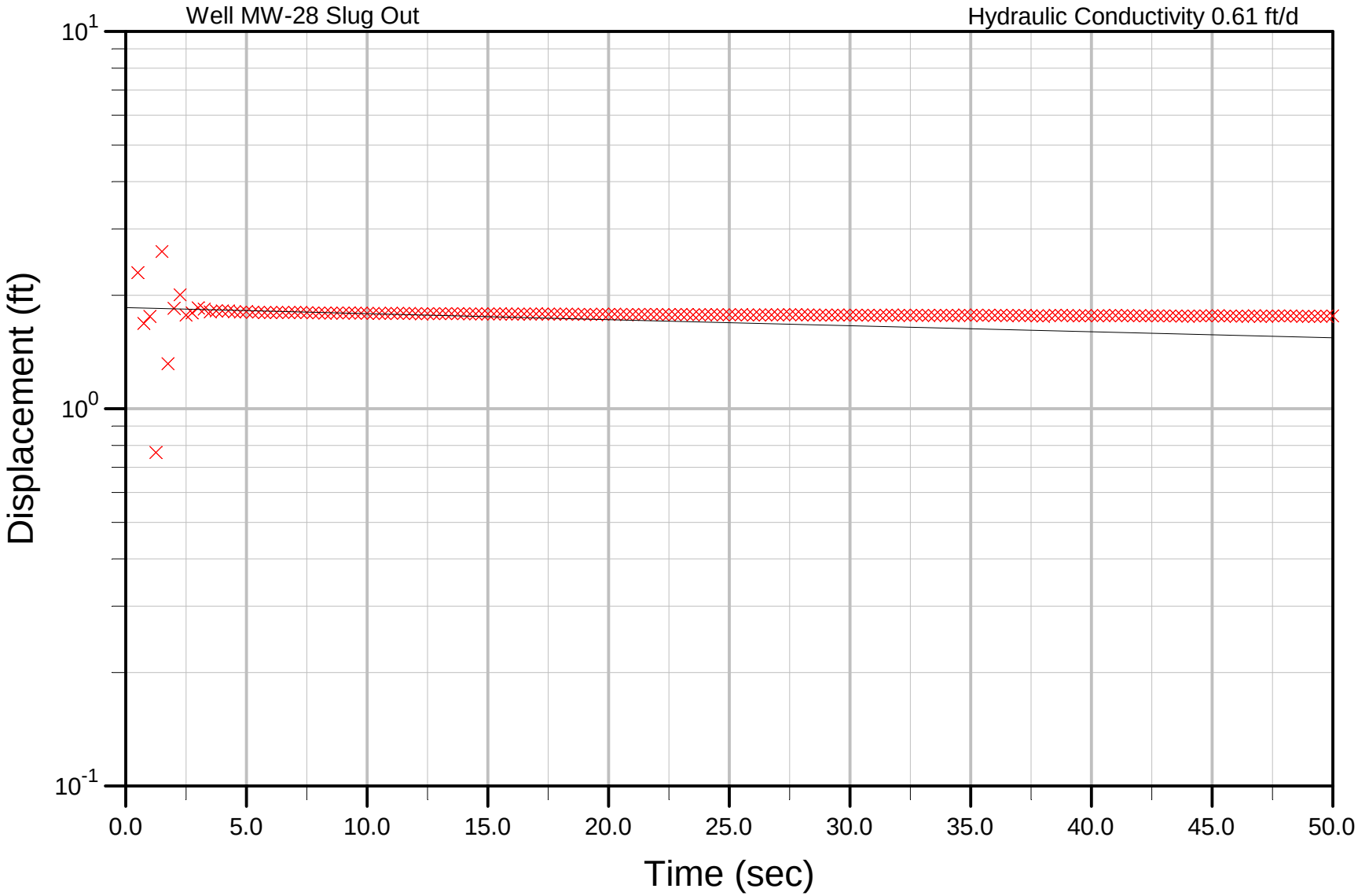
Bouwer & Rice


Well MW-25 Slug Out
Hydraulic Conductivity 1.35 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

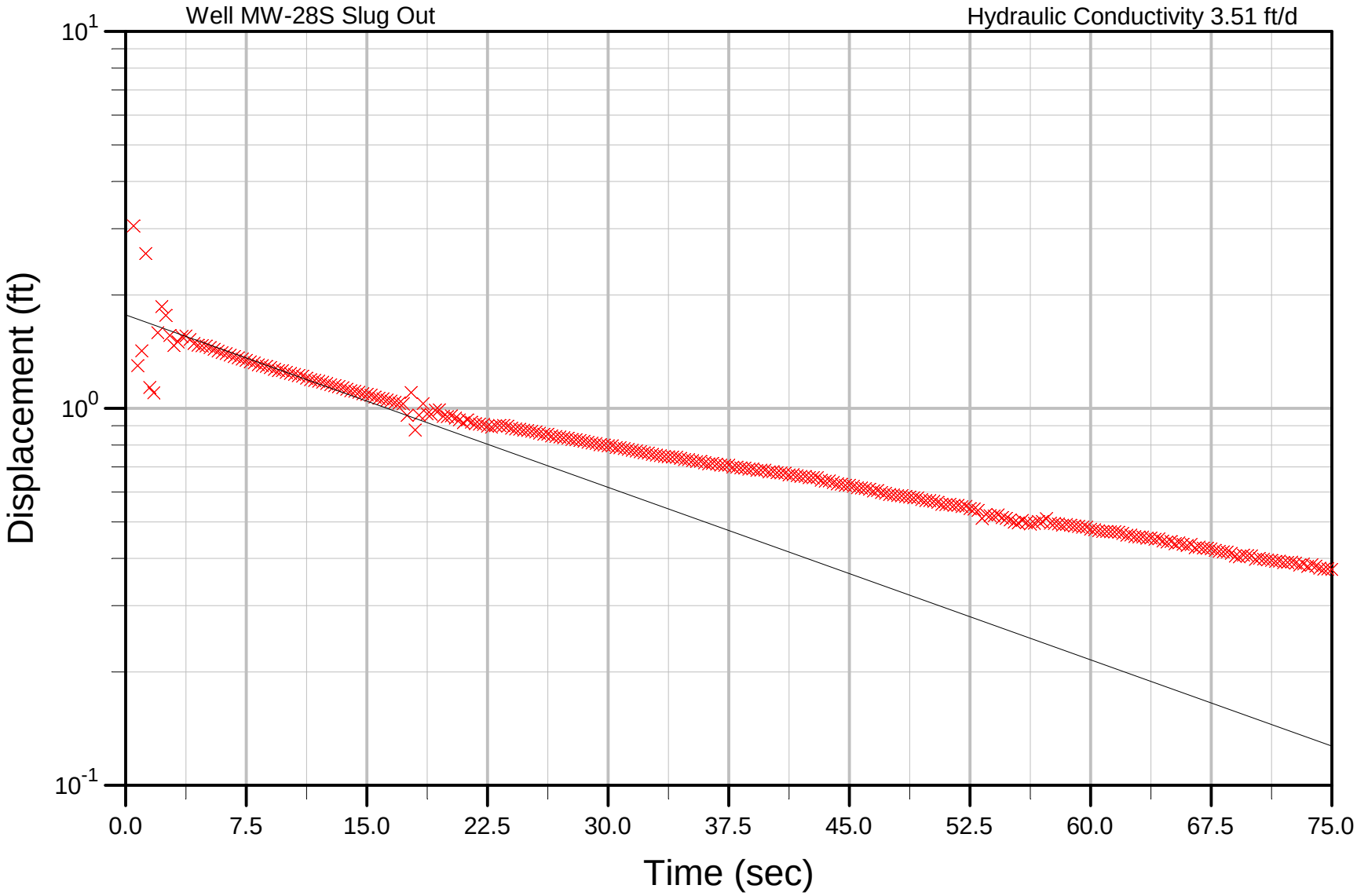
Bouwer & Rice


Well MW-25S Slug Out
Hydraulic Conductivity 2.31 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

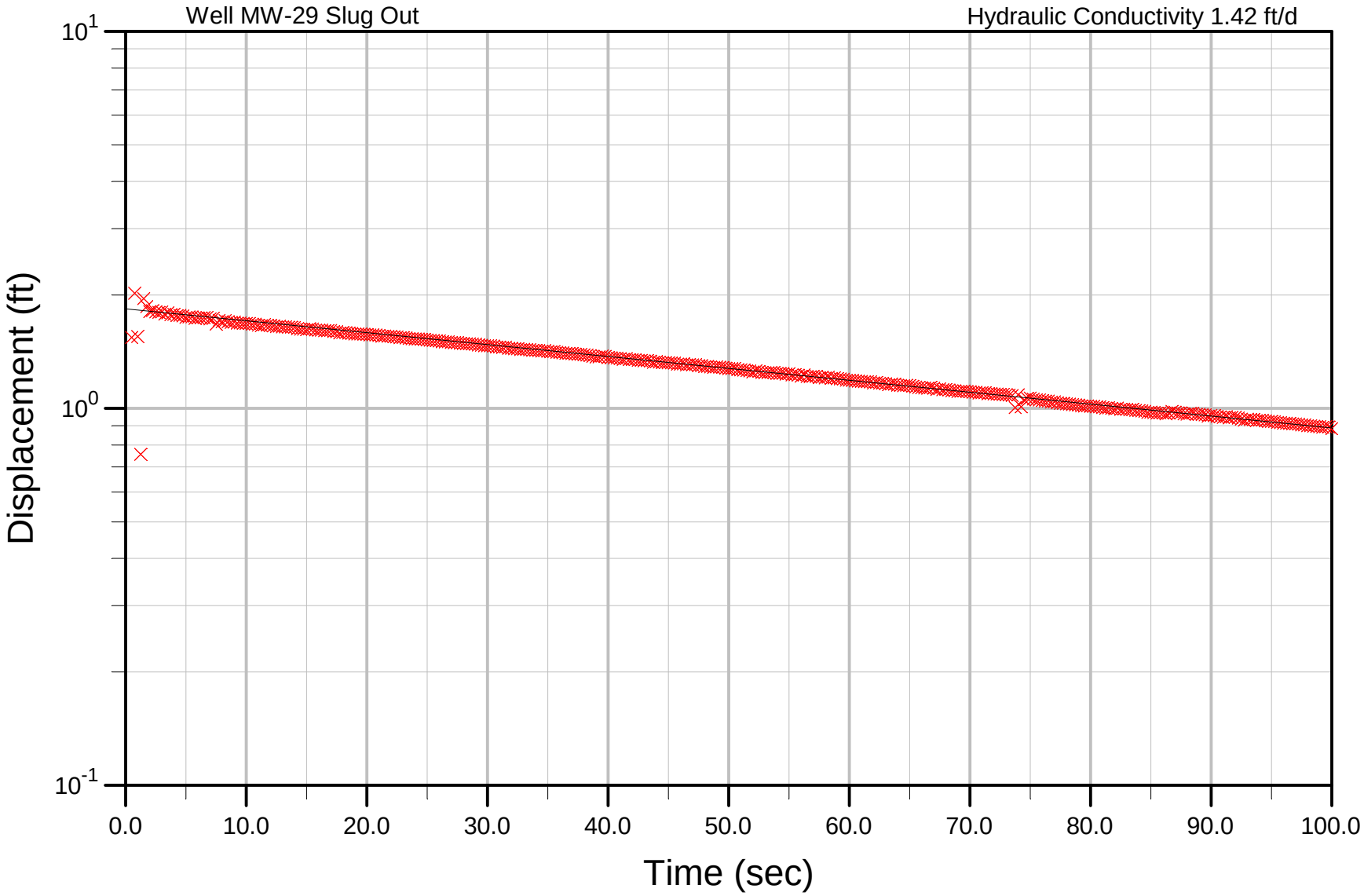
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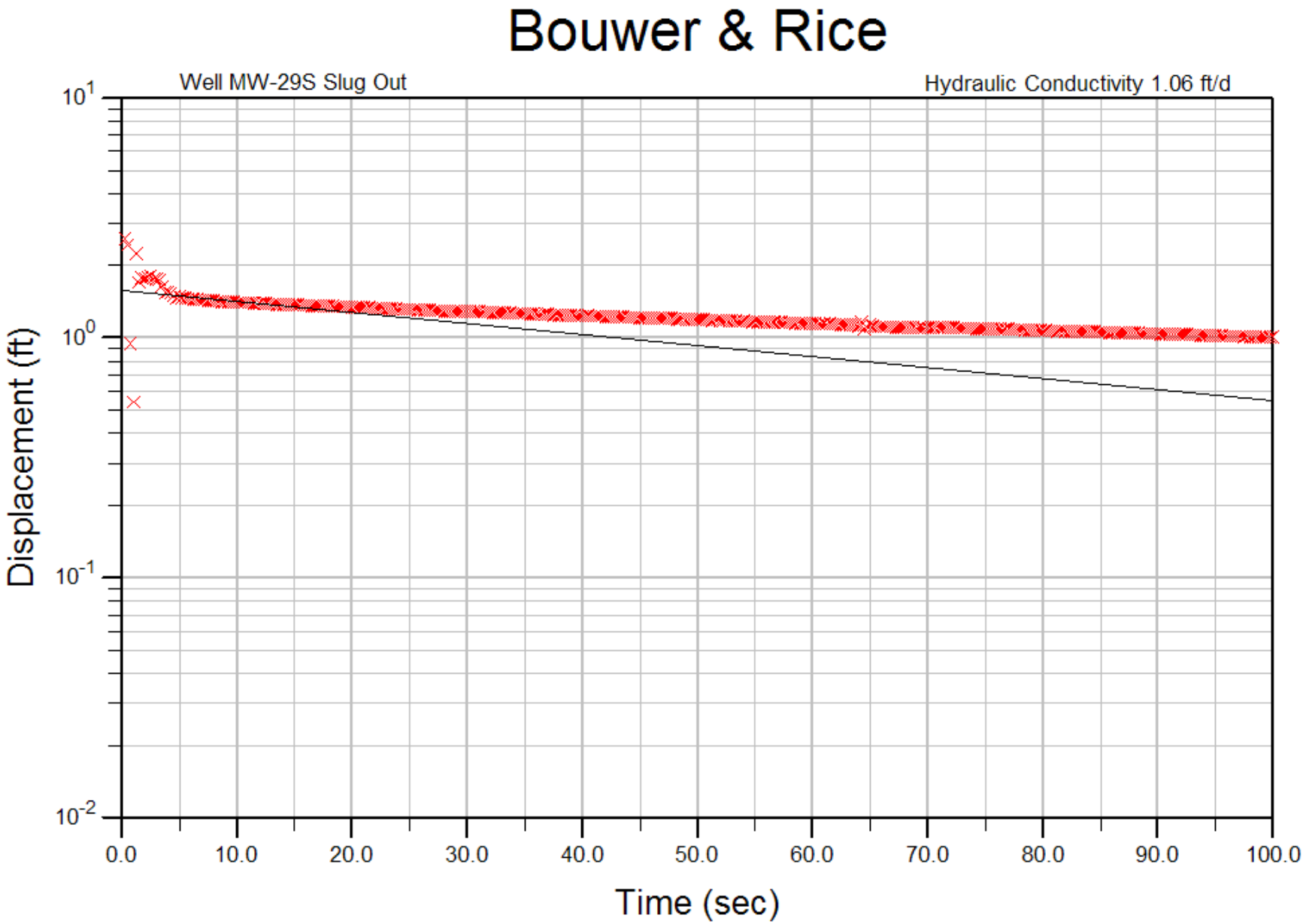

Well MW-28 Slug Out
Hydraulic Conductivity 0.61 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

Bouwer & Rice

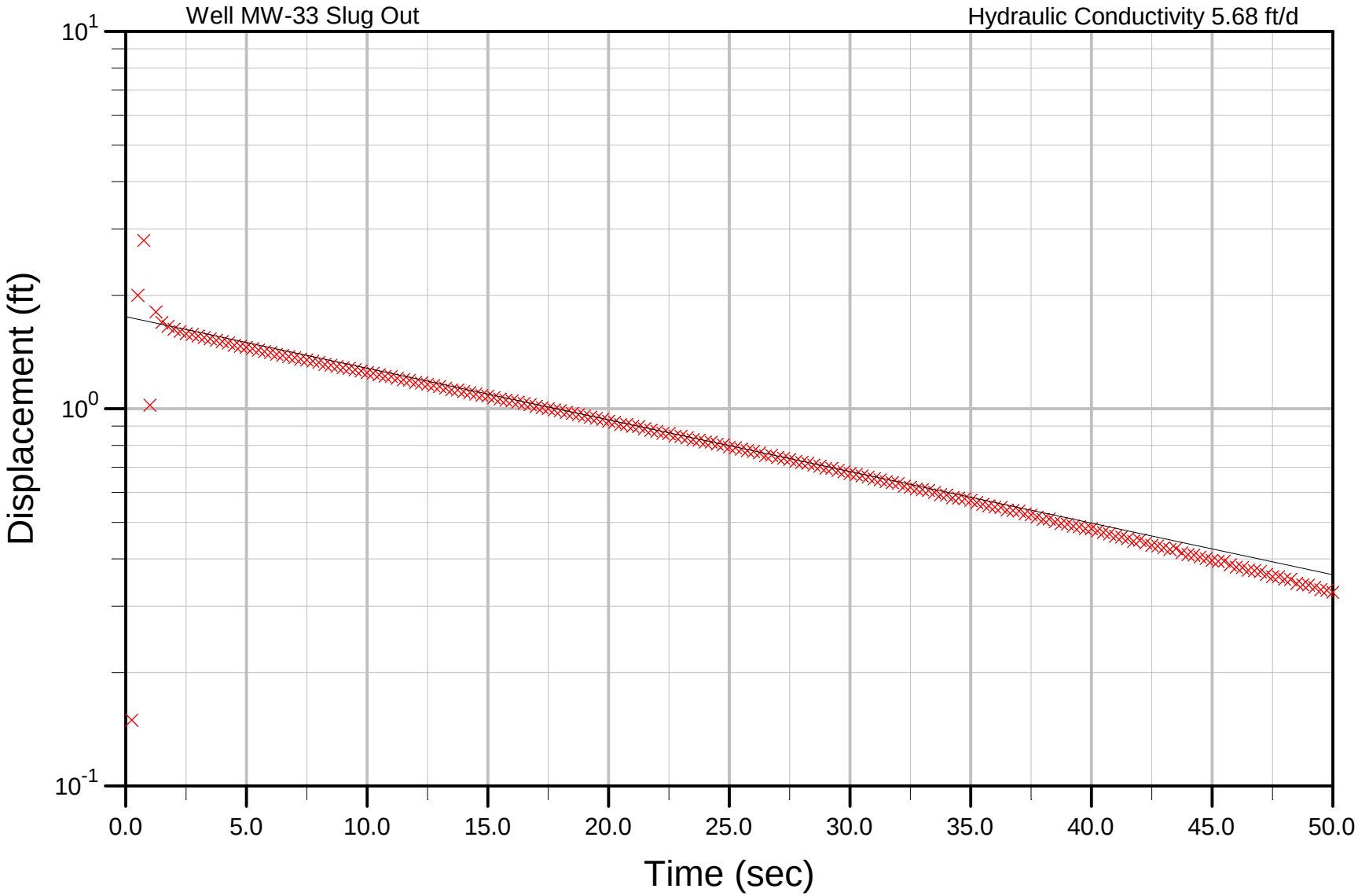

Well MW-28S Slug Out
Hydraulic Conductivity 3.51 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
7.5
15.0
22.5
30.0
37.5
45.0
52.5
60.0
67.5
75.0
Time (sec)

Bouwer & Rice

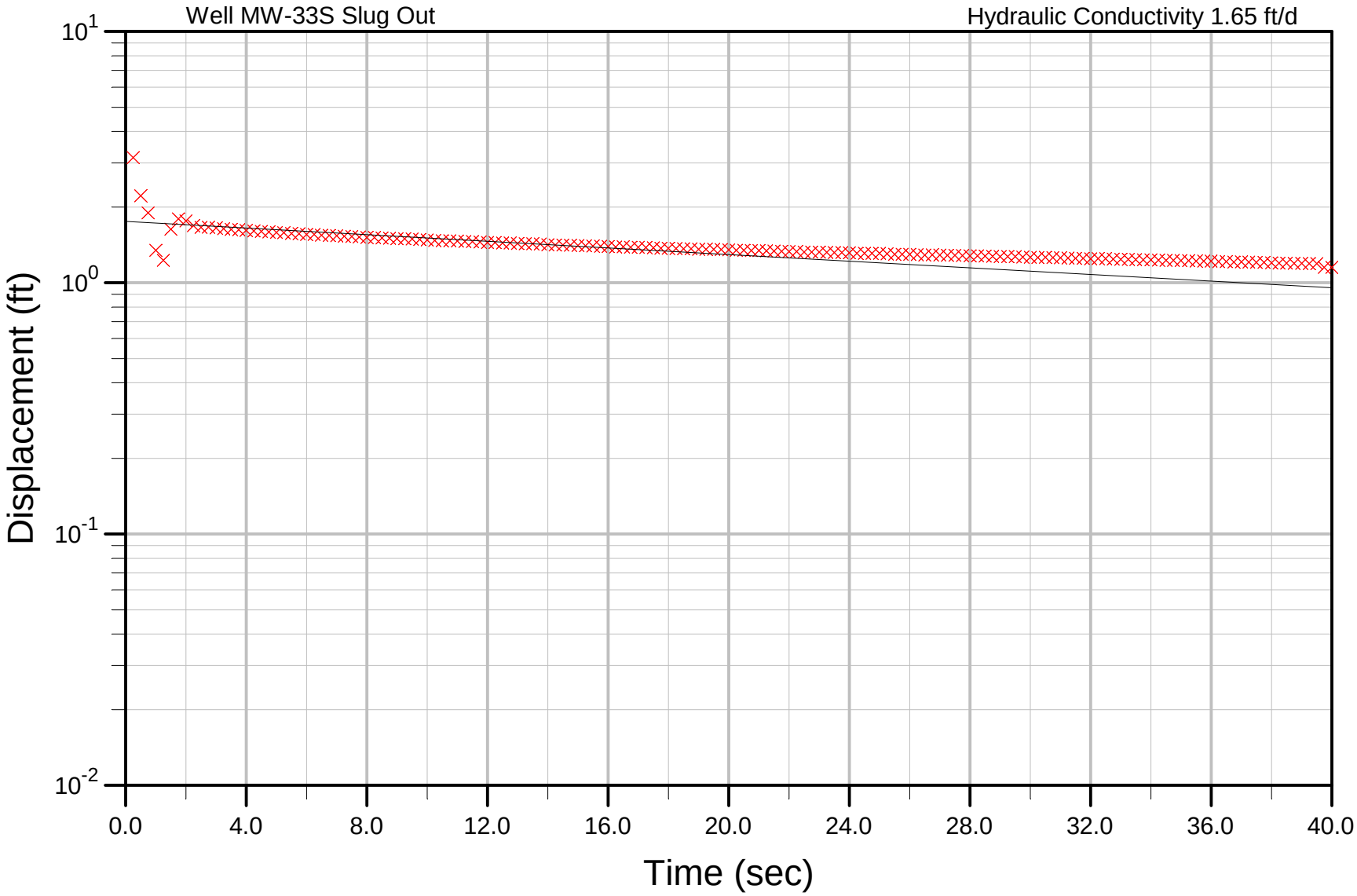

Well MW-29 Slug Out
Hydraulic Conductivity 1.42 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)


Bouwer & Rice
Well MW-29S Slug Out
Hydraulic Conductivity 1.06 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

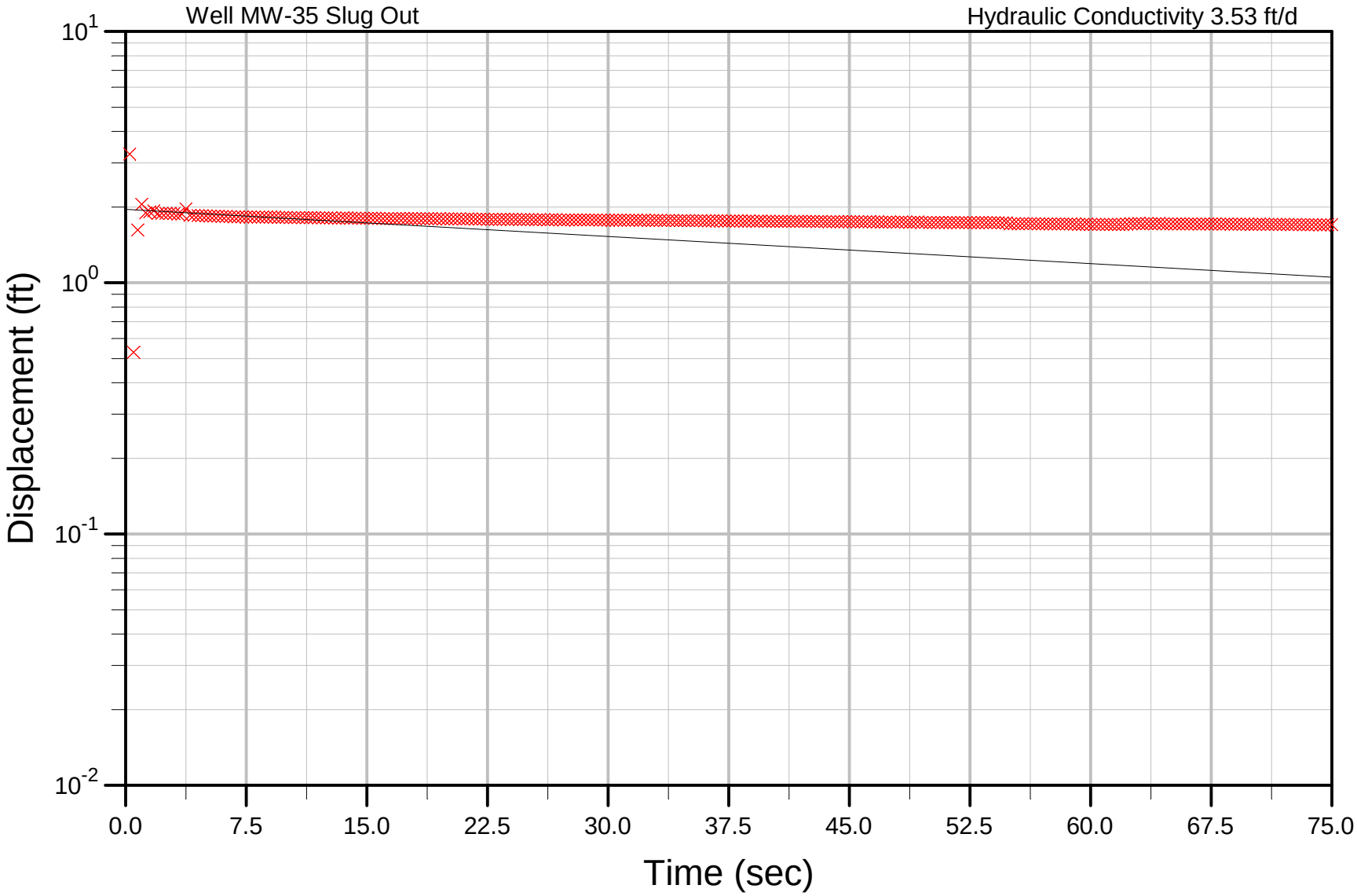
Bouwer & Rice


Well MW-33 Slug Out
Hydraulic Conductivity 5.68 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

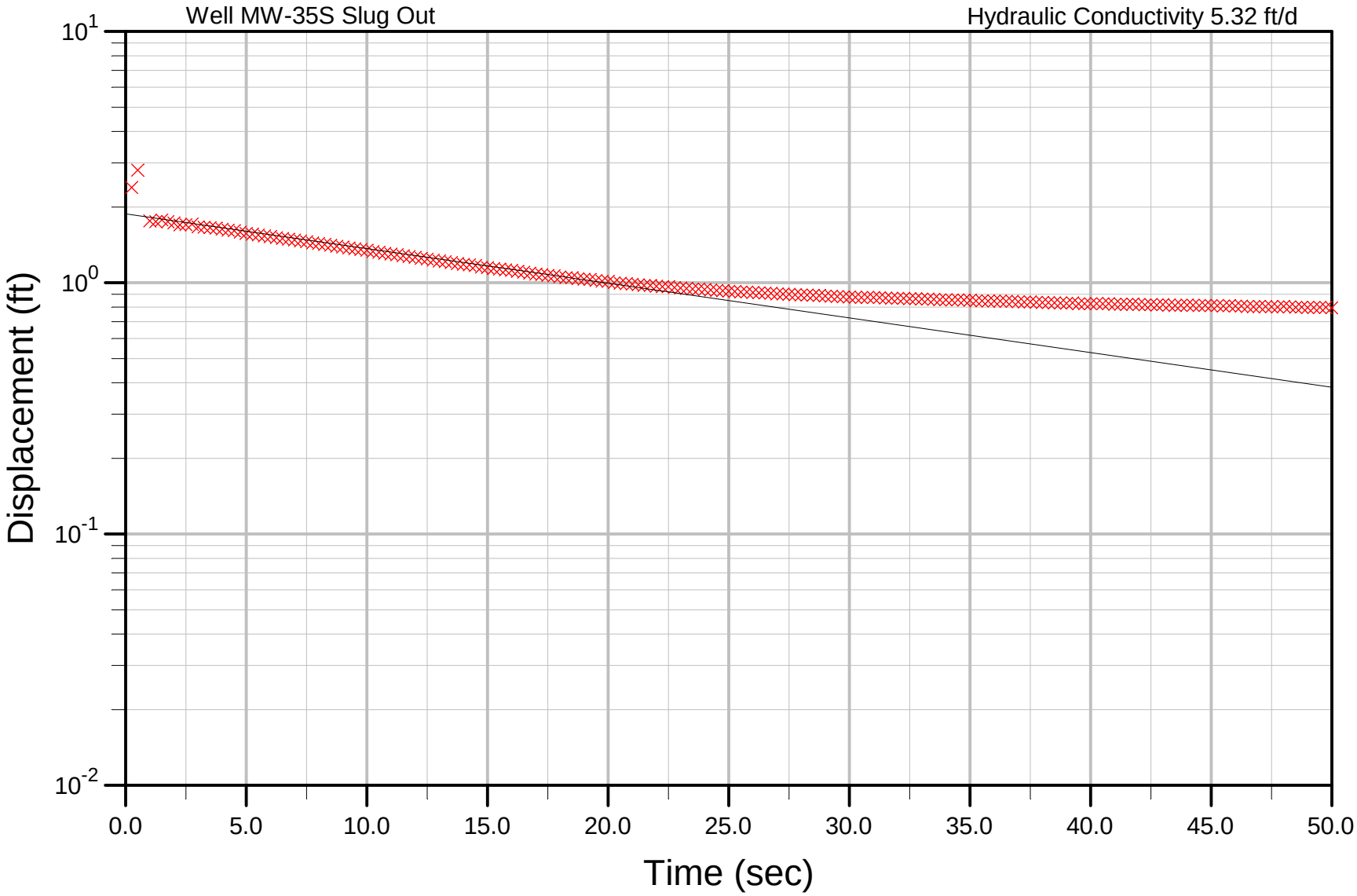
Bouwer & Rice


Well MW-33S Slug Out
Hydraulic Conductivity 1.65 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
4.0
8.0
12.0
16.0
20.0
24.0
28.0
32.0
36.0
40.0
Time (sec)

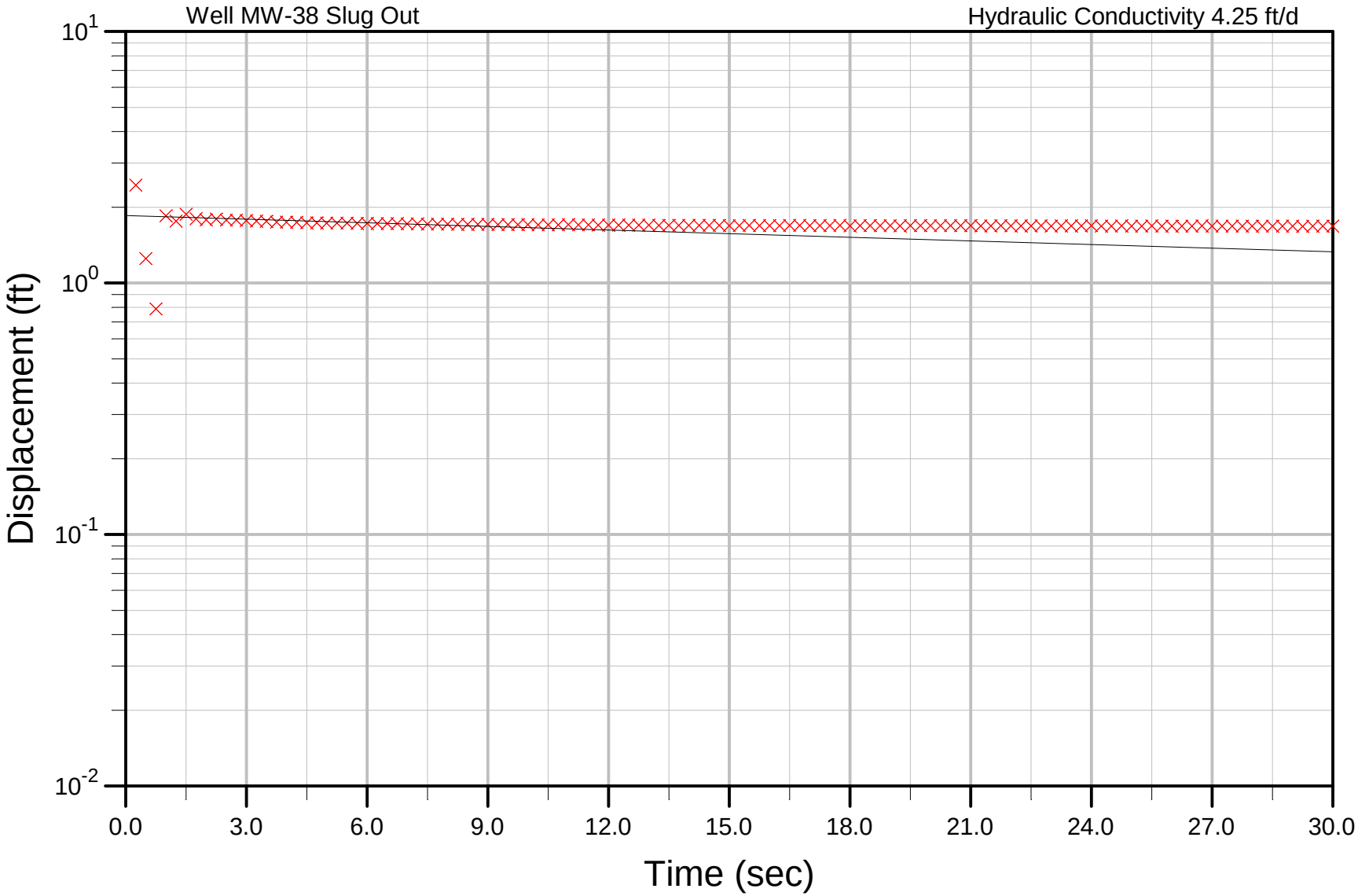
Bouwer & Rice


Well MW-35 Slug Out
Hydraulic Conductivity 3.53 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
7.5
15.0
22.5
30.0
37.5
45.0
52.5
60.0
67.5
75.0
Time (sec)

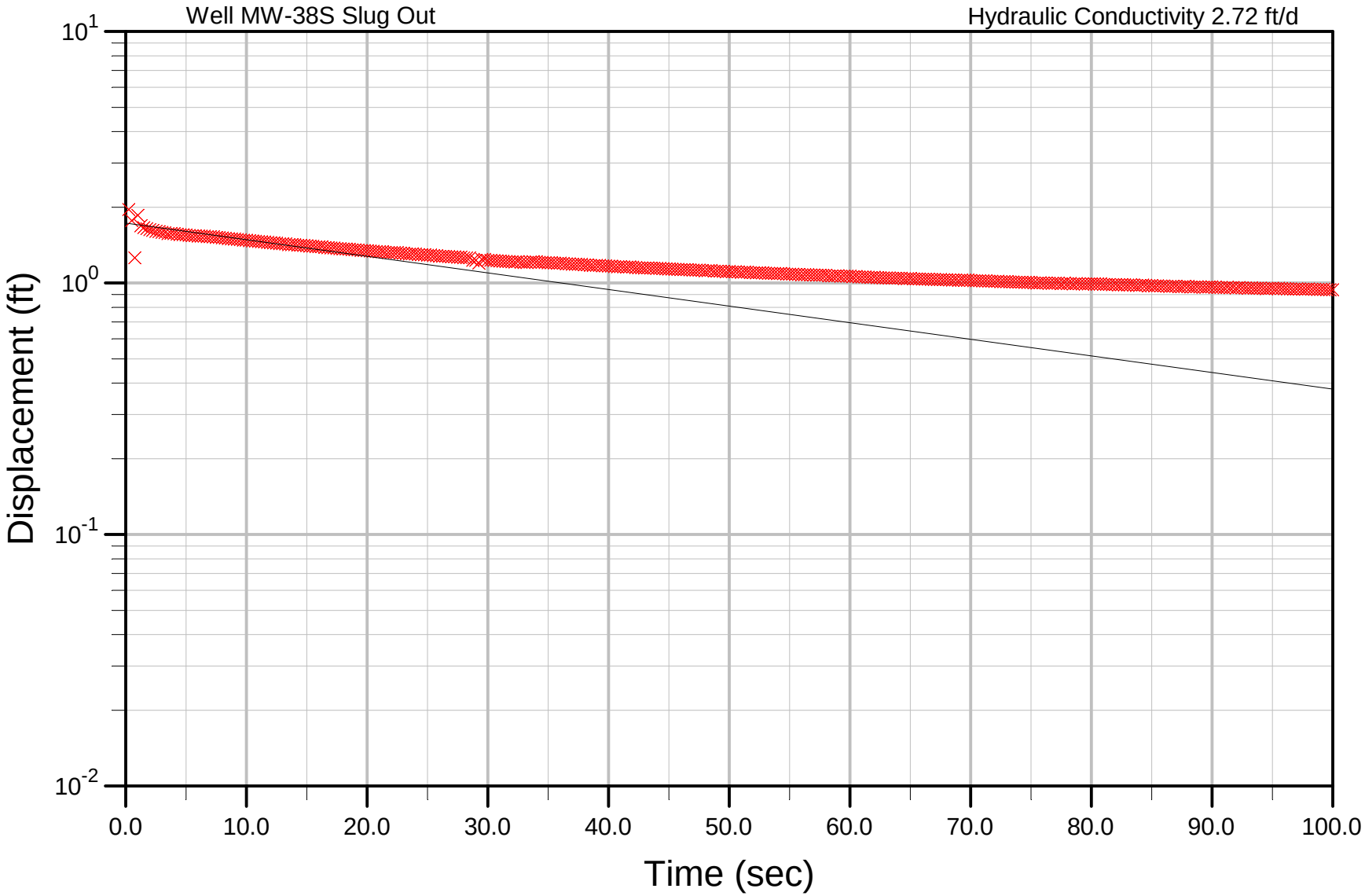
Bouwer & Rice


Well MW-35S Slug Out
Hydraulic Conductivity 5.32 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

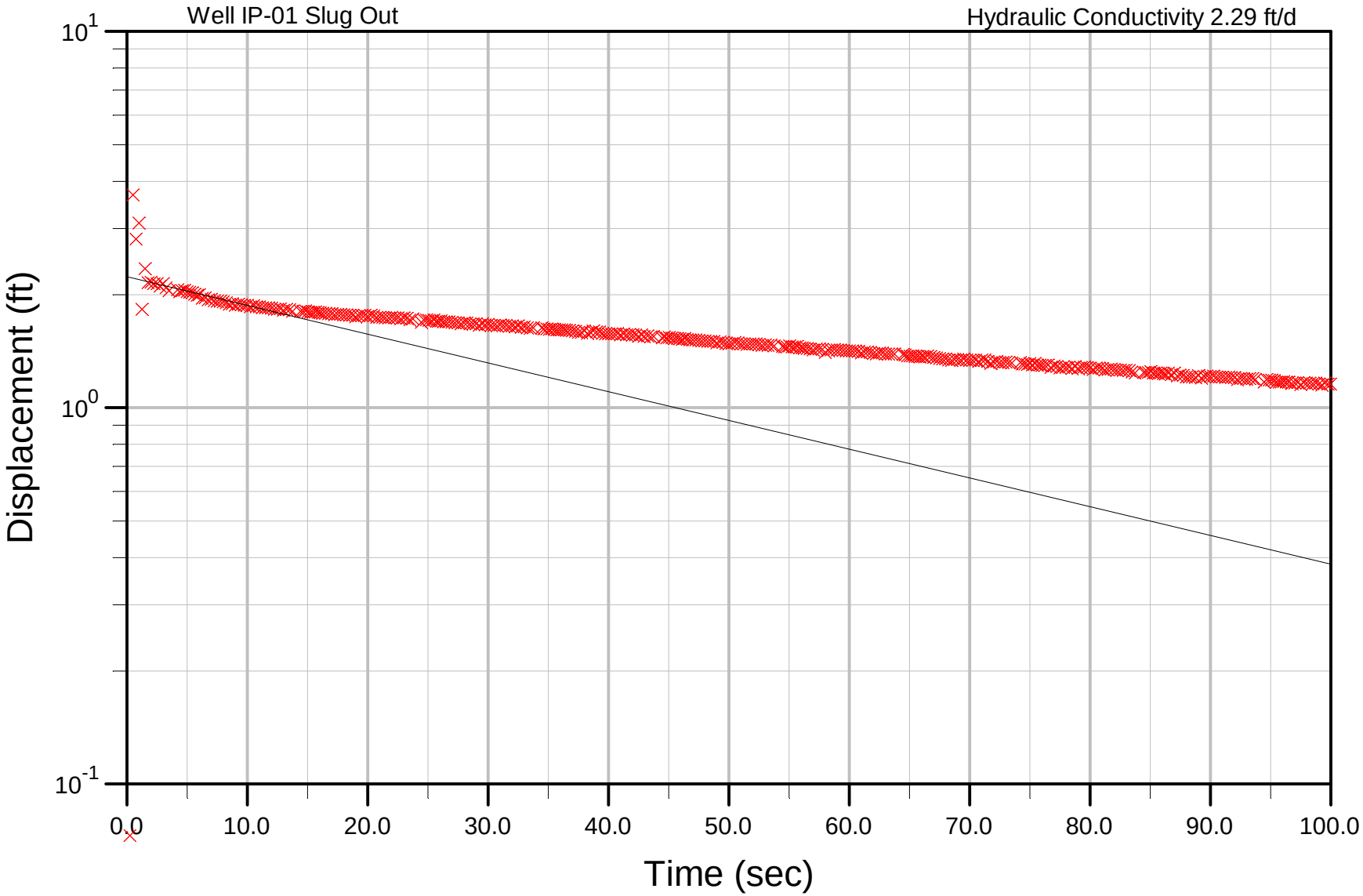
Bouwer & Rice


Well MW-38 Slug Out
Hydraulic Conductivity 4.25 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
3.0
6.0
9.0
12.0
15.0
18.0
21.0
24.0
27.0
30.0
Time (sec)

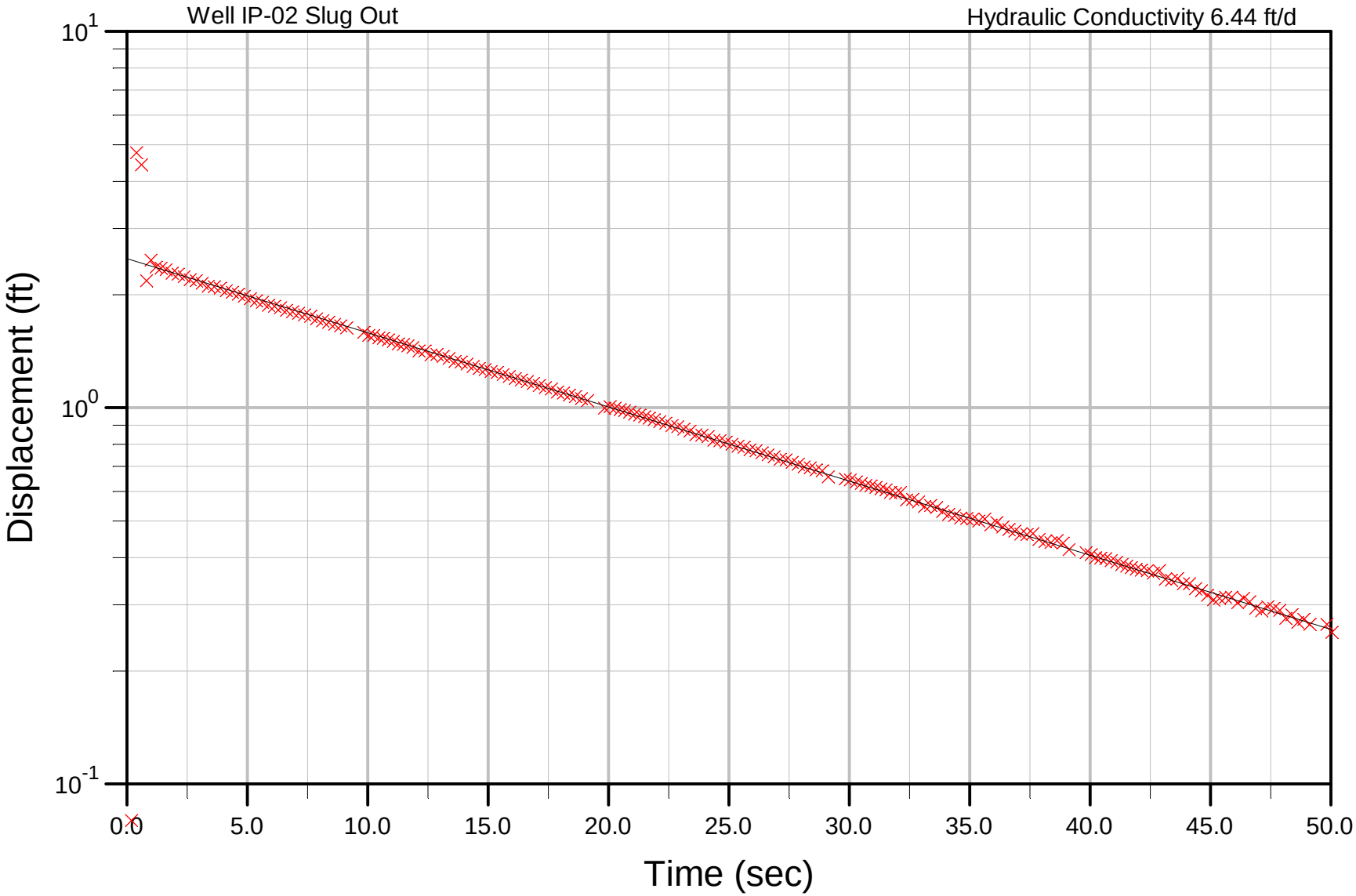
Bouwer & Rice


Well MW-38S Slug Out
Hydraulic Conductivity 2.72 ft/d
Displacement (ft)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

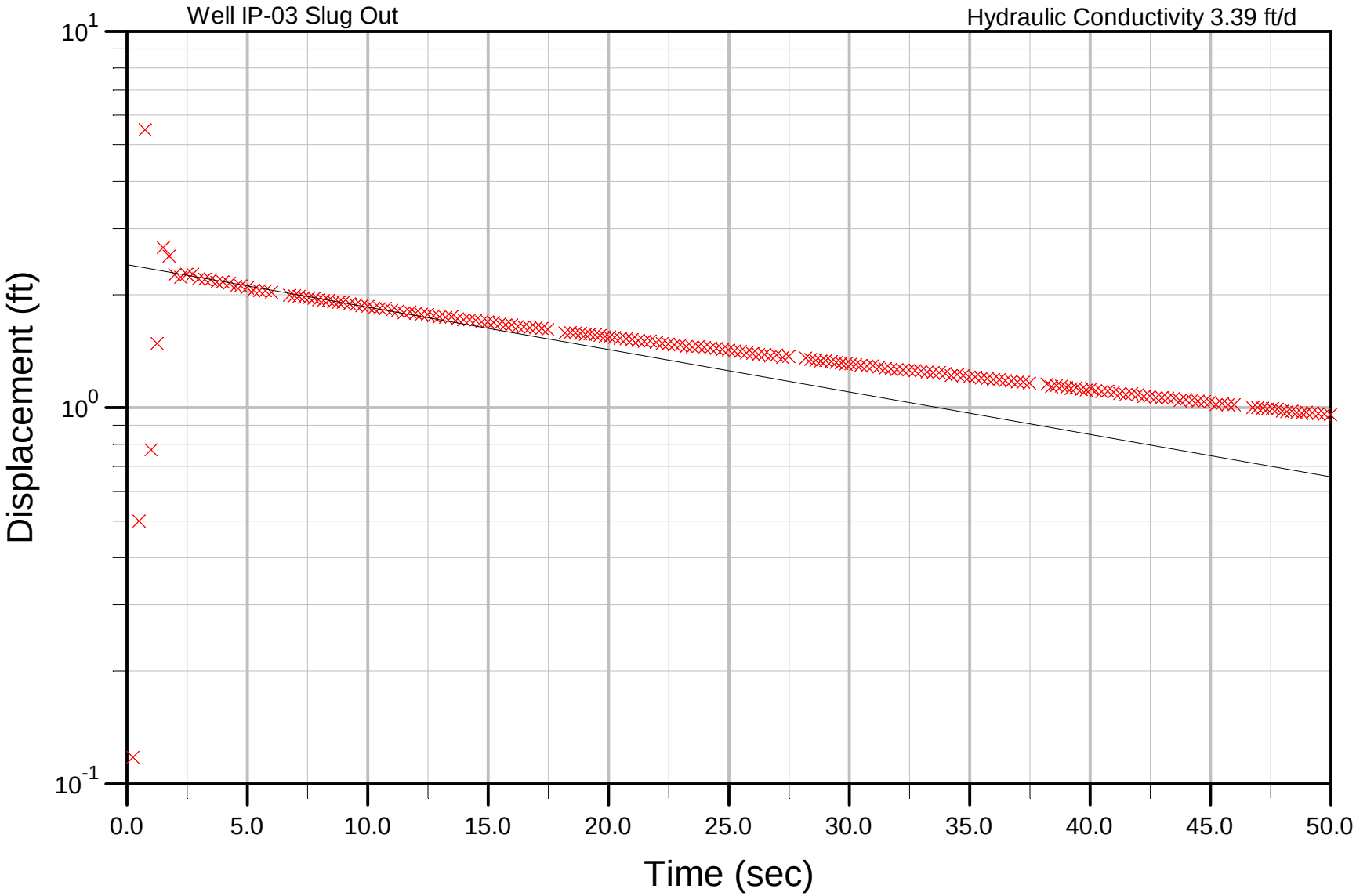
Bouwer & Rice


Well IP-01 Slug Out
Hydraulic Conductivity 2.29 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time (sec)

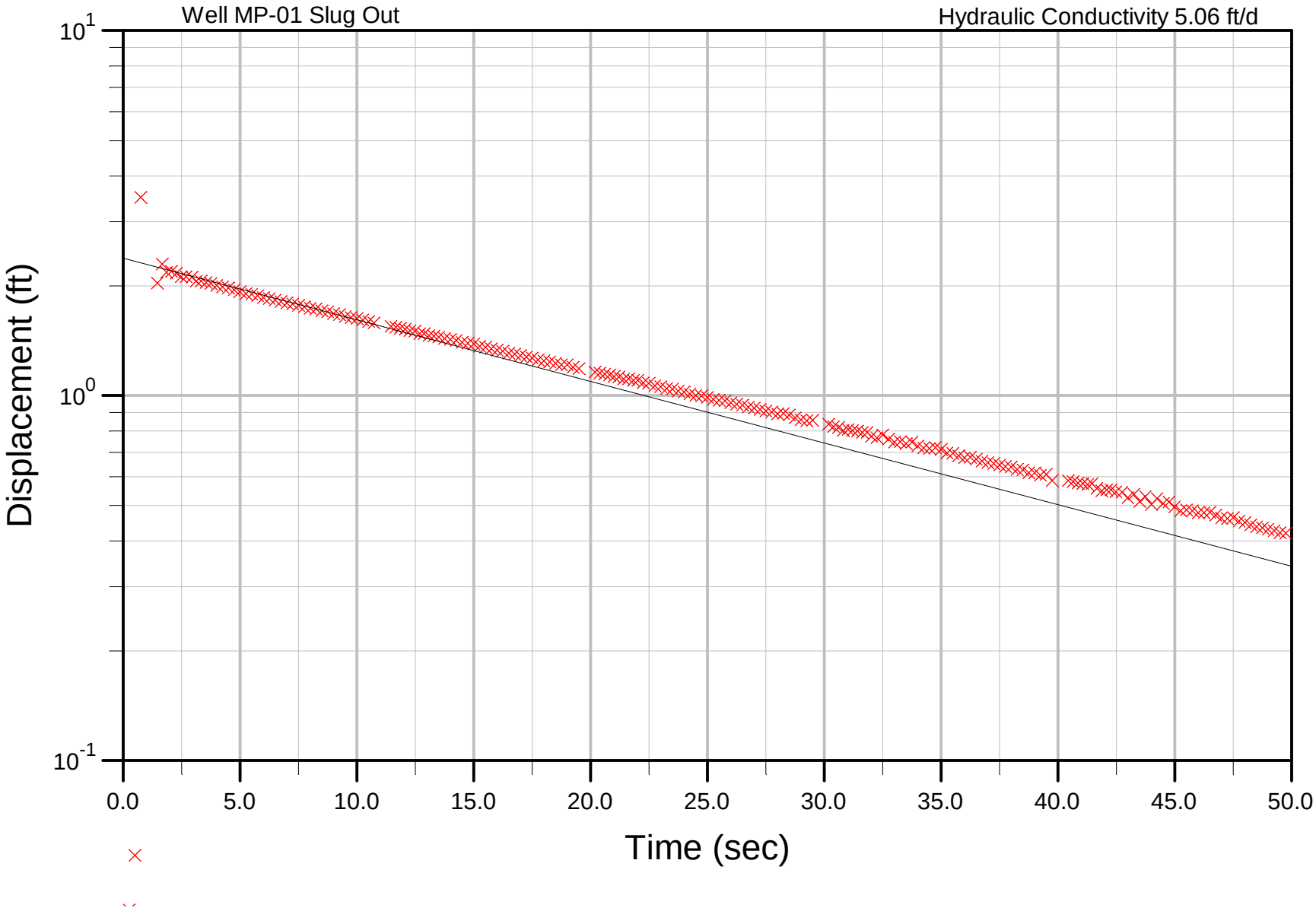
Bouwer & Rice


Well IP-02 Slug Out
Hydraulic Conductivity 6.44 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

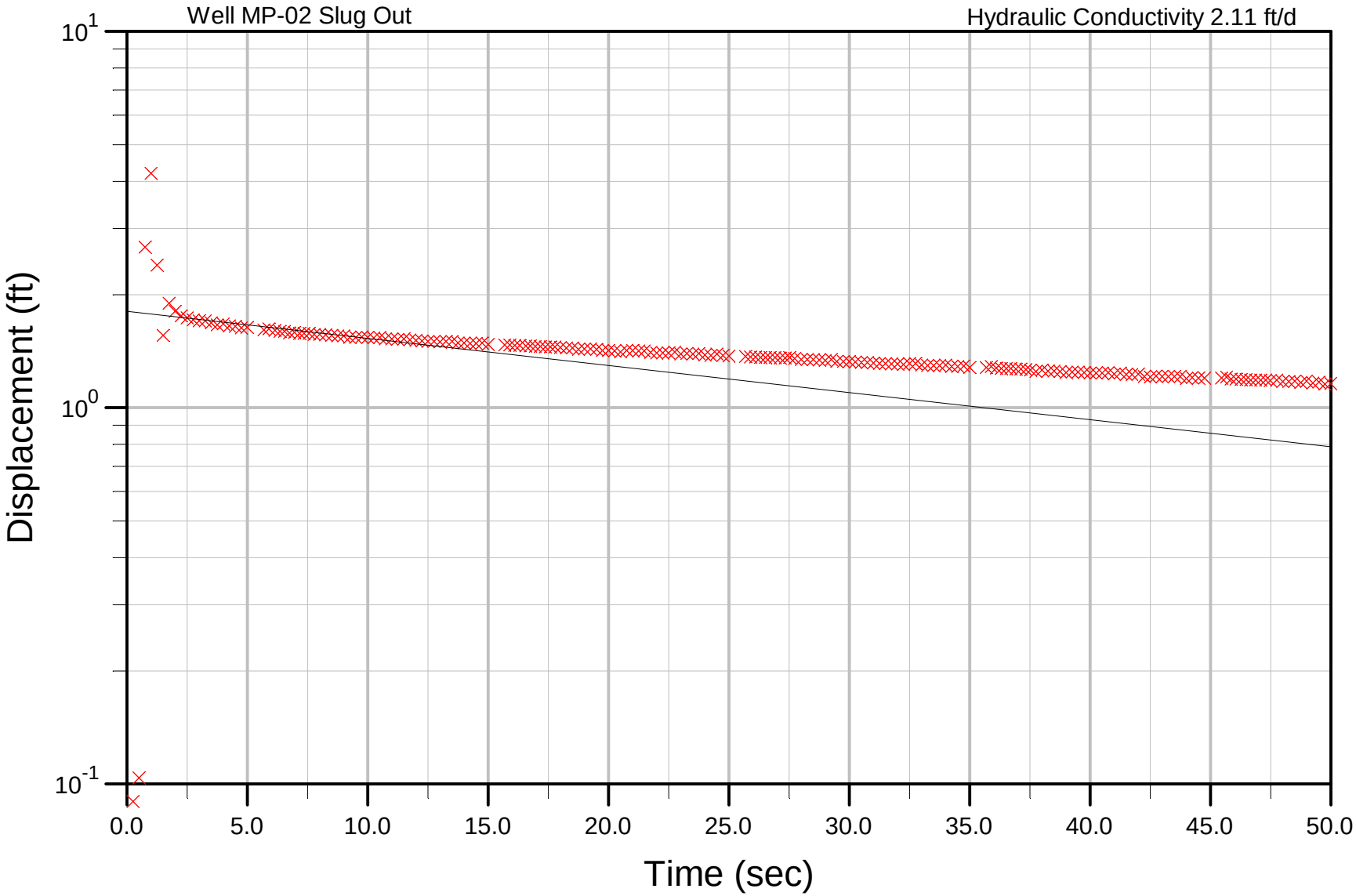
Bouwer & Rice


Well IP-03 Slug Out
Hydraulic Conductivity 3.39 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

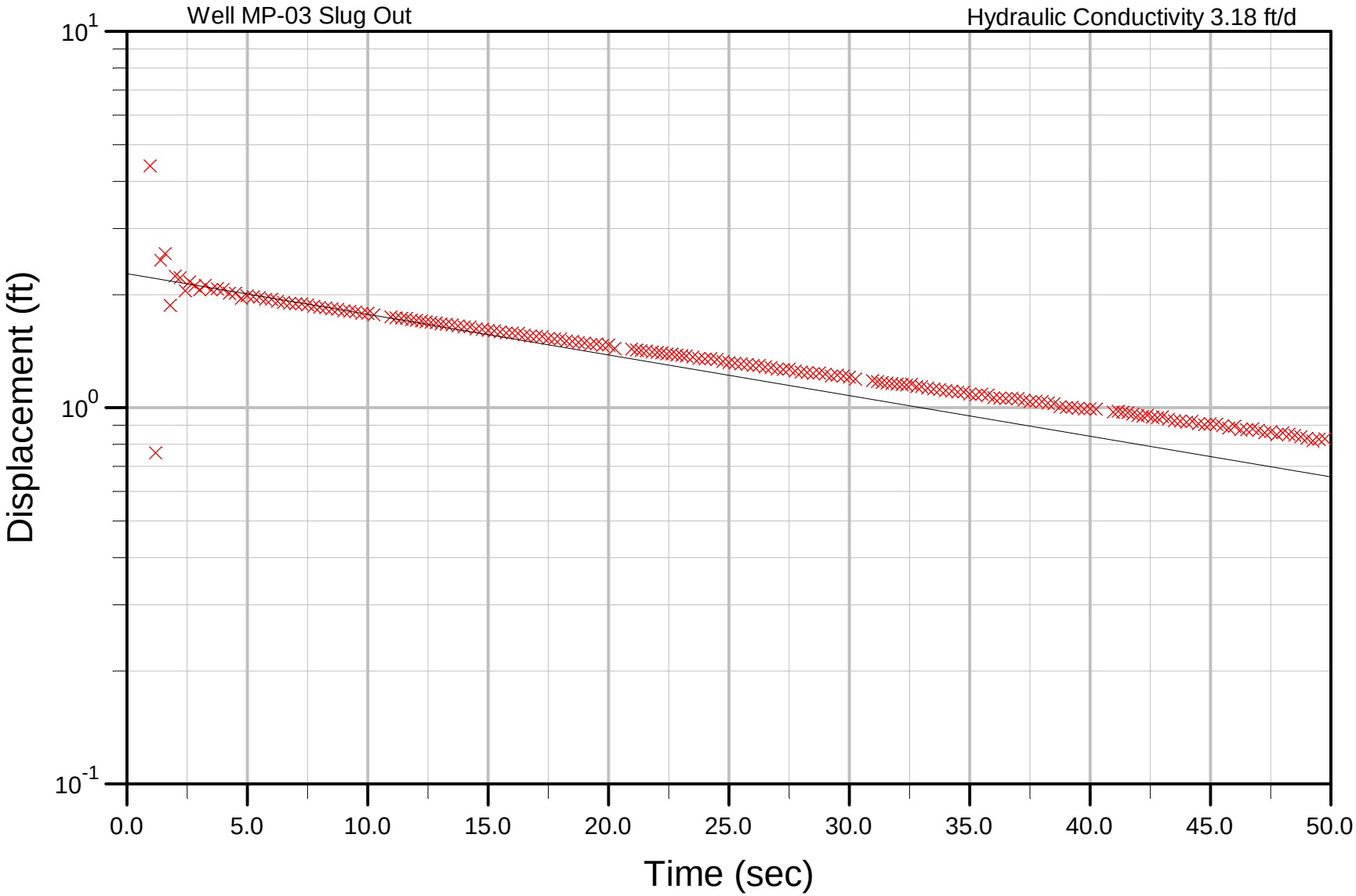
Bouwer & Rice


Well MP-01 Slug Out
Hydraulic Conductivity 5.06 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

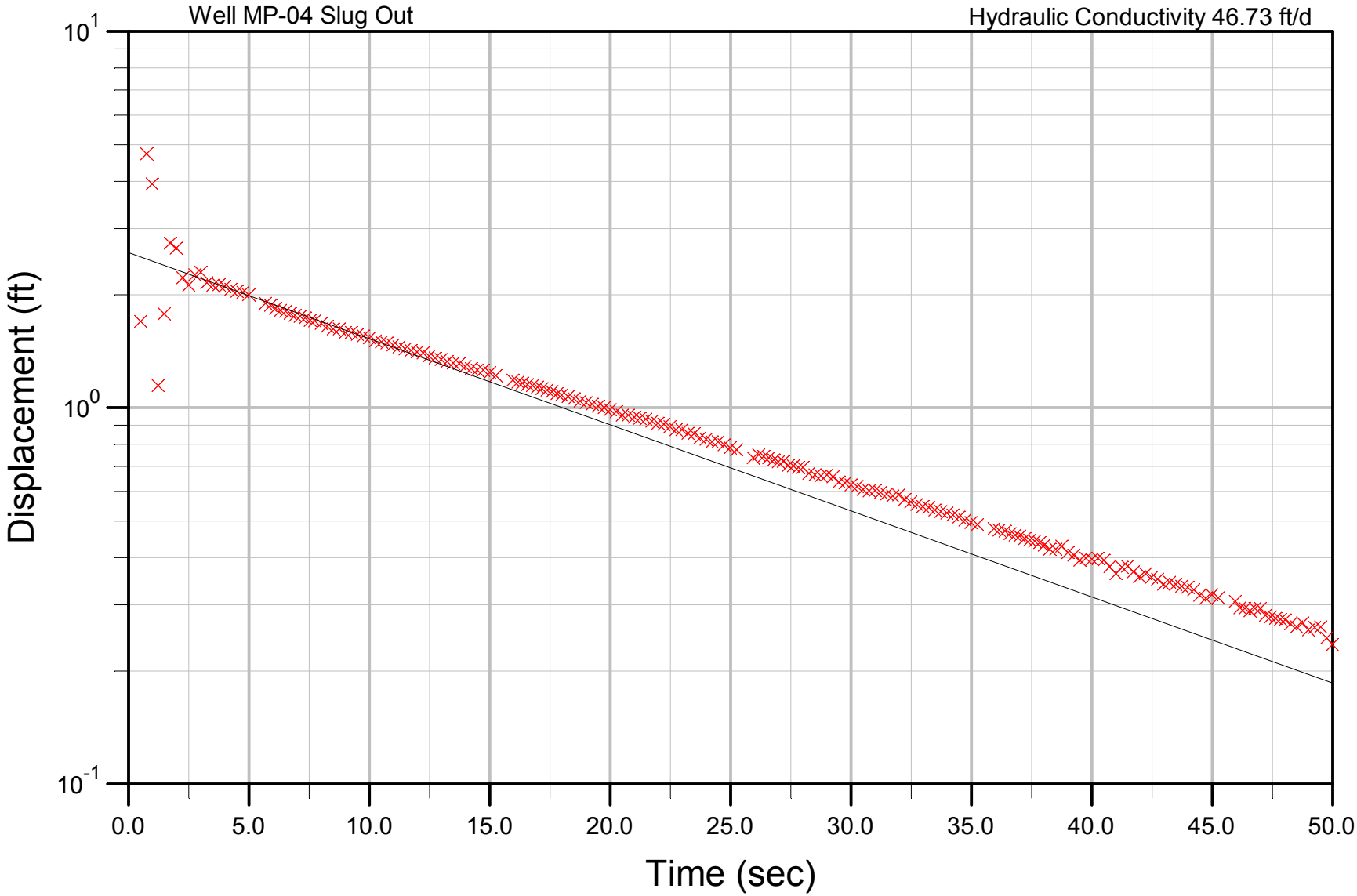
Bouwer & Rice


Well MP-02 Slug Out
Hydraulic Conductivity 2.11 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

Bouwer & Rice


Well MP-03 Slug Out
Hydraulic Conductivity 3.18 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

Bouwer & Rice


Well MP-04 Slug Out
Hydraulic Conductivity 46.73 ft/d
Displacement (ft)
10^1
10^0
10^-1
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Time (sec)

APPENDIX D: SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT

FISH AND WILDLIFE RESOURCES IMPACT ANALYSIS (FWRIA)

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Rouses Point, New York

Woodard & Curran
709 Westchester Avenue, Suite L2
White Plains, NY 10604
www.woodardcurran.com

206910
Pfizer, Inc.
April 2012

TABLE OF CONTENTS

SECTION PAGE NO.

1. INTRODUCTION 1-1
   1.1 Overview of Site Conditions 1-1
2. IDENTIFICATION OF FISH AND WILDLIFE RESOURCES 2-1
3. IDENTIFICATION OF POTENTIAL CONTAMINANT MIGRATION PATHWAYS 3-1
4. IDENTIFICATION OF CONTAMINANTS OF POTENTIAL ECOLOGICAL CONCERN (COPECS) 4-1
   4.1 COPEC Identification Methodology 4-1
   4.2 COPEC Identification Results 4-2
5. SUMMARY AND CONCLUSIONS: POTENTIAL FOR ADVERSE EFFECT 5-1
6. REFERENCES 6-1

LIST OF TABLES

Table 1: Characteristics of Nearby Ecological Communities

Table 2: FWRIA Groundwater Monitoring Well Analytical Results and Benchmark Screening 2006 to 2011

LIST OF FIGURES

Figure 1: Site Location

Figure 2: Site Plan and Groundwater Monitoring Well Locations

Figure 3: Facility View from East

Figure 4: Fish and Wildlife Resources

Figure 5: Cover Types

APPENDIX

Appendix A: Listed Species Correspondence

1. INTRODUCTION

As part of the Corrective Measures Study (CMS) for the Pfizer facility located at 64 Maple Street, Rouses Point, NY (the "Site), a Fish and Wildlife Resources Impact Analysis (FWRIA) was conducted in accord with DER-10 Section 3.10.1. The purpose of the FWRIA was to identify actual or potential impacts to fish and wildlife resources from Site contaminants of ecological concern. The FWRIA was conducted in accordance with the CMS Work Plan dated October 8, 2010 (revised December 9, 2010).

The sections below provide a sequential evaluation of the potential presence of a complete exposure pathway for ecological risk. Section 1.2, below, presents a brief summary of environmental data and Site conditions to provide a context for understanding the evaluations in subsequent sections. Further detail is provided in the June 25, 2010 Supplemental Sampling and Analysis Report (SAR) and the CMS Report.

The primary focus of this FWRIA is concentrations of constituents in groundwater, which flows east-southeast towards Lake Champlain. Surface soil samples collected as part of the previous investigations were obtained from the grass covered areas around the Site buildings and were not near known areas of concern (AOCs), most of which occur in or under buildings and structures. Four surface soil samples were collected from around Solid Waste Management Unit (SWMU) 10, the North Field Fire Training Area; however, this area is not a habitat for endangered, threatened, or special concern species or other fish and wildlife resources, nor are soil constituents in this area likely to migrate or erode to such areas. Thus, in accordance with Appendix 3C of DER-10, no FWRIA was conducted on soil samples. No natural water bodies exist on-site, so no surface water or sediment samples from natural habitats were collected during the previous investigations or during the FWRIA.

The technical portions of the ecological evaluation are presented in the following sections:

- **Section 2: Identification of Fish and Wildlife Resources**
  To identify fish and wildlife resources at or adjacent to the Site, the New York State Geographic Information System (NYSGIS) and other state resource data were accessed and mapped relative to the Site location. A brief discussion of these resources is presented.
- **Section 3: Identification of Potential Contaminant Migration Pathways**
  Contaminant migration pathways between source areas and sensitive natural resources are identified and evaluated.
- **Section 4: Identification of Contaminants of Potential Ecological Concern**
  Site constituents which are or may be present in wildlife resource areas are evaluated against bioavailability criteria and ecological benchmarks to identify contaminants of potential ecological concern.
- **Section 5: Summary and Conclusions: Potential for Adverse Effects**
  Conclusions based on the evaluations in Sections 2 to 4, as well as general recommendations for further actions, are provided in this section.

1.1 OVERVIEW OF SITE CONDITIONS

The Site is located on the intersection of Maple Street (to the east) and Academy Street (to the south) in the Village of Rouses Point, Clinton County, New York. The Site is located approximately 800 feet west of the northern end of Lake Champlain and 3,300 feet south of the Canadian border (**Figure 1**). Residential properties exist to the north, east, and south of the Site, and agricultural and forested lots are present to the west. The facility itself consists primarily of large or contiguous buildings, outdoor storage

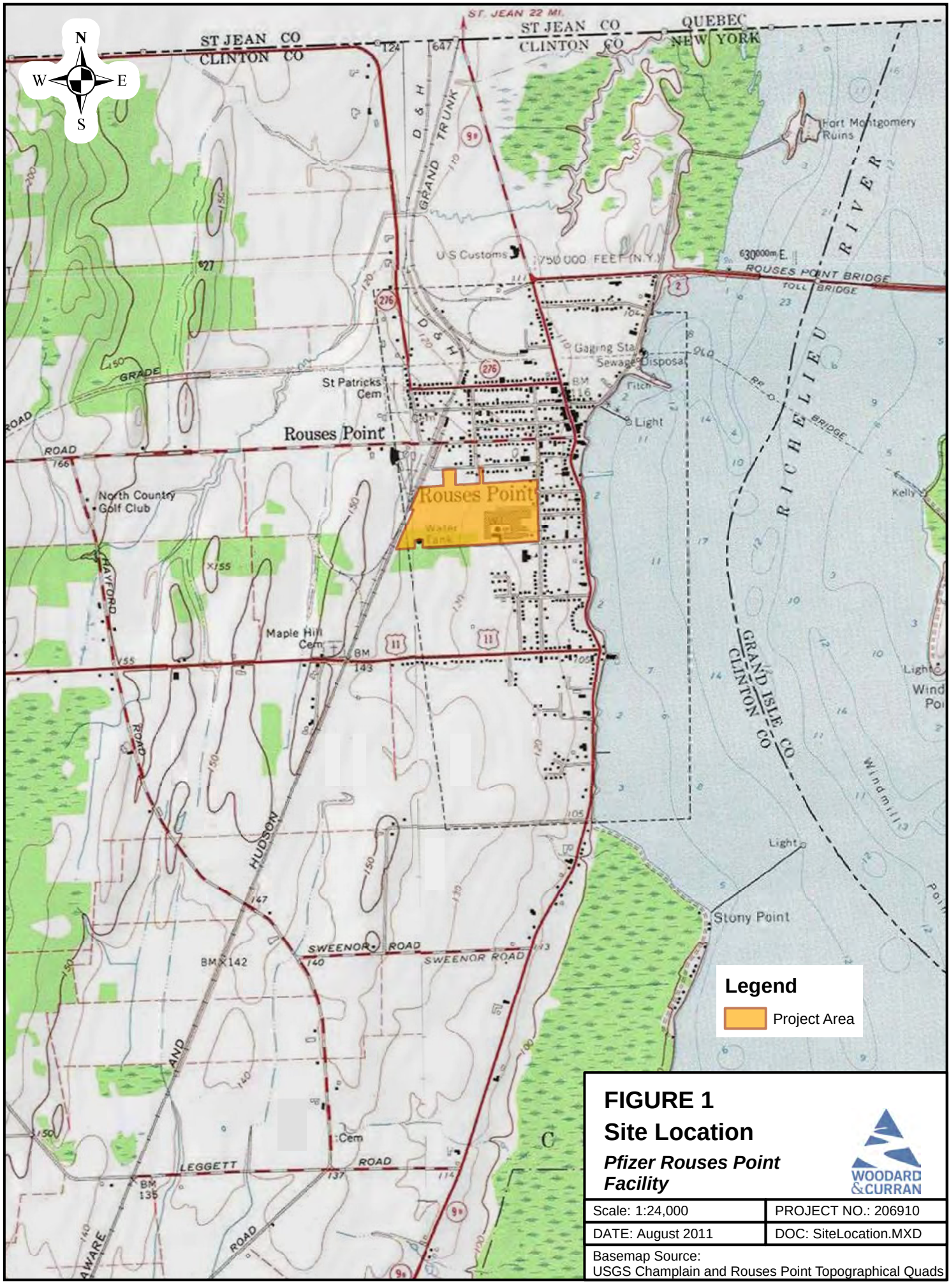
and loading areas, and open landscaping or grass-covered areas around the buildings and adjacent parking areas (**Figure 2**). Groundwater flows primarily to the east/southeast, towards Lake Champlain.

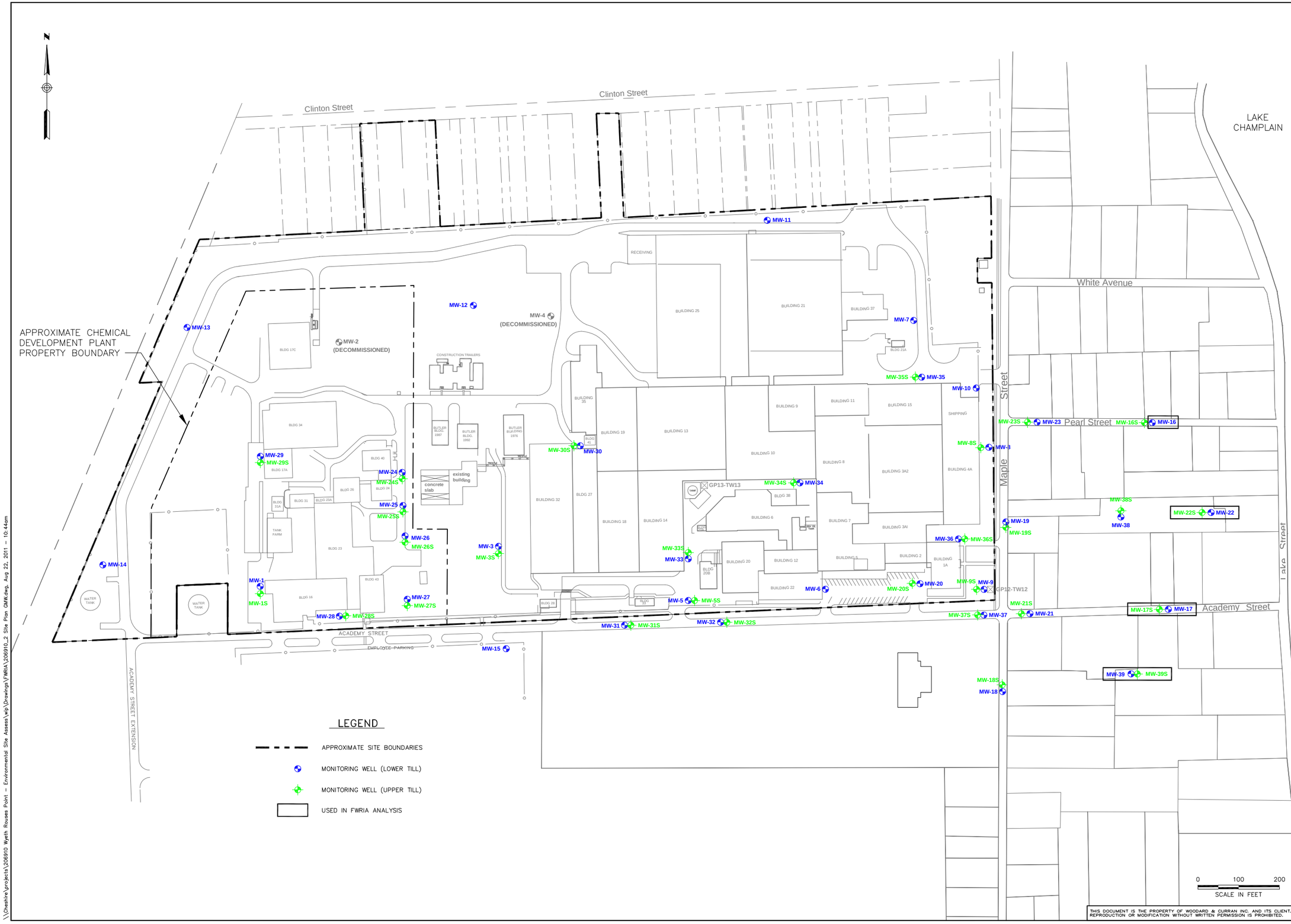
The Site is currently owned and operated by Pfizer (formerly Wyeth) as a pharmaceutical manufacturing and research facility. The Site contains two operational facilities, the Main Plant and the Chemical Development Plant. Operations at the Main Plant include, or formerly included, the manufacturing, primary processing and packaging of over-the-counter and prescription pharmaceuticals. The Chemical Development Plant consists of research and pilot plant operations to scale-up production of technical grade materials.

Detailed descriptions of the previous investigation activities conducted at the Site and the subsequent findings are provided in the September 2006 SWMU/AOC Assessment Report, the April 5, 2007 Site Assessment Report (SAR), and the June 25, 2010 Supplemental SAR. These studies indicated that a limited number of constituents of concern, consisting primarily of volatile organic compounds (VOCs) and select metals, were detected at concentrations exceeding established New York State Department of Environmental Conservation (NYSDEC) groundwater standards or guidance values in monitoring wells both on-site and off-site to the east of the facility.

Geologic observations from soil boring installation activities indicate an upper till unit, a lower till unit, and bedrock underlying the Site. Within the upper till unit, medium dense to dense soils with low permeability were encountered, which did not yield significant groundwater. The lower till at the Site appears to be the more significant water bearing unit and the primary unit through which groundwater flows.

No natural wetlands or streams exist on the Site, although open drainage swales for local stormwater are present generally around the perimeter of the Site. These swales are not located near any of the AOCs identified during the previous investigations. Stormwater is discharged to subsurface storm sewers located throughout the Site, which connect with village of Rouses Point storm sewers that eventually discharge to Lake Champlain through the village maintained stormwater conveyance system, with outfalls located at the east end of Pearl Street and Academy Street.


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Gaging Sta
Sewage Disposal
St Patricks Cem
Rouses Point
Rouses Point
Water Tank
North Country Golf Club
Maple Hill Cem
BM 143
BM 116
Light
Kelly
GRAND ISLE CO
CLINTON CO
Windmill
Stony Point
SWEENOR ROAD
BM 142
LEGGETT ROAD
HUDSON
HAYFORD ROAD
GRADE ROAD
D & H
GRAND TRUNK
Legend
Project Area
FIGURE 1
Site Location
Pfizer Rouses Point Facility
WOODARD &CURRAN
Scale: 1:24,000
PROJECT NO.: 206910
DATE: August 2011
DOC: SiteLocation.MXD
Basemap Source:
USGS Champlain and Rouses Point Topographical Quads



709 WESTCHESTER AVENUE, SUITE L2
WHITE PLAINS, NEW YORK 10604
914.448.2266 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

REV	DESCRIPTION	DATE
	DESIGNED BY: JR	
	DRAWN BY: EYR	
	CHECKED BY: JR	
	206910_2 Site Plan GWM.dwg	

SITE PLAN AND GROUNDWATER MONITORING WELL LOCATIONS

PFIZER, INC.
ROUSES POINT, NEW YORK

FWRIA

JOB NO.: 206910
DATE: AUGUST 2011
SCALE: AS NOTED
SHEET: OF

FIGURE 2

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\\Cheshire\projects\206910 Wyeth Rouses Point - Environmental Site Assess\wip\Drawings\FWRIA\206910_2 Site Plan GWM.dwg, Aug 22, 2011 - 10:44am

2. IDENTIFICATION OF FISH AND WILDLIFE RESOURCES

Natural resources and land use around the Site were characterized by site visits and from information obtained from NYSGIS as well as by direct consultation with the NYSDEC Natural Heritage Program.

Figure 3, below, shows a 2006 aerial photograph of the Site as viewed from the east. As shown, the facility is surrounded by residential properties on the north, east, and south sides, and by extensive farmlands and woodlots to the west. Lake Champlain lies one block east of the Site, and has a shoreline comprised of riprap. Lake Champlain transitions to the Richelieu River directly east of the Site as depicted on the USGS topographic map provided as **Figure 1.** Site topography is largely flat.



Figure 3: Facility View from East

A topographical map showing fish and wildlife resources within ½ mile of the Site is included as **Figure 4**. As shown, small freshwater wetlands exist both north and west of the Site. Consultation with the New York Natural Heritage Program (**Appendix A**) indicates that habitat for the blackfin shiner (*Notropis heterodon*), an unlisted species which is ranked as S1, or critically impaired in New York, exists in Lake Champlain just northeast of the Site. Likewise, the autumnal water-starwort (*Callitriche hermaphroditica*) a state-endangered species, was also reported in Lake Champlain at Rouses Point,

although it was not observed during a recent search. No other regulated wetlands, wild or scenic rivers, parks, nature reserves, or habitats supporting rare, threatened and endangered species exist within ½ mile of the Site.

The primary natural resource in the vicinity of the Site is Lake Champlain, located approximately 800 feet east of the Site. The northern part of Lake Champlain, in the vicinity of Rouses Point, is categorized as a Class A water body, but is also designated as a Section 303(d) listed water because stress or impairment of human uses of bathing and fish consumption, respectively, but not for aquatic life, for which no impairment is identified. It is classified as a summer-stratified monomictic lake, with one thermal turnover per year. Although water quality is considered to be good to excellent in most of the lake, large lake trout and walleye fish consumption advisories are in place due to PCB and mercury contamination. The only identified source of PCB contamination is in Cumberland Bay near the mid-Section of the Lake, well south of Rouses Point. Mercury contamination is widespread, and is believed to arise from atmospheric deposition (NYSDEC, 2009).

Cover types, shown in **Figure 5**, consist mostly of pastureland, cropland, and forests to the west, and residential areas, consisting of mowed lawns with trees and flower gardens, to the north, south, and east of the Site. Ecological characteristics of each of these cover types is summarized below in Table 1.

Table 1: Characteristics of Nearby Ecological Communities

Ecological Community	Description	Characteristic Species
Pastureland	Agricultural land permanently maintained (or recently abandoned) as a pasture area for livestock.	Grasshopper sparrow, vesper sparrow, horned lark, killdeer, and upland sandpiper.
Mowed lawn with trees	Residential, recreational, or commercial land in which the groundcover is dominated by clipped grasses and forbs, and it is shaded by at least 30% cover of trees. Ornamental and/or native shrubs may be present, usually with less than 50% cover. The groundcover is maintained by mowing.	Characteristic animals include gray squirrel, American robin, mourning dove, and mockingbird.
Flower, herb garden	Residential, commercial, or horticultural land cultivated for the production of ornamental herbs and shrubs. This community includes gardens cultivated for the production of culinary herbs.	Characteristic birds include American robin and mourning dove.
Successional northern hardwood forest	A hardwood or mixed forest that occurs on sites that have been cleared or otherwise disturbed. Characteristic trees and shrubs include any of the following: quaking aspen, bigtooth aspen, balsam poplar, paper birch, or gray birch, pin cherry, black cherry, red maple, white pine, with lesser amounts of white ash, green ash and American elm. Northern indicators include aspens, birches, and pin cherry. This is a broadly defined community and several seral and regional variants are known.	Characteristic birds include chestnut-sided warbler, Nashville warbler in young forests with aspen and birch seedlings, and yellow-bellied sapsucker in mature aspen forests.

Ecological Community	Description	Characteristic Species
Lake Champlain	A summer-stratified monomictic lake, with only one period of mixing or turnover each year and one period of stratification. These lakes generally do not freeze over, so the water circulates and is isothermal during the winter. Lakes are typically thermally stratified only in the summer, and are oligotrophic to mesotrophic and alkaline.	Dominant fishes include salmonids such as cisco, and lake trout as well as yellow perch, rainbow smelt, rock bass, walleye, brown bullhead, white sucker and northern pike. Characteristic invertebrates may include the mollusks eastern, eastern lampmussel, pocketbook, pink heelsplitter, floaters, and mud amnicola. Characteristic aquatic macrophytes include pondweeds, naiad, waterweed, tapegrass, and coontail.

Source: Edinger, et al. 2002.

3. IDENTIFICATION OF POTENTIAL CONTAMINANT MIGRATION PATHWAYS

Migration pathways are the means by which contaminants present on-site can reach the fish and wildlife resources described in Section 2.0.

As described in Section 1.2, Site-related contaminants have been detected in groundwater on the facility property and on off-site properties immediately to the east. As indicated previously, groundwater flow at the Site is towards the east/southeast towards Lake Champlain. Groundwater from the Site is thus believed to eventually discharge into Lake Champlain, and so groundwater is the primary migration pathway by which site contaminants could reach the fish and wildlife resources of Lake Champlain. Groundwater discharge to the lake was evaluated using the most downgradient monitoring wells located approximately 200 feet upgradient from the lake, which contain contaminants above laboratory reporting limits.

As noted previously, Site soils are not considered to provide a complete pathway to fish and wildlife resources. The grass covered areas around the buildings and parking lots where surface soil sampling was previously conducted do not constitute a significant wildlife habitat, and no such habitats exist near the Site which could receive any soil contaminants through erosion or other means. No natural streams or water bodies exist on the Site. Drainage swales present around the Site are oriented primarily to direct stormwater runoff to storm drains, and are not located near AOCs where Site contaminants may reside. Thus, the surface water and sediment of these constructed features are unlikely to form complete pathways between contaminant sources and ecological receptors.

Thus, the natural flow of groundwater from the Site to the lake is the primary pathway by which Site constituents could reach downgradient fish and wildlife resources. At this point, no evidence exists that that contaminants are in fact reaching the lake in detectable quantities. However, as described in the following section, groundwater will be used as a surrogate medium for lake surface water in the identification of contaminants of potential concern.

4. IDENTIFICATION OF CONTAMINANTS OF POTENTIAL ECOLOGICAL CONCERN (COPECS)

Detected constituents in groundwater were evaluated by a systematic method that considered both constituent chemistry and groundwater composition in areas closest to Lake Champlain. The method and results are described below.

4.1 COPEC IDENTIFICATION METHODOLOGY

To determine whether constituents detected in groundwater should be designated as COPECs, groundwater data from off-site wells downgradient of the Site were evaluated with respect to both ecological benchmarks and the ability of detected constituents to bioaccumulate in aquatic organisms. Compounds exceeding benchmarks, or which have the potential to bioaccumulate, may be considered COPECs for the Site.

Ecological benchmarks are conservative, generic, and compound-specific screening values used primarily to eliminate from further consideration constituents likely to present a negligible risk to ecological receptors. They are typically drawn from promulgated regulations, such as state or federal water quality criteria, where available, or from other literature-based sources. Constituents with concentrations less than the benchmarks are removed from the assessment, while those that exceed the benchmark may be designated as COPECs and retained for further analysis.

For this assessment, New York State Ambient Water Quality Standards and Guidance Values were used as benchmarks, were available. For constituents not listed in New York State Ambient Water Quality Standards, Ecological Screening Levels compiled by EPA Region 5 were used (EPA, 2003). These values are typically water quality criteria or guidelines in use by various states or federal agencies, or in some cases developed by EPA Region 5 staff. For constituents not listed in Region 5 screening levels, benchmarks were drawn from values proposed by Oak Ridge National Laboratory (Suter and Tsao, 1996), a source widely used for ecological screening values. However, many Oak Ridge values are developed from relatively small data sets and so include large uncertainty factors, which introduces a large conservative error.

In addition, detected compounds in groundwater were also evaluated for their bioaccumulation potential, which was evaluated by reviewing the chemical characteristics of detected compounds. High bioaccumulation potential is generally associated with non-polar, hydrophobic compounds that can accumulate in the lipids or fat cells of exposed organisms. The tendency to bioaccumulate can generally be estimated by the octanol-water partition coefficient (Kow) which indicates numerically the preference of a compound to associate with the organic or aqueous phase. Compounds with log Kow values of less than 3.5 typically show little tendency towards bioaccumulation (EPA, 2002). Chlorinated VOCs typically have low log Kow values, and consequently tend to remain in the aqueous phase, causing slow uptake and rapid half-life in fish (USEPA, 1980 from Ramamoorthy, 1997). In this FWRIA, compounds with a low Kow of 3.5 or less are not assumed to bioaccumulate and so are evaluated by ecological benchmarks only.

For this assessment, groundwater from seven (7) monitoring wells located between the Site and Lake Champlain (see **Figure 2**) were evaluated relative to benchmarks and bioaccumulation potential, as described above. Groundwater sampling data from the last five years (2007 to April 2011) was included in the analysis. These wells are approximately 400 to 500 feet east from the Site boundary, and 200 – 400 feet west from Lake Champlain. Monitoring wells evaluated consist of the following:

- MW-16
- MW-17
- MW-17S
- MW-22
- MW-22S
- MW-39
- MW-39S

Monitoring well MW-16S was not included in the evaluation since it has historically been dry since installation. As depicted on **Figure 2**, the wells are clusters and consist of a shallow well screened in the upper till unit (designated by an "S") and a deeper well screened in the lower till unit above bedrock. The above-listed wells are the closest wells to Lake Champlain, and thus provide the best available depiction of the composition of groundwater near the lake. The available groundwater sampling results indicate that the concentrations of constituents in groundwater downgradient of the Site appear to be stable. Thus, these wells serve as an appropriate but conservative surrogate means of estimating potential exposures when groundwater discharges to surface water in Lake Champlain.

Concentrations of constituents in these wells are compared to surface water benchmarks to identify COPECs. No consideration of the effects of dilution or degradation that will occur in groundwater or surface water downgradient of the wells was incorporated into the comparison, which in consequence represents a very conservative estimate of potential exposure.

4.2 COPEC IDENTIFICATION RESULTS

Table 2 shows the results of the bioaccumulation and benchmark screening for groundwater. The table shows the individual groundwater sample results for the seven (7) wells included in the assessment, as well as the maximum detected concentration and ecological benchmark for each constituent. Also shown is the log Kow values for detected compounds.

As shown in Table 2, a total of 23 constituents have been detected in low to trace quantities in off-site, downgradient groundwater. With the exception of di-n-butylphthalate, none of the constituents has a log Kow of greater than 3.5, so none are likely to bioaccumulate significantly. Di-n-butylphthalate, which has a log Kow of 4.5, is a component of plastics that is often detected as an artifact of sampling and analysis in laboratory samples. The reported value of 0.4 JB micrograms per liter (µg/L) was also detected in the associated laboratory blank, as indicated by the "B" qualifier; this detection is thus not considered to be representative of a true detection, in accord with EPA guidance (EPA, 1989). No log Kow value is available for either butyl ester hexadecanoic acid or butyl ester octadecanoic acid; however, bioaccumulation potential is likely to be low, based on the log Kow of 2.19 of the similar butyl ester propanthioic acid. Likewise, neither barium nor chromium are considered to be bioaccumating inorganics (EPA, 2000). Thus, none of the 23 constituents detected in groundwater are designated as COPECs based on the ability to bioaccumulate.

As also shown in Table 2, all concentrations were well below ecological benchmarks. Some constituents did not have a benchmark, but most of these constituents were not detected in off-site wells. The highest concentrations of any organic constituents detected in downgradient, off-site groundwater was 27 µg/L

for acetone (well below the applicable benchmark of 1,700 μg/L) and carbon tetrachloride at 26 D μg/L (well below the applicable benchmark of 240 μg/L).

Because no constituents were detected above applicable benchmarks and none are likely to bioaccumulate, none of the 23 constituents detected were designated as COPECs.

5. SUMMARY AND CONCLUSIONS: POTENTIAL FOR ADVERSE EFFECT

The potential for adverse effect to the fish and wildlife resources surrounding the Pfizer Rouses Point facility was evaluated by identifying the types of resources present near the Site, the potential migration pathways between the Site and the resources, and the type and concentration of constituents that have the potential to move along the migration pathways.

The evaluation of resources and migration pathways showed that, while a variety of upland habitats exist in the generally rural area around the Site, the primary natural area of potential impact is Lake Champlain, located approximately 800 feet east of the Site. Site-related constituents are present in on-site and off-site groundwater, which flows towards Lake Champlain. A potentially complete migration pathway thus may exist for Site constituents between the Site and the sediments and surface waters of the lake. No evidence exists indicating that Site-related constituents have in fact reached the lake.

The composition of constituents in groundwater in off-site wells downgradient of the Site was evaluated as a surrogate means of estimating the potential condition of groundwater discharging to the lake. These off-site, downgradient wells are located 200 – 400 feet from the edge of the lake (**Figure 2**). To identify COPECs, groundwater data from off-site, downgradient wells were evaluated with respect to both ecological benchmarks and the ability of detected constituents to bioaccumulate. As noted previously, no consideration of the effects of dilution or degradation that will occur in groundwater or surface water downgradient of the wells was incorporated into the evaluation, which in consequence represents a very conservative estimate of potential exposure.

Based on this assessment, the concentrations of constituents detected in the downgradient wells are not expected to present a potential for adverse effects to the aquatic resources of Lake Champlain. Constituents detected in the easternmost downgradient wells have low bioaccumulation potential (as indicated by a log Kow of less than 3.5 for organic compounds), and the maximum concentrations of all detected constituents were well below benchmark values.

No further ecological assessment is recommended at this time. Further monitoring of the on-site and off-site monitoring well network is anticipated and future results will be compared to the benchmarks in this report if the concentrations of constituents increase.

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Table 2
FWRIA Groundwater Monitoring Well Analytical Results and Benchmark Screening
2006 to 2011
Pfizer
Rouses Point, NY

	Off-Site Monitoring Wells													
Constituent	**MW-16** 10/11/2007	**MW-16** 4/14/2008	**MW-16** 10/14/2009	**MW-16** 10/14/2009	**MW-16** 12/7/2010	**MW-16** 12/7/2010	**MW-16** 3/24/2011	**MW-17** 10/11/2007	**MW-17** 4/14/2008	**MW-17** 10/15/2009	**MW-17** 10/15/2009	**MW-17** 12/8/2010	**MW-17** 12/8/2010	**MW-17** 3/28/2011
Volatile Organic Compounds (µg/l)	***via 8260B***	***via 8260B***	***via 524.2***	***via 8260B***	***via 524.2***	***via 8260B***	***via 8260B***	***via 8260B***	***via 8260B***	***via 524.2***	***via 8260B***	***via 524.2***	***via 8260B***	***via 8260B***
Acetone	<10	<10	NA	<10	NA	<10 UJ	<10	<10	<10	NA	<10	NA	<10	<10
1,1,2-Trichloroethane	<5	<5	<0.5	<5	<0.5	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
1,2-Dichloroethane	**1J**	<5	**0.77**	**0.65 J**	<0.5	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
Bromodichloromethane	**0.8J**	<5	**0.82**	**0.74 J**	**0.22 J**	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
Carbon Disulfide	<5	<5	NA	<5	NA	<1	<1	<5	<5	NA	<5	NA	<1	<1
Carbon Tetrachloride	**0.8J**	**2J**	**0.61**	**0.48 J**	**1.7**	**1.5**	**0.91 J**	<5	<5	<0.5	<5	<0.5	<1	<1
Chloroform	**12**	**4J**	**9.1**	**7.6**	**4.1**	**4.1**	**2.3**	**3J**	<5	<0.5	<5	<0.5	<1	<1
Chloromethane	<5	<5	<0.5	<5	<0.5	<1	<1	<5	<5	**0.22 J**	<5	<0.5	<1	<1
cis-1,2-Dichloroethene	**5**	**4J**	**3.9**	**3.1 J**	**4.6**	**4.5**	**3.2**	**1J**	<5	<0.5	<5	<0.5	<1	<1
Ethylbenzene	<5	<5	<0.5	<5	<0.5	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
trans-1,2-Dichloroethene	<5	<5	**0.32 J**	<5	<0.5	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
Tetrachloroethene	<5	<5	<0.5	<5	<0.5	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
Toluene	<5	<5	<0.5	<5	<0.5	<1	<1	<5	<5	<0.5	<5	<0.5	<1	<1
Trichloroethene	**2J**	**2J**	**1.7**	**1.5 J**	**3.3**	**3.2**	**2.5**	<5	<5	<0.5	<5	<0.5	<1	<1
Xylenes, Total	<10	<10	<1.0	<10	<1.0	<2	<2	<10	<10	<1.0	<10	<1.0	<2	<2
Tentatively Identified Compound (TICs)														
Trimethylsilanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylthiophene	ND	ND	ND	ND	ND	ND	**0.96 J**	ND	ND	ND	ND	ND	ND	ND
Total Unknown TICs	ND	ND	ND	ND	**1.2**	**3.0**	ND	ND	ND	ND	ND	ND	ND	**2.8**
Semi-Volatile Organic Compounds (µg/l)														
Di-n-butyl phthalate	**0.4BJ**	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Tentatively Identified Compound (TICs)														
Butyl Ester Hexadecanoic Acid	ND	NA	NA	NA	NA	NA	NA	**22JN**	NA	NA	NA	NA	NA	NA
Butyl Ester Octadecanoic Acid	ND	NA	NA	NA	NA	NA	NA	**19JN**	NA	NA	NA	NA	NA	NA
Unknown Propanol Derivatives	ND	NA	NA	NA	NA	NA	NA	**6BJ**	NA	NA	NA	NA	NA	NA
Total Unknown TICs	**219**	NA	NA	NA	NA	NA	NA	**88**	NA	NA	NA	NA	NA	NA
Total Unfiltered Metals (µg/l)														
Barium	**61.3**	NA	NA	NA	NA	NA	NA	**134**	NA	NA	NA	NA	NA	NA
Chromium	**0.84B**	NA	NA	NA	NA	NA	NA	**0.90B**	NA	NA	NA	NA	NA	NA

Table 2
FWRIA Groundwater Monitoring Well Analytical Results and Benchmark Screening
2006 to 2011
Pfizer
Rouses Point, NY

	Off-Site Monitoring Wells														
Constituent	**MW-17S** 12/17/2009	**MW-17S**[(1)] 12/17/2009	**MW-17S** 12/8/2010	**MW-17S** 3/30/2011	**MW-22** 10/14/2009	**MW-22** 10/14/2009	**MW-22** 4/7/2010	**MW-22** 4/7/2010	**MW-22** 12/7/2010	**MW-22** 3/25/2011	**MW-22S** 10/16/2009	**MW-22S** 10/16/2009	**MW-22S** 4/8/2010	**MW-22S** 4/8/2010	**MW-22S** 3/25/2011
Volatile Organic Compounds (µg/l)	***via 524.2***	***via 8260B***	***via 8260B***	***via 8260B***	***via 524.2***	***via 8260B***	***via 524.2***	***via 8260B***	***via 8260B***	***via 8260B***	***via 524.2***	***via 8260B***	***via 524.2***	***via 8260B***	***via 8260B***
Acetone	NA	<50	<10	**27**	NA	<10	NA	<10	<10 UJ	<10 UJ	NA	<10 U	NA	<10	<10 UJ
1,1,2-Trichloroethane	**0.41 J**	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	<0.5	<5	<1
1,2-Dichloroethane	<0.5	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	<0.5	<5	<1
Bromodichloromethane	<0.5	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	<0.5	<5	<1
Carbon Disulfide	NA	**2.6 J**	<1	<1	NA	<5	NA	<5	<1	<1	NA	<5	NA	<5	<1
Carbon Tetrachloride	<0.5	<25	<1	<1	**6.0**	**4.8 J**	**8.4**	**6.8**	**6.7**	**3.9**	<0.5	<5	<0.5	<5	<1
Chloroform	<0.5	<25	<1	<1	**8.6**	**7.2**	**7.1**	**7.0**	**6.3**	**3.3**	<0.5	<5	<0.5	<5	<1
Chloromethane	<0.5	<25	<1	<1	<0.5 U	<5	<0.5	<5	<1	<1 UJ	<0.5	<5	<0.5	<5	<1
cis-1,2-Dichloroethene	<0.5	<25	<1	<1	**5.2**	**4.2 J**	**7.6**	**7.1**	**12**	**3.9**	<0.5	<5	<0.5	<5	<1
Ethylbenzene	<0.5	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	<0.5	<5	<1
trans-1,2-Dichloroethene	<0.5	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	<0.5	<5	<1
Tetrachloroethene	<0.5	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	<0.5	<5	<1
Toluene	<0.5	<25	<1	<1	<0.5	<5	<0.5	<5	<1	<1	<0.5	<5	**0.2 J**	<5	<1
Trichloroethene	<0.5	<25	<1	<1	**0.66**	**0.62 J**	**2.6**	**2.6 J**	**4.6**	**2.0**	<0.5	<5	<0.5	<5	<1
Xylenes, Total	<1.0	<50	<2	<2	<1.0	<10	<1.0	<10	<2	<2	<1.0	<10	<1.0	<10	<2
Tentatively Identified Compound (TICs)															
Trimethylsilanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylthiophene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown TICs	ND	ND	ND	ND	ND	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (µg/l)															
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tentatively Identified Compound (TICs)															
Butyl Ester Hexadecanoic Acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl Ester Octadecanoic Acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unknown Propanol Derivatives	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Unknown TICs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Unfiltered Metals (µg/l)															
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
FWRIA Groundwater Monitoring Well Analytical Results and Benchmark Screening
2006 to 2011
Pfizer
Rouses Point, NY

	Off-Site Monitoring Wells				Summary						
Constituent	**MW-39 4/19/2011**	**MW-39 4/19/2011**	**MW-39S 4/19/2011**	**MW-39S 4/19/2011**	**Minimum Reporting Limit**	**Maximum Reporting Limit**	**Log K_{ow}**	**Maximum Detected**	**Surface Water Ecological Benchmark**	**Benchmark Source**	**Maximum Exceeds Benchmark?**
Volatile Organic Compounds (µg/l)	***via 524.2***	***via 8260B***	***via 524.2***	***via 8260B***							
Acetone	NA	<10 UJ	**3.0**	<10 UJ	<10	<50	-0.24	27	1700	EPA Region 5	No
1,1,2-Trichloroethane	<0.5	<1	<0.5	<1	<0.5	<25	2.0	0.41 J	500	EPA Region 5	No
1,2-Dichloroethane	<0.5	<1 UJ	<0.5	<1 UJ	<0.5	<25	1.83	1 J	910	EPA Region 5	No
Bromodichloromethane	<0.5	<1	<0.5	<1	<0.5	<25	1.61	0.82	NA	NA	No
Carbon Disulfide	<0.5	<1	<0.5	<1	<0.5	<5	1.94	2.6 J	15	EPA Region 5	No
Carbon Tetrachloride	**26 D**	**21**	**1.7**	**1.8**	<0.5	<25	2.44	26 D	240	EPA Region 5	No
Chloroform	**18 D**	**13**	<0.5	<1	<0.5	<25	1.52	18 D	140	EPA Region 5	No
Chloromethane	<0.5	<1	<0.5	<1	<0.5	<25	1.09	0.22 J	NA	NA	No
cis-1,2-Dichloroethene	<0.5	<1	<0.5	<1	<0.5	<25	1.98	12	590	Suter and Tsao 1996	No
Ethylbenzene	**0.28 J**	<1	<0.5	<1	<0.5	<25	3.03	0.28 J	17	NYSDEC AWQ Guidance Value	No
trans-1,2-Dichloroethene	<0.5	<1	<0.5	<1	<0.5	<25	1.98	0.32 J	970	EPA Region 5	No
Tetrachloroethene	**0.42 J**	<1	<0.5	<1	<0.5	<25	2.97	0.42 J	45	EPA Region 5	No
Toluene	<0.5	<1	<0.5	<1	<0.5	<25	2.54	0.2 J	100	NYSDEC AWQ Guidance Value	No
Trichloroethene	**1.1**	**1.0**	<0.5	<1	<0.5	<25	2.47	4.6	47	EPA Region 5	No
Xylenes, Total	**0.52 J**	<2	<1.0	<2	<1.0	<50	3.09	0.52 J	65	NYSDEC AWQ Guidance Value	No
Tentatively Identified Compound (TICs)											
Trimethylsilanol	**1.8 D**	ND	ND	ND	ND	ND	1.14	1.8 D	NA	NA	No
2-Methylthiophene	ND	ND	ND	ND	ND	ND	2.33	0.96 J	NA	NA	No
Total Unknown TICs	**1.1 D**	ND	**6.41**	ND	ND	ND	NA	6.41	NA	NA	No
Semi-Volatile Organic Compounds (µg/l)											
Di-n-butyl phthalate	NA	NA	NA	NA	<5	<5	4.5	0.4BJ	35	Suter and Tsao 1996	No
Tentatively Identified Compound (TICs)											
Butyl Ester Hexadecanoic Acid	NA	NA	NA	NA	NA	NA	NA	22JN	NA	NA	No
Butyl Ester Octadecanoic Acid	NA	NA	NA	NA	NA	NA	NA	19JN	NA	NA	No
Unknown Propanol Derivatives	NA	NA	NA	NA	NA	NA	NA	6BJ	NA	NA	No
Total Unknown TICs	NA	NA	NA	NA	NA	NA	NA	219	NA	NA	No
Total Unfiltered Metals (µg/l)											
Barium	NA	NA	NA	NA	NA	NA	NA	134	220	EPA Region 5	No
Chromium	NA	NA	NA	NA	NA	NA	NA	0.90B	74.1	NYSDEC AWQ Standard*	No

Table 2
Groundwater Monitoring Well Analytical Results - VOCs
2006 to 2011
Pfizer
Rouses Point, NY

Notes:

(1) = Sample diluted due to excessive foaming.

"MW-XX" = Deeper monitoring well screened in the lower glacial till.

"MW-XXS" = Shallow monitoring well screened in the upper glacial till.

Volatile Organic Compound (VOC) analysis via EPA Methods 8260B and 524.2 as indicated.

All groundwater analyses conducted via NYSDEC 2005 Analytical Services Protocol.

Bold value indicates detection of constituent above the laboratory reporting limit.

ND = Analyte not detected at or above the laboratory reporting limit.

NA = Not analyzed.

-- = Not established.

µg/l = micrograms per liter or parts per billion (ppb).

Only constituents detected are shown in the above table. See laboratory analytical data sheets for complete analyte lists.

Samples were qualified by the laboratory, data validation, and/or EPA CLP National Functional Guidelines for Organic Data Review (October 1999).

Organic Data Qualifiers

D = Sample was diluted due to high concentration of target analyte(s).

J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

E = Compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

N = Indicates presumptive evidence of a compound. This flag is used only for TICs, where the identification is based on the mass spectral library search.

B = Analyte is found in the associated laboratory blank as well as in the sample.

U = Sample concentrations of target compounds less than 5X (less than 10X for acetone) the concentration detected in equipment blanks are considered undetected, "U".

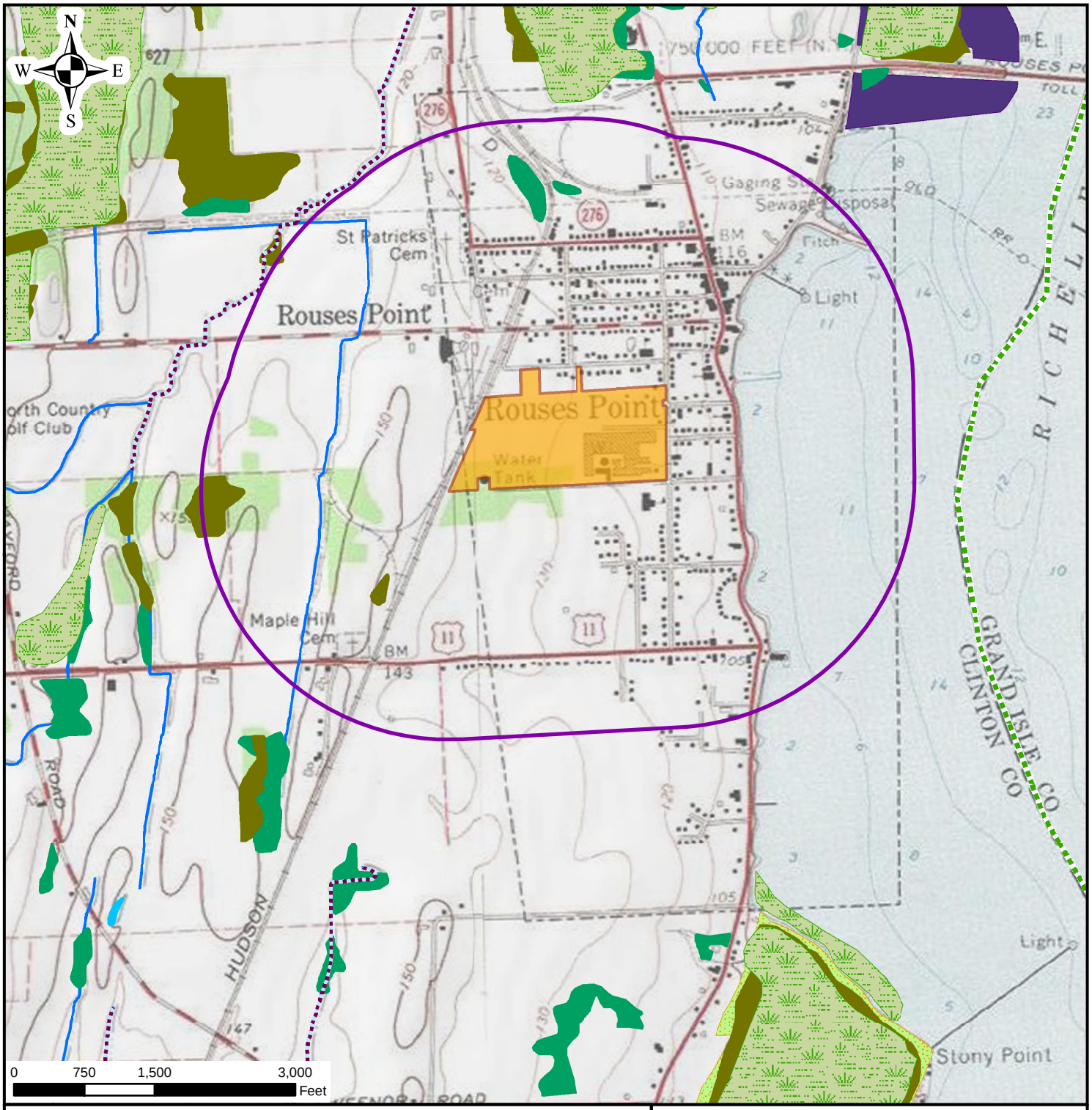
UJ = Indicates an estimated non-detect value due to an exceedance of quality control limits in the continuing calibration verification (CCV).

Inorganic Data Qualifiers

B = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

Benchmark sources: See Section 6 of text.

Only detected compounds shown for VOC TIC analysis results



Legend

- Project Area
- Half Mile Buffer
- Bird Conservation Areas (None in View)
- Streams
- Quarter Mile Buffer
- Coastal Habitats (None in View)
- Estuary (None in View)

NYS Regulated Wetlands

- NYS Regulated Wetlands

National Wetlands Inventory

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

DEC Lands

- TRAILWAY
- WILDLIFE MANAGEMENT

Water Quality Classification

- Class AA Waters
- Class D Waters

FIGURE 4

Fish and Wildlife Resources

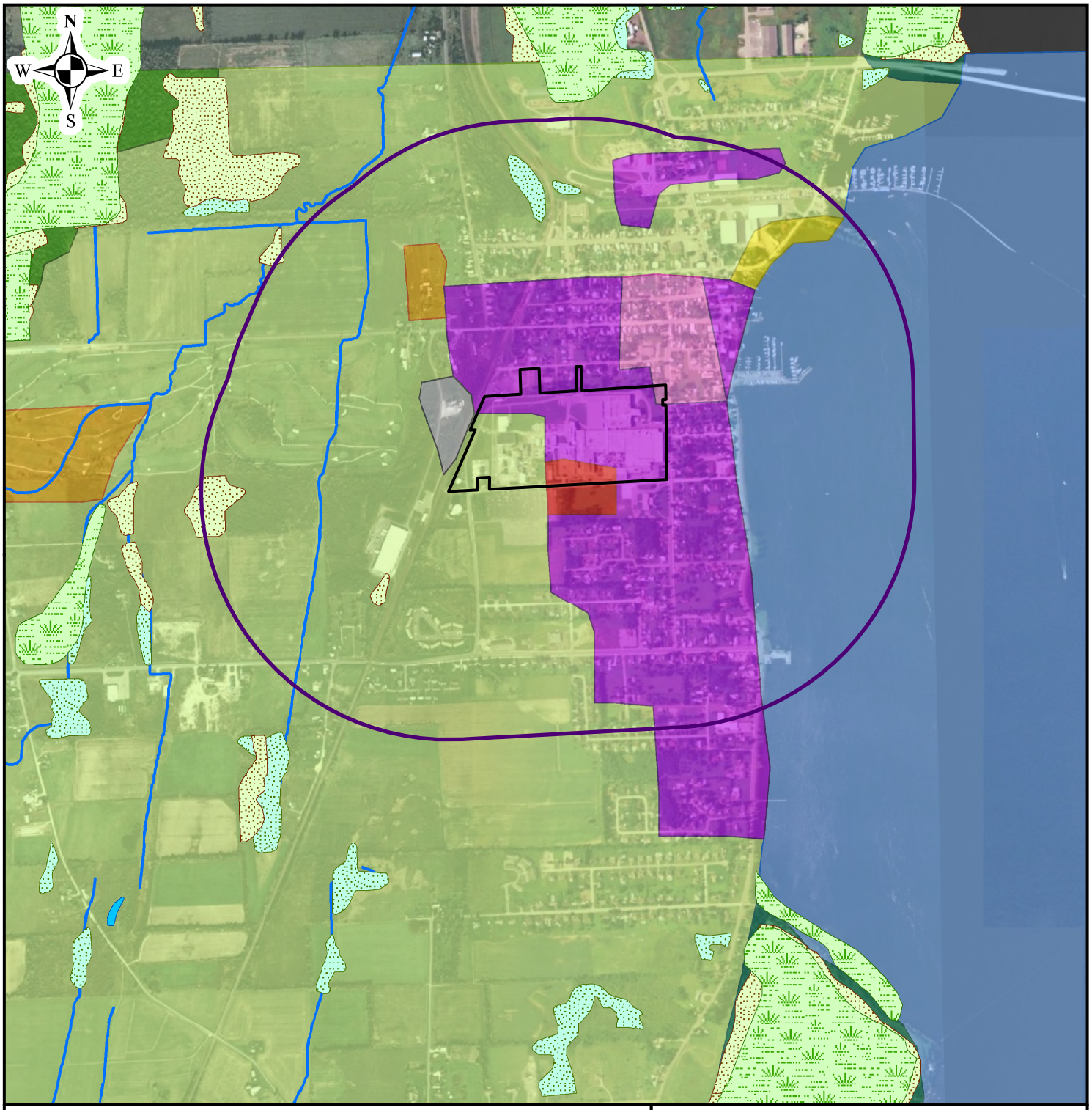
Pfizer Rouses Point Facility

WOODARD &CURRAN

DATE: August 2011	Scale: 1 "=1,500 '
Drawn By: JS	DOC: FishAndWildlife.MXD

Sources:
CUGIR, National Wetlands Inventory, NY DEC, NY GIS.

Basemap Source:
USGS Champlain and Rouses Point Topographical Quads



Legend

- Project Area
- Half Mile Buffer
- Streams

NYS Regulated Wetlands

- NYS Regulated Wetlands

National Wetlands Inventory

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

USGS Land Cover Type

- Cropland and Pasture
- Forested Wetland
- Mixed Forest Land
- Lakes
- Transportation, Communication, Utilities
- Commercial and Services
- Residental
- Mixed Urban or Built-up Land
- Other Urban or Built-up Land
- Industrial

FIGURE 5

Cover Types

Pfizer Rouses Point Facility

WOODARD &CURRAN

DATE: August 2011	Scale: 1 "=1,500 '
Drawn By: JS	DOC: CoverTypes.MXD

Sources:
CUGIR, National Wetlands Inventory, NY DEC, NY GIS, USGS.

APPENDIX A: LISTED SPECIES CORRESPONDENCE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov

Joe Martens
Acting Commissioner

March 1, 2011

Jon Sturm
Woodard & Curran
41 Hutchins Drive
Portland, MA 04102

Dear Mr. Sturm:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the proposed Remediation Project – Wyeth Rouses Point Facility, site as indicated on the map you provided, located at Rouses Point, Town of Champlain, Clinton County.

Enclosed is a report of rare or state-listed animals and plants, significant natural Communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or natural communities. This information should not be substituted for on-site surveys that may be required.

The enclosed report may be included in documents that will be available to the public. However, any enclosed maps displaying locations of rare species are considered sensitive information, and are intended only for the internal use of the recipient; they should not be included in any document that will be made available to the public, without permission from the New York Natural Heritage Program.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,
Tara Salerno
Tara Salerno, Information Services,
New York Natural Heritage Program

Enc.
cc: Region 5

184

[redacted]

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor, Albany, NY
12233-4757
(518) 402-8935

~The information in this report includes only records entered into the NY Natural Heritage databases as of the date of the report. This report is not a definitive statement on the presence or absence of all rare species or significant natural communities at or in the vicinity of this site.
~Refer to the User's Guide for explanations of codes, ranks and fields.
~Location maps for certain species and communities may not be provided 1) if the species is vulnerable to disturbance, 2) if the location and/or extent is not precisely known, 3) if the location and/or extent is too large to display, and/or 4) if the animal is listed as Endangered or Threatened by New York State.

Natural Heritage Report on Rare Species and Ecological Communities

FISH

Notropis heterodon

Office Use 11392

Blackchin Shiner

NY Legal Status:	Unlisted	**NYS Rank:**	S1 - Critically imperiled
Federal Listing:		**Global Rank:**	G5 - Secure
Last Report:	1998-07-31	**EO Rank:**	Fair or Poor
County:	Clinton		
Town:	Champlain		
Location:	Lake Champlain Rouses Point		
General Quality and Habitat:	The element occurrence rank is based on a comparison to other sites in New York State. The fish were observed in a lake.		

1 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org, from NatureServe Explorer at http://www.natureserve.org/explorer, from NYSDEC at http://www.dec.ny.gov/animals/7494.html (for animals), and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

More detailed information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org. For descriptions of all community types, go to http://www.dec.ny.gov/animals/29384.html and click on Draft Ecological Communities of New York State.

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,
Albany, NY 12233-4757
(518) 402-8935

HISTORICAL RECORDS

The following plants and animals were documented in the vicinity of the project site at one time, but have not been documented there since 1979 or earlier, or there is uncertainty regarding their continued presence.
There is no recent information on these plants and animals in the vicinity of the project site and their current status there is unknown. [redacted]

If appropriate habitat for these plants or animals is present in the vicinity of the project site, it is possible that they may still occur there.

Natural Heritage Report on Rare Species and Ecological Communities

VASCULAR PLANTS

Callitriche hermaphroditica

Office Use 441

Autumnal Water-starwort

NY Legal Status: Endangered
Federal Listing:
Last Report: 1956-08-16

NYS Rank: S1 - Critically imperiled
Global Rank: G5 - Secure
EO Rank: Historical, no recent information; Failed to find during most recent search

M

County: Clinton
Town: Champlain
Location: Rouses Point
Directions: Rouses Point.
General Quality and Habitat:

---

1 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org, from NatureServe Explorer at http://www.natureserve.org/explorer, from NYSDEC at http://www.dec.ny.gov/animals/7494.html (for animals), and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

APPENDIX E: DISCUSSION OF TOTAL CHROMIUM RESULTS

Middlesex Corporate Center
213 Court Street | 4th Floor
Middletown, CT 06457
www.woodardcurran.com

T 800.426.4262
F 860.955.1828

Via Electronic Mail

December 20, 2022

Cecia Bicknell
NYSDEC- RCRA Permitting Section
Bureau of Hazardous Waste and Radiation Management
Division of Materials Management
625 Broadway
Albany New York 12233

Re: Discussion of Total Chromium Results
Pfizer, Rouses Point, NY (NYD002081396)

Dear Cecia:

On behalf of Pfizer, Woodard & Curran is submitting this response to the New York State Department of Environmental Conservation's (NYSDEC) comments on the potential presence of hexavalent chromium at the Rouses Point facility. The comments arose from the NYSDEC review of the September 2022 Revised Draft Corrective Measures Study as discussed during meetings with the NYSDEC and the New York State Department of Health (NYSDOH).

Chromium is a naturally-occurring element found in rocks, animals, plants, and soil, where it exists in combination with other elements to form various compounds. The toxicity of chromium varies with its valence state and hexavalent chromium is more toxic than trivalent chromium. Industries with the largest contribution to chromium release include metal processing, tannery facilities, chromate production, stainless steel welding, and ferrochrome and chrome pigment production (ATSDR, 2012)[1]. The Rural Soil Background Concentration (RSBC) for New York State soils for trivalent chromium is 30 mg/kg (NYSDEC and NYSDOH, 2006)[2].

Constituents of concern for each SWMU or AOC were identified in the 2006 Sampling and Analysis Plan based on a review of historical operations, chemical use and storage, and specific incidents of chemical spills/releases for each SWMU or AOC. Constituents of concern included some or all of the following: volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), alcohols (isopropyl alcohol and methanol), and RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver).

In accordance with NYSDEC approved Sampling and Analysis Plans, during investigation activities soil samples were analyzed for total chromium. No analysis for chromium speciation (i.e., to distinguish between trivalent and hexavalent chromium) was conducted at the Site except for the SWMU-22 investigation. Where analyzed, total chromium was detected sitewide in every soil sample at concentrations ranging from 3.3 to 23.9 mg/kg which are above the

[1] Agency for Toxic Substances and Disease Registry (ATSDR), 2012. Toxicological Profile for Chromium. September.
[2] NYSDEC and NYSDOH, 2006. New York State Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document. September.

NYSDEC Unrestricted Use Soil Cleanup Objective (SCO) for hexavalent chromium of 1 mg/kg but below the Unrestricted Use SCO for trivalent chromium of 30 mg/kg. The results are also below the Restricted-Residential, Commercial, and Industrial SCOs for hexavalent and trivalent chromium. These results are also below the RSBC of 30 mg/kg.

As presented in the Main Plant-specific SWMU and AOC Sampling and Analysis Report (Main Plant SWMU/AOC SAR), four samples from SMWU-22 were analyzed for total chromium and hexavalent chromium. As shown in the attached table, total chromium concentrations ranged from 12 to 21.6 mg/kg and hexavalent chromium concentrations ranged from non-detect (reporting limit 0.28 mg/kg) to 0.32 mg/kg. The total chromium results from SMWU-22 are consistent with the higher end of the site-wide concentration range and therefore the corresponding speciated results are considered a conservative method demonstrating compliant results.

Based on the consistent and ubiquitous presence of chromium in soil at the Site, the compliant speciated hexavalent chromium results for SWMU-22, and the lack of any documented use of chromium in the pharmaceutical manufacturing processes at the Site, it is unlikely that the detected total chromium concentrations contain a significant ratio of hexavalent chromium. Therefore, it is appropriate to compare the detected total chromium concentrations to trivalent chromium SCOs.

Thank you for your attention on this matter. If you have any questions, feel free to contact Nick Hastings at 203-699-6154 or Eric Gaulin at 908-901-7463.

Sincerely,

WOODARD & CURRAN, INC.

Kimberly Reinauer, PE
Technical Manager

Nicholas Hastings, PG
Project Director

Enclosure:
Table 8: SWMU-22 – Building 20 Courtyard Waste Oil Storage Sheds from the Main Plant Sampling and Analysis Report

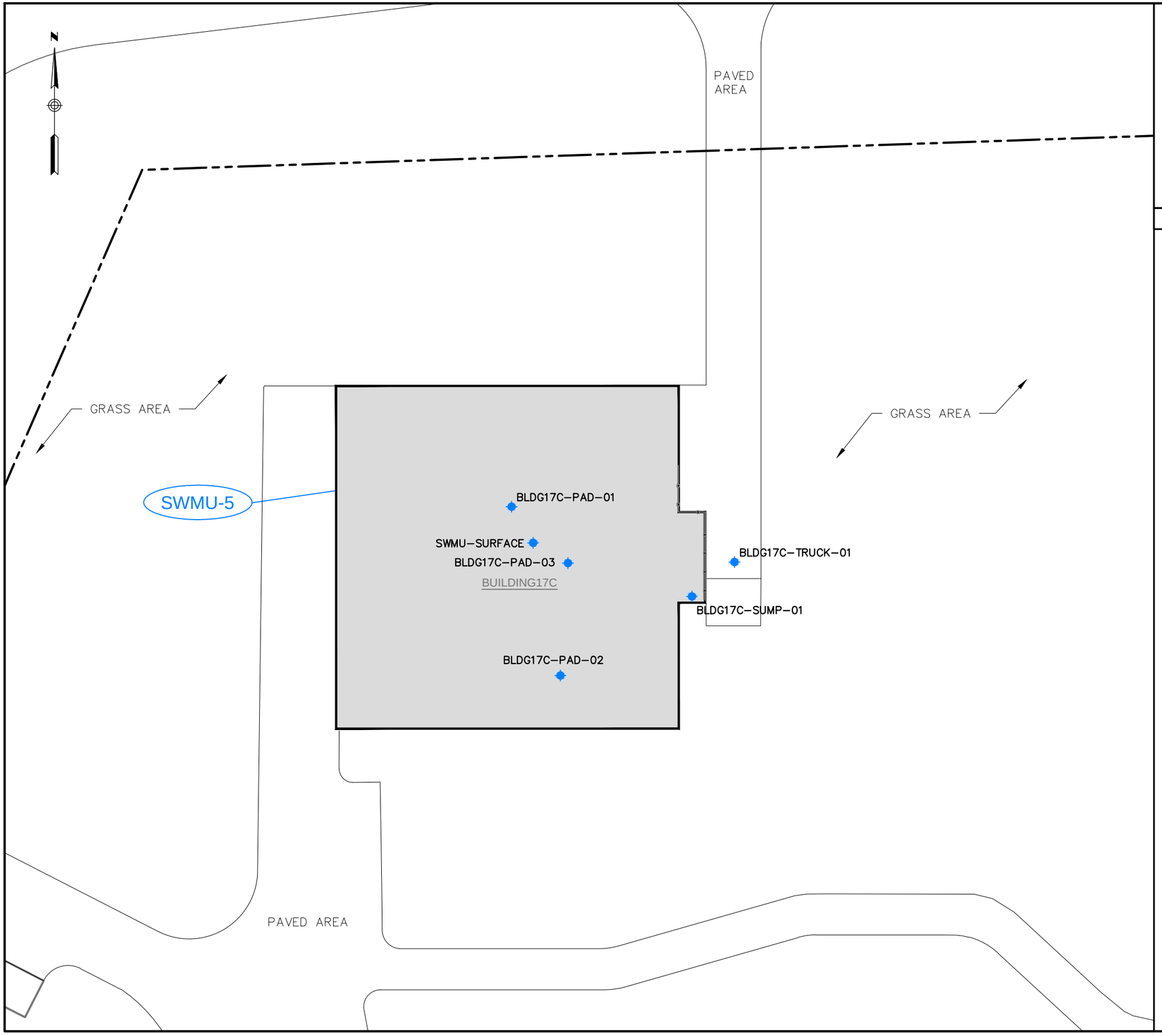
cc: Eric Gaulin (Pfizer)
Tom Donohue (Pfizer)
Lynn M. Winterberger (NYSDEC)
Jack Markey (W&C)

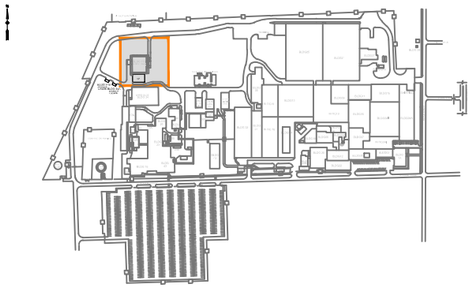
PN: 206910

Table 8: SWMU-22 - Building 20 Courtyard Waste Oil Storage Sheds
Main Plant Sampling and Analysis Report
Wyeth Pharmaceuticals, LLC
Rouses Point, New York

				Sample ID:	22-BLDG 20-COURTYARD-01 (0-2')		22-BLDG 20 COURTYARD-02 (0-2')		22-BLDG 20-COURTYARD-03 (0-2')		22-BLDG 20 COURTYARD-04 (0-2')	
				Lab ID:	480-139286-2		480-139286-13		480-139286-7		480-139286-14	
				Sample Date:	07/19/2018 14:44		07/19/2018 15:15		07/19/2018 15:36		07/19/2018 16:15	
				Sample Depth (ft bgs):	0-2'		0-2'		0-2'		0-2'	
	NYSDEC Unrestricted Use	NYSDEC Residential Restricted Use	NYSDEC Commercial Restricted Use	NYSDEC Protection of Groundwater	MS/MSD							
Volatile Organic Compounds (VOC) (ug/kg)												
1,2-Dichloroethane	20	2300	60000	20	<	5.6	<	3.8	UJ	4.5	<	3.5
2-Butanone (MEK)	120	100000	100000	120	<	28	<	19	<	22	<	17
Acetone	50	100000	500000	50	<	28	<	19	<	22	<	17
cis-1,2-Dichloroethene	250	59000	500000	250	<	5.6	<	3.8	<	4.5	<	3.5
Ethylbenzene	1000	30000	390000	1000	<	5.6	<	3.8	<	4.5	<	3.5
Styrene					<	5.6	<	3.8	UJ	4.5	<	3.5
Tetrachloroethene	1300	5500	150000	1300	<	5.6	<	3.8	<	4.5	<	3.5
Toluene	700	100000	500000	700	<	5.6	<	3.8	<	4.5		**0.52 J**
Trichloroethene	470	10000	400000	470	<	5.6	<	3.8	<	4.5	<	3.5
Semivolatiles by 8270D (ug/kg)												
Benzo(a)anthracene	1000	1000	5600	1000	<	200	<	200		**35 J**		**300 J**
Benzo(a)pyrene	1000	1000	1000	22000	<	200	<	200		**31 J**		**310 J**
Benzo(b)fluoranthene	1000	1000	5600	1700	<	200	<	200		**43 J**		**410 J**
Benzo(g,h,i)perylene	100000	100000	500000	100000	<	200	<	200		**23 J**		**220 J**
Fluoranthene	100000	100000	500000	1000000	<	200		**42 J**		**100 J**		**790 J**
Indeno(1,2,3-cd)pyrene	500	500	5600	8200	<	200	<	200		**31 J**		**300 J**
Phenanthrene	100000	100000	500000	1000000	<	200	<	200		**78 J**		**400 J**
Pyrene	100000	100000	500000	1000000	<	200		**40 J**		**78 J**		**620 J**
PCBs by 8082A (mg/kg)												
PCB-1254					<	0.25	<	0.24	<	0.28	<	0.23
Total PCBs	1	1	1	3.2		ND		ND		ND		ND
Metals by 6010C (mg/kg)												
Arsenic	13	16	16	16		**2.9**		**2.6**		**2.9**		**7.0**
Barium	350	400	400	820		**57.6 J**		**71.8 J**		**97.4 J**		**53.4 J**
Cadmium	2.5	4.3	9.3	7.5		**0.17 J**		**0.16 J**		**0.17 J**		**0.24**
Chromium (Total)						**19.7 J**		**24.7 J**		**32.2 J**		**17.5 J**
Total Chromium (resampled 9/21/18)[3]						**18.7**		**21.6**		**19.2**		**12.0**
Hexavalent Chromium (resampled 9/21/18)[3]	1	22	400	19		**0.28 J**		**0.32 J**	<	0.28		**0.30 J**
Trivalent Chromium (resampled 9/21/18)[3]	30	36	1300			**18.4**		**21.3**		**19.2**		**11.7**
Lead	63	400	1000	450		**7.8**		**7.5**		**9.5**		**12.7**
Metals by 7471B (mg/kg)												
Mercury	0.18	0.81	2.8	0.73		**0.018 J**	<	0.022		**0.023 J**		**0.19**

APPENDIX F: SOIL CONDITIONS FIGURES





KEY MAP

LEGEND

APPROXIMATE CHEMICAL DEVELOPMENT PLANT SITE BOUNDARY

SOIL SAMPLING LOCATIONS (2014–2015)

NOTE:

1. ALL BUILDINGS AT THE CHEMICAL DEVELOPMENT PLANT HAVE BEEN DEMOLISHED.

0 30' 60'

SCALE IN FEET

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SOIL INVESTIGATION LOCATIONS – SWMU-5

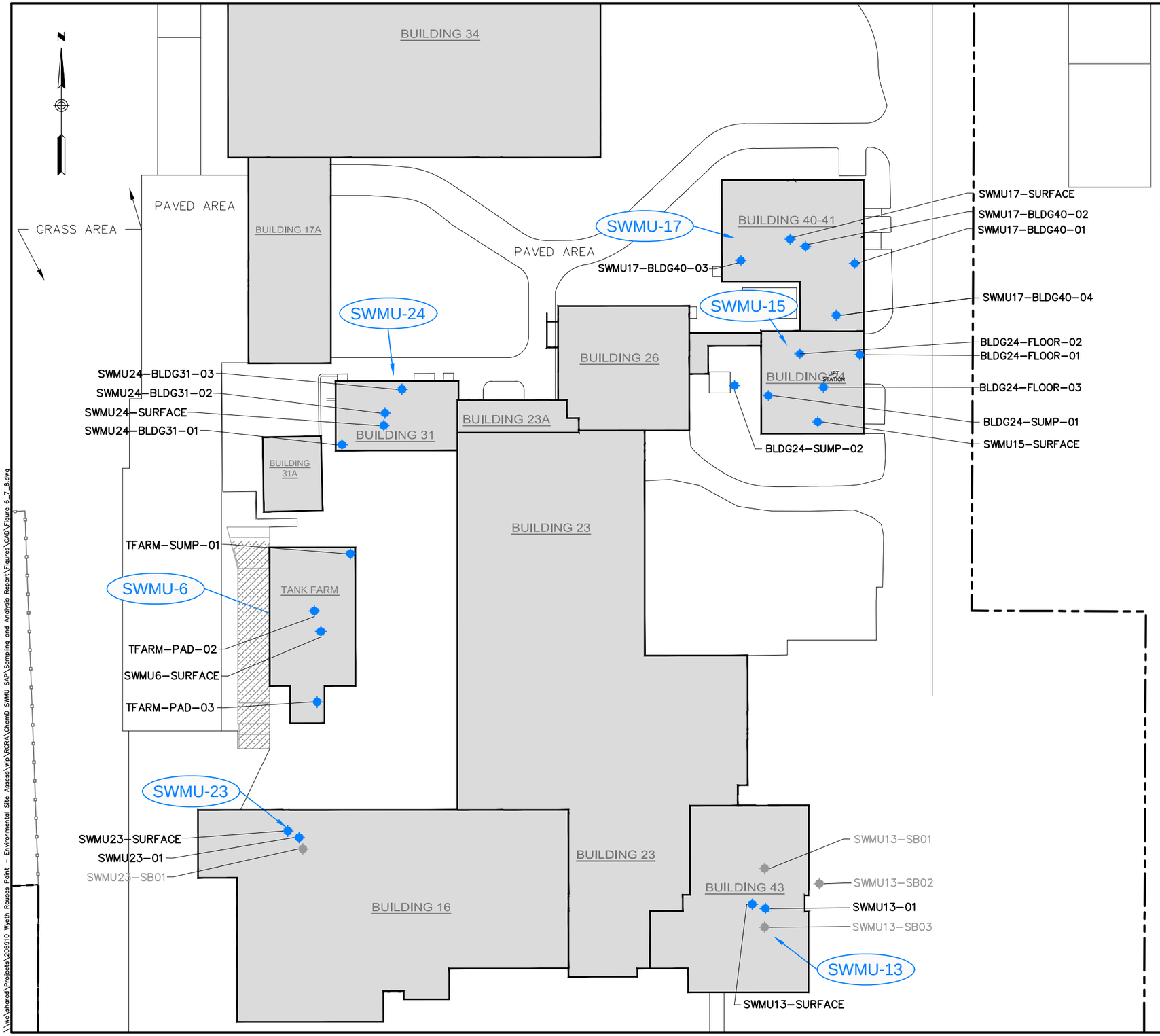
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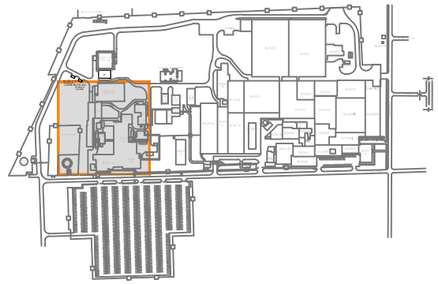
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CHEMICAL DEVELOPMENT PILOT PLANT
SAMPLING AND ANALYSIS REPORT

JOB NO: 206910
DATE: MARCH 2016
SCALE: AS NOTED

FIGURE 7





KEY MAP

LEGEND

- APPROXIMATE SITE BOUNDARIES
- APPROXIMATE CHEMICAL DEVELOPMENT PLANT SITE BOUNDARY
- PREVIOUS SOIL BORING LOCATION (2006–2011)
- SOIL SAMPLING LOCATION (2014–2015)
- SWMU–6: TANK FARM TRUCK CONTAINMENT PAD–NFA APPROVED

NOTE:

1. ALL BUILDINGS AT THE CHEMICAL DEVELOPMENT PLANT HAVE BEEN DEMOLISHED.

0 50' 100'

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SOIL INVESTIGATION LOCATIONS – SWMU–6, 13, 15, 17, 23, AND 24

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Figure 6_7_8.dwg

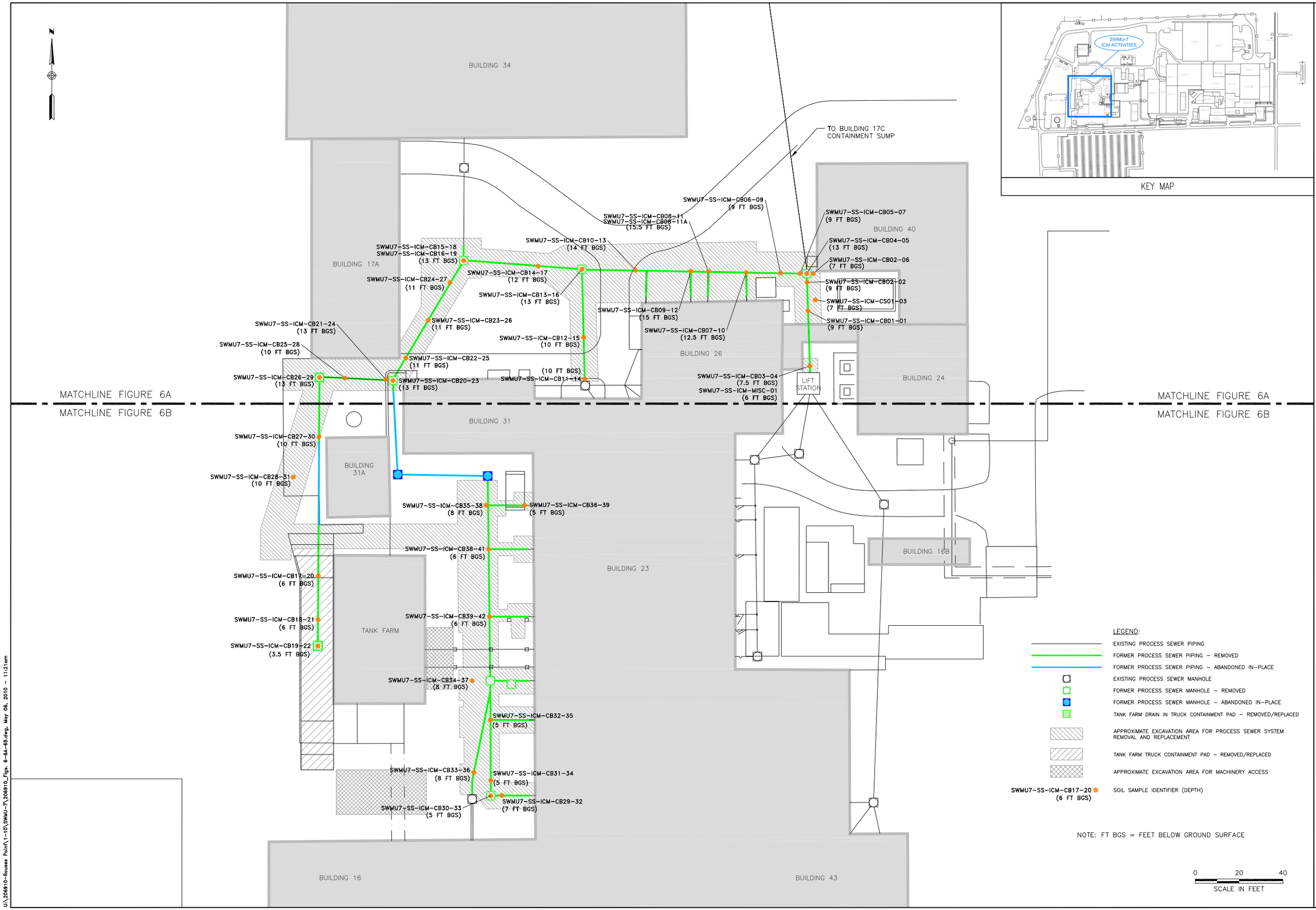
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CHEMICAL DEVELOPMENT PILOT PLANT
SAMPLING AND ANALYSIS REPORT

JOB NO: 206910
DATE: MARCH 2016
SCALE: AS NOTED

FIGURE 8

\\wc\shared\Projects\206910 Wyeth Rouses Point - Environmental Site Assess\wip\RCRA\ChemD SWMU SAP\Sampling and Analysis Report\Figures\CAD\Figure 6_7_8.dwg



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POST-EXCAVATION CONFIRMATION SOIL SAMPLING LOCATIONS

WYETH PHARMACEUTICALS, INC.
ROUSES POINT, NEW YORK

ICM COMPLETION REPORT
SWMU-7 PROCESS SEWER

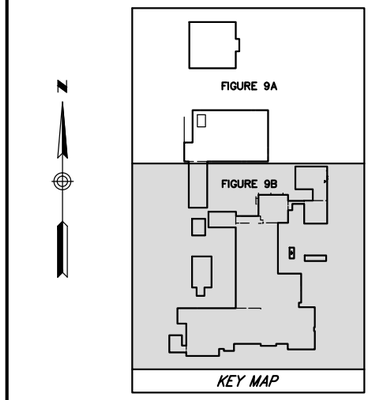
JOB NO.:206910
DATE: MAY 2010
SCALE: AS NOTED
SHEET: OF

FIGURE 6

U:\206910-Rouses Point\1-10\SWMU-7\206910_Figs. 6-6A-6B.dwg, May 06, 2010 - 11:21am

MATCHLINE
FIGURE 9A

MATCHLINE
FIGURE 9A



BUILDING 17A
BUILDING 40-41
BUILDING 26
BUILDING 24
BUILDING 31
BUILDING 23A
BUILDING 31A
BUILDING 23
TANK FARM
BUILDING 16
BUILDING 43

SWMU7–BLDG26–01
SWMU7–BLDG23–17
SWMU7–BLDG23–18
SWMU7–BLDG23–19
SWMU26–BLDG23–01
SWMU7–BLDG23–20
SWMU26–BLDG23–02
SWM26–SURFACE
SWMU7–BLDG23–15
SWMU26–BLDG23–03
SWMU7–BLDG23–21
SWMU26–BLDG23–04
SWMU7–BLDG23–22
SWMU7–BLDG23–06
SWMU7–EAST–01
SWMU7–BLDG23–03
SWMU7–BLDG23–05
SWMU7–BLDG23–16
SWMU7–EAST–02
SWMU7–BLDG23–01
SWMU7–BLDG23–02
SWMU7–BLDG23–04
SWMU7–BLDG23–07
SWMU7–BLDG23–14
SWMU7–EAST–03
SWMU7–BLDG23–10
SWMU7–BLDG23–25
SWMU7–BLDG23–09
SWMU7–BLDG23–13
SWMU7–BLDG23–23
SWMU7–BLDG23–24
SWMU7–BLDG23–08
SWMU7–BLDG23–11
SWMU7–BLDG23–12
SWMU26–BLDG16–04
SWMU26–BLDG16–03
SWMU26–BLDG16–02
SWMU7–BLDG16–02
SWMU7–SURFACE
SWMU7–BLDG16–12
SWMU26–BLDG16–01
SWMU7–BLDG16–01
SWMU7–BLDG16–03
SWMU7–BLDG16–05
SWMU7–BLDG16–04
SWMU7–BLDG16–07
SWMU7–BLDG16–06
SWMU7–BLDG16–09
SWMU7–BLDG16–08
SWMU7–BLDG16–14
SWMU7–BLDG16–11
SWMU7–BLDG16–15
SWMU7–BLDG16–13
SWMU7–BLDG16–10

MH–12
MH–5
MH–15
MH–7
MH–6
MH–9
MH–14
CAPPED CONNECTION

0 40’ 80’
SCALE IN FEET

LEGEND
- APPROXIMATE SITE BOUNDARY
- PREVIOUS SOIL BORING LOCATION (2010)
- SWMU–7 SOIL SAMPLING LOCATION (2014–2015)
- SWMU–26 SOIL SAMPLING LOCATION (2014–2015)
- SWMU–7: PROCESS SEWER INVESTIGATED 2014–2015
- SWMU–7: PROCESS SEWER ICM – NFA APPROVED
- SWMU–6: TANK FARM TRUCK CONTAINMENT PAD – NFA APPROVED

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SOIL INVESTIGATION LOCATIONS – SWMU–7 AND SWMU–26

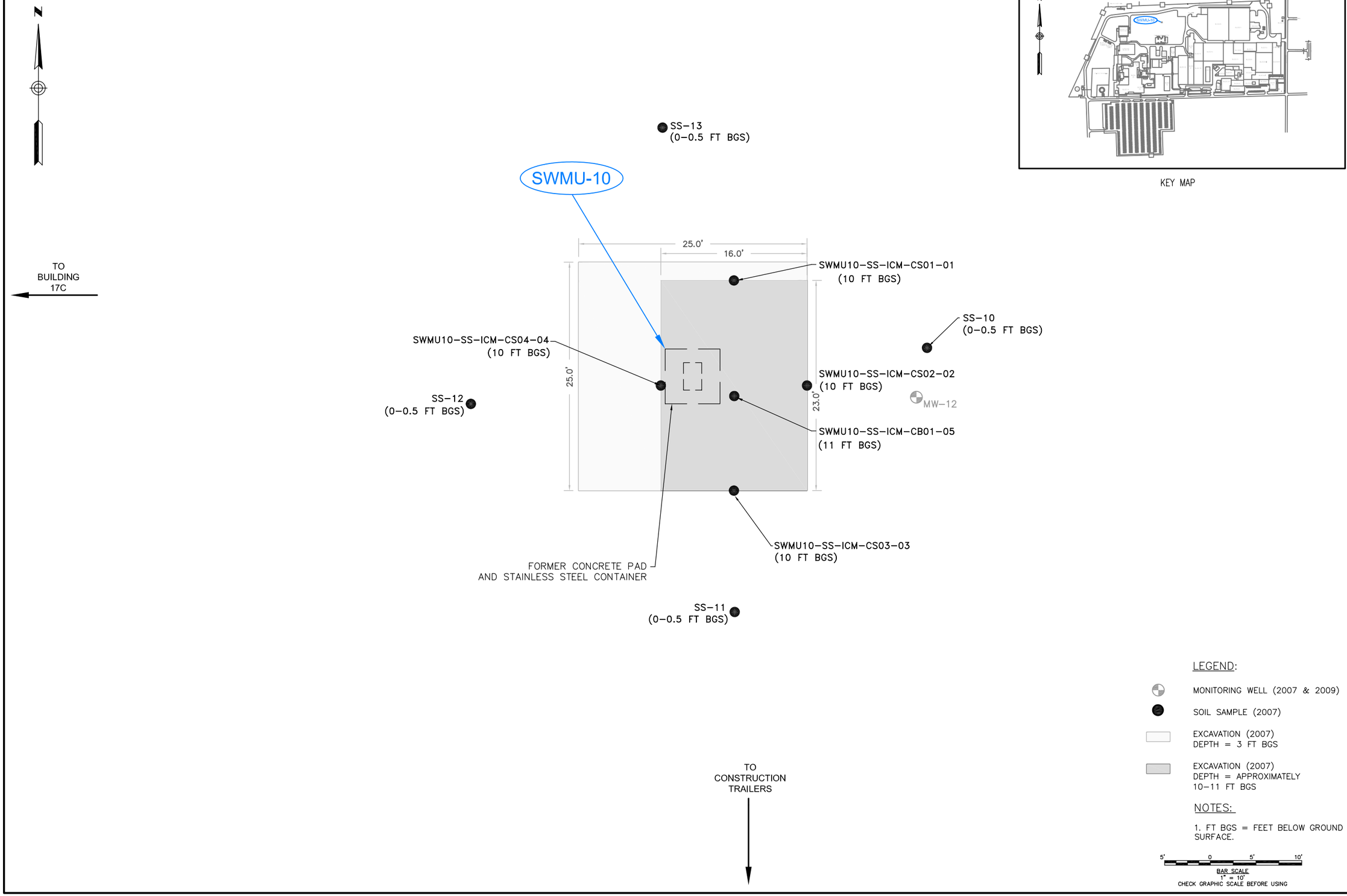
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CHEMICAL DEVELOPMENT PILOT PLANT
SAMPLING AND ANALYSIS REPORT

JOB NO: 206910
DATE: MARCH 2016
SCALE: AS NOTED

FIGURE 9B



KEY MAP

LEGEND:

- MONITORING WELL (2007 & 2009)
- SOIL SAMPLE (2007)
- EXCAVATION (2007) DEPTH = 3 FT BGS
- EXCAVATION (2007) DEPTH = APPROXIMATELY 10-11 FT BGS

NOTES:

1. FT BGS = FEET BELOW GROUND SURFACE.

5' 0 5' 10'

BAR SCALE
1" = 10'
CHECK GRAPHIC SCALE BEFORE USING

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COMMITMENT & INTEGRITY DRIVE RESULTS

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ICM EXCAVATION AND SOIL SAMPLING LOCATIONS

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CHECKED BY: DW
206910_SWMU 10 REPORT.dwg

WYETH PHARMACEUTICALS, INC.
ROUSES POINT, NEW YORK

SWMU-10 NORTH FIELD
FIRE FIGHTING TRAINING AREA 2

JOB NO: 206910
DATE: APRIL 2010
SCALE: 1" = 10'

FIGURE 4

PAVED AREA

SWMU1–TP01
SWMU1–TP02
SWMU1–SURFACE
SWMU1–SB11
SWMU1–SB01
SWMU1–SB12
SWMU1–SB02
SWMU1–TP03
SWMU1–SB03
SWMU1–SB05
SWMU1–TP04
SWMU1–SB04
SWMU1–SB06
SWMU1–SB13
SWMU1–SB07
SWMU1–SB14
SWMU1–SB08
SWMU1–SB09
SWMU1–SB10

BUILDING 34
BUILDING 17A
BUILDING 31
BUILDING 31A
BUILDING 23A
BUILDING 23
BUILDING 26
BUILDING 40-41
BUILDING 24
BUILDING 16
BUILDING 43
TANK FARM

SWMU-1

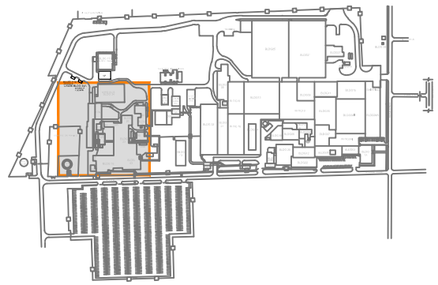
PAVED AREA

GRASS AREA

SWMU12–SB03
SWMU12–SB05
SWMU12–SURFACE
SWMU12–SB06
SWMU12–SB04
SWMU12–SB01
SWMU12–SB02
SWMU4–SB03
SWMU4–SB01
SWMU4–SB04
SWMU4–SB02
SWMU4–SB05
SWMU4–SB08
SWMU4–SURFACE
SWMU4–SB06
SWMU4–SB07

SWMU-12
SWMU-4

WATER TANK



KEY MAP

LEGEND

- APPROXIMATE SITE BOUNDARIES
- APPROXIMATE CHEMICAL DEVELOPMENT PLANT SITE BOUNDARY
- PREVIOUS SOIL BORING LOCATION (2006–2010)
- SOIL SAMPLING LOCATION (2015)

NOTE:

1. ALL BUILDINGS AT THE CHEMICAL DEVELOPMENT PLANT HAVE BEEN DEMOLISHED.

0 60' 120'

SCALE IN FEET

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COMMITMENT & INTEGRITY DRIVE RESULTS

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SOIL INVESTIGATION LOCATIONS – SWMU–1, SWMU–4 & SWMU–12

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Figure 6_7_8.dwg

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CHEMICAL DEVELOPMENT PILOT PLANT
SAMPLING AND ANALYSIS REPORT

JOB NO: 206910
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FIGURE 6

\\wc\shared\Projects\206910 Wyeth Rouses Point – Environmental Site Assess\wip\RCRA\ChemD SWMU SAP\Sampling and Analysis Report\Figures\CAD\Figure 6_7_8.dwg

APPENDIX G: CORRECTIVE MEASURE COST ESTIMATES

APPENDIX G
COST ESTIMATE

Table G-1:
Excavation and Offsite Disposal - Unrestricted Scenario

COST SUMMARY

CAPITAL COSTS		
Construction Activities		
Pre-Design Investigation	$	207,000
Site Preparation	$	194,000
Excavation and Disposal	$	5,632,000
Backfill and Restoration	$	1,110,000
SUBTOTAL - Excavation and Offsite Disposal	$	7,250,000
Contingency (15%)	$	1,088,000
TOTAL Excavation and Offsite Disposal	**$**	**8,340,000**
Professional/ Technical Services		
Project Management	$	363,000
Remedial Design	$	580,000
Construction Management	$	435,000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**1,378,000**
TOTAL CAPITAL COSTS	**$**	**9,720,000**
TOTAL PRESENT VALUE (7%)	**$**	**9,720,000**
Total Present Value Range (-30 %)	**$**	**6,900,000**
Total Present Value Range (+50 %)	**$**	**14,600,000**

APPENDIX G
COST ESTIMATE

Table G-1:
Excavation and Offsite Disposal - Unrestricted Scenario

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 120,000	$ 120,000	assumes 16 locations
Analysis	1	LS	$ 7,000	$ 7,000	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 80,000	$ 80,000	
SUBTOTAL:				**$ 207,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 20,000	$ 20,000	
Concrete Removal	17,000	SF	$ 10	$ 170,000	
Erosion and Sediment Control	540	LF	$ 6	$ 3,200	
SUBTOTAL:				**$ 194,000**	
Excavation and Disposal					
Excavation and Loading	15,200	CY	$ 29	$ 437,000	
Sheetpile	14,040	SF	$ 52	$ 726,600	
Stabilize saturated soils	13,222	tons	$ 26	$ 349,800	
Dewatering	1	LS	$ 223,000	$ 223,000	frac tanks; GAC treatment; disposal to onsite sewer
Transportation/Disposal, hazardous waste	8,340	tons	$ 288	$ 2,397,800	Assume 60 % saturated soil is hazardous waste, 5% increase in weight from stabilized saturated soil.
Transportation/Disposal, non-hazardous waste	15,138	tons	$ 86	$ 1,305,700	Assume top 10 feet and 40% of sat is non-haz
Waste Characterization Samples	46	EA	$ 968	$ 44,600	1 sample/500 tons
Verification Samples	95	EA	$ 129	$ 12,300	VOCs, base of excavation and side walls
Sampling and Oversight Labor	1	LS	$ 135,000	$ 135,000	assume 25 weeks of oversight
SUBTOTAL:				**$ 5,632,000**	
Backfill and Restoration					
Backfill (imported and placed)	17,480	CY	$ 46	$ 804,100	1.15 bulking factor
Restore Concrete	17,000	SF	$ 15	$ 255,000	
Replace Monitoring Wells	1	LS	$ 50,000	$ 50,000	installation, development, and waste management
SUBTOTAL:				**$ 1,110,000**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
SUBTOTAL - Excavation and Offsite Disposal				$ 7,250,000	
Contingency			15%	$ 1,088,000	
TOTAL Excavation and Offsite Disposal				**$ 8,340,000**	
Professional/ Technical Services					
Project Management	5%			$ 363,000	per USACE and USEPA, 2000
Remedial Design	8%			$ 580,000	per USACE and USEPA, 2001
Construction Management	6%			$ 435,000	per USACE and USEPA, 2002
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 1,378,000**	
TOTAL - CAPITAL COSTS				**$9,720,000**	

APPENDIX G
COST ESTIMATE

Table G-2:
Excavation and Offsite Disposal - Residential and Restricted Residential Scenarios

COST SUMMARY

CAPITAL COSTS			
Construction Activities			
Pre-Design Investigation		$	182,000
Site Preparation		$	127,000
Excavation and Disposal		$	4,308,000
Backfill and Restoration		$	698,000
New Well Installation		$	100,000
Institutional Controls		$	25,000
	SUBTOTAL - Excavation and Offsite Disposal	$	5,440,000
	Contingency (15%)	$	816,000
	TOTAL Excavation and Offsite Disposal	**$**	**6,260,000**
Professional/ Technical Services			
Project Management		$	272,000
Remedial Design		$	435,000
Construction Management		$	326,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**1,033,000**
TOTAL CAPITAL COSTS		**$**	**7,300,000**
TOTAL PRESENT VALUE (7%)		**$**	**7,300,000**
	Total Present Value Range (-30 %)	**$**	**5,200,000**
	Total Present Value Range (+50 %)	**$**	**11,000,000**

APPENDIX G
COST ESTIMATE

Table G-2:
Excavation and Offsite Disposal - Residential and Restricted Residential Scenarios

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 105,000	$ 105,000	assumes 14 locations
Analysis	1	LS	$ 6,250	$ 6,250	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 70,000	$ 70,000	
SUBTOTAL:				**$ 182,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 20,000	$ 20,000	
Concrete Removal	10,400	SF	$ 10	$ 104,000	
Erosion and Sediment Control	420	LF	$ 5	$ 2,300	
SUBTOTAL:				**$ 127,000**	
Excavation and Disposal					
Excavation and Loading	9,300	CY	$ 29	$ 267,400	
Sheetpile	10,920	SF	$ 52	$ 565,200	
Stabilize saturated soils	8,089	tons	$ 26	$ 214,000	
Dewatering	1	LS	$ 179,000	$ 179,000	frac tanks; GAC treatment; disposal to onsite sewer
Transportation/Disposal, hazardous waste	8,500	tons	$ 288	$ 2,443,800	Assume hazardous waste, 5% increase in weight from stabilized saturated soil.
Transportation/Disposal, non-hazardous waste	5,861	tons	$ 86	$ 505,600	Assume top 10 feet is non-haz
Waste Characterization Samples	28	EA	$ 968	$ 27,100	1 sample/500 tons
Verification Samples	63	EA	$ 129	$ 8,100	VOCs, base of excavation and side walls
Sampling and Oversight Labor	1	LS	$ 97,200	$ 97,200	assume 18 weeks of oversight
SUBTOTAL:				**$ 4,308,000**	
Backfill and Restoration					
Backfill (imported and placed)	10,695	CY	$ 46	$ 492,000	1.15 bulking factor
Restore Concrete	10,400	SF	$ 15	$ 156,000	
Replace Monitoring Wells	1	LS	$ 50,000	$ 50,000	installation, development, and waste management
SUBTOTAL:				**$ 698,000**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
Institutional Controls					
Environmental Easement	1	LS	$ 25,000	$ 25,000	
SUBTOTAL:				**$ 25,000**	
SUBTOTAL - Excavation and Offsite Disposal				$ 5,440,000	
Contingency			15%	$ 816,000	
TOTAL Excavation and Offsite Disposal				**$ 6,260,000**	
Professional/ Technical Services					
Project Management	5%			$ 272,000	6% per USACE and USEPA, 2000
Remedial Design	8%			$ 435,000	12% per USACE and USEPA, 2000
Construction Management	6%			$ 326,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 1,033,000**	
TOTAL - CAPITAL COSTS				**$ 7,300,000**	

APPENDIX G
COST ESTIMATE

Table G-3:
Excavation and Offsite Disposal - Commercial Scenario

COST SUMMARY

CAPITAL COSTS		
Construction Activities		
Pre-Design Investigation		$ 130,000
Site Preparation		$ 40,000
Excavation and Disposal		$ 980,000
Backfill and Restoration		$ 136,000
New Well Installation		$ 100,000
Institutional Controls		$ 25,000
	SUBTOTAL - Excavation and Offsite Disposal	$ 1,411,000
	Contingency (20%)	$ 212,000
	TOTAL Excavation and Offsite Disposal	**$ 1,623,000**
Professional/ Technical Services		
Project Management		$ 85,000
Remedial Design		$ 169,000
Construction Management		$ 113,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$ 367,000**
TOTAL CAPITAL COSTS		**$ 1,990,000**

Total Present Value Range (-30 %)	**$ 1,400,000**
Total Present Value Range (+50 %)	**$ 3,000,000**

APPENDIX G
COST ESTIMATE

Table G-3:
Excavation and Offsite Disposal - Commercial Scenario

CAPITAL COSTS

		QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities						
Pre-Design Investigation						
Drilling		1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis		1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor and Expenses		1	LS	$ 50,000	$ 50,000	
	SUBTOTAL:				**$ 130,000**	
Site Preparation						
Mobilization/ Demobilization		1	LS	$ 20,000	$ 20,000	
Concrete Removal		1,800	SF	$ 10	$ 18,000	
Erosion and Sediment Control		220	LF	$ 5	$ 1,200	
	SUBTOTAL:				**$ 40,000**	
Excavation and Disposal						
Excavation and Loading		1,500	CY	$ 29	$ 43,200	
Sheetpile		5,720	SF	$ 52	$ 296,100	
Stabilize saturated soils		1,350	tons	$ 26	$ 35,800	
Dewatering		1	LS	$ 122,000	$ 122,000	frac tanks; GAC treatment; disposal to onsite sewer
Transportation/Disposal, hazardous waste		1,500	tons	$ 288	$ 431,300	Assume hazardous waste, 5% increase in weight from stabilized saturated soil. Assume top 10 feet remain
Waste Characterization Samples		4	EA	$ 968	$ 3,900	1 sample/500 tons, 4 sample min
Verification Samples		32	EA	$ 129	$ 4,200	VOCs, base of excavation and side walls, 3 excavations
Sampling and Oversight Labor		1	LS	$ 43,200	$ 43,200	assume 8 weeks of oversight
	SUBTOTAL:				**$ 980,000**	
Backfill and Restoration						
Backfill (imported and placed)		1,035	CY	$ 46	$ 47,700	1.15 bulking factor
Backfill (reuse of top 10 feet)		600	CY	$ 17	$ 10,400	
Restore Concrete		1,800	SF	$ 15	$ 27,000	
Replace Monitoring Wells		1	LS	$ 50,000	$ 50,000	installation, development, and waste management
	SUBTOTAL:				**$ 136,000**	
New Well Installation						
New Well Installation		2	EA	$ 50,000	$ 100,000	
	SUBTOTAL:				**$ 100,000**	
Institutional Controls						
Environmental Easement		1	LS	$ 25,000	$ 25,000	
	SUBTOTAL:				**$ 25,000**	
	SUBTOTAL - Excavation and Offsite Disposal				$ 1,411,000	
	Contingency			15%	$ 212,000	
TOTAL Excavation and Offsite Disposal					**$ 1,623,000**	
Professional/ Technical Services						
Project Management		6%			$ 85,000	6% per USACE and USEPA, 2000
Remedial Design		12%			$ 169,000	12% per USACE and USEPA, 2000
Construction Management		8%			$ 113,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES					**$ 367,000**	
TOTAL - CAPITAL COSTS					**$ 1,990,000**	

APPENDIX G
COST ESTIMATE

Table G-4:
Excavation and Offsite Disposal - Industrial Scenario

COST SUMMARY

CAPITAL COSTS		
Construction Activities		
Site Preparation	$	23,000
Excavation and Disposal	$	578,000
Backfill and Restoration	$	67,000
New Well Installation	$	100,000
Institutional Controls	$	25,000
SUBTOTAL - Excavation and Offsite Disposal	$	846,000
Contingency (20%)	$	169,000
TOTAL Excavation and Offsite Disposal	**$**	**1,015,000**
Professional/ Technical Services		
Project Management		
Remedial Design	$	102,000
Construction Management	$	68,000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**221,000**
TOTAL CAPITAL COSTS	**$**	**1,240,000**
TOTAL PRESENT VALUE (7%)	**$**	**1,240,000**
Total Present Value Range (-30 %)	**$**	**900,000**
Total Present Value Range (+50 %)	**$**	**1,900,000**

APPENDIX G
COST ESTIMATE

Table G-4:
Excavation and Offsite Disposal - Industrial Scenario

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 30,000	$ 30,000	assumes 4 locations
Analysis	1	LS	$ 2,500	$ 2,500	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 20,000	$ 20,000	
SUBTOTAL:				**$ 53,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 20,000	$ 20,000	
Concrete Removal	300	SF	$ 4	$ 1,050	
Erosion and Sediment Control	220	LF	$ 5	$ 1,100	
SUBTOTAL:				**$ 23,000**	
Excavation and Disposal					
Excavation and Loading	300	CY	$ 29	$ 8,700	
Sheetpile	5,720	SF	$ 52	$ 296,100	
Stabilize saturated soils	300	tons	$ 26	$ 8,000	
Dewatering	1	LS	$ 111,000	$ 111,000	frac tanks; GAC treatment; disposal to onsite sewer
Transportation/Disposal, hazardous waste	400	tons	$ 288	$ 115,000	Assume hazardous waste, 5% increase in weight from stabilized saturated soil. Assume top 10 feet remain onsite.
Waste Characterization Samples	4	EA	$ 968	$ 3,900	1 sample/500 tons, 4 sample min
Verification Samples	16	EA	$ 129	$ 2,100	VOCs, base of excavation and side walls, 3 excavations
Sampling and Oversight Labor	1	LS	$ 32,400	$ 32,400	assume 6 weeks of oversight
SUBTOTAL:				**$ 578,000**	
Backfill and Restoration					
Backfill (imported and placed)	230	CY	$ 46	$ 10,600	1.15 bulking factor
Backfill (reuse of top 10 feet)	100	CY	$ 17	$ 1,800	
Restore Concrete	300	SF	$ 15	$ 4,500	
Replace Monitoring Wells	1	LS	$ 50,000	$ 50,000	installation, development, and waste management
SUBTOTAL:				**$ 67,000**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
Institutional Controls					
Environmental Easement	1	LS	$ 25,000	$ 25,000	
SUBTOTAL:				**$ 25,000**	
SUBTOTAL - Excavation and Offsite Disposal				$ 846,000	
Contingency			20%	$ 169,000	
TOTAL Excavation and Offsite Disposal				**$ 1,015,000**	
Professional/ Technical Services					
Project Management	6%			$ 51,000	6% per USACE and USEPA, 2000
Remedial Design	12%			$ 102,000	12% per USACE and USEPA, 2000
Construction Management	8%			$ 68,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 221,000**	
TOTAL - CAPITAL COSTS				**$ 1,240,000**	

APPENDIX G
COST ESTIMATE

Table G-5:
ISCR Injection Cost Estimate - Unrestricted Scenario

COST SUMMARY

CAPITAL COSTS			
Construction Activities			
Pre-Design Investigation		$	207,000
Site Preparation		$	60,000
In Situ Injections		$	2,027,000
New Well Installation		$	100,000
Confirmation Sampling		$	439,000
	SUBTOTAL - In Situ Injections	$	2,833,000
	Contingency (30%)	$	850,000
	TOTAL In Situ Injections	**$**	**3,683,000**
Professional/ Technical Services			
Project Management		$	142,000
Remedial Design		$	227,000
Construction Management		$	170,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**539,000**
TOTAL CAPITAL COSTS		**$**	**4,230,000**
TOTAL		**$**	**4,230,000**
	Total Present Value Range (-30 %)	**$**	**2,970,000**
	Total Present Value Range (+50 %)	**$**	**6,350,000**

APPENDIX I
COST ESTIMATE

Table G-5:
ISCR Injection Cost Estimate - Unrestricted Scenario

CAPITAL COSTS

		QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities						
Pre-Design Investigation						
Drilling		1	LS	$ 120,000	$ 120,000	assumes 16 locations
Analysis		1	LS	$ 7,000	$ 7,000	assume 5 samples per location
Oversight Labor and Expenses		1	LS	$ 80,000	$ 80,000	
	SUBTOTAL:				**$ 207,000**	
Site Preparation						
Mobilization/ Demobilization		3	LS	$ 15,000	$ 45,000	assume 3 mobilizations
Permiting/UIC		1	LS	$ 15,000	$ 15,000	
	SUBTOTAL:				**$ 60,000**	
In Situ Injections						
ISCR/eZVI		9,000	CY	$ 210	$ 1,890,000	Includes product, vendor to implement, and driller. Assumes 120 injection points over 17,000 square feet, 5-24 feet bgs. Assumes 75% of treatment area needs treatment.
Restore Slab		1	LS	$ 25,000	$ 25,000	
Oversight Labor		1	LS	$ 111,600	$ 111,600	assumes 62 days
	SUBTOTAL:				**$ 2,027,000**	
New Well Installation						
New Well Installation		2	EA	$ 50,000	$ 100,000	
	SUBTOTAL:				**$ 100,000**	
Confirmation Sampling						
Drilling		1	LS	$ 255,000	$ 255,000	assumes 34 locations
Analysis		1	LS	$ 13,750	$ 13,750	assume 5 samples per location
Oversight Labor		1	LS	$ 170,000	$ 170,000	
	SUBTOTAL:				**$ 439,000**	
			SUBTOTAL - In Situ Injections		$ 2,833,000	
			Contingency	30%	$ 850,000	
TOTAL In Situ Injections					**$ 3,683,000**	
Professional/ Technical Services						
Project Management		5%			$ 142,000	5% per USACE and USEPA, 2000
Remedial Design		8%			$ 227,000	8% per USACE and USEPA, 2000
Construction Management		6%			$ 170,000	6% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES					**$ 539,000**	
TOTAL - CAPITAL COSTS					**$ 4,230,000**	

APPENDIX G
COST ESTIMATE

Table G-6:
ISCR Injection Cost Estimate - Residential and Restricted Residential Scenario

COST SUMMARY

CAPITAL COSTS		
Construction Activities		
Site Preparation		$ 45,000
In Situ Injections		$ 1,021,000
New Well Installation		$ 100,000
Institutional Controls		$ 25,000
	SUBTOTAL - In Situ Injections	$ 1,578,000
	Contingency (30%)	$ 473,000
	TOTAL In Situ Injections	**$ 2,051,000**
Professional/ Technical Services		
Project Management		$ 95,000
Remedial Design		$ 189,000
Construction Management		$ 126,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$ 410,000**
TOTAL CAPITAL COSTS		**$ 2,470,000**
TOTAL		**$ 2,470,000**
	Total Present Value Range (-30 %)	**$ 1,730,000**
	Total Present Value Range (+50 %)	**$ 3,710,000**

APPENDIX G
COST ESTIMATE

Table G-6:
ISCR Injection Cost Estimate - Residential and Restricted Residential Scenario

CAPITAL COSTS

		QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities						
Pre-Design Investigation						
Drilling		1	LS	$ 105,000	$ 105,000	assumes 14 locations
Analysis		1	LS	$ 6,250	$ 6,250	assume 5 samples per location
Oversight Labor and Expenses		1	LS	$ 70,000	$ 70,000	
	SUBTOTAL:				**$ 182,000**	
Site Preparation						
Mobilization/ Demobilization		2	LS	$ 15,000	$ 30,000	assume 2 mobilizations
Permiting/UIC		1	LS	$ 15,000	$ 15,000	
	SUBTOTAL:				**$ 45,000**	
In Situ Injections						
ISCR/eZVI		4,400	CY	$ 210	$ 924,000	Includes product, vendor to implement, and driller. Assumes 90 injection points over 10,400 square feet, 9-24 feet bgs. Assumes 75% of treatment area needs treatment.
Restore Slab		1	LS	$ 25,000	$ 25,000	
Oversight Labor		1	LS	$ 72,000	$ 72,000	assumes 40 days
	SUBTOTAL:				**$ 1,021,000**	
New Well Installation						
New Well Installation		2	EA	$ 50,000	$ 100,000	
	SUBTOTAL:				**$ 100,000**	
Institutional Controls						
Environmental Easement		1	LS	$ 25,000	$ 25,000	
	SUBTOTAL:				**$ 25,000**	
Confirmation Sampling						
Drilling		1	LS	$ 150,000	$ 150,000	assumes 20 locations
Analysis		1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor		1	LS	$ 50,000	$ 50,000	
	SUBTOTAL:				**$ 205,000**	
			SUBTOTAL - In Situ Injections		$ 1,578,000	
			Contingency	30%	$ 473,000	
TOTAL In Situ Injections					**$ 2,051,000**	
Professional/ Technical Services						
Project Management		6%			$ 95,000	6% per USACE and USEPA, 2000
Remedial Design		12%			$ 189,000	12% per USACE and USEPA, 2000
Construction Management		8%			$ 126,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES					**$ 410,000**	
TOTAL - CAPITAL COSTS					**$ 2,470,000**	

APPENDIX G
COST ESTIMATE

Table G-7:
ISCR Injection Cost Estimate - Commerical Use Scenario

COST SUMMARY

CAPITAL COSTS			
Construction Activities			
Pre-Design Investigation		$	130,000
Site Preparation		$	30,000
In Situ Injections		$	171,400
New Well Installation		$	100,000
Institutional Controls		$	25,000
Confirmation Sampling		$	109,000
	SUBTOTAL - In Situ Injections	$	566,000
	Contingency (30%)	$	169,800
	TOTAL In Situ Injections	**$**	**736,000**
Professional/ Technical Services			
Project Management		$	34,000
Remedial Design		$	68,000
Construction Management		$	45,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**147,000**
TOTAL CAPITAL COSTS		**$**	**890,000**
TOTAL		**$**	**890,000**
	Total Present Value Range (-30 %)	**$**	**630,000**
	Total Present Value Range (+50 %)	**$**	**1,340,000**

APPENDIX G
COST ESTIMATE

Table G-7:
ISCR Injection Cost Estimate - Commerical Use Scenario

CAPITAL COSTS

		QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities						
Pre-Design Investigation						
Drilling		1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis		1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor and Expenses		1	LS	$ 50,000	$ 50,000	
	SUBTOTAL:				**$ 130,000**	
Site Preparation						
Mobilization/ Demobilization		1	LS	$ 15,000	$ 15,000	
Permiting/UIC		1	LS	$ 15,000	$ 15,000	
	SUBTOTAL:				**$ 30,000**	
In Situ Injections						
ISCR/eZVI		700	CY	$ 210	$ 147,000	Includes product, vendor to implement, and driller. Assumes 19 injection points over 1,800 square feet, various depths.
Restore Slab		1	LS	$ 10,000	$ 10,000	
Oversight Labor		1	LS	$ 14,400	$ 14,400	assumes 8 days
	SUBTOTAL:				**$ 171,400**	
New Well Installation						
New Well Installation		2	EA	$ 50,000	$ 100,000	
	SUBTOTAL:				**$ 100,000**	
Institutional Controls						
Environmental Easement		1	LS	$ 25,000	$ 25,000	
	SUBTOTAL:				**$ 25,000**	
Confirmation Sampling						
Drilling		1	LS	$ 65,000	$ 65,000	assumes 8 locations
Analysis		1	LS	$ 4,000	$ 4,000	assume 5 samples per location
Oversight Labor		1	LS	$ 40,000	$ 40,000	
	SUBTOTAL:				**$ 109,000**	
			SUBTOTAL - In Situ Injections		$ 566,000	
			Contingency	30%	$ 169,800	
TOTAL In Situ Injections					**$ 736,000**	
Professional/ Technical Services						
Project Management		6%			$ 34,000	6% per USACE and USEPA, 2000
Remedial Design		12%			$ 68,000	12% per USACE and USEPA, 2000
Construction Management		8%			$ 45,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES					**$ 147,000**	
TOTAL - CAPITAL COSTS					**$ 890,000**	

APPENDIX G
COST ESTIMATE

Table G-8
ISCR Injection Cost Estimate - 50 Percent of Commercial SCOs

COST SUMMARY

CAPITAL COSTS		
Construction Activities		
Pre-Design Investigation		$ 130,000
Site Preparation		$ 30,000
In Situ Injections		$ 352,000
New Well Installation		$ 100,000
Institutional Controls		$ 25,000
Confirmation Sampling		$ 130,000
	SUBTOTAL - In Situ Injections	$ 767,000
	Contingency (30%)	$ 230,000
	TOTAL In Situ Injections	**$ 997,000**
Professional/ Technical Services		
Project Management		$ 46,000
Remedial Design		$ 92,000
Construction Management		$ 61,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$ 199,000**
TOTAL CAPITAL COSTS		**$ 1,200,000**
TOTAL		**$ 1,200,000**
	Total Present Value Range (-30 %)	**$ 840,000**
	Total Present Value Range (+50 %)	**$ 1,800,000**

COST ESTIMATE

Table 4
ISCR Injection Cost Estimate - 50 Percent of Commercial SCOs

CAPITAL COSTS

		QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities						
Pre-Design Investigation						
Drilling		1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis		1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor and Expenses		1	LS	$ 50,000	$ 50,000	
	SUBTOTAL:				**$ 130,000**	
Site Preparation						
Mobilization/ Demobilization		1	LS	$ 15,000	$ 15,000	
Permiting/UIC		1	LS	$ 15,000	$ 15,000	
	SUBTOTAL:				**$ 30,000**	
In Situ Injections						
ISCR/eZVI		1,500	CY	$ 210	$ 315,000	Includes product, vendor to implement, and driller. Assumes 30 injection points over 3,300 square feet
Restore Slab		1	LS	$ 15,000	$ 15,000	
Oversight Labor		1	LS	$ 21,600	$ 21,600	assumes 12 days
	SUBTOTAL:				**$ 352,000**	
New Well Installation						
New Well Installation		2	EA	$ 50,000	$ 100,000	
	SUBTOTAL:				**$ 100,000**	
Institutional Controls						
Environmental Easement		1	LS	$ 25,000	$ 25,000	
	SUBTOTAL:				**$ 25,000**	
Confirmation Sampling						
Drilling		1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis		1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor		1	LS	$ 50,000	$ 50,000	
	SUBTOTAL:				**$ 130,000**	
			SUBTOTAL - In Situ Injections		$ 767,000	
			Contingency	30%	$ 230,000	
TOTAL In Situ Injections					**$ 997,000**	
Professional/ Technical Services						
Project Management		6%			$ 46,000	6% per USACE and USEPA, 2000
Remedial Design		12%			$ 92,000	12% per USACE and USEPA, 2000
Construction Management		8%			$ 61,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES					**$ 199,000**	
TOTAL - CAPITAL COSTS					**$ 1,200,000**	

Note:
Cost estimate prepared based on soil cleanup levels of 100,000 ug/kg for TCE and 15,000 ug/kg for 1,2-DCA.

APPENDIX G
COST ESTIMATE

Table G-9:
ISCR Injection Cost Estimate - Industrial Scenario

COST SUMMARY

CAPITAL COSTS			
Construction Activities			
Site Preparation		$	30,000
In Situ Injections		$	33,200
New Well Installation		$	100,000
Institutional Controls		$	25,000
	SUBTOTAL - In Situ Injections	$	269,000
	Contingency (30%)	$	80,700
	TOTAL In Situ Injections	**$**	**350,000**
Professional/ Technical Services			
Project Management		$	22,000
Remedial Design		$	40,000
Construction Management		$	27,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**89,000**
TOTAL CAPITAL COSTS		**$**	**440,000**
TOTAL		**$**	**440,000**
	Total Present Value Range (-30 %)	**$**	**310,000**
	Total Present Value Range (+50 %)	**$**	**660,000**

APPENDIX G
COST ESTIMATE

Table G-9:
ISCR Injection Cost Estimate - Industrial Scenario

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 30,000	$ 30,000	assumes 4 locations
Analysis	1	LS	$ 2,500	$ 2,500	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 20,000	$ 20,000	
SUBTOTAL:				**$ 53,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 15,000	$ 15,000	
Permiting/UIC	1	LS	$ 15,000	$ 15,000	
SUBTOTAL:				**$ 30,000**	
In Situ Injections					
ISCR/eZVI	100	CY	$ 210	$ 21,000	Includes product, vendor to implement, and driller. Assumes 3 injection points over 300 square feet, 20-24 feet bgs.
Restore Slab	1	LS	$ 5,000	$ 5,000	
Oversight Labor	1	LS	$ 7,200	$ 7,200	assumes 4 days
SUBTOTAL:				**$ 33,200**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
Institutional Controls					
Environmental Easement	1	LS	$ 25,000	$ 25,000	
SUBTOTAL:				**$ 25,000**	
Confirmation Sampling					
Drilling	1	LS	$ 15,000	$ 15,000	assumes 2 locations
Analysis	1	LS	$ 1,750	$ 1,750	assume 5 samples per location
Oversight Labor	1	LS	$ 10,000	$ 10,000	
SUBTOTAL:				**$ 27,000**	
SUBTOTAL - In Situ Injections				$ 269,000	
Contingency			30%	$ 80,700	
TOTAL In Situ Injections				**$ 350,000**	
Professional/ Technical Services					
Project Management	8%			$ 22,000	8% per USACE and USEPA, 2000
Remedial Design	15%			$ 40,000	15% per USACE and USEPA, 2000
Construction Management	10%			$ 27,000	10% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 89,000**	
TOTAL - CAPITAL COSTS				**$ 440,000**	

APPENDIX G
COST ESTIMATE

Table G-10:
Soil Mixing Cost Estimate - Commerical Use Scenario

CAPITAL COSTS		
Construction Activities		
Pre-Design Investigation		$ 130,000
Site Preparation		$ 47,000
Soil Mixing		$ 439,000
Backfill and Restoration		$ 36,000
New Well Installation		$ 100,000
Institutional Controls		$ 25,000
Confirmation Sampling		$ 109,000
	SUBTOTAL - Soil Mixing	$ 886,000
	Contingency (20%)	$ 177,000
	TOTAL Soil Mixing	**$ 1,063,000**
Professional/ Technical Services		
Project Management		$ 53,000
Remedial Design		$ 106,000
Construction Management		$ 71,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$ 230,000**
TOTAL CAPITAL COSTS		**$ 1,300,000**
TOTAL		**$ 1,300,000**
	Total Present Value Range (-30 %)	**$ 910,000**
	Total Present Value Range (+50 %)	**$ 1,950,000**

APPENDIX G
COST ESTIMATE

Table G-10:
Soil Mixing Cost Estimate - Commerical Use Scenario

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis	1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 50,000	$ 50,000	
SUBTOTAL:				**$ 130,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 20,000	$ 20,000	
Concrete Removal	1,800	SF	$ 10	$ 18,000	
Excavation/Stockpile	600	CY	$ 15	$ 9,000	top 10 feet
SUBTOTAL:				**$ 47,000**	
Soil Mixing					
Soil Mixing Equipment and Personnel	1,350	ton	$ 325	$ 438,750	includes equip, materials (ISCO), labor, T&D, backfill import (assume nearby source), compaction. Excludes top 10 feet.
SUBTOTAL:				**$ 439,000**	
Backfill and Restoration					
Backfill	600	CY	$ 15	$ 9,000	remove bc included above
Restore Concrete	1,800	SF	$ 15	$ 27,000	
SUBTOTAL:				**$ 36,000**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
Institutional Controls					
Environmental Easement	1	LS	$ 25,000	$ 25,000	
SUBTOTAL:				**$ 25,000**	
Confirmation Sampling					
Drilling	1	LS	$ 65,000	$ 65,000	assumes 8 locations
Analysis	1	LS	$ 4,000	$ 4,000	assume 5 samples per location
Oversight Labor	1	LS	$ 40,000	$ 40,000	
SUBTOTAL:				**$ 109,000**	
SUBTOTAL - Soil Mixing				$ 886,000	
Contingency			20%	$ 177,000	
TOTAL Soil Mixing				**$ 1,063,000**	
Professional/ Technical Services					
Project Management	6%			$ 53,000	per USACE and USEPA, 2000
Remedial Design	12%			$ 106,000	per USACE and USEPA, 2001
Construction Management	8%			$ 71,000	per USACE and USEPA, 2002
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 230,000**	
TOTAL - CAPITAL COSTS				**$ 1,300,000**	

APPENDIX G
COST ESTIMATE

Table G-11:
Excavation and Offsite Disposal - Commercial Scenario

COST SUMMARY

CAPITAL COSTS			
Construction Activities			
Pre-Design Investigation		$	130,000
Site Preparation		$	55,000
Excavation and Disposal		$	1,488,000
Backfill and Restoration		$	216,000
New Well Installation		$	100,000
Institutional Controls		$	25,000
	SUBTOTAL - Excavation and Offsite Disposal	$	2,014,000
	Contingency (20%)	$	302,000
	TOTAL Excavation and Offsite Disposal	**$**	**2,316,000**
Professional/ Technical Services			
Project Management		$	121,000
Remedial Design		$	242,000
Construction Management		$	161,000
	TOTAL PROFESSIONAL/ TECHNICAL SERVICES	**$**	**524,000**
TOTAL CAPITAL COSTS		**$**	**2,840,000**

Total Present Value Range (-30 %)	**$**	**2,000,000**
Total Present Value Range (+50 %)	**$**	**4,300,000**

APPENDIX G
COST ESTIMATE

Table G-11:
Excavation and Offsite Disposal - Commercial Scenario

CAPITAL COSTS

	QTY	UNIT	UNIT COST	TOTAL	NOTES
Construction Activities					
Pre-Design Investigation					
Drilling	1	LS	$ 75,000	$ 75,000	assumes 10 locations
Analysis	1	LS	$ 4,750	$ 4,750	assume 5 samples per location
Oversight Labor and Expenses	1	LS	$ 50,000	$ 50,000	
SUBTOTAL:				**$ 130,000**	
Site Preparation					
Mobilization/ Demobilization	1	LS	$ 20,000	$ 20,000	
Concrete Removal	3,300	SF	$ 10	$ 33,000	
Erosion and Sediment Control	220	LF	$ 5	$ 1,200	
SUBTOTAL:				**$ 55,000**	
Excavation and Disposal					
Excavation and Loading	3,000	CY	$ 29	$ 86,300	
Sheetpile	5,720	SF	$ 52	$ 296,100	
Stabilize saturated soils	2,700	tons	$ 26	$ 71,500	
Dewatering	1	LS	$135,000	$ 135,000	frac tanks; GAC treatment; disposal to
Transportation/Disposal, hazardous	2,900	tons	$ 288	$ 833,800	Assume hazardous waste, 5% increase in weight from stabilized saturated soil.
Waste Characterization Samples	6	EA	$ 968	$ 5,900	1 sample/500 tons, 4 sample min
Verification Samples	40	EA	$ 129	$ 5,200	VOCs, base of excavation and side
Sampling and Oversight Labor	1	LS	$ 54,000	$ 54,000	assume 10 weeks of oversight
SUBTOTAL:				**$ 1,488,000**	
Backfill and Restoration					
Backfill (imported and placed)	2,070	CY	$ 46	$ 95,300	1.15 bulking factor
Backfill (reuse of top 10 feet)	1,200	CY	$ 17	$ 20,700	
Restore Concrete	3,300	SF	$ 15	$ 49,500	
Replace Monitoring Wells	1	LS	$ 50,000	$ 50,000	installation, development, and waste
SUBTOTAL:				**$ 216,000**	
New Well Installation					
New Well Installation	2	EA	$ 50,000	$ 100,000	
SUBTOTAL:				**$ 100,000**	
Institutional Controls					
Environmental Easement	1	LS	$ 25,000	$ 25,000	
SUBTOTAL:				**$ 25,000**	
SUBTOTAL - Excavation and Offsite Disposal				$ 2,014,000	
Contingency			15%	$ 302,000	
TOTAL Excavation and Offsite Disposal				**$ 2,316,000**	
Professional/ Technical Services					
Project Management	6%			$ 121,000	6% per USACE and USEPA, 2000
Remedial Design	12%			$ 242,000	12% per USACE and USEPA, 2000
Construction Management	8%			$ 161,000	8% per USACE and USEPA, 2000
TOTAL PROFESSIONAL/ TECHNICAL SERVICES				**$ 524,000**	
TOTAL - CAPITAL COSTS				**$2,840,000**	

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