GEI Consultants

Consulting
Engineers and
Scientists

Periodic Review Report
August 2018

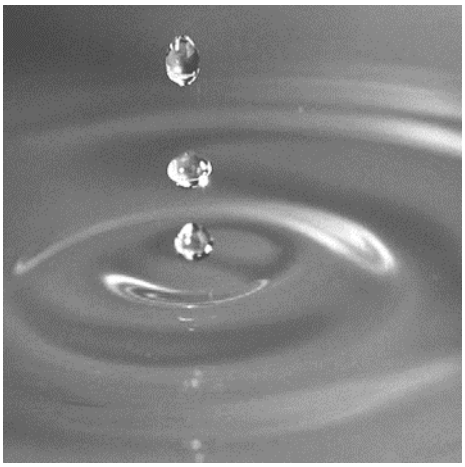
West Nyack Operating Center
766 West Nyack Road, West Nyack, NY

(Formerly 180 West Nyack Road)

Submitted to:
Orange and Rockland Utilities, Inc.
3 Old Chester Road
Goshen, NY 10924

Submitted by:
GEI Consultants, Inc., P.C.
1301 Trumansburg Road, Suite N
Ithaca, NY 14850
607-216-8955

August 2018
Project 1803131



James H. Edwards, P.G.
Project Manager

Kathleen F. Slimon, P.E.
Senior Engineer

Table of Contents

Abbreviations and Acronyms iii

Executive Summary iv

1. Introduction 1

2. Site Overview 2

3. Evaluation of Remedy 4

4. Institutional and Engineering Control Compliance 5
- 4.1 Institutional Control Requirements 5
- 4.2 Engineering Controls (Soil Cap/Composite Cover System) 5
- 4.3 Institutional and Engineering Control Compliance 6
  - 4.3.1 Site-Wide Inspection 7
  - 4.3.2 Soil Cover System Monitoring 8

5. Monitoring Plan Compliance 9
- 5.1 Groundwater Monitoring 9
- 5.2 Monitoring Well Repairs, Replacement, and Decommissioning 9
- 5.3 Soil Vapor Intrusion Monitoring 9

6. Conclusions and Recommendations 10
- 6.1 Compliance with the SMP 10
- 6.2 Performance and Effectiveness of the Remedy 10
- 6.3 Future Periodic Review Report Submittals 10

References 11

Figures

1 Site Location Map
2 Site Layout Map
3 Remedial Action Excavation Extent

Appendices

A 2013 Site-Wide Inspection Report and Soil Cover System Monitoring
B Emergency Generator Installation Summary Report
C Photo Documentation
D Annual Inspection and Certification Checklist
E Institutional and Engineering Controls Certification Form

JHS/KFS:gd
B:\Working\O&R\1803131 WNOC Inspection and Report\01_ADMIN\PRR.HW344014.2018-08-17.WNOC.doc

Abbreviations and Acronyms

CAMP	Community Air Monitoring Program
GEI	GEI Consultants, Inc., P.C.
HASP	Health and Safety Plan
mg/kg	Milligrams per kilograms
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
O&R	Orange and Rockland Utilities, Inc.
PCBs	Polychlorinated Biphenyls
PRR	Periodic Review Report
RAWP	Remedial Action Work Plan
ROD	Record of Decision
RUST	Rust Environment and Infrastructure
SMP	Site Management Plan
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WNOC	West Nyack Operating Center

Executive Summary

GEI Consultants, Inc., P.C. (GEI) has prepared this Periodic Review Report (PRR) on behalf of Orange and Rockland Utilities, Inc. (O&R) for the West Nyack Operating Center (WNOC). This document is required as an element of the remedial program under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program, administered by New York State Department of Environmental Conservation (NYSDEC).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews with garage facilities and a fueling station for utility service trucks, parking space O&R vehicles, equipment storage, as well as office space. The site was remediated in 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP). The remedial actions implemented include:

- Excavation of soil containing petroleum related volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) in excess of NYSDEC recommended cleanup levels.
- Placement of a composite cover system over remaining soil impacts at the site.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination.

The institutional and engineering controls have proved effective in preventing uncontrolled exposure to remaining subsurface impacts on site. The condition of the asphalt cap in the parking and driveway areas throughout the site is improved subsequent to the 2016 re-paving, no cracks were identified within the asphalt. The section of damaged fence identified in the 2013 site-wide inspections has been replaced with new fencing.

The institutional and engineering controls established in the SMP were complied with during the reporting period with the exception of annual site wide inspections and annual cover system monitoring, which were not performed in 2014 through 2017. Notifications of improvements to the cover system and notice of intrusive activities were made to the NYSDEC in 2016 and 2017, respectively, in accordance with the SMP.

Annual site-wide inspections and annual cover system monitoring will be performed in accordance with the SMP. The next site-wide inspection and cover system monitoring will be performed in early August 2019. The results of the 2019 through 2023 annual site-wide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2023 PRR.

1. Introduction

GEI Consultants, Inc., P.C. (GEI) has prepared this Periodic Review Report (PRR) for the West Nyack Operating Center (WNOC) on behalf of Orange and Rockland Utilities, Inc (O&R). This document is required as an element of the remedial program under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program, administered by New York State Department of Environmental Conservation (NYSDEC).

The site was remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. The site is located at 766 West Nyack Road, West Nyack, New York 10994. This report documents the site-wide inspection and soil cover system monitoring performed on August 7, 2018. This report has been prepared in accordance with the requirements of Chapter 6 of Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation, dated May 2010 and the guidance provided in the NYSDEC letter to O&R dated June 18, 2018.

2. Site Overview

The site is located at 766 West Nyack Rd., (formerly 180 West Nyack Rd.) in the Town of Clarkstown, County of Rockland, New York and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map. **Figure 1** shows the site location. The site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west **(Figure 2)**. O&R also owns Lot 43 south of West Nyack Road. This property is used for employee parking for the O&R facility and was not part of the remedial actions for the site and is not included in the engineering controls described in the Site Management Plan (SMP). South of the site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The WNOC facility is currently used as a satellite service center for O&R line crews with garage facilities and a fueling station for utility service trucks, parking space O&R vehicles, equipment storage, as well as office space. From the 1920s to approximately 1981, transformers, capacitors, and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were located in the center of the site and were used to store gasoline for fueling O&R's utility vehicles. One tank was identified as leaking and was removed in 1989. The second tank was removed during the 1997 to 1998 remedial actions.

A Remedial Investigation (RUST, July 1996), a Feasibility Study (RUST, July 1997), and additional Supplemental Subsurface Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of contamination at the site. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum related volatile organic compound (VOC) concentrations. The depth of petroleum impacted soil ranged from 1 foot to 14 feet. Limited polychlorinated biphenyl (PCB) impacts in subsurface soil were also identified.

Quarterly groundwater sampling performed from 2006 through 2011 indicated that concentrations of chlorinated VOCs and their breakdown products have remained generally consistent, with the wells showing the greatest concentrations of chlorinated VOCs being located along the southern, upgradient, boundary of the site. The upgradient former Grant Hardware Site has been identified as the source of these impacts and they are not attributed to O&R.

The site was remediated in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) dated September 1997. A Record of Decision (ROD) was issued in October 1997. The remedial actions included:

- Excavation of 9,328 cubic yards of soil from areas on the site containing petroleum related VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06

milligrams to kilograms [mg/kg] benzene, and 1.2 mg/kg xylene, and 10 mg/kg PCBs). The extent of excavation is shown on **Figure 3**.

- Placement of a composite cover system over remaining soil impacts at the site.
- Development and implementation of a SMP for long term management of remaining contamination.
- Remedial activities were initiated by O&R in November 1997 and completed in April 1998 (RUST, 1998). ,The SMP was finalized in July 2012 (AECOM, 2012).

3. Evaluation of Remedy

The remedy has been effective in preventing uncontrolled exposure to remaining subsurface impacts on site.

- As documented in the Certification Report (RUST, 1998) the remedy was successful in the removal of soil from areas on the site containing petroleum related VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene, and 1.2 mg/kg xylene, and 10 mg/kg PCBs).
- A deed restriction to limit the use and development of the site to commercial or industrial uses only is in place.
- The soil cover system has been maintained to prevent exposure to remaining subsurface contamination.
- The NYSDEC has been notified of any potential subsurface disturbances in accordance with the SMP.

4. Institutional and Engineering Control Compliance

4.1 Institutional Control Requirements

A series of Institutional Controls is required by the ROD to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial or industrial uses only. Adherence to these Institutional Controls on the site is required by the deed restriction and are implemented under the SMP. The Institutional Controls summarized from the SMP are provided below. The complete detailed listing of the Institutional Controls is provided in Section 2.3 of the SMP.

- Compliance with the deed restriction and the SMP;
- The Engineering Control (soil cap/composite cover system) must be operated and maintained as specified in the SMP;
- The integrity of soil cover system on the Controlled Property must be visually inspected annually;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP (The Periodic Review Report will be submitted to the Department every fifth year, beginning eighteen months after the Certificate of Completion or Satisfactory Completion Letter is issued);
- The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Excavation Work Plan provided in the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the property are prohibited.

4.2 Engineering Controls (Soil Cap/Composite Cover System)

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the

site. In the driveway areas which were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap. Security fencing was replaced around the site as well.

The Excavation Work Plan provided as Appendix A of the SMP outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Any work conducted pursuant to the Excavation Work Plan must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP), and Community Air Monitoring Plan (CAMP) prepared for the site.

The SMP specifies that a visual inspection of the complete soil cover system will be conducted on an annual basis concurrently with the site-wide inspection. Components of the soil cover system will be inspected for the following:

- Integrity of asphalt covered roads;
- Integrity of sidewalks;
- Integrity of concrete building slabs; and
- Integrity of "clean soil cover/cap."

If any of the components of the composite cover system are not functioning as designed, maintenance and repair are required immediately to restore the integrity of the soil cap. Results of the inspection will be provided to the NYSDEC on an annual or periodic basis as designated by the NYSDEC.

4.3 Institutional and Engineering Control Compliance

The SMP for the site was issued in July 2012. The first annual site-wide inspection and cover system monitoring was performed in July 2013 by AECOM on behalf of O&R. The July 2013 Site Wide Inspection and Soil Cover System Monitoring report prepared by AECOM is provided in **Appendix A**. Formal annual site-wide inspections and soil cover system monitoring were not performed between July 2013 and August 2018. The following notifications were made to the NYSDEC in accordance with the SMP between July 2013 and August 2018:

- On September 22, 2016 O&R provided notification of re-pavement of the WNOC parking and driveway areas. The existing pavement on-site was milled to a depth of approximately 2-inches and resurfaced to match existing grade. The paving project did not extend into or below the structural sub-base below the asphalt, and therefore was not intrusive work and did not require implementation of the Excavation Work Plan. The NYSDEC provided approval of the paving project via e-mail on September 27, 2016. This project significantly improved the condition of the soil cap.

- In June 2017 O&R submitted notification and a summary of work for installation of an emergency generator at the WNOC site to NYSDEC for approval. NYSDEC provided approval for the proposed work via e-mail on June 20, 2017. O&R provided notification to NYSDEC prior to construction. The installation included:
    - Construction of a 17-foot by 13-foot foundation platform with columns and footings extending to 48 inches below grade;
    - Below ground electric service (located approximately 36 inches below grade);
    - Below ground natural gas service supply line (approximately 100 feet from main at between 36-48 inches below grade).

  A letter report summarizing the installation activities, with photos documenting the installation, analytical results of the excavated/removed soil, and disposal manifests is provided in **Appendix B**. This work was performed in accordance with the Excavation Work Plan, as specified in the SMP. The CAMP was not implemented during this work as the excavation was performed in an area west of the PCB and petroleum impacts identified during the remedial investigations and thus did not involve the disturbance of the previously remediated area.

No additional intrusive activities were performed at the site between July 2013 and August 2018.

The site continues to be industrial/commercial use as a satellite service center for O&R line crews with garage facilities for utility service trucks, parking space for O&R vehicles, as well as office space. There has been no groundwater use, building development or use for vegetable gardens or farming since the July 2013 inspection.

The site-wide inspection and soil cover system monitoring was performed by O&R and GEI on August 7, 2018. The soil cover system was found to be functioning as designed in accordance with the details provided in the 1998 Certification Report. Details of the site inspection and soil cover system monitoring are provided below.

4.3.1 Site-Wide Inspection

A periodic review inspection was conducted by O&R and GEI on August 7, 2018. Photographs of the site conditions during the site walk are included in **Appendix C**. A copy of the Annual Inspection and Certification Checklist is included as **Appendix D**. A copy of the NYSDEC Institutional and Engineering Controls Certification Form is included as **Appendix E**.

Overall general site conditions were improved since the July 2013 site inspection. There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. The monitoring wells were not opened or damaged and were protected and not paved over during the 2016 site re-paving. There were some minor housekeeping issues identified but none of the housekeeping issues impacted the effectiveness of the institutional or engineering controls. Miscellaneous equipment and debris is present along the northern and northeastern fence line

and beneath the transmission towers in the northern area of the site. Soil piles were also identified beneath the transmission towers in the northern portion of the site.

The site fence line and gravel areas are highly vegetated; however, the fence is intact. The broken portion of the fence identified during the 2013 site inspection has been replaced with new fencing (**Appendix C**, Photograph 5).

4.3.2 Soil Cover System Monitoring

The following visual observations on the integrity of the soil cover system were made during the August 7, 2018 site walk. The photographs referenced below are provided in **Appendix C**.

- The condition of the asphalt cap in the parking and driveway areas throughout the site is improved subsequent to the 2016 re-paving. No cracks were identified within the asphalt. (Photographs 1 through 3)
- The oil stone chips are present beneath the transmission towers. There is significant vegetation and debris in these areas. The integrity of the cap preventing exposure to subsurface soil at these locations appears to be intact (Photograph 4).
- Consistent with the 2013 inspection there is some erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building and cracked pavement was observed along the top of the sloped area adjacent to the building. There is also erosion of a concrete platform above the slope in this area, conditions are consistent with those documented in 2013 (Photograph 6). The oil stone chips, asphalt and concrete are still present and preventing exposure to the underlying soil. Since the oil chips were placed in the rear of the building to protect the integrity of the asphalt cap, future maintenance of this area should be considered to prevent further erosion.
- The pavement patch for the new emergency generator installed in 2017 is in good condition with the exception of a small depression/crack in the southwest area of the pavement (Photographs 7 and 8). The subsurface soil is not exposed. This depression/ crack should be repaired to prevent future worsening conditions.
- There are cracks present in the concrete floor of the garage on the eastern side of the building (Photograph 9). The major cracks identified in the 2013 inspection were patched. The minor cracks are consistent with those documented during the 2013 inspection. There is no exposure to sub-surface soil.
- There is no asphalt cover in the area beneath the pole rack storage along the western fence line. This is consistent with conditions noted during the 2013 inspection. The paving plan submitted to and approved by the NYSDEC in 2016 did not include these areas in the areas to be paved.
- No cracks were observed in the pavement on Lot 48 west of the fence-line and east of the RR (Photographs 10 and 11).

5. Monitoring Plan Compliance

5.1 Groundwater Monitoring

Groundwater sampling will not be conducted by O&R, as any site impacts are the result of contamination at an upgradient, off-site source (Former Grant Hardware Facility Site). Site access will be provided to the potentially responsible party for the Former Grant Hardware site and their representatives to complete any required groundwater sampling.

Access to the site for groundwater monitoring has not been requested during this reporting period.

5.2 Monitoring Well Repairs, Replacement, and Decommissioning

The monitoring wells were not accessed during this reporting period, therefore, no monitoring well repairs, replacement, or decommissioning were completed. The monitoring wells were not damaged or paved over during the re-paving performed on-site in 2016 and appear in good condition.

5.3 Soil Vapor Intrusion Monitoring

No new structures were built, and no soil vapor intrusion sampling was conducted during this reporting period.

6. Conclusions and Recommendations

6.1 Compliance with the SMP

The institutional and engineering controls established in the SMP and described above in Section 4 were complied with during the reporting period with the exception of annual site-wide inspections and annual cover system monitoring, which were not performed in 2014 through 2017. Notifications of improvements to the cover system and notice of intrusive activities were made to the NYSDEC in 2016 and 2017, respectively, in accordance with the SMP.

Annual site-wide inspections and annual cover system monitoring will be performed in accordance with the SMP. The next site-wide inspection and cover system monitoring will be performed in early August 2019. The results of the 2019 through 2023 annual site-wide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2023 PRR.

6.2 Performance and Effectiveness of the Remedy

The institutional and engineering controls have proved effective in preventing uncontrolled exposure to remaining subsurface impacts on site.

The conditions of the engineering controls are improved since the 2013 site-wide inspection. The condition of the asphalt cap in the parking and driveway areas throughout the site is improved subsequent to the 2016 re-paving, no cracks were identified within the asphalt. The section of damaged fence identified in the 2013 site-wide inspections was replaced with new fencing.

The site cover system was intact and no exposure to subsurface soil was identified. The recommendations provided in Section 4 as improvements to the cover system to prevent potential future exposures are summarized below:

- Repair of the depression/crack in the asphalt/patch recently installed for the emergency generator.

6.3 Future Periodic Review Report Submittals

In accordance with the SMP a PRR will be submitted to the Department every fifth year, the next PRR submittal will be in August 2023. The PRR will include the results of the 2019 through 2023 annual site-wide inspection and cover system monitoring reports.

References

New York State Department of Environmental Conservation (NYSDEC), 2018. *Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal, Orange and Rockland Utilities Inc. Site no. 344014,* June 18, 2018.

Rust Environment and Infrastructure (RUST), 1996. *Remedial Investigation Report, Orange and Rockland Utilities, Inc., Inactive Hazardous Waste Disposal (I.D. # 344014), West Nyack, NY,* July 1996.

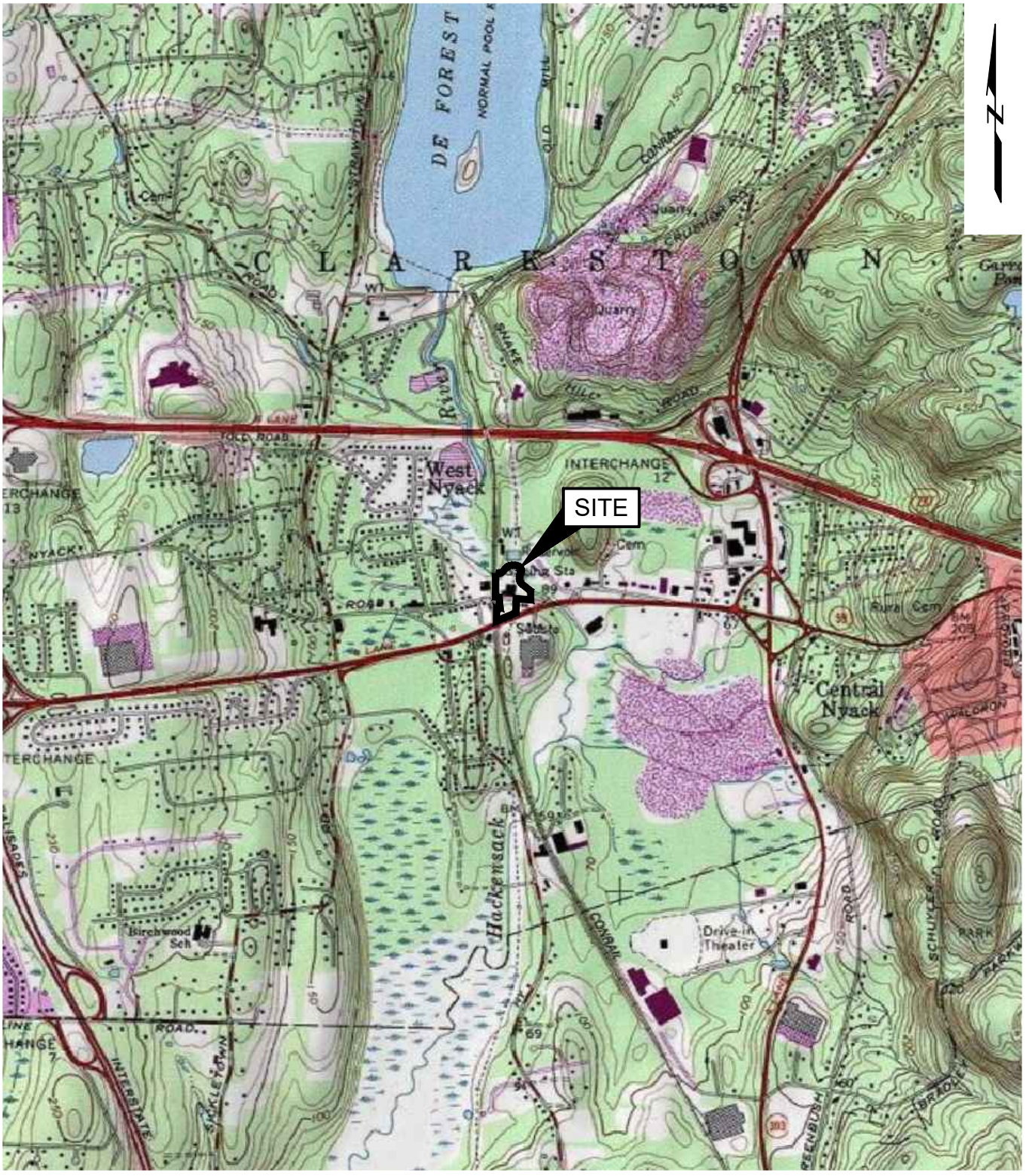
RUST, 1997. *Feasibility Study Report, Orange and Rockland Utilities, Inc., West Nyack, New York, Inactive Hazardous Waste Disposal Site (I.D. # 344014),* March 1997; Amended July 1997.

RUST, 1998, *Certification Report, O&R Inactive Hazardous Waste Disposal Site (I.D. # 344014), West Nyack, NY*, June 1998

Tetra Tech EC, Inc., 2005. *Supplemental Subsurface Investigation, Orange and Rockland Utilities, Inc., West Nyack Operating Center, 766 West Nyack Road, West Nyack, New York,* August 2005.

AECOM, 2012, *Site Management Plan Orange and Rockland Utilities (West Nyack Operating Center) 180 West Nyack Road, West Nyack, NY 10994, NYSDEC Site Number: 344014*, July 2012.

Figures



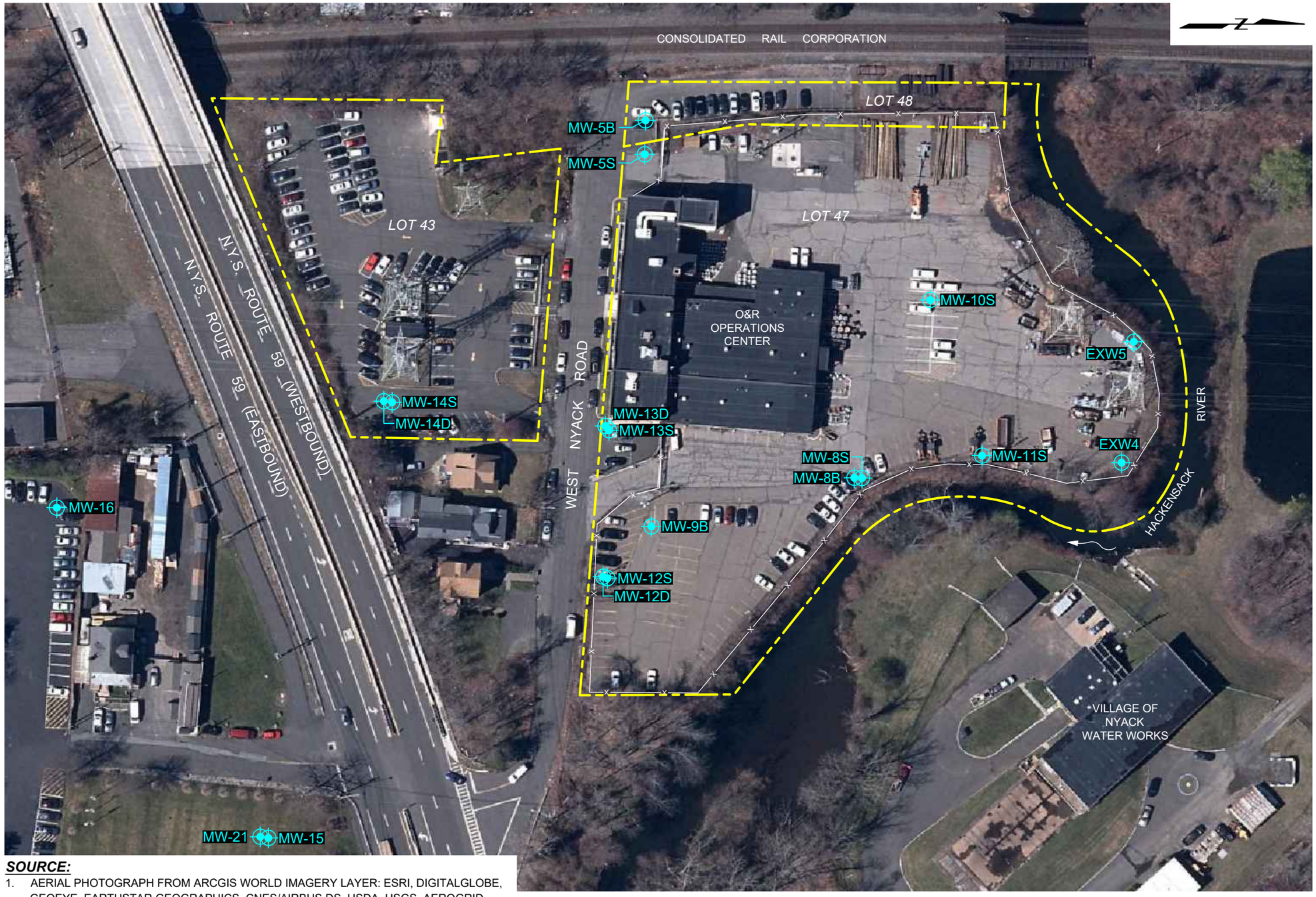
SOURCE:
USA TOPO MAPS © 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED, ACCESSED VIA ARCGIS ONLINE.

0 2000' 4000'

SCALE: 1" = 2000'

Periodic Review Report West Nyack Operating Center West Nyack, New York	GEI Consultants	SITE LOCATION MAP
Orange and Rockland Utilities, Inc. Spring Valley, New York	Project 1803131	August 2018 Fig. 1

\\gtb1v-fs01\ I:\Project\ORANGE & ROCKLAND\West Nyack\1803131\CAD\Figures\PRR\1803131_PRR_SLM.dwg - 8/13/2018



LEGEND:

- MONITORING WELL
- PROPERTY BOUNDARY
- CHAIN-LINK FENCE

SOURCE:

1. AERIAL PHOTOGRAPH FROM ARCGIS WORLD IMAGERY LAYER: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY, IMAGE DATE 3/12/2016, ACCESSED ON 8/13/2018.
2. *FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS,* PREPARED BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.
3. *TAX MAP,* SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK, REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

0 80 160

SCALE: 1" = 80'

Periodic Review Report
West Nyack Operating Center
West Nyack, New York

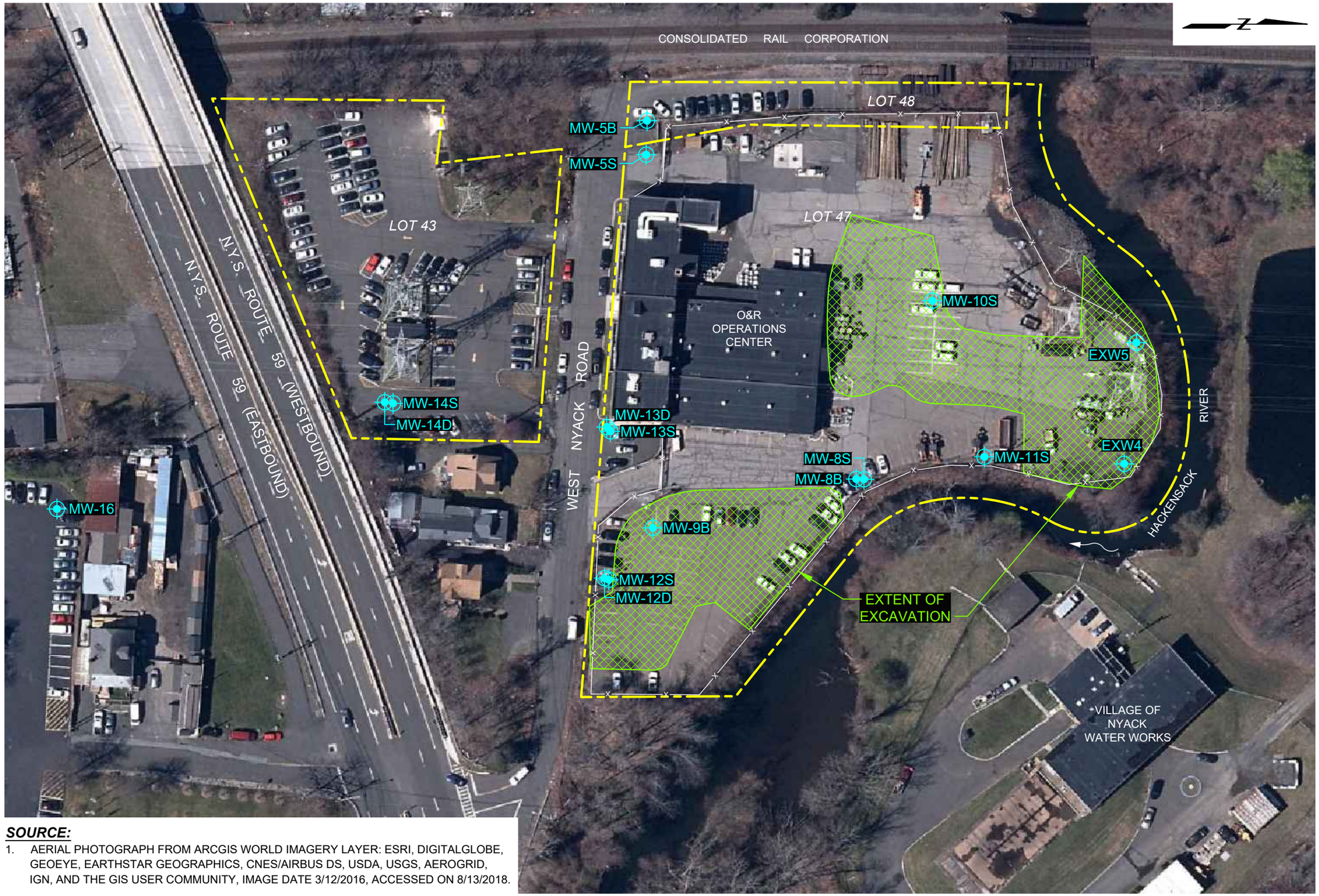
Orange and Rockland Utilities, Inc.
Spring Valley, New York

GEI Consultants

SITE LAYOUT MAP

Project 1803131 | August 2018 | Fig. 2

\\gtb1v-fs01\ I:\Project\ORANGE & ROCKLAND\West Nyack\1803131\CAD\Figures\PRR\1803131_PRR_SLOM.dwg - 8/13/2018



LEGEND:

- MONITORING WELL
- EXTENT OF EXCAVATION
- PROPERTY BOUNDARY
- CHAIN-LINK FENCE

SOURCE:

1. AERIAL PHOTOGRAPH FROM ARCGIS WORLD IMAGERY LAYER: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY, IMAGE DATE 3/12/2016, ACCESSED ON 8/13/2018.
2. *FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS,* PREPARED BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.
3. *TAX MAP,* SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK, REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.
4. EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE: 1" = 120', DATE: 2/15/2012.

0 80 160

SCALE: 1" = 80'

Periodic Review Report West Nyack Operating Center West Nyack, New York	GEI Consultants	REMEDIAL ACTION EXCAVATION EXTENT
Orange and Rockland Utilities, Inc. Spring Valley, New York	Project 1803131	August 2018 Fig. 3

\\gtb1v-fs01\ I:\Project\ORANGE & ROCKLAND\West Nyack\1803131\CAD\Figures\PRR\1803131_PRR_SLOM.dwg - 8/13/2018

Appendix A

2013 Site-Wide Inspection Report and Soil Cover System Monitoring

AECOM Environment

Prepared for:
Orange & Rockland
3 Old Chester Road
Goshen, NY 10929

Prepared by:
AECOM
Chestnut Ridge, NY
60304240
September 2013

2013 Site-Wide Inspection Report and Soil Cover System Monitoring West Nyack Operating Center 180 West Nyack Road, West Nyack, NY

AECOM Environment

Prepared for:
Orange & Rockland
3 Old Chester Road
Goshen, NY 10929

Prepared by:
AECOM
Chestnut Ridge, NY
60304240
September 2013

2013 Site-Wide Inspection Report and Soil Cover System Monitoring West Nyack Operating Center 180 West Nyack Road, West Nyack, NY

ENGINEERING CERTIFICATION

I, Eleanor Vivaudou, certify that I am currently a NYS registered professional engineer and that this Site-Wide Inspection Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved Site Management Plan and any DER-approved modifications. For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the site is compliant with the deed restriction;
- The engineering control system is performing as designed and is effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

AECOM Environment

Prepared for:
Orange & Rockland
3 Old Chester Road
Goshen, NY 10929

Prepared by:
AECOM
Chestnut Ridge, NY
60304240
September 2013

- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Eleanor Vivaudou, of AECOM, am certifying as the Owner's Designated Site Representative for the site.

Respectfully submitted,
AECOM Technical Services Northeast, Inc.

Eleanor Vivaudou, P.E.
Registered Professional Engineer
New York License No. 089692

9/17/2013
Date

Contents

1.0 Introduction 1-1

2.0 Site Engineering and Institutional Controls 2-1

2.1 Engineering Controls 2-1
2.1.1 Engineering Control Systems 2-1
2.1.2 Soil Cover System Monitoring 2-1
2.2 Institutional Controls 2-1
2.3 Excavation Work Plan 2-2
2.4 Soil Vapor Intrusion Evaluation 2-2
2.5 Inspections and Notifications 2-2
2.5.1 Inspections 2-2
2.5.2 Notifications 2-2
2.6 Contingency Plan 2-3

3.0 Annual Site-Wide Inspection Findings 3-1

3.1 Site-Wide Inspection 3-1
3.1.1 General Site Conditions 3-1
3.1.2 Engineering Control Systems 3-1
3.1.3 Institutional Controls 3-1
3.1.4 Excavation Work Plan 3-1
3.1.5 Notifications 3-1
3.1.6 Contingency Plan 3-1
3.2 Soil Cover System Monitoring 3-1
3.3 Media Monitoring Program 3-2
3.3.1 Groundwater Monitoring 3-2
3.3.2 Monitoring Well Repairs, Replacement, and Decommissioning 3-2
3.3.3 Soil Vapor Intrusion Monitoring 3-2

4.0 Conclusions 4-1

5.0 References 5-1

List of Figures

Figure 1 Site Location Map

Figure 2 Site Layout

Figure 3 Site Inspection Observations

List of Appendices

Appendix A Inspection Checklist

Appendix B Photographs

1.0 Introduction

This document is required as an element of the remedial program at the West Nyack Operating Center (WNOC) under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program, administered by New York State Department of Environmental Conservation (NYSDEC). The site was remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. The site is located at 180 West Nyack Road, West Nyack, New York 10994.

This report documents the annual site-wide inspection and soil cover system monitoring in compliance with the July 2012 Site Management Plan (SMP; AECOM, 2012).

2.0 Site Engineering and Institutional Controls

A description of the site engineering and institutional controls from the SMP is provided below.

2.1 Engineering Controls

2.1.1 Engineering Control Systems

The site engineering control system is a soil cap (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap. Security fencing was replaced around the site as well.

2.1.2 Soil Cover System Monitoring

A visual inspection of the complete soil cover system will be conducted on an annual basis concurrently with the site-wide inspection. Components of the soil cover system will be inspected for the following:

- Integrity of asphalt covered roads;
- Integrity of sidewalks;
- Integrity of concrete building slabs; and
- Integrity of “clean soil cover/cap.”

If any of the components of the composite cover system are not functioning as designed, maintenance and repair are required immediately to restore the integrity of the soil cap. Results of the inspection will be provided to the NYSDEC on an annual or periodic basis as designated by the NYSDEC.

2.2 Institutional Controls

A series of institutional controls is required by the ROD to: (1) implement, maintain and monitor engineering control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial or industrial uses only. Adherence to these institutional controls on the site is required by the deed restriction and is implemented under the SMP. These institutional controls are:

- Compliance with the deed restriction and SMP by the grantor and the grantor’s successors and assigns;

- The engineering control must be operated and maintained as specified in SMP;
- The engineering control on the controlled property must be inspected at a frequency and in a manner defined in the SMP; and
- Data and information pertinent to site management of the controlled property must be reported at the frequency and in a manner defined in SMP.
- Institutional controls identified in the deed restriction may not be discontinued without an amendment to or extinguishment of the deed restriction.

2.3 Excavation Work Plan

The site has been remediated for commercial or industrial use. Any future intrusive work that will penetrate the soil cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system will be performed in compliance with the Excavation Work Plan that is attached as Appendix A to the SMP.

2.4 Soil Vapor Intrusion Evaluation

Prior to the construction of any enclosed structures located over areas that contain remaining contamination and the potential for soil vapor intrusion has been identified, a soil vapor intrusion evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, a soil vapor intrusion mitigation system may be installed as an element of the building foundation without first conducting an investigation.

2.5 Inspections and Notifications

2.5.1 Inspections

A site-wide inspection is performed a minimum of once a year. The inspection will address the following issues:

- General site conditions at the time of the inspection;
- An evaluation of the condition and continued effectiveness of engineering controls;
- Compliance with all institutional controls, including site usage;
- The site management activities being conducted; and
- Confirmation that site records are up to date.

2.5.2 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law.
- 7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan.

- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of the engineering control and likewise any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the engineering control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the engineering controls.
- Any change in the ownership of the site or the responsibility for implementing SMP will include the following notifications:
    - At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including SMP.
    - Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing.

2.6 Contingency Plan

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions. In the event of an emergency condition impacting the engineering control or building, Orange & Rockland will follow its existing emergency procedures and evacuation plan for this facility. In addition, a copy of the Spill Prevention, Control, and Countermeasure Plan for the West Nyack Operating Center is attached as Appendix F to the SMP. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

3.0 Annual Site-Wide Inspection Findings

The annual site-wide inspection and soil cover system monitoring was conducted on July 24, 2013. The inspection checklist is provided in Appendix A. A photo log is provided in Appendix B.

3.1 Site-Wide Inspection

3.1.1 General Site Conditions

Housekeeping is generally good at the site, with some minor exceptions. There is a pile of dirt and construction debris covered by a tarp along the western side of the property. There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. The monitoring wells were not opened or damaged.

3.1.2 Engineering Control Systems

See Section 3.2 of this report for soil cover system monitoring.

There is a break in the top rail of the security fence on the west side of the property. The fence along the top rail north of this break appears to be loose. Otherwise, the security fence appears to be intact. There is vegetation growing along some areas of the fence which may impact the fence in the future.

3.1.3 Institutional Controls

In the past year, the site continues to be operated as an Orange & Rockland operating center. There is no residential use of the site. There is no potable or non-potable use of the groundwater on-site. There were no new structures built on-site in the past year. There were no vegetable gardens or farming on-site during the past year. This site-wide inspection was conducted in conformance with the SMP.

3.1.4 Excavation Work Plan

In the past year, no excavation was conducted at the site.

3.1.5 Notifications

During the past year, there were no circumstances requiring notice to NYSDEC. Following Hurricane Sandy in November 2012, both Orange & Rockland and NYSDEC inspected the site. No damage to the site from the hurricane was observed.

3.1.6 Contingency Plan

In the past year, there were no emergencies requiring implementation of the contingency plan.

3.2 Soil Cover System Monitoring

At the time of the site-wide inspection on July 24, 2013, the following observations were made regarding the integrity of the capped areas:

- There are cracks of varying degrees throughout most areas of the asphalt cap;

- There are some breaks and depressions in the asphalt caps. At one location, soil appears to be exposed;
- The asphalt cap may need maintenance along the edge of the cap on the eastern side of the property;
- Soil appears to wash onto the asphalt cap to the north and west near the fence;
- A capped trench was observed, but according to the WNOC representative, the trenching occurred prior to July 2012;
- There is no asphalt cover beneath the pole racks;
- A loading dock platform is currently being replaced, but no impacts to the soil will be made during construction;
- No sidewalks were observed;
- The building slabs appear to be in good condition, without cracks or depressions, with the exception of the garage floor which has some cracks; and,
- The clean soil cover/cap is located beneath the asphalt and cannot be observed.

The location of the impacted areas is shown in Figure 3.

3.3 Media Monitoring Program

3.3.1 Groundwater Monitoring

Groundwater sampling will not be conducted by Orange & Rockland, as any site impacts are the result of contamination at an upgradient, off-site source (Former Grant Hardware Facility Site). Site access will be provided to the potentially responsible party for the Former Grant Hardware site and their representatives to complete any required groundwater sampling.

In the past year, access to the site for groundwater monitoring was not requested.

3.3.2 Monitoring Well Repairs, Replacement, and Decommissioning

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced, if an event renders the wells unusable. The NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent periodic report.

In the past year, no monitoring well repairs, replacement, or decommissioning were completed or necessary.

3.3.3 Soil Vapor Intrusion Monitoring

In the past year, no new structures were built. No soil vapor intrusion sampling was conducted.

4.0 Conclusions

Based on the findings of the July 24, 2013 site-wide inspection, the engineering controls generally continue to perform as designed. However, sealing of cracks and breaks in the asphalt cap and the garage floor is recommended. In particular, the pot hole which appears to expose underlying soil should be repaired. The edge of the asphalt on the eastern side of the site should be repaired. The broken top rail of the fence should be repaired to maintain security. In the past year, there were no changes or needed changes to the remedial system. General site conditions are satisfactory. There are minor housekeeping issues that should be addressed including removal of the dirt and construction debris pile and nearby wood debris.

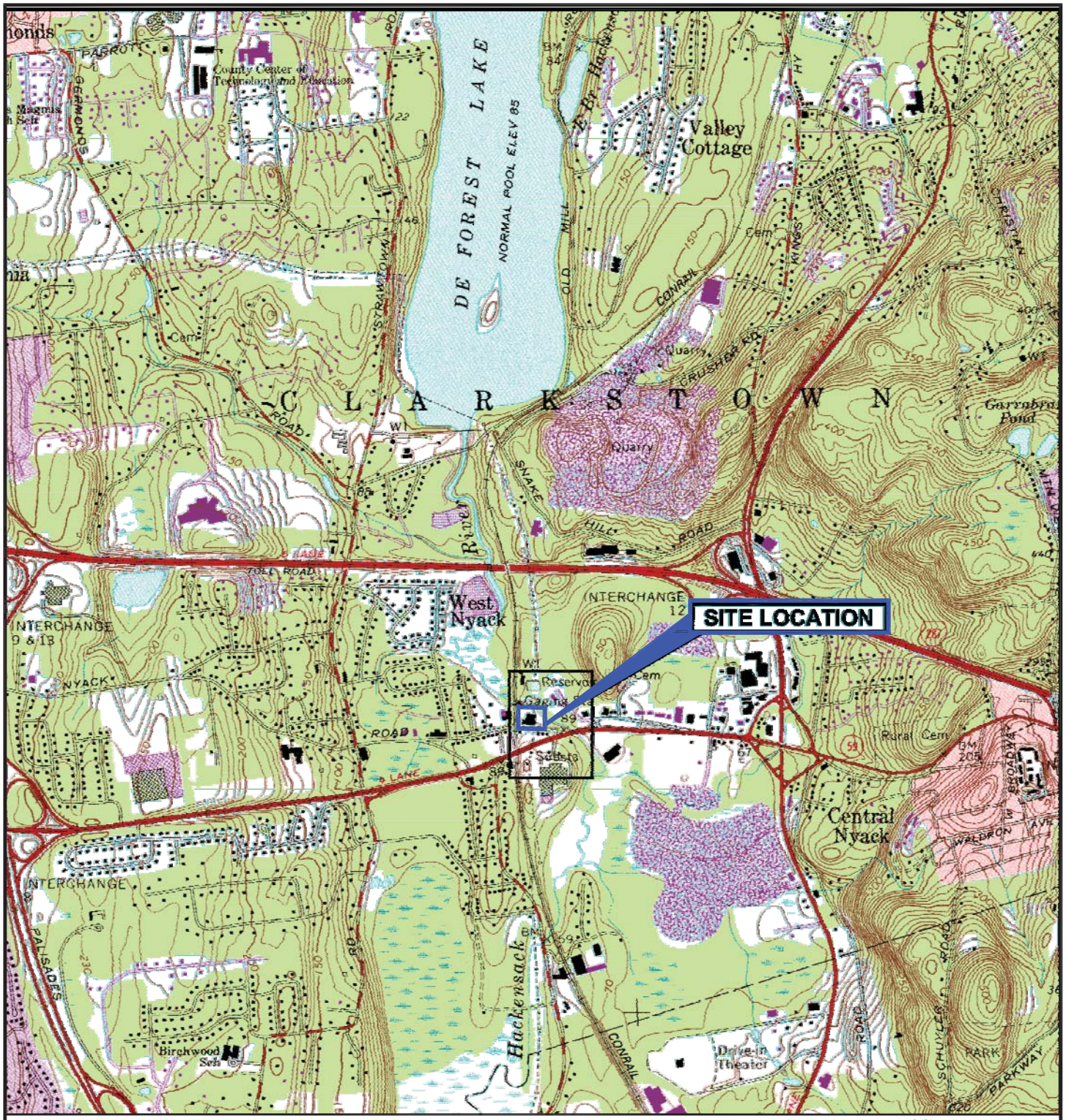
Orange & Rockland continues to comply with the requirements of the SMP and deed restrictions. The site use is unchanged. There was no residential use on-site. There is no site use of groundwater. In the past year, there was no need to submit notices to the NYSDEC. There were no buildings constructed which would require soil vapor intrusion evaluation. This report addresses the annual site-wide inspection and soil cover system monitoring. Following Hurricane Sandy, both Orange & Rockland and NYSDEC inspected the site for damage. No damage to the remedial system was identified.

No environmental sampling was conducted in the past year or required by the SMP. The potentially responsible party for the Former Grant Hardware Facility Site did not request access to the site for sampling.

5.0 References

AECOM, Inc., 2012. Site Management Plan. West Nyack Operating Center. Prepared for Orange & Rockland Utilities, Inc. July

Figures



SOURCE:
USGS 7.5' TOPOGRAPHIC QUADRANGLE FOR NYACK NY, NJ (1967 PHOTOREVISED 1979)

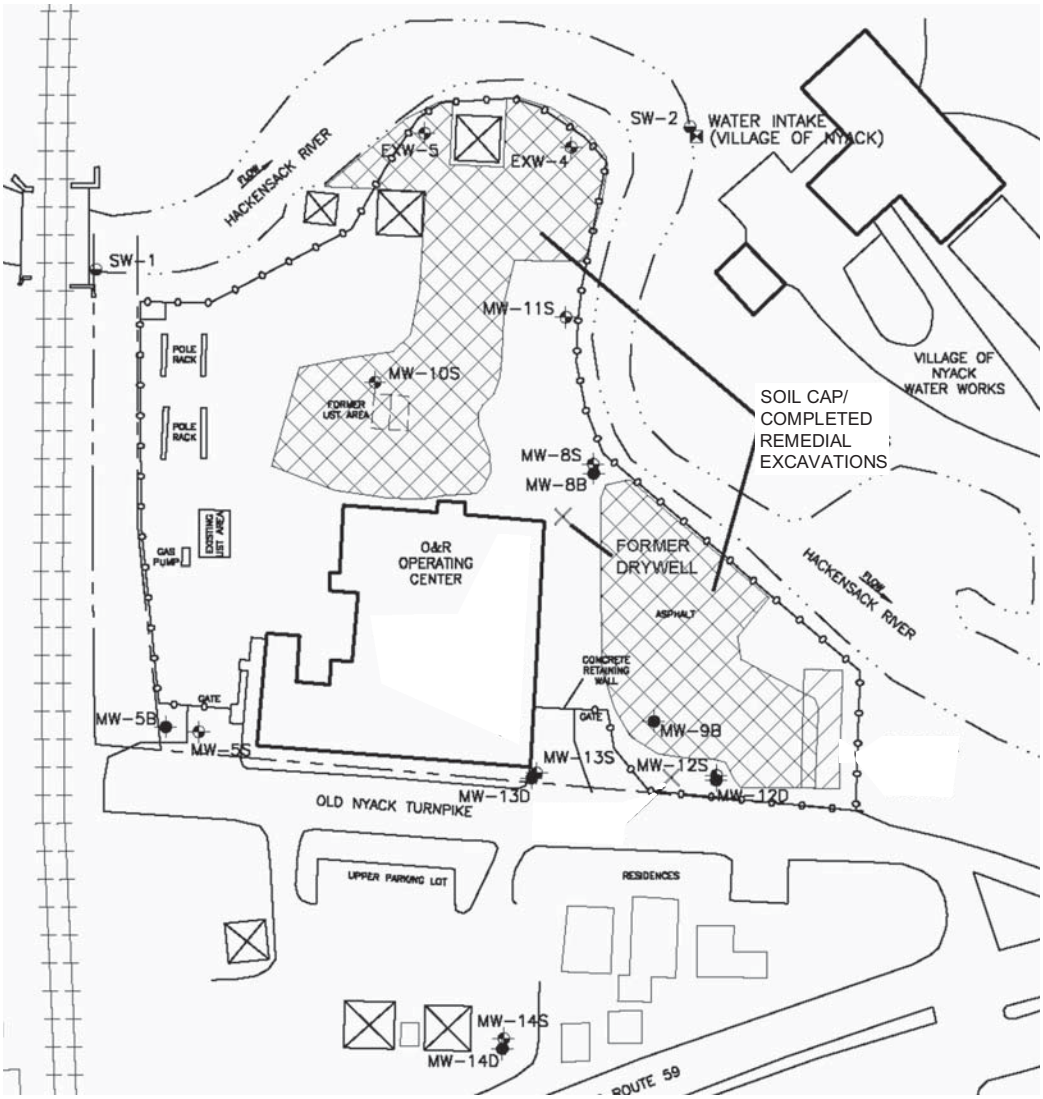
AECOM
ENVIRONMENT
30 Knightsbridge Road
Suite 520
Piscataway, NJ 08854
Phone: 732.564.3600

ORANGE AND ROCKLAND UTILITIES
WEST NYACK OPERATING CENTER

SITE LOCATION MAP

PROJECT NO.	DRAWN BY:	DATE:	
60218324.100	/jk	11/29/2011	FIGURE 1

File: J:\Project\Orange & Rockland\60218324 West Nyack\Figures\Cadd\SiteLocMap-Fig1-2011-11-29.dwg Layout: Layout1 User: karchj1 Plotted: Nov 29, 2011 - 11:14am



LEGEND

- EXISTING STRUCTURES
- TRANSMISSION TOWER
- FENCE/SITE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD TRACKS
- APPROXIMATE RIVER BANK
- MW-8S — MONITORING WELL SHALLOW (WATER TABLE)
- MW-14D — MONITORING WELL DEEP (OVERBURDEN OR WEATHERED BEDROCK)
- MW-24R — BEDROCK WELL
- SW-2 — SURFACE WATER SAMPLE LOCATION
- SOIL CAP/ COMPLETED REMEDIAL EXCAVATIONS

NOTES
1. THE SITE INCLUDES THE AREA NORTH OF OLD NYACK TURNPIKE TO THE HACKENSACK RIVER AND EAST TO THE RAILROAD.

2. THE REMAINDER OF THE AREA INSIDE OF THE FENCE LINE/SITE BOUNDARY THAT HAS NOT BEEN REMEDIATED WITH THE SOIL CAP IS PAVED.

SOURCE:
TRACED FROM AERIAL PHOTO

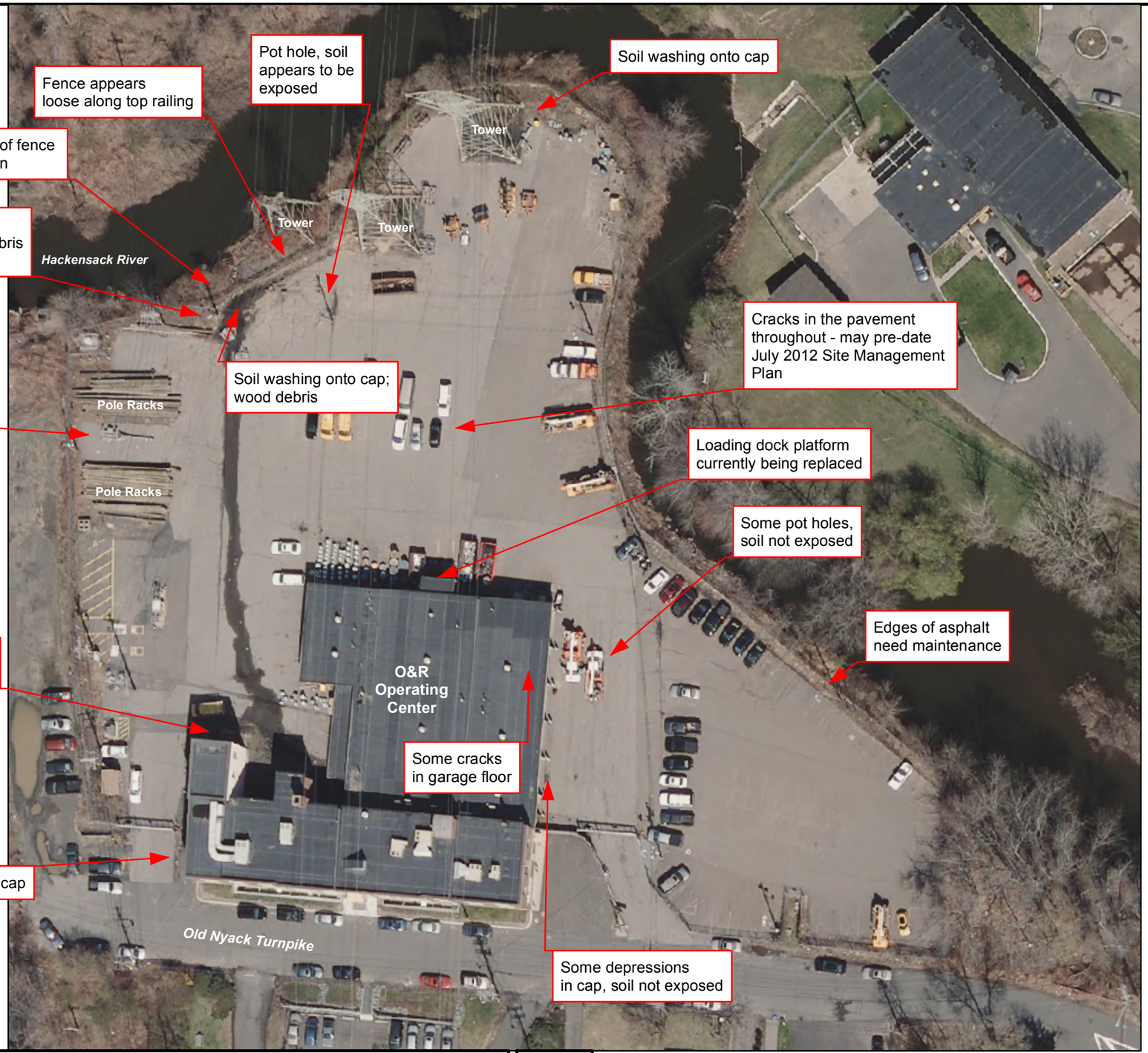
0 60 120 240
Scale in Feet

AECOM
ENVIRONMENT
30 Knightsbridge Road
Suite 520
Piscataway, NJ 08854
Phone: 732.564.3600

Orange and Rockland Utilities
West Nyack Operating Center

SITE LAYOUT

PROJECT NO.	DRAWN BY:	DATE:	
60218324.100	jk	02-15-2012	FIGURE 2



Site

Prepared for: Orange & Rockland

Prepared by: AECOM

Site Inspection Observations

West Nyack Orange and Rockland Site

SCALE:	DATE:	JN:	PATH AND FILE NAME:
0 42.5 85 Feet	8/9/2013	60304240	F3 Observations

FIGURE: 3

Appendix A

Inspection Checklist

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Site: West Nyack Orange and Rockland (WNOC)
Address: 180 West Nyack Road, West Nyack, NY 10994

Date of Inspection: 7/24/13

Weather: Sunny hot humid 85-90F

Inspector: Claire Hunt
Company: AECOM, Inc., 100 Red Schoolhouse Road, Chestnut Ridge, NY 10977

WNOC Representative: Maibeth McCormick

General Site Conditions

Are there any new or removed structures (Yes) No Replacement of loading dock platform (picture)

Does the site have proper up keep (Yes) No minor housekeeping, dirt pile, one of barrels

Evidence of unauthorized entry Yes (No)

Damage to entrances/exits Yes (No)

Any illegally dumped materials Yes (No)

Any unusual odors Yes (No)

Are any monitoring wells opened or damaged Yes (No) CH

Engineering Control Systems

The site engineering control systems is a soil cap (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap.

Note location and size of deficiencies on attached figure.

Note Integrity of:

asphalt covered roads: Good (Cracks) (some holes) Holes Stain/Seepage edges may need some maintenance

sidewalks: Good Cracks Holes Stain/Seepage N/A

concrete building slabs: (Good) Cracks Holes Stain/Seepage some cracking in garage floor

clean soil cover/cap: (Good) Cracks Holes Stain/Seepage some rocks spilling off

Was maintenance or repair of the capped areas conducted? Yes (No)

Integrity of Security Fencing around the site: Good w/ exception of 1 area needing repair

Institutional Controls (Site Restrictions)

The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed. (Yes) No

The property may not be used for a higher level of use, such as unrestricted or restricted residential use without additional remediation and amendment of the deed restriction, as approved by the NYSDEC. Residential use observed? Yes (No)

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.

Was excavation conducted on site? Yes (No) Not in the last year.
Was the Excavation Work Plan followed? Yes No NA
Were the CAMP and EHASP followed? Yes No NA
Was there any construction or other disturbances of the cap conducted on site? Yes (No)
Ask for documentation if yes.

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Any potable/nonpotable well usage? Yes (No)

The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated. New buildings in past year? Yes (No)

Was Soil Vapor Intrusion Sampling Conducted? Yes (No)

Vegetable gardens and farming on the property are prohibited Observed? Yes (No)

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. Yes (No) first inspection *Ask for documentation if yes.*

Groundwater Sampling

Was access granted to representatives of the Former Grand Hardware Facility Site for sampling? Not requested - no sampling to date in past year

Were monitoring well repairs, replacement or decommissioning required? NO

Notifications Required Yes/No

60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes (No) Not required in past year.

7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan. Yes (No) not required in past year.

Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes (No) not required in past year.

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. Yes (No) No damage for Sandy → insp. by O&R + DEC after storm DEC did a follow up inspection after Sandy. Randy Witcher inspected.

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes No (NA)

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP Yes (No) Not required in past year

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes (No) (NA)
Ask for documentation if yes. Not required in past year.

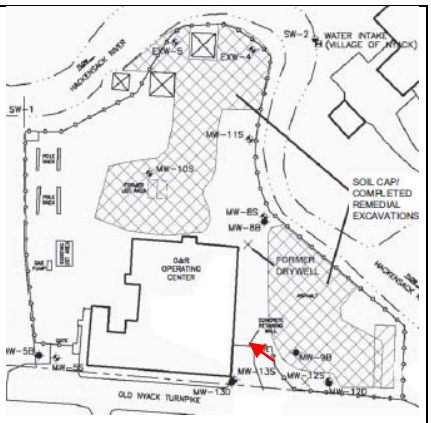
Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

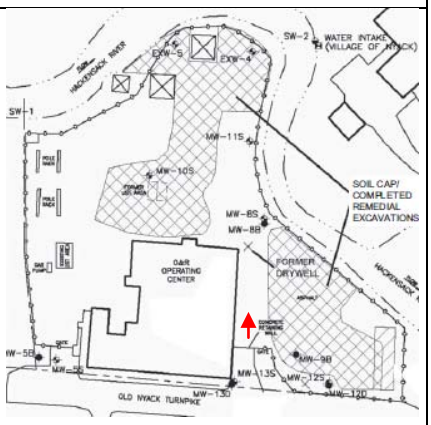
Did an emergency occur in the past year? Yes (No)
Was the fire department or other emergency response group notified immediately?
Yes No (NA)

Appendix B

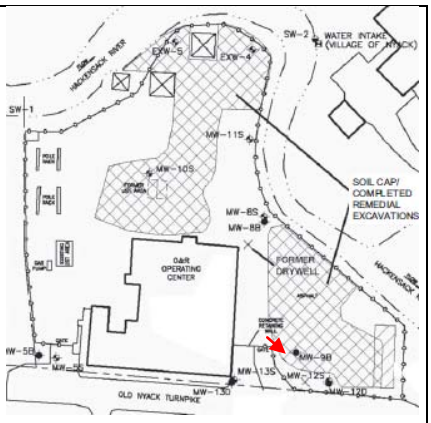
Photo Log



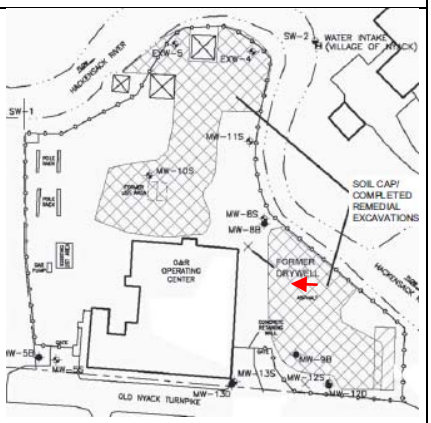
Depressions and cracks in asphalt cover



Depressions and cracks in asphalt cover



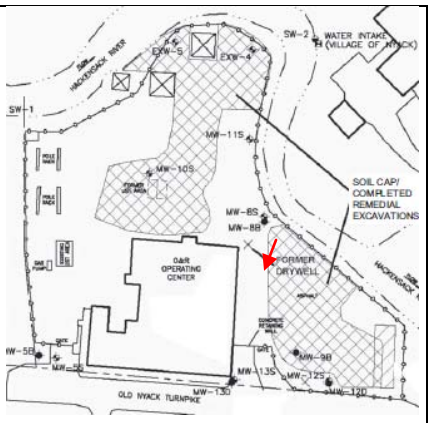
Cracks in asphalt cover

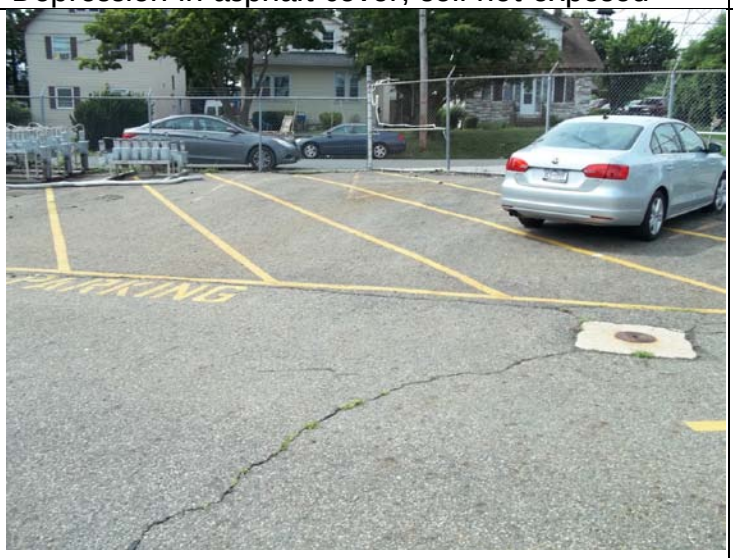


Depression in asphalt cover

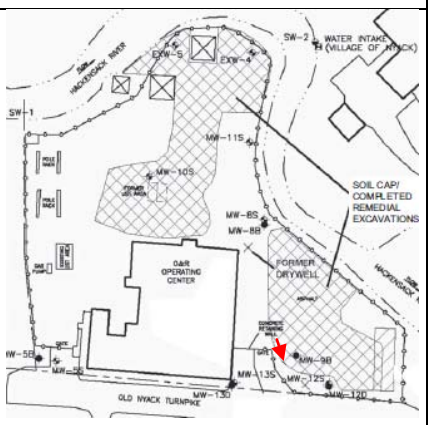
Depression in asphalt cover, soil not exposed

Depression in asphalt cover, soil not exposed

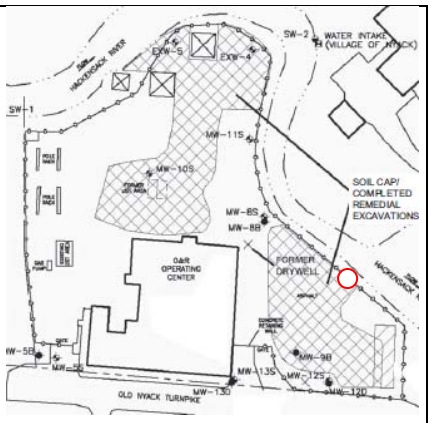




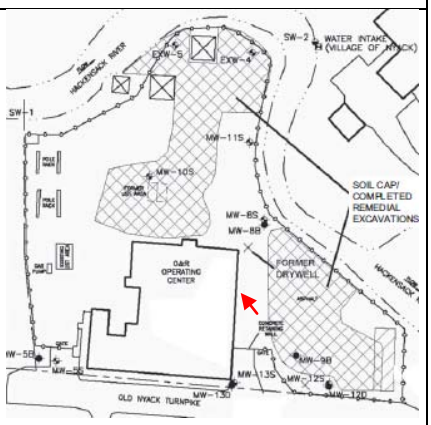
Cracks in asphalt cover, monitoring, fencing intact

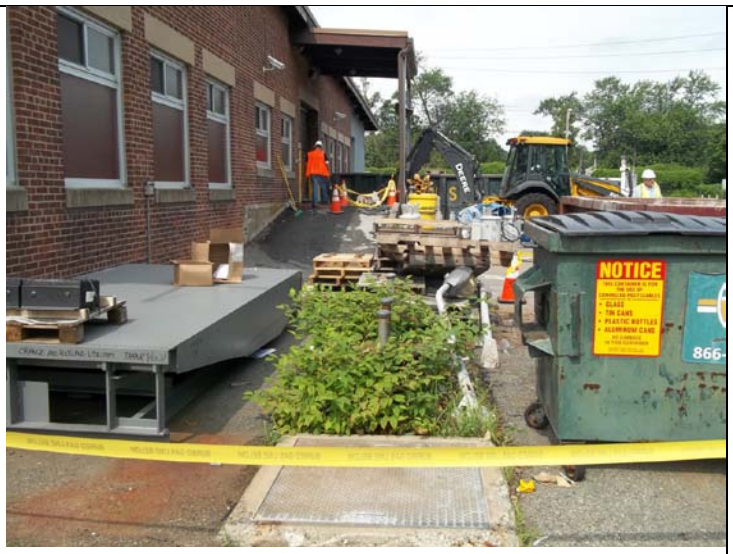


Edge of asphalt may need maintenance



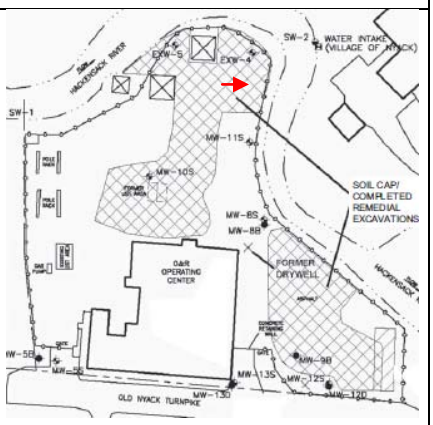
Cracks in garage floor





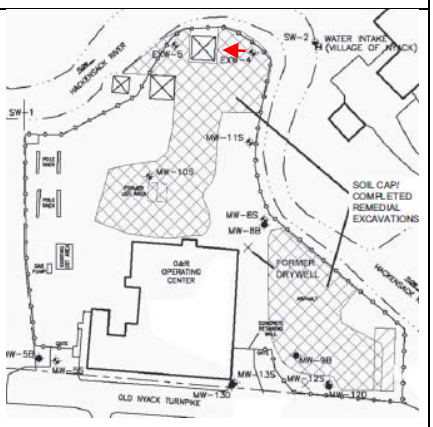
Replacing loading dock platform, soil not impacted

Equipment storage

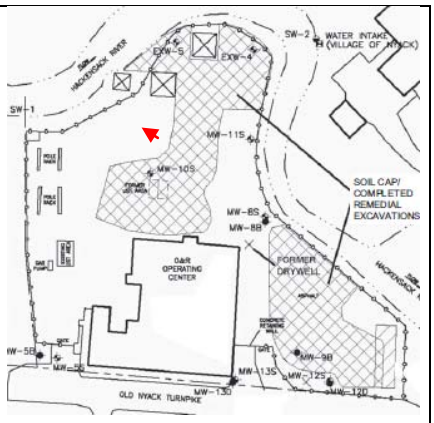


Cracks in asphalt cover, soil may be washed onto asphalt cover

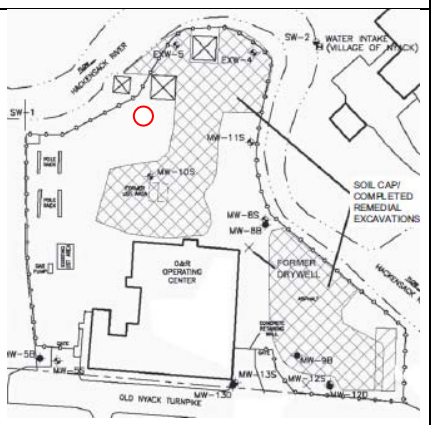
Oiled stone chips under towers



Depression in asphalt cover

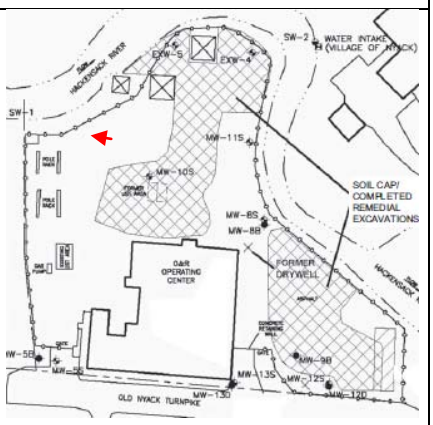


Soil appears to be exposed

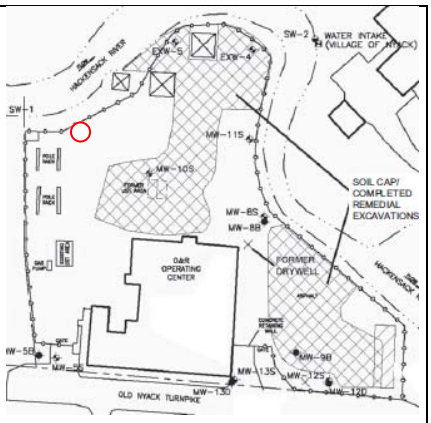


Fence appears to be loose at top railing

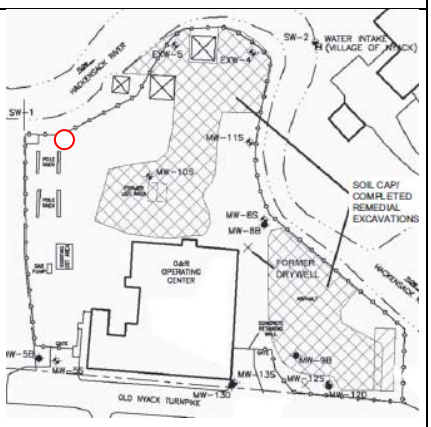
Top railing is broken



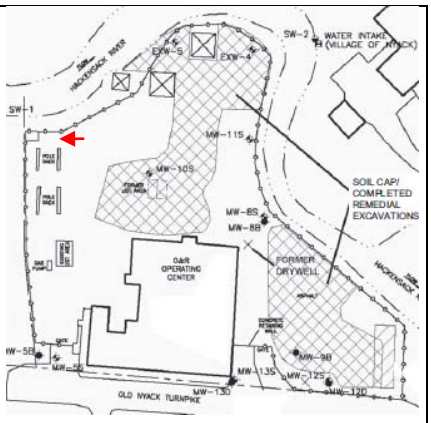
Soil appears to be washing onto asphalt cap, wood debris



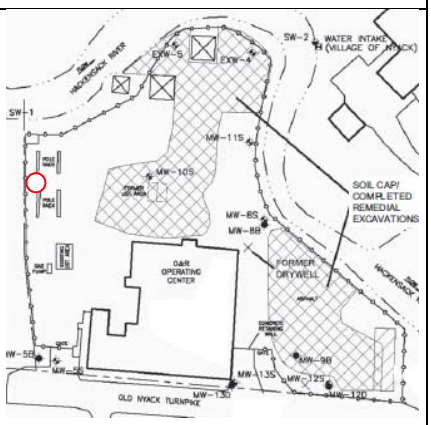
Tarp covered pile of dirt and construction debris



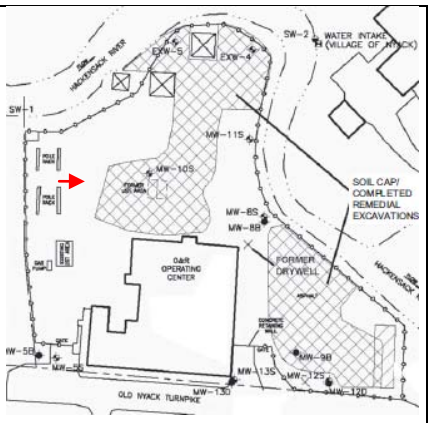
Cracks in asphalt cap, wood pole



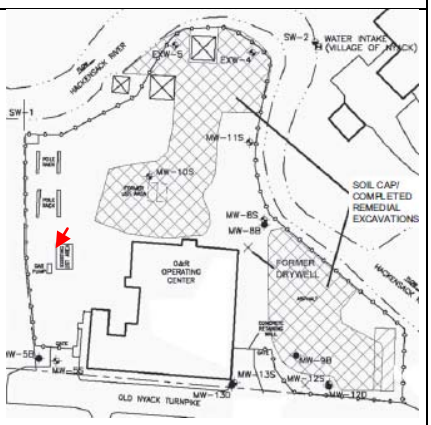
Scattered asphalt and dirt, asphalt cap does not appear to be impacted



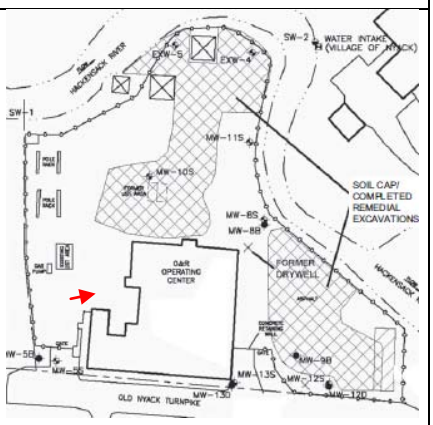
Cracks in asphalt cap



Vegetation along edge of asphalt cap

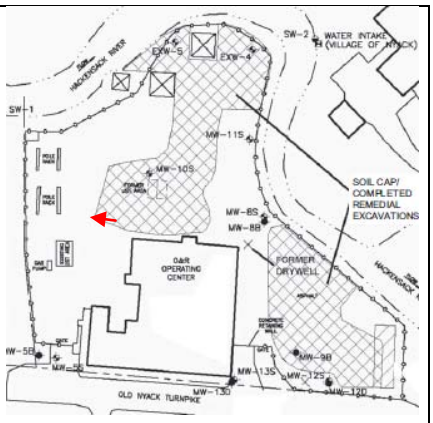


Oiled stone chips along building, some chips are falling off the mound

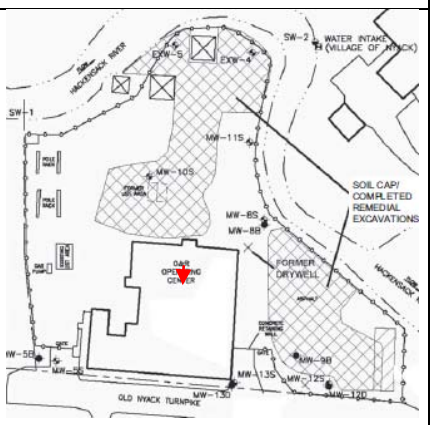


Trench pre-dates the July 2012 Site Management Plan, depression in asphalt cap

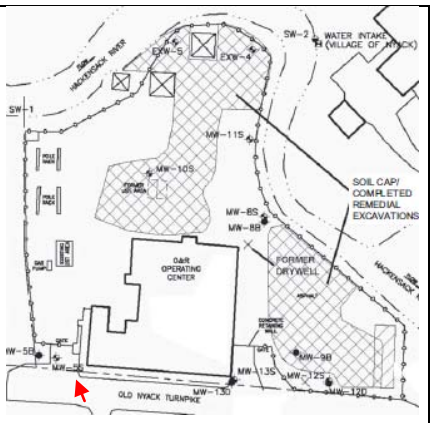
Area beneath the pole racks is not capped



Floor slabs within the building appear to be intact



Depression in asphalt outside of the fenced area



Appendix B

Emergency Generator Installation Summary Report

Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

February 13, 2018

Ms. Lexy Servis
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
Remedial Bureau C
625 Broadway, Albany, NY 12233-7014

Subject: Emergency Generator Installation Summary Report
West Nyack Operating Center
180 West Nyack Road, West Nyack, NY
NYSDEC Site # 344014

Dear Ms. Servis:

Below is a letter report with associated attachments for the work performed at the West Nyack Operating Center (Site # 344014) to install an emergency generator for the facility. This letter report was prepared in compliance with the 2012 Site Management Plan. In this report and associated attachments, Orange & Rockland (ORU) is providing a summary of the work for the NYSDEC with photos documenting the installation, analytical results of the excavated/removed soil, and disposal manifests.

Please do not hesitate to contact me with any questions.

Sincerely yours,

Maribeth McCormick
Technical Manager – Remediation
Environmental Services

Attachments:
Attachment 1 – Figure 1
Attachment 2 – Analytical Results
Attachment 3 – Waste Manifests
Attachment 4 – Photos
Attachment 5 – Backfill Documentation

cc:

Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

Scope of Work

ORU, and their contractor, Level One, has constructed and installed a 200kW emergency natural gas generator at the West Nyack Operating Center (Site). See Figure 1 included as Attachment 1. The installation included:

- Construction of a 17 foot by 13 foot foundation platform with columns and footings extending to 48 inches below grade
- Below ground electric service (located approximately 36 inches below grade)
- Below ground natural gas service supply line (approximately 100 feet from main at between 36-48 inches below grade)

The foundation platform supports the new 200 kW natural gas generator, and the service switch and meter. Gas service to the generator was installed by ORU personnel from the gas main on West Nyack Road to the generator at approximately 36-48 inches below grade. Electric service is below grade at approximately 36 inches below grade. A splice box was installed in front of the existing transformer to splice the secondary power to supply the facility. The splice box was installed at approximately 48-60 inches below grade. New secondary cables are supplied between the transformer and the new service switch and the facility.

Materials Excavated

To complete the work described above, ORU and Level One needed to excavate and dispose of approximately 116.99 tons of soil. This soil was removed, wrapped in 6 mil poly-sheeting, staged on site, sampled for waste characterization, and transported to Clean Earth of Carteret for disposal. Copies of the analytical results are included in Attachment 2. Copies of the completed waste manifests are included as Attachment 3.

Summary of Observations and Analytical Results

As the work progressed, the soil excavated was inspected (via sight and smell) for signs of contamination or impacts related to historical operations at the site. No impacts were observed. Photos of the excavation, excavated material, and associated site work are included as Attachment 4. Once the equipment was installed, all open areas were backfilled with item 4 stone, and then paved to match the existing surface. Documentation of the final backfill material is provided in Attachment 5.

Conclusions

Based on the observations made during this project, ORU believes that no additional work or monitoring is needed at this time.

Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

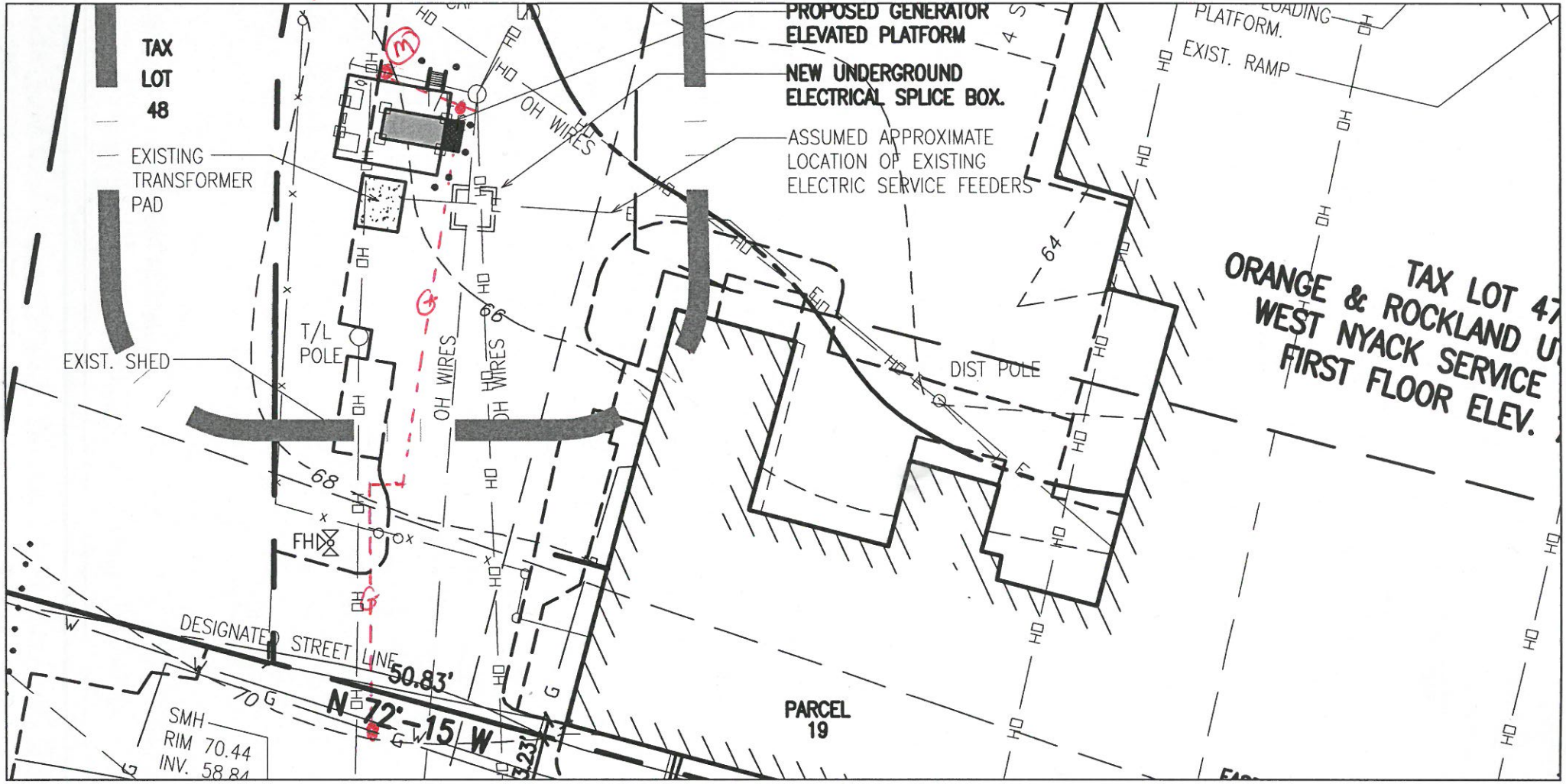
Attachment 1 – Figure 1

West Nyack Generator

NG Line - - - - -

Distance = 110ft +/-

Depth : 36"



Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

Attachment 2 – Analytical Results

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

October 10, 2017

Mr. Chad Mazenko
Clean Earth Inc.
334 S. Warminster Rd
Hatboro, PA 19040

Certificate of Analysis

Project Name:	**2017-West Nyack REV2**	Workorder:	**2265955**
Purchase Order:	**301-30595**	Workorder ID:	**2017-West Nyack REV2**

Dear Mr. Mazenko:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, October 3, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Susan J Scherer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Susan J. Scherer
Ms. Susan J Scherer
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2265955 2017-West Nyack REV2

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2265955001	WN-Comp-1	Solid	10/3/2017 09:00	10/3/2017 20:15	Collected by Client
2265955002	WN-G-1	Solid	10/3/2017 09:10	10/3/2017 20:15	Collected by Client

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2265955 2017-West Nyack REV2

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

PROJECT SUMMARY

Workorder: 2265955 2017-West Nyack REV2

Sample Comments

Lab ID: 2265955001 **Sample ID:** WN-Comp-1 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8082 PCB analysis due to the level of Aroclor detected. Reporting limits were adjusted accordingly.

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2265955 2017-West Nyack REV2

Lab ID: **2265955001** Date Collected: 10/3/2017 09:00 Matrix: Solid
Sample ID: **WN-Comp-1** Date Received: 10/3/2017 20:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Acenaphthylene	519		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Anthracene	220		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Benzo(a)anthracene	940		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Benzo(a)pyrene	996		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Benzo(b)fluoranthene	1260		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Benzo(g,h,i)perylene	970		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Benzo(k)fluoranthene	433		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Chrysene	1110		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Dibenzo(a,h)anthracene	243		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Fluoranthene	1180		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Fluorene	75.5		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Indeno(1,2,3-cd)pyrene	870		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Naphthalene	164		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Phenanthrene	590		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Pyrene	2270		ug/kg	56.6	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	76.3		%	40 - 110	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Nitrobenzene-d5 (S)	71.4		%	38 - 112	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
Terphenyl-d14 (S)	87.3		%	45 - 126	SW846 8270D	10/5/17 04:00	JTH	10/7/17 19:18	CGS	A
PCBs										
Total Polychlorinated Biphenyl	2.9		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1016	ND		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1221	ND		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1232	ND		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1242	ND		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1248	2.2		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1254	0.46		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1260	0.23		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1262	ND		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Aroclor-1268	ND		mg/kg	0.18	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	60.6		%	49 - 115	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
Tetrachloro-m-xylene (S)	68.8		%	27 - 137	SW846 8082A	10/5/17 02:00	JTH	10/6/17 00:40	EGO	A
WET CHEMISTRY										

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2265955 2017-West Nyack REV2

Lab ID: **2265955001** Date Collected: 10/3/2017 09:00 Matrix: Solid

Sample ID: **WN-Comp-1** Date Received: 10/3/2017 20:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Corrosivity as pH	8.01	3,4	pH_Units		SW846 9045D			10/7/17 05:58	MSA	A
Cyanide, Reactive	ND		ppm	10	SW-846 7.3CN	10/7/17 11:00	AHI	10/8/17 10:28	KXK	A
Ignitability	Not ignitable	2			SW846 1030			10/9/17 12:15	SDL	A
Moisture	14.0		%	0.1	S2540G-11			10/4/17 11:05	AXD	A
Sulfide, Reactive	ND	1	ppm	6.2	SW846 7.3	10/7/17 11:00	AHI	10/7/17 16:45	AHI	A
Total Solids	86.0		%	0.1	S2540G-11			10/4/17 11:05	AXD	A
METALS										
Arsenic, Total	5.8		mg/kg	0.87	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
Barium, Total	97.2		mg/kg	1.5	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
Cadmium, Total	0.41		mg/kg	0.29	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
Chromium, Total	17.9		mg/kg	0.58	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
Lead, Total	151		mg/kg	0.58	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
Mercury, Total	0.23		mg/kg	0.057	SW846 7471B	10/4/17 11:15	AXC	10/4/17 13:19	AXC	A1
Selenium, Total	ND		mg/kg	1.5	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
Silver, Total	ND		mg/kg	0.58	SW846 6020A	10/5/17 07:33	JTP	10/5/17 15:39	JTP	A2
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3
Barium, Total	ND		mg/L	2.8	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3
Mercury, Total	ND		mg/L	0.050	SW846 7470A	10/10/17 08:40	AXC	10/10/17 13:47	AXC	A4
Selenium, Total	ND		mg/L	0.11	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	10/10/17 03:55	LXC	10/10/17 11:17	MNP	A3

Susan J. Scherer

Ms. Susan J Scherer
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2265955 2017-West Nyack REV2

Lab ID: **2265955002** Date Collected: 10/3/2017 09:10 Matrix: Solid

Sample ID: **WN-G-1** Date Received: 10/3/2017 20:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Gasoline Range Organics	ND		ug/kg	9770	SW846 8015D	10/4/17 06:55	DD	10/5/17 00:14	DD	A
TPH - DRO C10-C44	38.4		mg/kg	11.7	SW846 8015D	10/4/17 16:55	JXD	10/5/17 17:14	BS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	43.3		%	38 - 118	SW846 8015D	10/4/17 16:55	JXD	10/5/17 17:14	BS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
a,a,a-Trifluorotoluene (S)	124		%	72 - 134	SW846 8015D	10/4/17 06:55	DD	10/5/17 00:14	DD	A
VOLATILE ORGANICS										
Acetone	ND		ug/kg	9.6	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Benzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Bromochloromethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Bromodichloromethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Bromoform	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Bromomethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
2-Butanone	ND		ug/kg	9.6	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Carbon Disulfide	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Carbon Tetrachloride	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Chlorobenzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Chlorodibromomethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Chloroethane	ND		ug/kg	4.8	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Chloroform	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Chloromethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Cyclohexane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2-Dibromoethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2-Dichlorobenzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,3-Dichlorobenzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,4-Dichlorobenzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Dichlorodifluoromethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,1-Dichloroethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2-Dichloroethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,1-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
cis-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
trans-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2-Dichloropropane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
cis-1,3-Dichloropropene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2265955 2017-West Nyack REV2

Lab ID: **2265955002** Date Collected: 10/3/2017 09:10 Matrix: Solid

Sample ID: **WN-G-1** Date Received: 10/3/2017 20:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	**ND**		**ug/kg**	**1.9**	**SW846 8260B**	**10/4/17 06:56**	**TMP**	**10/4/17 17:02**	**TMP**	**A2**
1,4-Dioxane	ND		ug/kg	71.8	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Ethylbenzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Freon 113	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
2-Hexanone	ND		ug/kg	9.6	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Isopropylbenzene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Methyl acetate	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Methyl cyclohexane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Methyl t-Butyl Ether	ND	4,5	ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	9.6	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Methylene Chloride	12.3	1,2,3	ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Styrene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Tetrachloroethene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Toluene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Total Xylenes	ND		ug/kg	5.7	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,1,1-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
1,1,2-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Trichloroethene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Trichlorofluoromethane	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Vinyl Chloride	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
o-Xylene	ND		ug/kg	1.9	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
mp-Xylene	ND		ug/kg	3.8	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.1		%	56 - 124	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
4-Bromofluorobenzene (S)	92.8		%	51 - 128	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Dibromofluoromethane (S)	109		%	62 - 123	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
Toluene-d8 (S)	89.8		%	59 - 131	SW846 8260B	10/4/17 06:56	TMP	10/4/17 17:02	TMP	A2
WET CHEMISTRY										
Moisture	10.4		%	0.1	S2540G-11			10/4/17 11:05	AXD	A
Total Solids	89.6		%	0.1	S2540G-11			10/4/17 11:05	AXD	A

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2265955 2017-West Nyack REV2

Lab ID:	**2265955002**	Date Collected:	10/3/2017 09:10	Matrix:	Solid
Sample ID:	**WN-G-1**	Date Received:	10/3/2017 20:15		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr

Susan J. Scherer

Ms. Susan J Scherer
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2265955 2017-West Nyack REV2

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2265955001	1	WN-Comp-1	SW846 7.3	Sulfide, Reactive
The lack of homogeneity in the sample caused the replicate analysis of this analyte to exceed the established control limits for precision.				
2265955001	2	WN-Comp-1	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2265955001	3	WN-Comp-1	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2265955001	4	WN-Comp-1	SW846 9045D	Corrosivity as pH
The solid pH measured in water was 8.005 at 20.1 degrees C.				
2265955002	1	WN-G-1	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
2265955002	2	WN-G-1	SW846 8260B	Methylene Chloride
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 154 and the control limits were 68 to 133.				
2265955002	3	WN-G-1	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 153 and the control limits were 68 to 133.				
2265955002	4	WN-G-1	SW846 8260B	Methyl t-Butyl Ether
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 124 and the control limits were 70 to 118.				
2265955002	5	WN-G-1	SW846 8260B	Methyl t-Butyl Ether
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 128 and the control limits were 70 to 118.				

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

* 2 2 6 5 9 5 5 *

Client Name: Clean Earth, Inc.
125 Middlesex Ave Carteret, NJ
334 S. Warminster Rd. Hatboro, PA 19040
Contact: Tehas Shah
Phone#: (215) 734-1400
Project Name/#: West Nyack REV2
PO#::
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: ______ Approved By: ______
Email? [x]-Y tshah@cleanearthinc.com
Fax? [ ]-Y No.: cmazenko@cleanearthinc.com

Container Type			Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass
Container Size			8oz	16oz	16oz	16oz	16oz	16ozz	16oz	16oz	16oz
Preservative			None	None	None	None	None	None	None	None	None

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	TPH (GRO/DRO-C22) (8015M)	Total VOC's	PAH's	Total Metals RCRA	TCLP Metals RCRA	PCB's	Ignitability	Corrosivity (pH)	Reactivity-Sulfide and Cyanide	Sample/COC Comments
WN-Comp-1	10/3/17	9:00	C	So	[scribbled]	[scribbled]	X	X	X	X	X	X	X	
WN-G-1	10/3/17	9:10	G	So	X (crossed out) emh	X emh								

Cooler Temp: 2°C Cooler #:
Therm. ID 309

	Y	N
Custody Seals Present?		✓
(if present) Seals Intact?		
Received on Ice?	✓	
COC/Labels Agree?	✓	
Cont. in Good Cond.?	✓	
Correct Containers?	✓	
Correct Sample Volumes?	✓	
Correct Preservation?	✓	

Information concerning all nonconformance samples/containers shall be recorded on the COC.

Ship. Carrier: UPS / FedEx / DHL / Other ______
Tracking #: ______

ALSI Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther: ______

Project Comments:

Logged By (initials/date/time) 10/3/17 2115
Reviewed By (initials/date/time)

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	Sal D'Alia / CEI	10/3	9:00	2	[signature] ALS	10/3/17	1317
3	[signature]	10/3/17		4	[signature]	10-3	1630
5	[signature]	10-3	2019	6	[signature] ALS	10/3	2015
7				8			
9				10			

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE [ ] Canal Rd EDD
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [X] Special [ ]
EDDS: Format Type- NJ EDD

* G=Grab; C=Composite **Matrix - AI=Air, DW=Drinking Water, GW=Groundwater, OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY Rev 8/04

Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

Attachment 3 – Waste Manifests

CLEANEARTH

Manifest # 1251373

GLOBAL JOB NUMBER: 146768 **FACILITY APPROVAL NUMBER:** 173071401

Please Check One:

- [x] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☑Yards	35yards
West Nyack Project 766 West Nyack Rd West Nyack NY 10994	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NON-HAZ INDUSTRIAL SOIL

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Kim Stewart Title: Superintendent

Signature: Kim Stewart Date and Time: 10/25/17

TRANSPORTER

Company: Prince Transport Phone Number:

Address: 145 Central Landing NJ Truck # and License Plate: #512-AS9532

Driver: Julio Castro SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 10-25-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10-25-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 10-25-17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000746766

	Date	Time	Scale
In:	10/25/2017	09:50:27	CECSCALE1
Out:	10/25/2017	09:50:38	

Manifest: 1251373

Vehicle ID: 07PRINCE512

Vehicle Permit:

	Lbs.	Tns
Gross:	67980.00	33.99
Tare:	28100.00	14.05
Net:	39880.00	19.94

Customer: LEVEL ONE CONSTRUCTION SERVICES

Carrier: .

Facility Approval#: 173071401

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: West Nyack Project

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	19.9400	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1251374

GLOBAL JOB NUMBER: 146768 **FACILITY APPROVAL NUMBER:** 173071401

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	30 yards
West Nyack Project 766 West Nyack Rd West Nyack NY 10994	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Hazardous Industrial Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: KEN STEWART Title: Superintendent Facilities

Signature: Ken Stewart Date and Time: 10/25/17

TRANSPORTER

Company: Della Rocca Phone Number: _____

Address: 145 Center, Landing NJ Truck # and License Plate: 60638 PC

Driver: OSCAR LONDONO SW Haulers Permit #: _____
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 10-25-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 10-25-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 10-25-17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000746796

	Date	Time	Scale
In:	10/25/2017	10:05:27	CECSCALE1
Out:	10/25/2017	10:05:55	

Manifest:

Vehicle ID: 07DELLA226

Vehicle Permit:

	Lbs.	Tns
Gross:	62420.00	31.21
Tare:	30200.00	15.10
Net:	32220.00	16.11

Customer: LEVEL ONE CONSTRUCTION SERVICES

Carrier: .

Facility Approval#: 173071401

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: West Nyack Project

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	16.1100	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1251375

GLOBAL JOB NUMBER: 146768 FACILITY APPROVAL NUMBER: 173071401

Please Check One:

- [x] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: West Nyack Project 766 West Nyack Rd. West Nyack NY 10994	GROSS WEIGHT: ☐Tons ☐Yards 20 yds
GENERATOR'S PHONE:	TARE WEIGHT: ☐Tons ☐Yards
	NET WEIGHT: ☐Tons ☐Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Non Hazardous Industrial Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ken Stewart Title: Superintendent

Signature: Ken Stewart Date and Time: 10/25/17

TRANSPORTER

Company: Prince Transport Phone Number:

Address: 145 Center st Landing NJ Truck # and License Plate: #512.AS4532

Driver: Julio Castro (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 10-25-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 10-25-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 10-25-17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000747067

	Date	Time	Scale
In:	10/25/2017	12:57:02	CECSCALE1
Out:	10/25/2017	12:57:12	

Manifest: 1251375

Vehicle ID: 07PRINCE512

Vehicle Permit:

	Lbs.	Tns
Gross:	54240.00	27.12
Tare:	28100.00	14.05
Net:	26140.00	13.07

Customer: LEVEL ONE CONSTRUCTION SERVICES

Carrier: .

Facility Approval#: 173071401

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: West Nyack Project

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	13.0700	TONS

Comment:

Driver:

Facility: _____
Rendon, Adres

CLEANEARTH

Manifest # 1251372

GLOBAL JOB NUMBER: 146768 FACILITY APPROVAL NUMBER: 17307140

Please Check One:

- ☒ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: West Nyack Project 766 West Nyack Rd West Nyack NY 10994	GROSS WEIGHT: ☐Tons ☐Yards — 25yds TARE WEIGHT: ☐Tons ☐Yards NET WEIGHT: ☐Tons ☐Yards
GENERATOR'S PHONE:	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Hazardous Industrial Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: KEN STEWART Title: Superintendent
Signature: Ken Stewart Date and Time: 10/25/17

TRANSPORTER

Company: Della Rocca Phone Number:
Address: 145 CENTER LANDIN NJ Truck # and License Plate: 6063BPC
Driver: Oscar OSCar SW Haulers Permit #:
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Oscar Date and Time: 10-25-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Oscar Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 10-25-17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000747096

	Date	Time	Scale
In:	10/25/2017	13:16:46	CECSCALE1
Out:	10/25/2017	13:16:55	

Manifest: 1251372

Vehicle ID: 07DELLA226

Vehicle Permit:

	Lbs.	Tns
Gross:	55820.00	27.91
Tare:	30200.00	15.10
Net:	25620.00	12.81

Customer: LEVEL ONE CONSTRUCTION SERVICES

Carrier: .

Facility Approval#: 173071401

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: West Nyack Project

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	12.8100	TONS

Comment:

Driver:

Facility: _____
Rendon, Adres

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000755707

	Date	Time	Scale
In:	11/9/2017	10:49:51	CECSCALE1
Out:	11/9/2017	10:49:59	

Manifest: 1134009

Vehicle ID: 07FF1

Vehicle Permit:

	Lbs.	Tns
Gross:	49060.00	24.53
Tare:	28660.00	14.33
Net:	20400.00	10.20

Customer: LEVEL ONE CONSTRUCTION SERVICES

Carrier: .

Facility Approval#: 173071401

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: West Nyack Project

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	10.2000	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1134009

GLOBAL JOB NUMBER: 146768 **FACILITY APPROVAL NUMBER:** 173071401

Please Check One:

- ☑ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	30 YDS
766 WEST NYACK RD WEST NYACK, NY	TARE WEIGHT: ☑ Tons ☐ Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☑ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: KEN STEWART Title: Superintendent

Signature: Ken Stewart Date and Time: 11/9/17

WAITING TIME TIME IN: 7:00 AM TIME OUT: 9:30

TRANSPORTER

Company: F.F. JUNIOR Phone Number:

Address: 47 DORIE ST Truck # and License Plate: AT 461-7

Driver: FRED PN SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: 11/9/2017 Date and Time: 11/9/2017

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 11/9/2017

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 11/9/17

FACILITY

CLEANEARTH

Manifest # 1419826

GLOBAL JOB NUMBER: 146768 FACILITY APPROVAL NUMBER: 173071663

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	25 yards
ORange + Rockland Utilities 766 West Nyack Road West Nyack NY. 10994	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION: Non Hazardous Industrial Soil

GENERATOR'S CERTIFICATION -- Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: KEN STEWART Title: Superintendent

Signature: Ken Stewart Date and Time: 12/12/17

TRANSPORTER

Company: PRINCE Phone Number: 786-234-4450

Address: 115 CENTER ST LANDING NJ Truck # and License Plate: #501-AR592F

Driver: Julio Castro SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 12-12-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 12-12-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 12-12-17

FACILITY

PS 10102937

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000774763

	Date	Time	Scale
In:	12/12/2017	09:42:10	CECSCALE1
Out:	12/12/2017	09:42:17	

Manifest: 1419826

Vehicle ID: 07PRINC501

Vehicle Permit:

	Lbs.	Tns
Gross:	67260.00	33.63
Tare:	28260.00	14.13
Net:	39000.00	19.50

Customer: LEVEL ONE CONSTRUCTION SERVICES

Carrier: .

Facility Approval#: 173071663

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: O&R - West Nyack

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	19.5000	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1419814

GLOBAL JOB NUMBER: 146768 FACILITY APPROVAL NUMBER: 173071663

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-8820

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Orange + Rockland Utilities
766 West Nyack Road
West Nyack, NY 10994

GENERATOR'S PHONE: _____

GROSS WEIGHT: ☐Tons ☐Yards — 25 yds

TARE WEIGHT: ☐Tons ☐Yards

NET WEIGHT: ☐Tons ☐Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Hazardous Industrial Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: KEN STEWART Title: Superintendent

Signature: Ken Stewart Date and Time: 12/12/17

TRANSPORTER

Company: Della Rocca Phone Number: _____

Address: 211 Coeymans Ave Staten Island Truck # and License Plate: 60638 PC

Driver: C. Cox SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 12-12-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 12/12/17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418300 Fax: 7325418105

Ticket: 700000774879

	Date	Time	Scale
In:	12/12/2017	10:36:33	CECSCALE1
Out:	12/12/2017	10:36:46	

Manifest: 1419814

Vehicle ID: 07DELLA226

Vehicle Permit:

Customer: LEVEL ONE CONSTRUCTION SERVICES

	Lbs.	Tns
Gross:	80920.00	40.46
Tare:	30200.00	15.10
Net:	50720.00	25.36

Carrier: .

Facility Approval#: 173071663

Generator: Orange and Rockland Utilities

Gen Address: 390 West Route 59
Spring Valley, 07008
NY

Job Name: O&R - West Nyack

Job Address: 766 West Nyack Road
West Nyack, 10994
NY

Contaminate Type	Quantity	Unit
Soil Treatment Type II	25.3600	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

Attachment 4 – Photos

Orange & Rockland
a conEdison, inc. company

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

Attachment 5 – Backfill Documentation

ESTIMATE

L1 Construction Management

Rifflard Inc
52 Plank Rd
Napanoch, New York 12458

Phone: (845) 496-7295
Email: rifflardinc@gmail.com
Fax: (845) 786-1085

Estimate # 000112
Date 10/18/2017

Description	Quantity
Item 4 Item 4 stone purchased from tilcon	60.0
Trucking Hauling item 4 from tilcon to O&R West Nyack	6.0

Subtotal

Total

Any questions please feel free to contact us.

INVOICE

L1 Construction Management

Rifflard Inc
52 Plank Rd
Napanoch, New York 12458

Phone: (845) 496-7295
Email: rifflardinc@gmail.com
Fax: (845) 786-1085

Payment Terms	Due upon receipt
Invoice #	000194
Date	12/13/2017

Description	Quantity
Backfill Piers Backfill piers West Nyack O&R. Includes machine and labor. 10-25-17	1.0
Item 4 Imported to site to backfill piers. 10-25-17	58.15

Subtotal

Total

Summary

Paid

Amount Due

Any questions please feel free to contact us.

Appendix C

Photo Documentation

Appendix C
Photo Documentation – August 2018 Site Inspection
O&R West Nyack Operations Center

PHOTOGRAPH 1
New Pavement –Looking South, East of NYOC Building

PHOTOGRAPH 2
New Pavement –Looking North, East of NYOC Building

Appendix C
Photo Documentation – August 2018 Site Inspection
O&R West Nyack Operations Center

PHOTOGRAPH 3
New Pavement – West of Building Looking North

PHOTOGRAPH 4
Base of Northwestern Transmission Tower – Oil Stone Chips Present

Appendix C
Photo Documentation – August 2018 Site Inspection
O&R West Nyack Operations Center

PHOTOGRAPH 5
New Fence Installed Along North Western Fence Line

PHOTOGRAPH 6
Southwestern Side of Building – Oil Stone Chips Adjacent to Building

Appendix C
Photo Documentation – August 2018 Site Inspection
O&R West Nyack Operations Center

PHOTOGRAPH 7
New Emergency Generator Pavement Patch – Southwest side of Building

PHOTOGRAPH 8
Depression/Crack in Pavement Patch for New Emergency Generator

Appendix C
Photo Documentation – August 2018 Site Inspection
O&R West Nyack Operations Center

PHOTOGRAPH 9
Cracks in Concrete Floor of Garage on East Side of Building

PHOTOGRAPH 10
Pavement on Lot 48 – West of Fence-line, East of RR, looking South

Appendix C
Photo Documentation – August 2018 Site Inspection
O&R West Nyack Operations Center

PHOTOGRAPH 11
Pavement on Lot 48 – West of Fence-line, East of RR, looking South

Appendix D

Annual Inspection and Certification Checklist

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Site: West Nyack Orange and Rockland (WNOC)
Address: 766 West Nyack Road, West Nyack, NY 10994

Date of Inspection: 8/7/18

Weather: Sunny Hot 85°F

Inspector: Kathleen Slimon
Company: GEI Consultants, Inc., 455 Winding Brook Drive, Glastonbury, CT 06033

O&R Representative: Maribeth Mccormick

General Site Conditions

Are there any new or removed structures: Yes ___ No X
Does the site have proper up keep: Yes___ No __
Evidence of unauthorized entry: Yes ___ No X
Damage to entrances/exits: Yes ___ No X
Any illegally dumped materials: Yes ___ No X
Any unusual odors: Yes ___ No X
Are any monitoring wells opened or damaged: Yes ___ No X

Engineering Control Systems

The site engineering control systems is a soil cap (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap.

Note Integrity of:
Asphalt covered roads: (Good) Cracks Holes Stain/Seepage

Concrete building slabs: (Good) Cracks Holes Stain/Seepage Some minor cracks no exposed soil

Clean soil cover/cap: (Good) Cracks Holes Stain/Seepage some erosion on sloped areas

Was maintenance or repair of the capped areas conducted? (Yes) No _____
repaved in 2016 - Approved by NYS DEC

Integrity of Security Fencing around the site: Good - damaged area noted in 2013 was repaired

Heavily vegitated -

Institutional Controls (Site Restrictions)

The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed. Yes No

The property may not be used for a higher level of use such as unrestricted or restricted residential use without additional remediation and amendment of the deed restriction, as approved by the NYSDEC. Residential use observed? Yes No

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.

Was excavation conducted on site? Yes No
Was the Excavation Work Plan followed? Yes No
Were the CAMP and EHASP followed? Yes No
Was there any construction or other disturbances of the cap conducted on site? Yes No
Ask for documentation if yes. See Report

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Any potable/non-potable well usage? Yes No

The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated. New buildings in past year? Yes No

Was Soil Vapor Intrusion Sampling Conducted? Yes No

Vegetable gardens and farming on the property are prohibited Observed? Yes No

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation of failure to comply with the SMP. Yes No _____
Ask for documentation if yes.

Groundwater Sampling
Was access granted to representatives of the Former Grant Hardware Facility Site for sampling?
_____ NO

Were monitoring well repairs, replacement or decommissioning required? Yes No

Notifications Required Yes/No

60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes No

7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan. Yes No

Notice within 48-hours of any damage or defect to the foundations structures that reduced or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes No

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. Yes No

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes No

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP. Yes No

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes No
Ask for documentation if yes.

Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

Did an emergency occur in the past year? Yes No
Was the fire department or other emergency response group notified immediately?
Yes No

Appendix E

Institutional and Engineering Controls Certification Form

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Site Management Periodic Review Report Notice

Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 344014

Site Name Orange & Rockland Utilities

Site Address: 180 West Nyack Road Zip Code: 10994
Currently 766 West Nyack Rd

City/Town: West Nyack

County: Rockland

Site Acreage: 5.2

Reporting Period: July 31, 2013 to July 31, 2018
Inspection Performed on August 7, 2018

	YES	NO
1. Is the information above correct?	☐	X
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 344014 Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
65.05-2-43	Orange & Rocklnad Utilities	~~IC/EC Plan~~ Landuse Restriction ~~Monitoring Plan~~ ~~Site Management Plan~~ Ground Water Use Restriction ~~Soil Management Plan~~

Parcel 43 is not included in the remedial measures or in the SMP. There are no Engineering Controls on Parcel 43. Parcel 43 is included in the deed restriction for landuse restrictions and prohibition against the use of groundwater.

* Prohibition against the use of groundwater without treatment.

* Land use must be maintained as industrial

~~* Soil Management Plan must be followed~~

~~* Cover must maintained~~

65.05-2-47	Orange & Rockland	Landuse Restriction Soil Management Plan Monitoring Plan Site Management Plan Ground Water Use Restriction

* Prohibition against the use of groundwater without treatment.

* Land use must be maintained as industrial

* Soil Management Plan must be followed

* Cover must maintained

65.5-2-48	Orange & Rockland	Ground Water Use Restriction Landuse Restriction Soil Management Plan Monitoring Plan Site Management Plan

* Prohibition against the use of groundwater without treatment.

* Land use must be maintained as industrial

* Soil Management Plan must be followed

* Cover must maintained

Box 4

Description of Engineering Controls

Parcel	Engineering Control
65.05-2-43	
There are no Engineering Controls on Parcel 43. Parcel 43 was not included in the remedial measures or in the SMP	~~Fencing/Access Control~~ ~~Cover System~~
65.05-2-47	Cover System Fencing/Access Control
65.5-2-48	

Parcel	Engineering Control Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   Corrections noted in Box 3 and Box 4 above and as noted in Item (d) below.

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control;

   It is noted that the annual site wide inspections and cover system monitoring as specified in the SMP were not conducted from 2014 through 2017.

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☐

Corrections noted in Box 3 and Box 4 above and as noted in item (d) above

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 344014

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE per the corrections and notes provided

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Maribeth McCormick at 3 Old Chester Road, Goshen, NY 10924.
print name print business address

am certifying as Orange and Rockland Utilities, Inc. (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Maribeth McCormick 8/17/18
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

per the notes and corrections provided.

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Kathleen F. Slimon, P.E. at 455 Winding Brook Dr., Suite 201, Glastonbury, CT 06033
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date 8/16/18